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RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION FOR
GROUP 4 SOLID WASTE MANAGEMENT UNITS 47, 53 AND 55 NS MAYPORT FL
12/1/2004
TETRA TECH NUS

**Resource Conservation and
Recovery Act (RCRA)
Facility Investigation
for
Solid Waste Management Units
47, 53, and 55
(Group IV)**

Naval Station Mayport
Mayport, Florida



**Southern Division
Naval Facilities Engineering Command**

Contract Number N62472-90-D-0888

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**RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)
FACILITY INVESTIGATION
FOR
SOLID WASTE MANAGEMENT UNITS 47, 53, AND 55
(GROUP IV)**

**NAVAL STATION MAYPORT
MAYPORT, FLORIDA**

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

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PROFESSIONAL CERTIFICATION

Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI)
Solid Waste Management Units (SWMUs) 47, 53, and 55 (Group IV)
U.S. Naval Station, Mayport, Florida

This document, Resource Conservation and Recovery Act (RCRA) Facility Investigation; Solid Waste Management Units (SWMUs) 47, 53, and 55; U.S. Naval Station, Mayport, Florida has been prepared under the direction of a Florida Registered Professional Geologist. The work and professional opinions rendered in the report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of additional information on the assessment and recommendations in this report. This document was prepared specifically for the referenced site and should not be construed to apply to any other site.



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07 DEC 04

Date

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
PG CERTIFICATION	iii
ACRONYMS	viii
1.0 INTRODUCTION	1-1
1.1 REGULATORY SETTING AND BACKGROUND.....	1-1
1.2 PURPOSE.....	1-3
1.3 SCOPE.....	1-3
1.4 RFI REPORT LAYOUT.....	1-4
1.5 FACILITY DESCRIPTION AND BACKGROUND.....	1-4
1.6 GROUP IV DESCRIPTION AND BACKGROUND.....	1-7
1.6.1 SWMU 47.....	1-7
1.6.2 SWMU 53.....	1-7
1.6.3 SWMU 55.....	1-8
2.0 PHYSICAL CHARACTERISTICS	2-1
2.1 SITE GEOLOGY.....	2-1
2.2 SITE HYDROGEOLOGY.....	2-2
2.2.1 Tidal Influence.....	2-2
2.2.2 Potentiometric Surface.....	2-3
2.2.3 Hydraulic Conductivity.....	2-3
2.2.4 Groundwater Flow Velocity.....	2-4
2.2.5 Groundwater Transmissivity.....	2-5
3.0 PREVIOUS INVESTIGATIONS	3-1
3.1 RCRA INVESTIGATIONS.....	3-1
3.1.1 Surface Water.....	3-1
3.1.2 Sediment.....	3-1
3.1.3 Subsurface Soil.....	3-1
3.1.4 Groundwater.....	3-2
3.2 PETROLEUM INVESTIGATIONS.....	3-3
3.2.1 Alpha-Delta Piers.....	3-3
3.2.2 Other Investigations.....	3-3
4.0 RFI INVESTIGATION	4-1
4.1 RFI FIELD ACTIVITIES.....	4-1
4.1.1 Subsurface Soil Sampling.....	4-1
4.1.2 Groundwater Screening.....	4-3
4.1.3 SWMU 55.....	4-4
4.2 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES.....	4-8
4.2.1 Investigation Derived Waste Management.....	4-8
4.2.2 National Geodetic Vertical Datum Survey Locations.....	4-9
5.0 NATURE AND EXTENT	5-1
5.1 SOURCES OF CONTAMINATION.....	5-1
5.1.1 SWMU 47 (Oily Waste Collection System).....	5-1
5.1.2 SWMU 53 (Sanitary Sewer System).....	5-2
5.1.3 SWMU 55 (Stormwater Sewer System).....	5-2
5.2 BACKGROUND SCREENING CONCENTRATIONS.....	5-2
5.3 CONTAMINATION ASSESSMENT.....	5-2
5.3.1 SWMUs 47 and 53.....	5-3
5.3.2 SMWU 55 (Stormwater Sewer System).....	5-71
6.0 HUMAN HEALTH RISK ASSESSMENT	6-1
6.1 DATA EVALUATION.....	6-1

6.2	SELECTION OF CHEMICALS OF POTENTIAL CONCERN FOR HHRA	6-2
6.2.1	COPCs for GROUP IV	6-4
6.3	EXPOSURE ASSESSMENT	6-8
6.3.1	Exposure Setting Characterization	6-8
6.3.2	Identification of Potential Receptors and Exposure Pathways	6-8
6.3.3	Exposure Point Concentration	6-13
6.3.4	Exposure Quantification	6-14
6.4	TOXICITY ASSESSMENT	6-18
6.4.1	Carcinogenic Effects	6-19
6.4.2	Noncarcinogenic Effects	6-21
6.5	RISK CHARACTERIZATION, UNCERTAINTY ANALYSIS, AND CONCLUSIONS	6-22
6.5.1	Risk Characterization for Group IV	6-22
7.0	ECOLOGICAL RISK ASSESSMENT	7-1
7.1	OVERVIEW OF SCREENING-LEVEL ERA METHODOLOGY	7-1
7.2	PRELIMINARY PROBLEM FORMULATION	7-2
7.2.1	Habitat Types and Ecological Receptors	7-2
7.2.2	Major Chemical Sources and Migration Pathways	7-3
7.2.3	Exposure Routes	7-4
7.2.4	Selection of Analytes to be Investigated	7-4
7.2.5	Assessment and Measurement Endpoints	7-5
7.2.6	Preliminary Conceptual Site Model	7-5
7.3	PRELIMINARY ECOLOGICAL EFFECTS EVALUATION	7-6
7.4	PRELIMINARY EXPOSURE ESTIMATE	7-6
7.5	PRELIMINARY RISK CALCULATION	7-8
7.5.1	Screening Results – Surface Water	7-9
7.5.2	Screening Results – Sediment	7-9
7.5.3	Screening Results – Surface Soil	7-9
7.6	STEP 3A: REFINEMENT OF CONTAMINANTS OF POTENTIAL CONCERN	7-9
7.6.1	Step 3A Methodology	7-9
7.6.2	Inorganics	7-14
7.6.3	Organics	7-18
7.7	SCREENING-LEVEL AND STEP 3A UNCERTAINTY ANALYSIS	7-20
7.7.1	Uncertainty in the Preliminary Problem Formulation	7-20
7.7.2	Uncertainty in the Ecological Effects Characterization	7-20
7.7.3	Uncertainty in the Exposure Assessment	7-20
7.7.4	Uncertainty in the Risk Calculation	7-21
7.8	STEP 3A SUMMARY AND CONCLUSIONS	7-21
8.0	CONCLUSIONS AND RECOMMENDATIONS	8-1
8.1	CONCLUSIONS	8-1
8.2	RECOMMENDATIONS	8-3
	REFERENCES	R-1

<u>APPENDICES</u>	<u>PAGE</u>	
A	USGS MODEL ESTIMATING GROUNDWATER FLOW AT NAVSTA MAYPORT.....	A-1
B	GROUP IV RFA/SV	B-1
C	GROUNDWATER MONITORING REPORT FOR OCTOBER 2000	C-1
D	MONITORING WELL AND SOIL BORING SURVEY DATA	D-1
E	VALIDATED LABORATORY DATA	E-1
F	HUMAN HEALTH RISK ASSESSMENT INFORMATION AND CALCULATIONS	F-1

TABLES

<u>NUMBERS</u>		<u>PAGE</u>
2-1	Site Hydrogeology.....	2-2
2-2	Groundwater Flow Velocity	2-4
2-3	Groundwater Transmissivity	2-5
5-1	Summary of Subsurface Soil Detections for VOCs	5-4
5-2	Summary of Subsurface Soil Detections for SVOCs.....	5-7
5-3	Summary of Subsurface Soil Detection for Metals	5-17
5-4	Groundwater Screening Analytical Results Summary for VOCs.....	5-28
5-5	Groundwater Screening Analytical Results Summary for SVOCs.....	5-39
5-6	Groundwater Screening Analytical Results Summary for Inorganics.....	5-48
5-7	Groundwater Analytical Results Summary for VOCs	5-59
5-8	Groundwater Analytical Results Summary for SVOCs.....	5-62
5-9	Groundwater Analytical Results Summary for Inorganics.....	5-66
5-10	Surface Soil Analytical Results Summary	5-73
5-11	Surface Water Analytical Results Summary.....	5-79
5-12	Sediment Analytical Results Summary	5-81
6-1	Summary of Chemicals of Potential Concern.....	6-5
6-2	Cancer Toxicity Data - Inhalation.....	6-10
6-3	Summary of Cancer Risks and Hazard Indices.....	6-32
7-1	Selection of Chemicals of Potential Concern, Surface Water	7-10
7-2	Selection of Chemicals of Potential Concern, Sediment.....	7-11
7-3	Selection of Chemicals of Potential Concern, Surface Soils.....	7-12

FIGURES

<u>NUMBER</u>		<u>PAGES</u>
1-1	Facility Location Map	1-2
1-2	Site Vicinity Map	1-5
4-1	Groundwater, Soil, Surface Water, and Sediment Sampling Locations	4-2
4-2	Monitoring Well Locations	4-5
4-3	Typical Shallow Microwell Construction Diagram	4-6
4-4	Typical Intermediate and Deep Microwell Design	4-7
5-1	Subsurface Soil Analytical Results Exceeding Residential SCTLs	5-26
5-2	VOC and SVOC Concentrations Exceeding GCTLs in DPT Grab Samples.....	5-37
5-3	VOC and SVOC Concentrations Exceeding GCTLs in Permanent Monitoring Well Samples	5-61
5-4	Media Sample Locations within the Stormwater Collection Network.....	5-78
7-1	Ecological Conceptual Site Model	7-7

ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
AIMD	Aircraft Intermediate Maintenance Depot
AOCs	Areas of Concern
ARCS	Assessment and Remediation of Contaminated Sediments Program
ATSDR	Agency for Toxic Substances and Disease Registry
BERA	Baseline ERA
bls	Below Land Surface
BSC	Background Screening Concentration
CAMP	Corrective Action Management Plan
CLEAN	Comprehensive Long-term Environmental Action Navy
CMS	Corrective Measures Study
CompQAP	Comprehensive Quality Assurance Plan
COPCs	Chemicals of Potential Concern
cPAHs	Carcinogenic Polycyclic Aromatic Hydrocarbons
CSF	Cancer Slope Factor
CTO	Contract Task Order
DDE	Dichlorodipenyldichloroethylene
DON	Department of the Navy
DPT	Direct Push Technology
DQOs	Data Quality Objectives
EPC	Exposure Point Concentration
ERA	Ecological Risk Assessment
ER-Ms	Effect Range-Medians
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FFTC	Firefighter Training Center
ft	Feet or Foot
ft/day	Feet per Day
ft ² /day	Feet Squared per Day
GCTLs	Groundwater Cleanup Target Levels
GGCs	Groundwater Guidance Concentrations
GIR	General Information Report
HEAST	Health Effects Assessment Summary Tables
HHRA	Human Health Risk Assessment

ACRONYMS (CONTINUED)

HI	Hazard Index
HQ	Hazard Quotient
HSWA	Hazardous and Solid Waste Amendment
IDW	Investigation Derived Waste
ILCR	Incremental Lifetime Cancer Risk
IRIS	Integrated Risk Information System
kg	Kilograms
LNAPL	Light Non-Aqueous Phase Liquid
LOAEL	Lowest-Observed-Adverse-Effect Level
µg/day	Micrograms per Day
µg/kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
µg/m ³	Micrograms per Meters Cubed
µg/mg	Micrograms per Milligrams
m ³	Meters Cubed
m ³ /day	Meters Cubed per Day
MCLs	Maximum Contaminant Levels
mg/kg	Milligrams per Kilogram
mg/kg-day	Milligrams per Kilograms per day
mg/m ³	Milligrams per Meters Cubed
MOE	Ministry of the Environment
NADEP	Naval Aviation Depot
NAVFAC EFD SOUTH	Southern Division, Naval Facilities Engineering Command
NAVSTA	Naval Station
Navy	United States Navy
NOAA	National Oceanic and Atmospheric Administration
NOAEL	No-Observed-Adverse-Effect Level
NPDES	National Pollutant Discharge Elimination System
ORNL	Oak Ridge National Laboratory
OWCS	Oily Waste Collection System
OWTP	Oily Waste Treatment Plant
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PECs	Probably Effects Concentrations
PELs	Permissible Exposure Limits

ACRONYMS (CONTINUED)

PRGs	Preliminary Remediation Goals
PVC	Polyvinyl Chloride
QA	Quality Assurance
QC	Quality Control
RAIS	Risk Assessment Information System
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RfCs	Reference Concentrations
RfDs	Reference Doses
RFI	RCRA Facility Investigation
RME	Reasonable Maximum Exposure
SCTLs	Soil Cleanup Target Levels
SELs	Severe Effect Levels (Exposure Limits)
SIMA	Shore Intermediate Maintenance Activity
SMDPs	Scientific/Management Decision Points
SUPSHIP	Supervisor of Shipbuilding
SVs	Sampling Visits
SVOCs	Semivolatile Organic Compounds
SWCTLs	Surface Water Cleanup Target Levels
SWMUs	Solid Waste Management Units
TAL	Target Analyte List
TEF	Toxicity Equivalency Factor
TEFs	Threshold Effect Levels
TtNUS	Tetra Tech NUS, Inc.
UCL	Upper Confidence Limit
UCL-L	Log-normal Upper Confidence Limit
UCL-N	Normal Upper Confidence Limit
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VOCs	Volatile Organic Compounds
WWTF	Wastewater Treatment Facility

1.0 INTRODUCTION

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report documents the activities, findings, conclusions, and recommendations of the RFI conducted at Solid Waste Management Units (SWMUs) 47, 53, and 55 (Group IV) at Naval Station (NAVSTA) Mayport. NAVSTA Mayport is located in northeastern Duval County, Florida, at the confluence of the St. Johns River and the Atlantic Ocean, as shown on Figure 1-1.

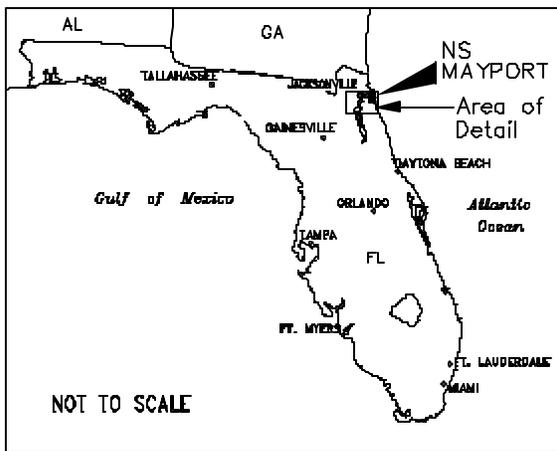
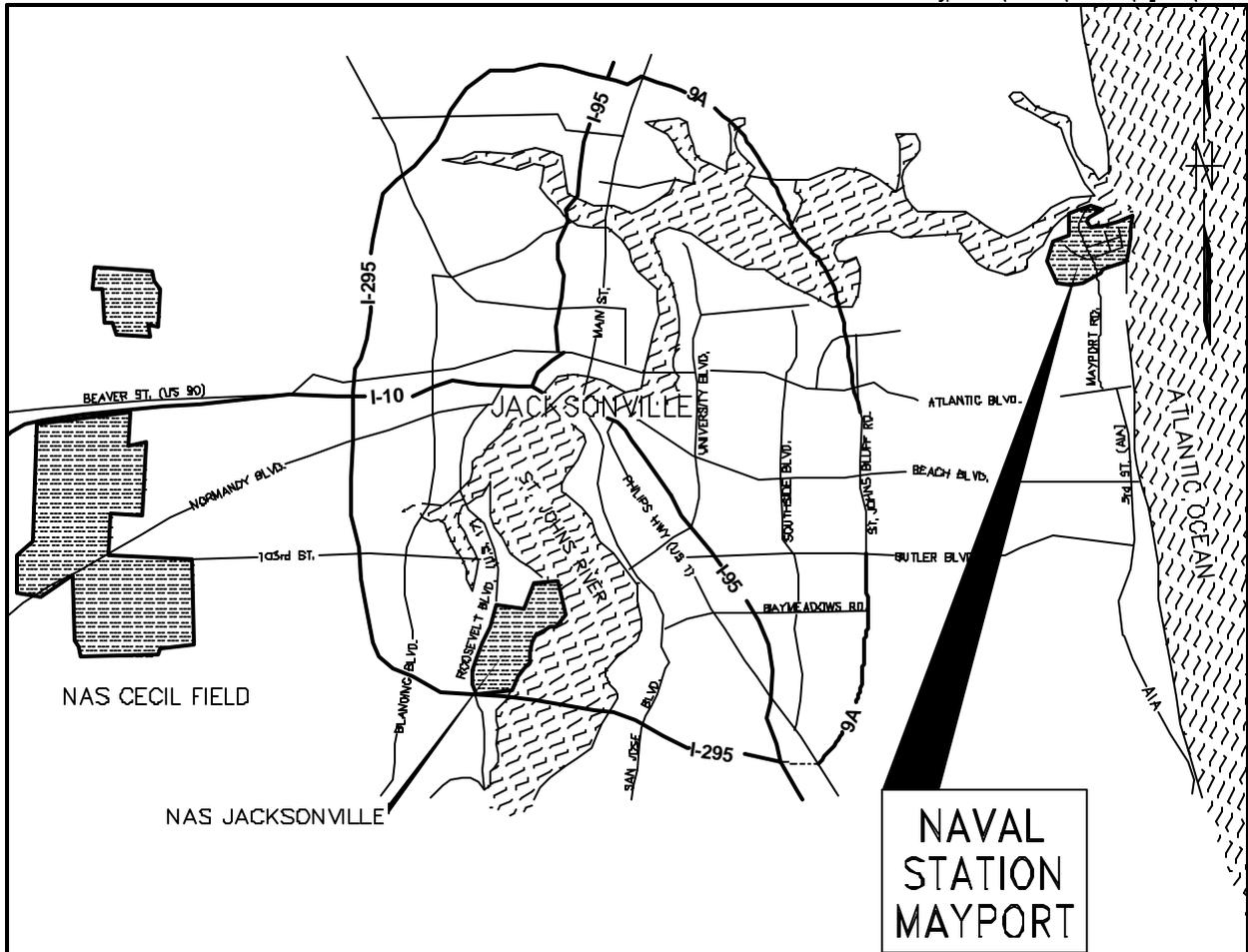
1.1 REGULATORY SETTING AND BACKGROUND

The United States Environmental Protection Agency (USEPA) issued RCRA Permit Number H016-118598 and Hazardous and Solid Waste Amendment (HSWA) Permit FL9 170 024 260 to NAVSTA Mayport on March 25, 1988. The HSWA permit was revised and reissued on June 15, 1993. The current HSWA permit is under review by the Florida Department of Environmental Protection (FDEP).

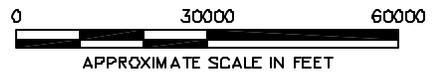
A. T. Kearney, Inc. conducted a RCRA facility assessment (RFA) visual site inspection for NAVSTA Mayport on behalf of the USEPA, Region 4. The RFA identified 56 SWMUs and 2 areas of concern (AOCs) at NAVSTA Mayport. Forty-one SWMUs warranted further investigation with 18 SWMUs designated for an RFI due to confirmed hazardous substance releases and 23 SWMUs designated for further investigation due to suspected hazardous substance releases. RFA sampling visits (SVs) were conducted at 7 of the 23 sites designated for further investigation. The remaining 15 SWMUs were determined not to require further action because no hazardous substance releases to the environment had occurred.

The USEPA recommended that a phased approach be used to implement RFA/SV, RFI, and other corrective action activities. This goal was to account for the number of SWMUs at NAVSTA Mayport, the diversity of their past and/or present operations, and the magnitude of permit requirements. A component of the RCRA program at NAVSTA Mayport is the Corrective Action Management Plan (CAMP), which is revisited every year to incorporate the latest descriptions of the phased approach, proposed schedule, and strategy to implement the RCRA Corrective Action Program at NAVSTA Mayport. The original CAMP is located in Appendix F of Volume I of the USEPA-approved RFI work plan [ABB Environmental Services, Inc. (ABB-ES), 1991]. The CAMP identifies the operational groups of SWMUs, ranks them by their perceived relative risks to human health and the environment, and contains the proposed schedule for the field investigations and report submittals.

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DRAWN BY LLK	DATE 12/09/03		FACILITY LOCATION MAP GROUP IV RCRA FACILITY INVESTIGATION NAVAL STATION MAYPORT MAYPORT, FLORIDA		CONTRACT NO. 5863	
CHECKED BY	DATE				APPROVED BY	DATE
COST/SCHED-AREA	SCALE AS NOTED				APPROVED BY	DATE
					DRAWING NO. FIGURE 1-1	REV. 0

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The Group IV SWMUs investigated for this RFI include the Oily Waste Collection System (OWCS) (SWMU 47), the Sanitary Sewer System (SWMU 53), and the Storm Sewer System (SWMU 55). Other Group IV SWMUs include the Oil/Water Separators (SWMU 54), Fuel Distribution System (AOC A), and Underground Product Storage Tanks (AOC B) and are part of the petroleum program at NAVSTA Mayport. In the context of this report, the Group IV SWMUs refer only to those investigated under the RCRA program, unless otherwise specified.

Much of the background information provided in this report originates from the RCRA Facility Investigation General Information Report (GIR) for NAVSTA Mayport (ABB-ES, 1995) provides information relevant to the Group IV SWMUs, including background sampling information and analytical methodology, risk assessment approach, and the ecological characterization of NAVSTA Mayport. The NAVSTA Mayport GIR includes a summary of published information including the following: geography, physiography, demographics, climate, regional geology, and hydrogeology; methods and procedures used to conduct the field activities; methodology used to validate analytical data and conduct risk assessments; and characterization of station-wide background conditions, including surface soil, subsurface soil, and groundwater. The information contained in the GIR (ABB-ES, 1995) is common to all of the NAVSTA Mayport SWMUs and AOCs and will not be repeated in this report.

1.2 PURPOSE

The purpose of the RFI activities at NAVSTA Mayport is to provide data that will be used to determine the following:

- Nature and extent of contaminant release from SWMUs 47, 53, and 55.
- Potential pathways and receptors of contaminant migration in the groundwater.
- Potential risks to human health and the environment.

1.3 SCOPE

Group IV field activities occurred in a series of field events from July 2000 through June 2001. The first phase of the field effort consisted of subsurface soil sampling and groundwater screening using direct push technology for SWMUs 47 and 53. The second phase consisted of surface soil, surface water, and sediment sampling for SWMU 55. The third phase consisted of monitoring well installation and sampling. The final phase, of the field activities, consisted of surveying all sampling and groundwater monitoring well locations.

1.4 RFI REPORT LAYOUT

The Group IV RFI report is divided into the following eight chapters.

- Chapter 1.0 provides an introduction to the investigation with basic background information about NAVSTA Mayport and the RFI process.
- Chapter 2.0 presents the physical features, including site geologic and hydrogeologic characteristics of the Group IV SWMUs.
- Chapter 3.0 provides a summary of previous investigations applicable to the Group IV SWMUs.
- Chapter 4.0 presents a summary of the RFI investigation and process methodologies.
- Chapter 5.0 presents the analytical results of environmental samples collected during the RFI.
- Chapter 6.0 provides the human health risk assessment.
- Chapter 7.0 provides the ecological risk assessment.
- Chapter 8.0 presents conclusions and recommendations based on the data interpretation and human health and ecological risk assessments. The need for a Corrective Measures Study (CMS) is determined based on these conclusions.

Except as noted in this report, field activities were conducted in accordance with the approved RFI Work Plan [Tetra Tech NUS, Inc. (TtNUS), 1999] and the TtNUS Comprehensive Quality Assurance Plan (CompQAP) Number 980038.

1.5 FACILITY DESCRIPTION AND BACKGROUND

NAVSTA Mayport is located within the corporate limits of the city of Jacksonville, Duval County, Florida, approximately 12 miles to the northeast of downtown Jacksonville and adjacent to the town of Mayport. The station complex is located on the northern end of a peninsula bound by the Atlantic Ocean to the east and the St. Johns River to the north and west as shown on Figure 1-2. NAVSTA Mayport occupies the

entire northern part of the peninsula except for the town of Mayport located to the west between the station and the St. Johns River.

NAVSTA Mayport was commissioned in 1942 on approximately 700 acres of land. The station initially consisted of a harbor and an airfield located near the mouth of the St. Johns River. The harbor and airfield were constructed from the dredging and filling of Ribault Bay. The harbor was initially dredged to a depth of 29 feet (ft) below mean sea level, and is referred to as the Mayport Turning Basin. The Mayport Turning Basin is surrounded by six ship piers (Alpha, Bravo, Charlie, Delta, Echo, and Foxtrot).

The original mission of the station included use by patrol craft, target boats, and rescue boats. The station was placed in caretaker status from 1946 to 1948. In 1948, the station was reopened, and in 1952, an aircraft carrier was assigned to the station. The turning basin was dredged to a depth of 40 ft to allow aircraft carriers and other large ships to berth at NAVSTA Mayport. Using dredge material to fill areas south of the turning basin increased the amount of uplands at NAVSTA Mayport.

NAVSTA Mayport provides all necessary support services for the surface fleet and aircraft stationed at or visiting Mayport. This support includes a division of the Public Works Center, which is headquartered at Naval Air Station Jacksonville, and provides infrastructure support. Other services include personnel support, facilities support, and ship and aircraft repair and maintenance.

Industrial operations conducted at NAVSTA Mayport involve intermediate level maintenance for both ships and aircraft, and vehicle maintenance and repair. Any maintenance activities that can be conducted without putting a ship into dry-dock are considered intermediate. Squadron personnel perform aircraft maintenance in the hangar buildings.

Maintenance and repair operations for ships are carried out by three organizations on the station: Shore Intermediate Maintenance Activity (SIMA), Supervisor of Shipbuilding (SUPSHIP), and Naval Aviation Depot (NADEP). SIMA conducts repair and maintenance operations onboard ships at the piers and in the SIMA operations building. SUPSHIP is a contracting organization that contracts out maintenance and repair work. NADEP conducts maintenance operations on aircraft launching and arresting systems in its own building on the station.

1.6 GROUP IV DESCRIPTION AND BACKGROUND

1.6.1 SWMU 47

SWMU 47, the OWCS, is a system of gravity pipelines, lift stations, and force mains that convey oily bilge water collected from ships at the piers to the oily waste treatment plant (OWTP). An oily-waste line from the Firefighter Training Center (FFTC) was formerly connected to the network; however, the line was disconnected when the stormwater retention pond was constructed at the FFTC. A majority of the system was constructed during 1978 to 1980 from ductile iron pipe that is not cathodically protected. Piping at Alpha Pier was replaced in 1991, and the Foxtrot Pier was constructed in 1994. The collection system can be broken down into two subsystems: the gravity feed system used to convey the oily wastewater from the oily waste risers at the piers to the lift stations, and the lift stations with force main pipelines that convey oily waste to the OWTP.

The OWCS consists of lines that run parallel to the piers along the Mayport Turning Basin. These lines are the gravity flow subsystem of the OWCS. The risers that feed the gravity subsystem are located approximately every 50 ft along the length of the entire pier system. The gravity subsystem feeds four lift stations, which pump the oily waste via force mains to the OWTP.

According to an evaluation of the OWCS, there are approximately 47 risers around the Mayport Turning Basin that feed approximately 13,702 linear ft of 6- to 8-inch diameter gravity pipeline. The gravity lines feed the lift stations, which pump the oily waste through approximately 9,960 linear ft of 6-, 8-, and 12-inch diameter force mains. These lines are believed to be approximately 6 ft below land surface (bls) (Hendon, 1992).

1.6.2 SWMU 53

The sewer pipeline system (SWMU 53) collects and transports sanitary and industrial wastewater from all areas of the NAVSTA Mayport to the Wastewater Treatment Facility (WWTF) (A. T. Kearny, 1989). The WWTF is a National Pollutant Discharge Elimination System (NPDES) permitted facility located to the south of the entrance to the Mayport Turning Basin. Like the OWCS, the sewer lines are composed of gravity feed pipelines, lift stations, and force main sewer lines.

The RFA states that the sewer pipeline transports industrial wastewater to the WWTF in addition to domestic sewage (A .T. Kearny, 1989). The industrial operations that contribute wastewater flow to the WWTF include SIMA, Aircraft Intermediate Maintenance Depot (AIMD), helicopter maintenance hangars, commercial shipyards, and the ships berthed in the Mayport Turning Basin. The RFA also states that

each part of the system was likely constructed when the associated buildings were constructed, beginning in 1942. Therefore, much of the system was probably constructed in the 1950s when the NAVSTA Mayport was expanded to accommodate more and larger vessels.

1.6.3 SWMU 55

The storm sewer system (SWMU 55) at NAVSTA Mayport consists of underground storm sewer pipes and unlined drainage ditches (A. T. Kearny, 1989). The storm sewer system conveys runoff to the St. Johns River, Sherman Creek, Lake Wonderwood, the Mayport Turning Basin, and the Atlantic Ocean. Many of the storm sewer pipes that discharge to the surrounding surface water are supplied by unlined drainage ditches found over the entire facility.

2.0 PHYSICAL CHARACTERISTICS

A detailed description of the physical characteristics of NAVSTA Mayport is provided in the NAVSTA Mayport GIR (ABB-ES, 1995). Information including topography, demography, climate, soil types, and regional geology and hydrogeology has been presented and will not be repeated in this report.

Site-specific geologic and hydrologic information was not collected during the Group IV RFI due to the expanse of the Group IV SWMUs. Instead, TtNUS relied on applicable information culled from the documentation of prior investigations when applicable to the Group IV SWMUs. A summary of the geologic and hydrologic data is discussed in the following sections.

2.1 SITE GEOLOGY

Geology from the Groups I, II, and III RFIs was compiled and documented in Section 3.1 of the Mayport GIR. The compiled data is summarized below.

A surficial deposit of dredge material from the Mayport Turning Basin and St. Johns River makes up the interior areas of NAVSTA Mayport covering former marshes and sand flats. Beach and riverbank sands predominate in areas along the Atlantic Ocean and St. Johns River. The dredge material typically consists of fine-grained, well sorted sands and/or marine shell fragments (ABB-ES, 1995). Field observations during the Group IV RFI are consistent with this description.

Undifferentiated post-Hawthorne deposits are typically encountered beneath the surficial dredge depositional material. This unit consists of fairly uniform, well-sorted, poorly graded, very fine-grained sand, which typically contains minor quantities of fines consisting of silt and clay. It also typically has numerous shell fragments and subrounded pea-size gravel. Color ranges from tan to light gray with color change typically gradational over several ft (ABB-ES, 1995). A subsurface characterization was not performed at this interval for the Group IV RFI.

The Upper Hawthorne Group is encountered beneath the undifferentiated post-Hawthorne deposits. This formation consists of fine- to medium-grained, tan to greenish-gray sand with black phosphatic nodules and/or lithic limestone fragments. Sandy clay, typically gray or olive green in color may be found within this zone. In addition, clay seams may be encountered varying in thickness from inches to several ft along the zone between the Upper Hawthorne Group and the overlying post-Hawthorne deposits (ABB-ES, 1995). A subsurface characterization was not performed at this interval for the Group IV RFI.

2.2 SITE HYDROGEOLOGY

Significant portions of the Group IV SWMUs are located within or in proximity to previously assessed SWMUs; therefore, aquifer test data from other investigations was used to estimate the hydraulic characteristics for the Group IV SWMUs. Much of the hydrogeologic information available for NAVSTA Mayport originates from the Group I, II, and III RFIs, and was compiled and documented in Section 3.2 of the Mayport GIR. In addition to the Group I, II, and III RFIs, information was obtained from various petroleum investigations. Summary of site hydrogeology characteristics is presented in Table 2-1.

Table 2-1 Site Hydrogeology Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida			
Site	Hydraulic Conductivity (ft/day)	Velocity (ft/day)	Transmissivity (ft ² /day)
Alpha and Delta Pier*	33.20/9.06	0.963/0.25	256.60/72.48
Bravo Pier	10.0	0.48	200.0
Site 1330	19.0	0.27	134.9
Building 1490	14.3	0.43	107.3
Notes: * = values are a range ft/day = feet (or foot) per day ft ² /day = feet squared per day			

2.2.1 Tidal Influence

Tidal influence surveys were performed for the Groups I, II, and III RFIs, as well as various petroleum sites. Although the surveys provide insight about the tidal influence along the St. Johns River, the extent may differ in areas surrounding the Mayport Turning Basin due to the presence of subsurface construction materials (i.e., sheet piling, concrete, etc.) to depths exceeding 40 ft bls. This seems to be substantiated by tidal influence studies performed at the Bravo and Echo Piers, which concluded that only minor tidal fluctuations are present in the pier areas. Many of the Group IV sampling points were placed along the piers. Charlie Pier may exhibit characteristics that differ from the other piers due to its geological feature as a narrow spit situated between the Mayport Turning Basin and the St. Johns River, although no tidal influence surveys have been performed to substantiate Charlie Piers hydrologic characteristics. In general, studies have concluded that tidal influence extends approximately 400 ft inland. However, this may be mitigated in the pier areas due to construction materials that potentially impede groundwater flow.

2.2.2 Potentiometric Surface

According to the GIR, groundwater flow in the surficial aquifer originates from four areas of groundwater mounding at NAVSTA Mayport. These areas include the two dredge spoil areas, an area located along the runway, and an area near the Aircraft Intermediate Maintenance Area. Another mound may exist near Massey Avenue and Bon Homme Richard Street; however, the extent of data for this area is limited. The following is a description of the potentiometric surface of each of three major areas of investigation: the piers, Moale Avenue, and AIMD.

According to Figure 3-19 of the GIR, groundwater at the Alpha, Bravo, Delta, Echo, and Foxtrot Piers flows toward the Mayport Turning Basin. Groundwater flow data for Charlie Pier is not available; however, it is plausible that groundwater at Charlie Pier may exhibit horizontal flow characteristics that differ from the other piers due to its location between the Mayport Turning Basin and the St. Johns River.

Groundwater at the AIMD appears to flow radially outward from a groundwater high on the northern side of Building 1552. Groundwater on the western half of the complex appears to be flowing west and southwest toward a tidally influenced ditch and estuarine marsh located opposite Patrol Road from the complex. Groundwater on the eastern half of the complex appears to be flowing east and southeast eventually flowing into the turning basin.

Limited groundwater data is available for the Moale Avenue corridor; however, it appears that groundwater flow is toward Lake Wonderwood or Sherman Creek basin.

A United States Geological Survey (USGS) Model (Halford, 2002) to estimate groundwater flow at NAVSTA Mayport is provided in Appendix A. The report includes simulated potentiometric surface maps for both the shallow (S) zone, the underlying intermediate (I) zone and the deep (D) zone of the surficial aquifer at Mayport. The USGS report also provided particle pathline (showing path of groundwater or contaminant particles transported by advective flow) maps for the surficial aquifer.

2.2.3 Hydraulic Conductivity

Hydraulic conductivity tests have been conducted for various sites at NAVSTA Mayport. The documentation has been reviewed and information applicable to the Group IV SWMUs is summarized below. No information was available for the area along Moale Avenue.

- Radial hydraulic conductivities ranged from 1.3 to 44.7 ft/day with an average of 23 ft/day for two monitoring wells and two piezometers at SWMU 13. No intermediate or deep surficial aquifer information is available for the AIMD. Based on published values from tests performed at other

Group I SWMUs, radial hydraulic conductivity is expected to decrease with depth due to the encountered lithological features (ABB-ES, 1996).

- An average horizontal hydraulic conductivity of 19.0 ft/day was calculated for the shallow zone of the surficial aquifer for two monitoring wells at Site 1330, north of Bravo Pier. Hydraulic Conductivity, Velocity, and Transmissivity values are provided on Table 2-1.
- An average horizontal hydraulic conductivity of 10 ft/day was calculated for the monitoring wells at Bravo Pier.
- A hydraulic conductivity ranging from 9.06 to 33.20 ft/day was obtained for the shallow zone of the surficial aquifer for four monitoring wells at the Alpha-Delta Pier.
- An average horizontal hydraulic conductivity of 14.3 ft/day was calculated for the two monitoring wells at Building 1490, also known as SIMA.

2.2.4 Groundwater Flow Velocity

Horizontal groundwater flow rates have been documented for prior investigations for the shallow surficial aquifer at NAVSTA Mayport. These rates are expressed as average linear groundwater velocities, calculated from a modified form of Darcy's equation (listed below), and represent the ratio of linear travel distance to travel time.

Darcy's equation: $Q = (K \cdot I) / n$

K = Hydrologic conductivity

I = Hydrologic gradient

n = estimated porosity

The horizontal flow rates are summarized in the following table.

Table 2-2 Groundwater Flow Velocity	
Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida	
Area	Flow Velocity (ft/day)
AIMD area	0.15 ft/day
Bravo Pier	0.27 ft/day
Alpha/Delta Pier*	0.963 / 0.25 ft/day
Building 1490	0.43 ft/day
Notes: * = values are a range	

Flow velocities ranged from 0.15ft/day to 0.963 ft/day with the highest value at Alpha pier and the lowest at the AIMD area.

2.2.5 Groundwater Transmissivity

Horizontal and vertical permeability have been previously calculated in the shallow surficial aquifer at NAVSTA Mayport. Transmissivity for various sites across Mayport was calculated using the equation listed below.

$$T = K \cdot b$$

T = transmissivity in ft²/day

K = Hydrologic conductivity

b = aquifer test interval (thickness)

The transmissivities are summarized in the table below.

Table 2-3 Groundwater Transmissivity	
Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida	
Area	Transmissivity ft ² /day
Site 1330	134.9 ft ² /day
Bravo Pier	200 ft ² /day
Alpha/Delta Pier*	256.60 / 72.48 ft ² /day
Building 1490	107.3 ft ² /day
Notes: * = values are a range	

Transmissivity values ranged from 107.3 ft²/day to 256.60 ft²/day with the highest value at Alpha pier and the lowest at Building 1490.

3.0 PREVIOUS INVESTIGATIONS

This chapter summarizes previous investigations applicable to the Group IV SWMUs at NAVSTA Mayport. Previous investigations include a RCRA groundwater assessment at Bravo Pier; various petroleum program investigations at the Alpha, Delta, and Echo Piers; and visual inspections of the OWCS and Sanitary Sewer System.

3.1 RCRA INVESTIGATIONS

The United States Navy (Navy) Comprehensive Long-term Environmental Action Navy (CLEAN) I contractor (Harding Lawson Associates) was contracted by the Navy Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH) in November 1997 to conduct a limited Group IV sampling event at NAVSTA Mayport. Results of the sampling event are provided in Appendix B. The focus of the assessment was Group IV sites located within the northern and west-central parts of NAVSTA Mayport. The sampling event consisted of collecting surface water, sediment, and subsurface soil samples; installing direct push technology (DPT) monitoring wells; and collecting groundwater samples. The findings are as follows:

3.1.1 Surface Water

Three surface water samples were collected in various areas of the stormwater sewer system. Butyl benzene and zinc exceeded their respective Florida Surface Water Quality Criteria for Class III freshwater, and lead exceeded the Class III marine criteria.

3.1.2 Sediment

Five sediment samples exceeded their respective industrial FDEP soil cleanup target levels (SCTLs) for benzo(a)pyrene, chlordane, arsenic, barium, copper, lead, and vanadium. Antimony, cadmium, chromium, and lead exceeded FDEP SCTL leachability criteria.

3.1.3 Subsurface Soil

Subsurface soil and groundwater samples were collected to assess portions of the sanitary sewer system (SWMU 53) located in the vicinity of the Moale Avenue pump station and northeast of the Commander for Carrier Group Eight Headquarters. None of the subsurface soil samples exceeded the FDEP SCTL industrial criteria. Chromium exceeded its FDEP SCTL leachability criterion.

Seven subsurface soil samples were collected to assess the OWCS and/or sanitary sewer system at Bravo Pier. The subsurface soil analytical results indicated that benzo(a)pyrene exceeded its FDEP

SCTL industrial criterion, and methylene chloride, 2-methylnaphthalene, and benzo(a)pyrene exceeded their respective FDEP SCTL leachability criteria.

Three subsurface soil samples were collected at the Building 38 Public Works Shop. The subsurface soil analytical results indicated that arsenic exceeded its FDEP SCTL industrial criterion. Arsenic was not detected in an additional surface and subsurface soil sample subsequently collected at this location. Chromium exceeded its FDEP SCTL leachability criterion.

Two subsurface soil samples were collected at the Former SIMA (Buildings 37 and 46). There were no subsurface soil analytical results that exceeded FDEP criteria.

3.1.4 Groundwater

Groundwater samples were collected to assess portions of the sanitary sewer system (SWMU 53) located in the vicinity of the Moale Avenue pump station and northeast of the Commander for Carrier Group Eight Headquarters. One inorganic (nickel) was detected in the groundwater sample exceeding its FDEP Groundwater Guidance Concentration (GGC). Nickel was not detected in a subsequent sampling event.

Eleven groundwater samples were collected to assess the OWCS and/or sanitary sewer system at Bravo Pier. The groundwater samples were collected from newly installed monitoring wells (MPT-47-MW01S through MPT-47-MW11S), which used the Navy's Site Characterization Analysis and Penetrometer System technology. The groundwater analytical results indicated that acenaphthene and thallium exceeded their respective FDEP GGCs.

Three groundwater samples were collected at the Building 38 Public Works Shop. The groundwater samples were collected from newly installed monitoring wells (MPT-PW-MW01S through MPT-PW-MW03S). The groundwater analytical results indicated that bis(2-ethylhexyl)phthalate exceeded its FDEP GGC.

Three groundwater samples were collected at the Former SIMA (Buildings 37 and 46). There were no groundwater analytical results that exceeded FDEP criteria.

Analytical results of environmental samples were used to assess whether contaminants were present or potentially have been released from SWMUs 47, 53, and 55. The analytical data was also used to conduct a preliminary risk screening of SWMUs 47, 53, and 55. The preliminary risk screening included comparisons of the analytical data to relevant background samples and regulatory criteria. Based on the preliminary risk screening, recommendations were made for additional sampling to be conducted as part of a formal RFI process.

The Group IV RFA/SV is provided as Appendix B.

3.2 PETROLEUM INVESTIGATIONS

3.2.1 Alpha-Delta Piers

A Contamination Assessment Report was prepared by ABB-ES in November 1992 due to the release of more than 500 gallons of fuel from a diesel fuel marine pipeline failure. The pipeline defect, discovered in 1985, was repaired and the source of contamination abated. A Remedial Action Plan (RAP) was prepared and submitted in December 1993.

A groundwater monitoring program was conducted from June 1996 through October 1997 in accordance with the approved RAP. Two monitoring wells, MPT-1406-6 and MPT-1406-16, and two utility manholes were monitored for light non-aqueous phase liquid (LNAPL). In addition, two rounds of quarterly groundwater samples were collected in September and December 1996. A supplemental sampling of selected monitoring wells at the Alpha-Delta Piers was performed in October 2000 [United States Army Corps of Engineering (USACE), 2000].

LNAPL has been present in the utility manhole north of monitoring well MPT-1406-16 and in MPT-1406-16 since sampling activities began. The October 2000 sampling results indicated that acenaphthene, benzene, and naphthalene was present in monitoring well MPT-1406-4 above regulatory criteria. The Groundwater Monitoring Report for October 2000 is presented in Appendix C.

3.2.2 Other Investigations

In 1988, an evaluation using a remote video camera to view the sewer system was completed by Smith and Gillespie Engineers, and a large number of recommended repairs were identified. Many of the repairs recommended by the inspection were completed. This limited the area to be investigated to the sewers from helicopter maintenance, SIMA, and the sewers along Moale Avenue north of the golf course. The results of the inspection are documented in the ABB-ES RFA and are not included in this report. Based on these findings, the RFI sampling strategy was developed to screen areas identified as suspect locations.

4.0 RFI INVESTIGATION

The RFI investigation was conducted in three phases: soil and groundwater screening for the SWMUs 47 and 53, monitoring well installation and groundwater sampling for the SWMUs 47 and 53, and multimedia sampling for SWMU 55.

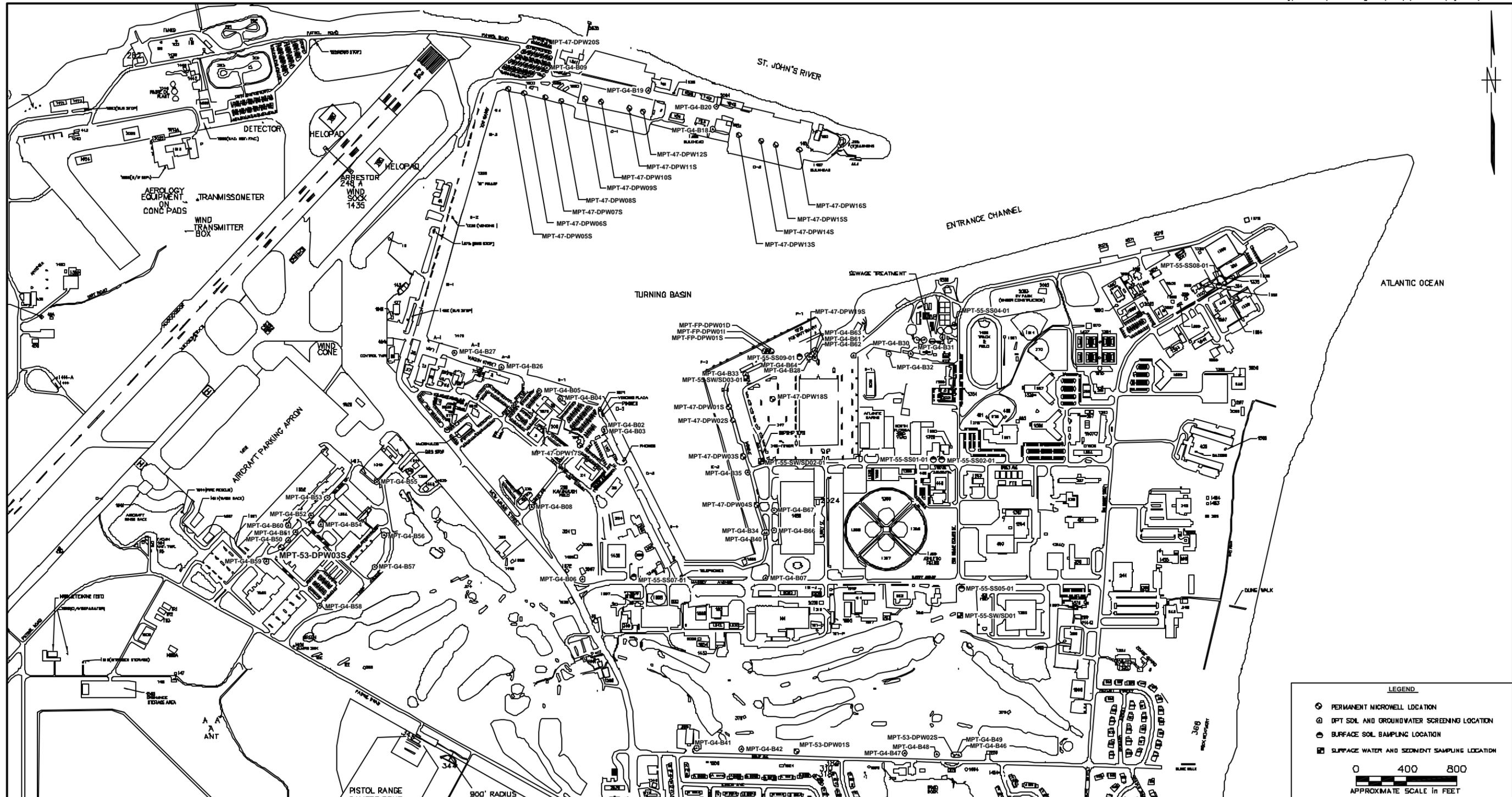
Environmental sample locations were chosen based on results of a 1997 ABB-ES sampling event (ABB-ES, 1999). The 1999 sampling event was conducted to address physical defects identified during pipeline video and visual inspections of the OWCS, storm sewer, and sanitary sewer systems at NAVSTA Mayport. Environmental soil and groundwater samples were collected by DPT to assess whether hazardous constituents were present in the surrounding soil and/or groundwater. The location of surface soil, surface water and sediment samples, collected during this RFI, are based on the sampling event conducted by ABB-ES. The monitoring well locations are based on data collected during this study and on historical data. Some locations at the OWCS (SWMU 47) and Sewer Pipeline System (SWMU 53) were sampled in conjunction with each other, as these two systems often coincide. Therefore, they will be discussed together in the following sections and throughout this report unless otherwise specified. The following sections describe the technical approach for each phase.

4.1 RFI FIELD ACTIVITIES

4.1.1 Subsurface Soil Sampling

Sixty-seven subsurface soil samples were collected at SWMUs 47 and 53 from July 2000 to March 2001. The sampling locations were based on results of the 1997 Group IV sampling event conducted by ABB-ES (ABB-ES, 1999). The samples were collected using DPT technology from varying depths based on expected depth of the utility pipelines and/or the depth to groundwater. The samples above 5 ft bls were collected using a decontaminated stainless steel hand auger. The subsurface soil sampling locations are shown in Figure 4-1.

The subsurface soil samples were analyzed for the following parameters: Appendix IX volatile organic compounds (VOCs) (USEPA Method 8260B), Appendix IX semi-volatile organic compounds (SVOCs) (USEPA Method 8270), target analyte list (TAL) metals (USEPA Method 6010B), and cyanide (USEPA Method 9010B).



LEGEND

- ⊙ PERMANENT MICROWELL LOCATION
- ⊕ DPT SOIL AND GROUNDWATER SCREENING LOCATION
- ⊙ SURFACE SOIL SAMPLING LOCATION
- ⊠ SURFACE WATER AND SEDIMENT SAMPLING LOCATION

0 400 800
APPROXIMATE SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPO	REFERENCES

DRAWN BY LLK	DATE 12/9/03		GROUNDWATER, SOIL, SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS GROUP IV RCRA FACILITY INVESTIGATION MAYPORT NAVAL STATION MAYPORT, FLORIDA
CHECKED BY	DATE		
COST/SCHED-AREA			
SCALE AS NOTED			

CONTRACT NO. 0123
APPROVED BY _____ DATE _____
APPROVED BY _____ DATE _____
DRAWING NO. FIGURE 4-1
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

4.1.2 Groundwater Screening

A total of 67 groundwater samples were collected at SWMUs 47 and 53 from July 2000 to March 2001. The samples were collected using DPT from varying depths intervals depending on depth to groundwater. A peristaltic pump was used to extract groundwater through a temporary well point utilizing a 4-ft stainless steel screen. The groundwater screening locations are shown in Figure 4-1.

Groundwater samples were collected using low-flow purge techniques and analyzed for the following parameters: Appendix IX VOCs (USEPA Method 8260B), Appendix IX SVOCs (USEPA Method 8270), TAL metals (USEPA Method 6010B), and cyanide (USEPA Method 9010B).

4.1.2.1 Monitoring Well Installation

Twenty-six new monitoring wells were installed for SWMUs 47 and 53 from December 12, 2000, through March 20, 2001. Twenty-three of the monitoring wells were installed to determine whether contamination exists due to potential pipeline defects or failures. Five of the wells were installed to delineate identified contamination at Charlie Pier. A three-well cluster was installed on Foxtrot Pier to serve as a point of compliance.

The monitoring wells were installed using direct push technology. The shallow wells were completed to depths of up to 15 ft bls, the intermediate wells were installed to approximately 35 ft bls and the deep wells were installed to approximately 50 ft bls. The depths of the shallow wells were determined by the anticipated depth of the pipeline or the depth to groundwater with the well screened placed such that they bracketed the water table. The shallow wells were constructed using 1-inch inner diameter, Schedule 40 polyvinyl chloride (PVC), flush-threaded casing with 10 ft of 0.01-inch, factory-slotted, pre-packed, PVC screen. Once the well was in place, the annulus of the boring was backfilled with 20/30, silica sand from the bottom of the borehole to 2 ft above the top of the screen. A 2-ft seal of fine sand (30/65) was then installed on top of the filter pack. The remainder of the annulus was backfilled with cement/bentonite grout.

Each monitoring well surface completion was flush mount. The riser pipe was cut to approximately 3 inches bls using an inside pipe cutter. An 8-inch diameter protective steel casing with sealing gasket was then flush-mount installed around each monitoring well. The flush mounted casings were completed 1-inch above existing grade and the apron tapered to be flush with existing grade at the edges such that water would run off of the apron. A 2-ft by 2-ft (saw-cut or saw-scored and jack hammered hole) by 6-inch thick concrete apron was constructed around each flush mount monitoring well.

The monitoring well locations are shown in Figure 4-2. Monitoring well construction diagrams are presented as Figure 4-3 for the shallow wells and Figure 4-4 for the intermediate and deep wells.

4.1.2.2 Monitoring Well Development

Monitoring wells were developed using peristaltic pumps no sooner than 24 hours after installation until the following criteria were achieved:

- Stabilization of temperature, pH, and electrical conductivity.
- Turbidity remained within a 10 Nephelometric turbidity unit range for two consecutive readings.
- A minimum of three well volumes was removed from the monitoring well.
- Accumulated sediment was removed from the well.

4.1.2.3 Groundwater Sampling

The second phase of groundwater sampling was conducted from December 6, 2000, through June 7, 2001. Groundwater samples were collected using low-flow purge techniques and analyzed for the following parameters: Appendix IX VOCs (USEPA Method 8260B), Appendix IX SVOCs (USEPA Method 8270), TAL metals (USEPA Method 6010B), and cyanide (USEPA Method 9010B).

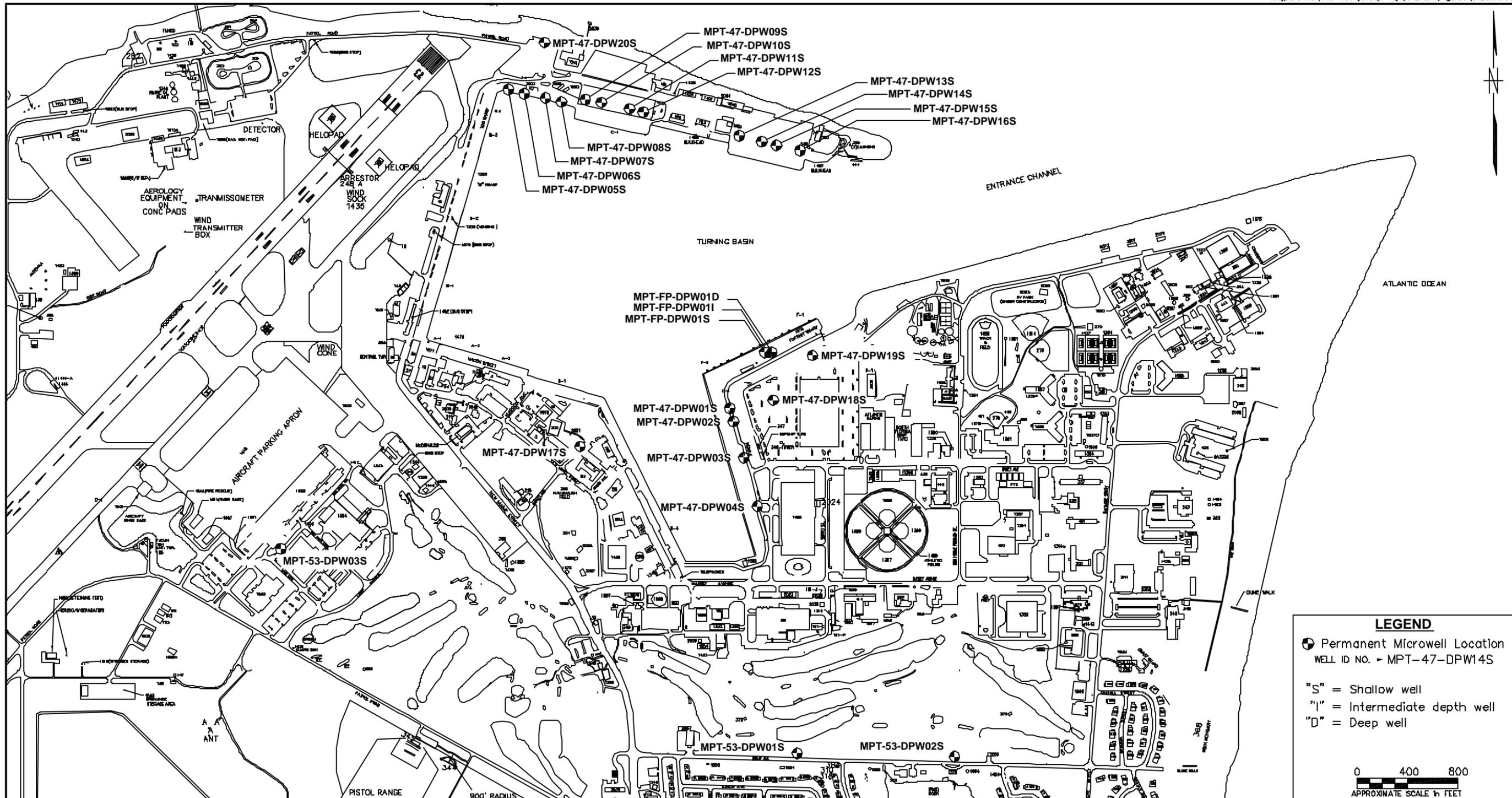
4.1.3 SWMU 55

SWMU 55, the storm sewer system, is a network of lined and unlined drainage ditches and retention areas located throughout NAVSTA Mayport. Sample locations for SWMU 55 are provided on Figure 4-1. The SWMU 55 field effort included surface soil, surface water, and sediment sampling at eleven locations throughout the industrialized areas of NAVSTA Mayport. A description of the SWMU 55 sampling activities is provided below.

4.1.3.1 Surface Soil Sampling

Nine surface soil samples were collected at SWMU 55 from July 31 to August 1, 2000. The samples were collected from 0 to 1 ft bls using disposable sampling equipment.

Surface soil samples were analyzed for the following parameters: Appendix IX VOCs (USEPA Method 8260B), Appendix IX SVOCs (USEPA Method 8270), organochlorine pesticides (USEPA Method 8081A), polychlorinated biphenyls (PCBs) (USEPA Method 8082), TAL metals (USEPA Method 6010B), and cyanide (USEPA Method 9010B).



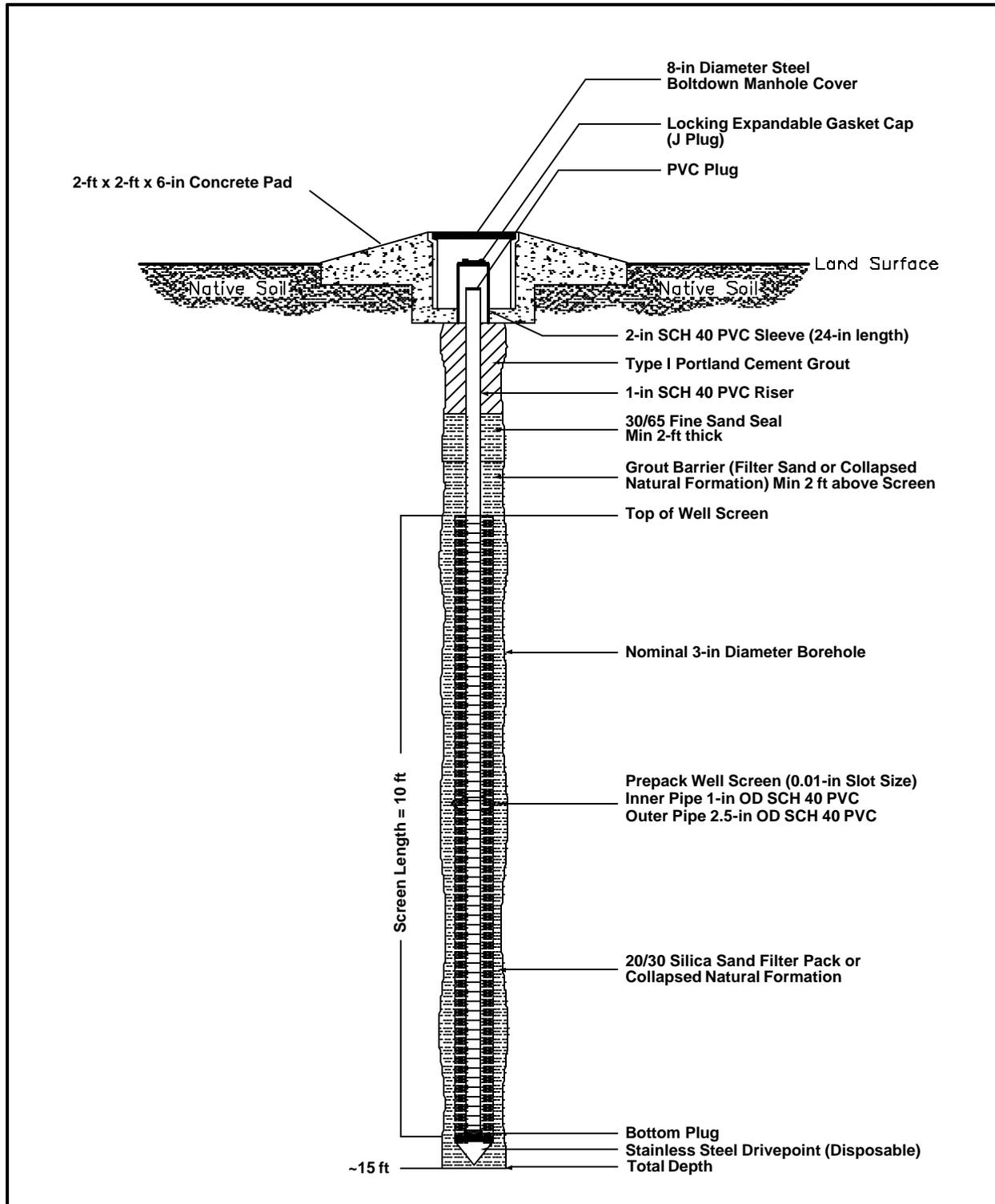
LEGEND

- Permanent Microwell Location
WELL ID No. = MPT-47-DPW14S
- "S" = Shallow well
- "I" = Intermediate depth well
- "D" = Deep well

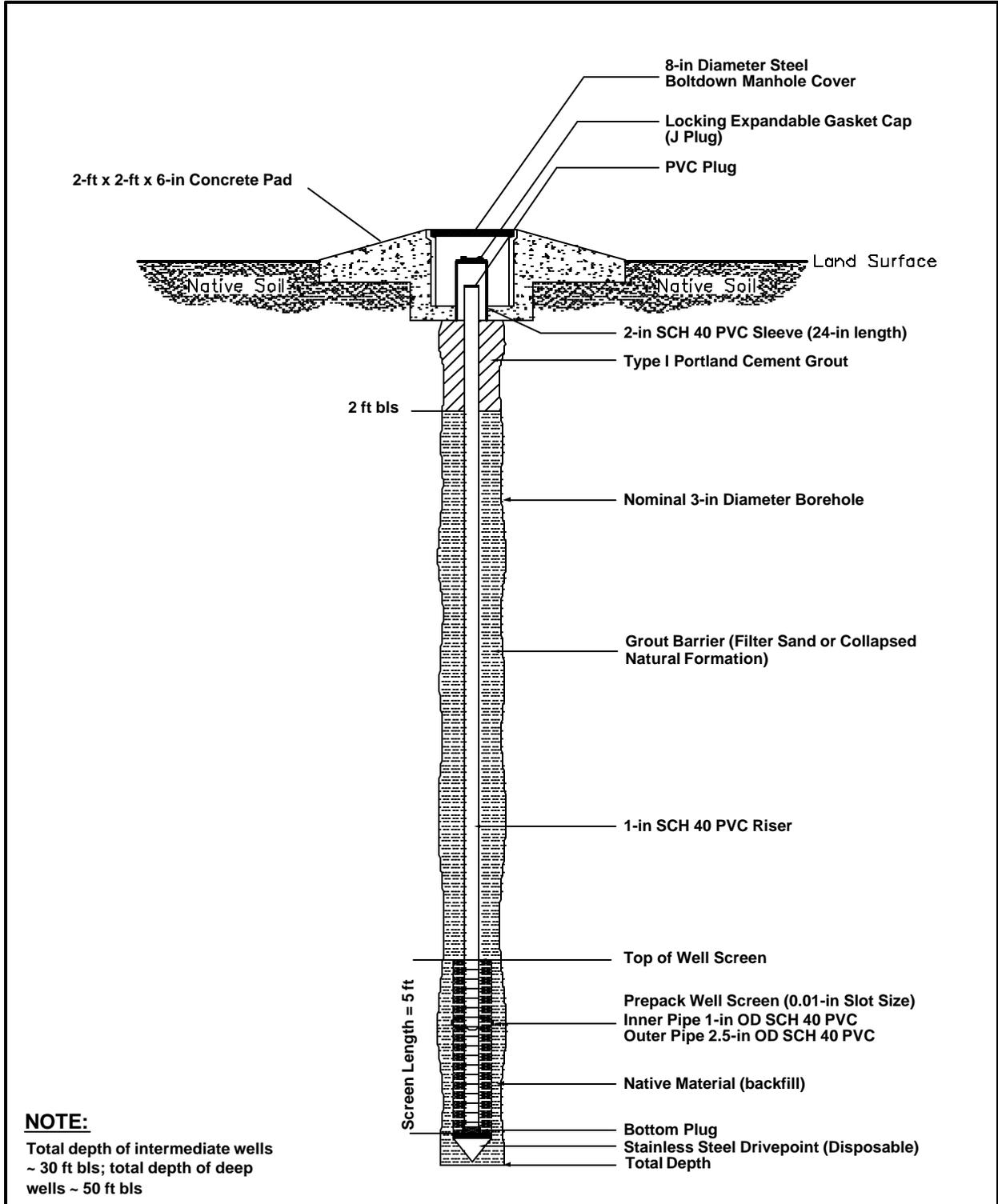
0 400 800
APPROXIMATE SCALE 1/4 INCH = 100 FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES	DRAWN BY	DATE	MONITORING WELL LOCATIONS GROUP IV RCRA FACILITY INVESTIGATION NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NO.	
							LLK	2/13/04		0123	
										APPROVED BY	DATE
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										DRAWING NO.	REV.
										FIGURE 4-2	0

Mayport\NS\CT0091\RFI Draft\Figures\0123\WCD1



DRAWN BY LLK	DATE 01/07/04	 <p>TYPICAL SHALLOW MICROWELL CONSTRUCTION DIAGRAM GROUP 1V RCRA FACILITY INVESTIGATION NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA</p>	CONTRACT NO. 0123	
CHECKED BY	DATE		APPROVED BY	DATE
COST/SCHEG-AREA			APPROVED BY	DATE
SCALE NOT TO SCALE			DRAWING NO. FIGURE 4-3	REV. 0



NOTE:

Total depth of intermediate wells ~ 30 ft bls; total depth of deep wells ~ 50 ft bls

DRAWN BY LLK	DATE 01/07/04		TYPICAL INTERMEDIATE AND DEEP MICROWELL DESIGN GROUP 1V RCRA FACILITY INVESTIGATION NAVAL STATION MAYPORT JACKSONVILLE, FLORIDA	CONTRACT NO. 0123	
CHECKED BY	DATE			APPROVED BY	DATE
COST/SCHED-AREA	DATE			APPROVED BY	DATE
SCALE NOT TO SCALE	DATE			DRAWING NO. FIGURE 4-4	REV. 0

4.1.3.2 Surface Water Sampling

Three surface water samples were collected at SWMU 55 (Figure 4-1) on August 1 and 3, 2000. The samples were collected just below the water's surface by submerging the sample container. For the pre-preserved sample containers, the samples were collected using an unpreserved glass container and transferring a sample aliquot from the unpreserved container into the pre-preserved container.

Surface water samples were analyzed for the following parameters: Appendix IX VOCs (USEPA Method 8260B), Appendix IX SVOCs (USEPA Method 8270), TAL metals (USEPA Method 6010B), and total cyanide (USEPA Method 9010B).

4.1.3.3 Sediment Sampling

Three sediment samples were collected at SWMU 55 on August 1 and 3, 2000. The samples were collected from the upper 1-ft of the sediment layer using a stainless steel hand auger. The hand auger was decontaminated in accordance with the TtNUS CompQAP prior to collecting each sample.

Sediment samples were analyzed for the following parameters: Appendix IX VOCs (USEPA Method 8260B), Appendix IX SVOCs (USEPA Method 8270), TAL metals (USEPA Method 6010B), and cyanide (USEPA Method 9010B).

4.2 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

All environmental sampling was performed in accordance with procedures outlined in the CompQAP and Quality Assurance Project Plan located in Appendix C of the Group IV Work Plan (TtNUS, 1999). Quality Assurance (QA)/Quality Control (QC) samples including equipment blanks, trip blanks, and field duplicates were collected.

4.2.1 Investigation Derived Waste Management

Investigation derived waste (IDW) generated during the corrective action and RFI field activities was managed in accordance with the practices and procedures previously taken by the CLEAN I contractor as described in the *Draft RFI Work Plan, Addendum 1, Investigation-Derived Waste Management Plan* (ABB-ES, 1992). All IDW generated during RFI field activities was stored on site until analysis of the media had been reviewed. The NAVSTA Mayport environmental coordinator then made an appropriate decision for disposal.

4.2.2 National Geodetic Vertical Datum Survey Locations

The locations of all newly installed monitoring wells and certain pre-existing monitoring wells were measured by a certified land surveyor. The elevations of all monitoring wells were surveyed at the water level measuring reference point on the top of the well casing and on the undisturbed ground surface adjacent to the well pad. Elevations and horizontal locations were recorded to the nearest hundredth of a foot. Each point was measured from a reference location tied to the Florida State Plane Coordinate System. An X-Y coordinate system was used to identify locations, with the X coordinate as the east-west axis and the Y coordinate as the north-south axis. Existing installation benchmarks and various newly installed control points served as the horizontal and vertical datum for the survey. A table providing monitoring well and soil boring survey data for the Group IV SWMUs and Foxtrot Pier is presented in Appendix D.

5.0 NATURE AND EXTENT

Results of the Group IV field sampling activities as described in Sections 3.0 and 4.0 are presented in this section. The nature and extent of the impact to surface and subsurface soil, groundwater, surface water, and sediment are also summarized and evaluated.

The quality of the chemical analytical data collected during the Group IV investigation has been documented. The analytical data validation process was completed for all laboratory data packages in accordance with the USEPA Functional Guidelines for Organic Data Validation (USEPA, 1994a), and the USEPA Functional Guidelines for Inorganic Data Validation (USEPA, 1994b). The data set compiled using these guidelines is considered acceptable for use in this RFI and to support a CMS. The validated laboratory data packages are presented in Appendix E.

Sources of contamination are discussed in Section 5.1. A summary of the background screening program for NAVSTA Mayport (ABB-ES, 1995) is presented in Section 5.2. In Section 5.3, the nature and distribution of contamination throughout Group IV are presented and evaluated against background screening values and appropriate regulatory benchmark values. Within the media discussion, analytical fractions are discussed in the following order: VOCs, SVOCs, inorganics, polychlorinated biphenyls (PCBs), pesticides, and herbicides. Following the evaluation of each analytical fraction for a particular medium, a summary of relevant results and findings is presented.

5.1 SOURCES OF CONTAMINATION

5.1.1 SWMU 47 (Oily Waste Collection System)

The OWCS is a network of pipelines which conveys bilge water from the ships berthed at NAVSTA Mayport to the OWTP (SWMU 8) via gravity lines and force mains. Potential sources of contamination to the areas around the pipelines include discharges from defects or failures in the product line.

Potential contaminants were identified in a 1987 study by the David W. Taylor Naval Ship Research Center. Testing was performed on the pre- and post-separated bilge water generated by Naval vessels at NAVSTA Mayport. Analytes detected in the separated bilge water included arsenic; cadmium; chromium; lead; 1,1-trichloroethane; tetrachloroethene; and toluene (A. T. Kearney, 1989).

5.1.2 SWMU 53 (Sanitary Sewer System)

The sanitary sewer system is a network of pipelines that spans NAVSTA Mayport. This network conveys domestic and industrial wastewater from buildings and ships located at NAVSTA Mayport to the WWTF (SWMU 25) via gravity lines and force mains. Potential sources of contamination to the areas around the pipelines may be a result of discharges due to defects or failures in the system.

Potential contaminants were identified in a 1987 USEPA study analyzing several of the influent wastewater streams that are discharged to the WWTF through the sewer pipelines. A number of hazardous constituents were detected in the waste stream including chromium; nickel; chloroform; toluene; naphthalene; methyl ethyl ketone; benzene; 1,4-dichlorobenzene; bromoform; and phenols (A. T. Kearney, 1989).

5.1.3 SWMU 55 (Stormwater Sewer System)

The storm sewer system at NAVSTA Mayport consists of underground pipes and unlined drainage ditches. The storm sewer system conveys runoff to the St. Johns River, Sherman Creek, Lake Wonderwood, the Mayport Turning Basin, and the Atlantic Ocean. Many of the storm sewer pipes that discharge to the surrounding surface water are supplied by unlined drainage ditches found over the entire facility. Potential sources of contamination to the storm sewers at NAVSTA Mayport include non-point sources such as run-off from nearby locations and migration of potential contaminants through the network from other areas.

5.2 BACKGROUND SCREENING CONCENTRATIONS

Analytes detected during this investigation were compared to background data obtained during previous background and site investigations. The background characterization consisted of surface and subsurface soil, surface water, sediment, and groundwater sampling from areas outside of SWMUs and industrialized areas within the NAVSTA Mayport boundary. The background data is presented in Section 2.0 of the NAVSTA Mayport GIR (ABB-ES, 1995).

5.3 CONTAMINATION ASSESSMENT

The Group IV field effort included surface and subsurface soil sampling, surface water and sediment sampling, groundwater screening, and monitoring well installation and sampling. The surface soil, surface water, and sediment samples were collected from the stormwater sewer system. The subsurface soil and groundwater screening samples were collected near the oily waste and sanitary sewer pipelines at depths corresponding to the anticipated pipeline depth. All of the monitoring wells were placed near the utility pipelines and were screened in the surficial aquifer.

5.3.1 SWMUs 47 and 53

Field activities for SWMUs 47 and 53 included collecting 67 subsurface soil, 67 groundwater screening samples, and 31 groundwater samples from newly installed monitoring wells. The sampling locations for SWMUs 47 and 53 are presented in Figure 4-1 and Figure 4-2.

5.3.1.1 Subsurface Soil Results

Target analytes detected in the subsurface soil samples consisted of VOCs, SVOCs, and inorganics. A discussion of each is presented below.

5.3.1.1.1 Volatile Organic Compounds

Four VOCs were detected in the subsurface samples collected from SWMUs 47 and 53. There were no detections exceeding comparison values. Table 5-1 presents a summary of VOCs detected in the subsurface soil samples collected at Group IV.

5.3.1.1.2 Semivolatile Organic Compounds

Eighteen SVOCs were detected in the subsurface soil samples collected from SWMUs 47 and 53. Two analytes (benzo(a)pyrene and hexachlorobenzene) were detected above comparison values. Table 5-2 presents a summary of SVOCs detected in the subsurface soil samples collected at Group IV. The analytical results are presented below.

Benzo(a)pyrene was detected in samples MPT-G4-SU-20-10 [790 micrograms per kilogram ($\mu\text{g}/\text{kg}$), 22-08 (130 $\mu\text{g}/\text{kg}$), 23-08 (170 $\mu\text{g}/\text{kg}$), and 27-07 (160 $\mu\text{g}/\text{kg}$), above the FDEP SCTL (100 $\mu\text{g}/\text{kg}$) and USEPA Region IX PRG (62 $\mu\text{g}/\text{kg}$) residential criteria. Benzo(a)pyrene was also detected in sample MPT-G4-SU-20-10 (790 $\mu\text{g}/\text{kg}$) above the FDEP SCTL (500 $\mu\text{g}/\text{kg}$) and USEPA Region IX PRG (290 $\mu\text{g}/\text{kg}$) industrial criteria. There were no detections above the FDEP SCTL leaching criterion (8,000 $\mu\text{g}/\text{kg}$).

Hexachlorobenzene was detected in sample MPT-G4-SU-06-07 (2,200 $\mu\text{g}/\text{kg}$) above the FDEP SCTL residential (500 $\mu\text{g}/\text{kg}$) and industrial (1,100 $\mu\text{g}/\text{kg}$) criteria. The result was equivalent to the FDEP SCTL leaching criterion.

<p align="center">Table 5-1 Summary of Subsurface Soil Detections for VOCs Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida</p>													
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						01-08	02-05	03-05	04-04	05-04	06-07	07-05	08-04
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 35	< 25	< 27	5.1 J	26	< 23	< 24	2.8 J
Carbon disulfied		200000	1,400,000			< 8.7	< 6.2	< 6.7	< 5.5	< 5.6	< 5.7	< 5.9	< 5.7
1,1-Dichloroethene		90	100			< 8.7	< 6.2	< 6.7	< 5.5	< 5.6	< 5.7	< 5.9	< 5.7
2-Butanone		3100000	21,000,000			< 35	< 25	< 27	< 22	5.7 J	< 23	<24	< 23
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						09-11	10-10	11-06	12-06	13-06	14-09	15-08	16-09
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 27	< 25	< 23	*	3.8 J	4.1 J	2.8 J	6.3 J
Carbon disulfied		200000	1,400,000			< 6.8	< 6.3	< 5.7	*	< 7	< 5.8	< 6	< 4.8
1,1-Dichloroethene		90	100			< 6.8	< 6.3	< 5.7	*	< 7	< 5.8	< 6	< 4.8
2-Butanone		3100000	21,000,000			< 27	< 25	< 23	*	< 28	< 23	< 24	< 19
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						17-08	18-08	19-10	20-10	21-07	22-08	23-08	24-08
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	7/5/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 22	< 25	< 24	< 23	< 24	< 24	< 23	< 25
Carbon disulfied		200000	1,400,000			< 5.4	< 6.2	< 6	< 5.7	< 5.9	< 5.9	< 5.8	< 6.4
1,1-Dichloroethene		90	100			< 5.4	< 6.2	< 6	< 5.7	< 5.9	< 5.9	< 5.8	< 6.4
2-Butanone		3100000	21,000,000			< 22	< 25	< 24	< 23	< 24	< 24	< 23	< 25
See notes at end of table.													

<p align="center">Table 5-1 (Continued) Summary of Subsurface Soil Detections for VOCs Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida</p>													
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						25-05	26-05	27-07	28-05	29-05	30-07	31-08	32-07
						7/5/00	7/5/00	7/5/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 20	< 1100	< 22	< 1100	< 23	< 24	< 1200	< 25
Carbon disulfidied		200000	1,400,000			< 4.9	< 290	< 5.5	< 270	< 5.8	< 5.9	< 310	< 6.3
1,1-Dichloroethene		90	100			< 4.9	< 290	< 5.5	< 270	< 5.8	< 5.9	< 310	< 6.3
2-Butanone		3100000	21,000,000			< 20	< 1100	< 22	< 1100	< 23	< 24	< 1200	< 25
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						33-05	34-05	35-05	36-05	37-05	38-05	39-05	40-05
						7/6/00	7/7/00	7/7/00	7/7/00	7/7/00	7/7/00	7/7/00	7/7/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 23	< 1100	< 22	< 23	< 24	< 24	< 26	< 23
Carbon disulfidied		200000	1,400,000			< 5.8	< 280	< 5.6	< 5.7	< 6.1	< 5.9	< 6.5	1.4 J
1,1-Dichloroethene		90	100			< 5.8	< 280	< 5.6	< 5.7	< 6.1	0.79 J	< 6.5	< 5.8
2-Butanone		3100000	21,000,000			< 23	< 1100	< 22	< 23	< 24	< 24	< 26	< 23
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						41-06	42-04	43-04	44-04	45-04	46-03	47-02	48-04
						7/10/00	7/10/00	7/10/00	7/10/00	7/11/00	7/11/00	7/11/00	7/11/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 27	< 24	< 23	< 25	< 22	< 30	< 25	< 23
Carbon disulfidied		200000	1,400,000			< 6.6	< 6.1	< 5.7	< 6.2	< 5.4	< 7.5	< 6.2	< 5.9
1,1-Dichloroethene		90	100			< 6.6	1.2 J	< 5.7	< 6.2	< 5.4	< 7.5	< 6.2	< 5.9
2-Butanone		3100000	21,000,000			< 27	< 24	< 23	< 25	< 22	< 30	< 25	< 23
See notes at end of table.													

Table 5-1 (Continued)													
Summary of Subsurface Soil Detections for VOCs													
Group IV RCRA Facility Investigation													
Naval Station Mayport													
Mayport, Florida													
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						49-03	50-05	51-05	52-05	53-05	54-05	55-05	56-05
						7/11/00	7/12/00	7/12/00	7/12/00	7/12/00	7/12/00	7/12/00	7/13/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 47	< 25	< 26	< 22	< 26	< 24	< 29	< 22
Carbon disulfide		200000	1,400,000			< 12	< 6.3	< 6.5	< 5.6	< 6.4	< 6.1	< 7.2	1.6 J
1,1-Dichloroethene		90	100			< 12	< 6.3	< 6.5	< 5.6	< 6.4	< 6.1	< 7.2	< 5.4
2-Butanone		3100000	21,000,000			< 47	< 25	< 26	< 22	< 26	< 24	< 29	< 22
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						57-03	58-05	59-05	60-05	61-05	62-05	63-05	64-05
						7/13/00	7/13/00	7/13/00	7/13/00	7/13/00	7/14/00	7/14/00	7/14/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 23	< 23	< 21	< 25	< 28	< 21	< 22	< 25
Carbon disulfide		200000	1,400,000			< 5.7	< 5.6	3.3 J	< 6.2	< 7.1	< 5.3	< 5.4	< 6.3
1,1-Dichloroethene		90	100			0.86 J	< 5.6	< 5.4	< 6.2	< 7.1	< 5.3	< 5.4	< 6.3
2-Butanone		3100000	21,000,000			< 23	< 23	< 21	< 25	< 28	< 21	< 22	< 25
Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						65-05	66-05	67-05	DU01	DU02	DU03	DU04	DU05
						7/14/00	3/5/01	3/5/01	6/29/00	7/6/00	7/13/00	7/14/00	7/14/00
VOCs (USEPA Method SW846 8260B) µg/kg													
Acetone		780000	5,500,000			< 27	< 5.7	< 24	< 23	< 1000	< 24	< 23	< 24
Carbon disulfide		200000	1,400,000			< 6.8	< 5.7	< 6.1	< 5.7	< 260	< 6.1	< 5.7	< 5.9
1,1-Dichloroethene		90	100			< 6.8	< 5.7	< 6.1	< 5.7	< 260	< 6.1	< 5.7	< 5.9
2-Butanone		3100000	21,000,000			< 27	< 23	< 24	< 23	< 1000	< 24	< 23	< 24
Notes:													
¹ Background screening concentration (BSC), Technical Memorandum, TtNUS, 2000						BOLD = Items exceed target levels.							
² FDEP SCTLs taken from Chapter 62-777, Florida Administrative Code (FAC).						µg/kg - micrograms per kilogram				Res - Residential			
³ USEPA Region IX Preliminary Remediation Goals (RPGs)						= Constituent concentration is less than the detection limit.							
J = Indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit.													

**Table 5-2
Summary of Subsurface Soil Detections for SVOCs**

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						01-08	02-05	03-05	04-04	05-04	06-07	07-05	08-04
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Benzo(a)pyrene	100	500	8,000	62	290	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Chrysene	140,000	450,000	77,000	62,000	290,000	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 470	< 410	< 430	330 J	< 400	< 400	< 420	< 370
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 470	< 410	< 430	< 420	< 400	2,200	< 420	< 370
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 470	< 410	< 430	220 J	< 400	< 400	< 420	< 370
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 470	< 410	< 430	< 420	< 400	< 400	< 420	< 370

See notes at end of table.

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						09-11	10-10	11-06	12-06	13-06	14-09	15-08	16-09
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 380	< 410	< 390	66 J	55 J	< 430	< 360	< 380
Benzo(a)pyrene	100	500	8,000	62	290	< 380	< 410	< 390	52 J	51 J	< 430	< 360	< 380
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 380	< 410	< 390	73 J	75 J	< 430	< 360	< 380
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Chrysene	140,000	450,000	77,000	62,000	290,000	< 380	< 410	< 390	75 J	67 J	< 430	< 360	< 380
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 380	< 410	< 390	110 J	76 J	< 430	< 360	< 380
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 380	< 410	< 390	69 J	< 400	< 430	< 360	< 380
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 380	< 410	< 390	110 J	92 J	< 430	< 360	< 380
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 380	< 410	< 390	< 390	< 400	< 430	< 360	< 380
See notes at end of table.													

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						17-08	18-08	19-10	20-10	21-07	22-08	23-08	24-08
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 360	< 420	< 380	970	< 400	170 J	220 J	< 400
Benzo(a)pyrene	100	500	8,000	62	290	< 360	< 420	< 380	790	< 400	130 J	170 J	< 400
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	49J	< 420	< 380	1200	< 400	210 J	270 J	< 400
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 360	< 420	< 380	270 J	< 400	57 J	68 J	< 400
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 360	< 420	< 380	450	< 400	72 J	92 J	< 400
Chrysene	140,000	450,000	77,000	62,000	290,000	< 360	< 420	< 380	1100	< 400	180 J	230 J	< 400
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 360	< 420	< 380	72 J	< 400	< 370	< 360	< 400
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 360	< 420	< 380	830	< 400	250 J	300 J	< 400
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 360	< 420	< 380	340 J	< 400	63 J	79 J	< 400
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 360	< 420	< 380	52 J	< 400	< 370	56 J	< 400
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 360	< 420	< 380	1,200	< 400	270 J	340 J	< 400
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 360	< 420	< 380	< 380	< 400	< 370	< 360	< 400

See notes at end of table.

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						25-05	26-05	27-07	28-05	29-05	30-07	31-08	32-07
						Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 360	< 3600	< 400	1900 J	< 390	< 410	< 950	< 390
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 360	< 3600	80 J	< 4000	< 390	< 410	< 950	< 390
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	57 J	< 3600	220 J	< 4000	< 390	< 410	< 950	< 390
Benzo(a)pyrene	100	500	8,000	62	290	68 J	< 3600	160 J	< 4000	< 390	< 410	< 950	< 390
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	110 J	< 3600	230 J	< 4000	< 390	< 410	< 950	< 390
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 360	< 3600	92 J	< 4000	100 J	< 410	< 950	< 390
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 360	< 3600	80 J	< 4000	< 390	< 410	< 950	< 390
Chrysene	140,000	450,000	77,000	62,000	290,000	61 J	< 3600	220 J	< 4000	< 390	< 410	< 950	< 390
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 360	< 3600	< 400	< 4000	< 390	< 410	< 950	< 390
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 360	< 3600	< 400	< 4000	< 390	< 410	< 950	< 390
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	60 J	< 3600	740	< 4000	< 390	< 410	< 950	< 390
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 360	< 3600	< 400	< 4000	< 390	< 410	< 950	< 390
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 360	< 3600	< 400	< 4000	< 390	< 410	< 950	< 390
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 360	< 3600	88 J	< 4000	64 J	< 410	< 950	< 390
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 360	< 3600	< 400	< 4000	< 390	< 410	< 950	< 390
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 360	< 3600	310 J	2200 J	< 390	< 410	< 950	< 390
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	68 J	< 3600	520	1900 J	< 390	< 410	< 950	< 390
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 360	630 J	< 400	< 4000	< 390	< 410	< 950	< 390

See notes at end of table.

Table 5-2 (Continued)													
Summary of Subsurface Soil Detections for SVOCs													
Group IV RCRA Facility Investigation													
Naval Station Mayport													
Mayport, Florida													
Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						33-05	34-05	35-05	36-05	37-05	38-05	39-05	40-05
						Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Benzo(a)pyrene	100	500	8,000	62	290	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Chrysene	140,000	450,000	77,000	62,000	290,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 380	400 J	< 370	< 390	< 390	< 350	< 370	< 400
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 380	680 J	< 370	< 390	< 390	< 350	< 370	< 400
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 380	< 1900	< 370	< 390	< 390	< 350	< 370	< 400
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 380	500 J	< 370	< 390	< 390	< 350	< 370	< 400

See notes at end of table.

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						41-06	42-04	43-04	44-04	45-04	46-03	47-02	48-04
						Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Benzo(a)pyrene	100	500	8,000	62	290	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Chrysene	140,000	450,000	77,000	62,000	290,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	740	< 350	< 370	54 J	210 J	< 480	< 420	< 430
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 400	< 350	< 370	< 370	< 410	< 480	< 420	< 430
See notes at end of table.													

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						49-03	50-05	51-05	52-05	53-05	54-05	55-05	56-05
						Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Benzo(a)pyrene	100	500	8,000	62	290	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Chrysene	140,000	450,000	77,000	62,000	290,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 610	< 390	< 410	< 400	< 390	< 360	< 400	< 380
See notes at end of table.													

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						57-03	58-05	59-05	60-05	61-05	62-05	63-05	64-05
						Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Benzo(a)pyrene	100	500	8,000	62	290	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Chrysene	140,000	450,000	77,000	62,000	290,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 390	< 390	< 370	< 410	< 460	< 360	< 370	< 400

See notes at end of table.

Table 5-2 (Continued)
Summary of Subsurface Soil Detections for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	FDEP SCTL Res. ¹	FDEP SCTL Ind. ¹	FDEP SCTL Leaching ¹	USEPA Region IX PRG Res. ²	USEPA Region IX PRG Ind. ²	MPT-G4-SU							
						65-05	66-05	67-05	DU01	DU02	DU03	DU04	DU05
						Jul-00	Mar-01	Mar-01	Jun-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA Method SW846 8270C) µg/kg													
Bis(2-ethylhexyl)phthalate	76,000	280,000	3,600,000	35,000	180,000	< 410	<380	<440	< 370	2400 J	< 370	< 360	< 410
Anthracene	18,000,000	260,000,000	2,500,000	22,000,000	100,000,000	< 410	<380	<440	< 370	1100 J	< 370	< 360	< 410
Benzo(a)anthracene	1,400	5,000	3,200	620	2,900	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Benzo(a)pyrene	100	500	8,000	62	290	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Benzo(b)fluoranthene	1,400	4,800	25,000	620	2,300	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Benzo(g,h,i)perylene	2,300,000	41,000,000	32,000,000	--	--	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Benzo(k)fluoranthene	15,000	52,000	25,000	6,200	290,000	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Chrysene	140,000	450,000	77,000	62,000	290,000	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Dibenz(a,h)anthracene	100	500	30,000	62	290	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Diethyl phthalate	54,000,000	920,000,000	86,000	--	--	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Fluoranthene	2,900,000	48,000,000	1,200,000	2,300,000	30,000,000	< 410	<380	<440	< 370	900 J	< 370	< 360	< 410
Fluorene	2,200,000	28,000,000	160,000	2,300,000	33,000,000	< 410	<380	<440	< 370	3700 J	< 370	< 360	< 410
Hexachlorobenzene	500	1,100	2,200	300	1,500	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Indeno(1,2,3-cd)pyrene	1,500	5,300	28,000	620	2,900	< 410	<380	<440	< 370	< 4000	< 370	< 360	< 410
Naphthalene	40,000	270,000	1,700	56,000	190,000	< 410	<380	<440	< 370	1700 J	< 370	< 360	< 410
Phenanthrene	2,000,000	30,000,000	250,000	--	--	< 410	<380	<440	< 370	4100	< 370	< 360	< 410
Pyrene	2,200,000	37,000,000	880,000	2,300,000	54,000,000	< 410	<380	<440	< 370	3000 J	< 370	< 360	< 410
2-Methylnaphthalene	80,000	560,000	6,100	--	--	< 410	<380	<440	< 370	440 J	< 370	< 360	< 410
Notes:													
¹ FDEP SCTLs, Chapter 62-777, FAC													
² USEPA Region IX PRGs													
Bold values are above FDEP SCTL for a residential exposure scenario													
Res - Residential													
Ind - Industrial													
J - estimated value													

5.3.1.1.3 Inorganics

Twenty-two inorganics were detected in the subsurface soil samples with seven above background screening values, three above FDEP SCTL residential criteria, one above the FDEP SCTL industrial criteria, and one above both the USEPA Region IX PRG residential and industrial criteria. Fourteen of the detected inorganic analytes did not have background screening values. Table 5-3 presents a summary of inorganics detected in the subsurface soil samples collected at Group IV. The analytical results are discussed below.

Arsenic was reported at concentrations equal to or exceeding the FDEP SCTL residential criterion in 35 samples, ranging from 0.8 milligrams per kilogram (mg/kg) to 6.9 mg/kg. Twenty-eight were detected above the background screening value (0.9 mg/kg) for arsenic, which also exceeds the FDEP SCTL residential criterion. Arsenic was also detected above the FDEP SCTL industrial criterion (3.7 mg/kg) in sample MPT-G4-SU-49-03 (6.3 mg/kg). There were no detections exceeding the FDEP SCTL leachability criterion (29 mg/kg).

Copper was detected in sample MPT-G4-SU-45-04 (203 mg/kg) above the FDEP SCTL residential criterion (100 mg/kg). There were no detections of copper above the FDEP industrial SCTL (76,000 mg/kg).

Vanadium was detected in sample MPT-G4-SU-49-03 (26.6 mg/kg) above the FDEP SCTL residential criterion (15 mg/kg). There were no detections of vanadium above the FDEP SCTL industrial criterion (7,600 mg/kg).

5.3.1.1.4 Interpretation of Subsurface Soil Data

Two SVOCs [benzo(a)pyrene and hexachlorobenzene] and three inorganics (arsenic, copper, and vanadium) were detected in the subsurface soil samples above FDEP SCTL residential criteria. Both SVOCs and one inorganic (arsenic) also exceeded the FDEP SCTL industrial criteria. A discussion of each is provided below. Subsurface soil analytical results exceeding residential SCTL values are provided on Figure 5-1.

Semivolatiles

Benzo(a)pyrene and hexachlorobenzene were the only two SVOCs detected in the subsurface soil samples at concentrations that exceed FDEP SCTLs. Benzo(a)pyrene was detected above the FDEP SCTL residential criterion in four samples and above the FDEP SCTL industrial criterion in one sample.

**Table 5-3
Summary of Subsurface Soil Detections for Metals**

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						01-08	02-05	03-05	04-04	05-04	06-07	07-05	08-04
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	1030 J	649 J	259 J	307 J	1730 J	148 J	51.3 J	254 J
Antimony	--	26	240	31	820	< 0.44	< 0.39	< 0.40	< 0.39	< 0.38	< 0.37	< 0.39	< 0.35
Arsenic	0.70	0.8	3.7	0.39	2.7	1.2	0.7	0.68	1.2	1.5	0.38	< 0.37	0.86
Barium	7.2	110	87,000	5,400	100,000	3.0	6.7	2.8	4.3	6.8	6.7	1.7	7.9
Cadmium	--	75	1,300	37	810	< 0.05	< 0.11	< 0.04	< 0.04	< 0.06	< 0.04	< 0.04	< 0.05
Calcium	--	--	--	--	--	13,200	83,700	5,850	4,520	53,700	264,000	< 159	88,800
Chromium	2.7	210	420	30	64	3.1	5.1 J	2.9	5.0	5.9	1.1 J	0.7	1.8 J
Cobalt	0.8	4,700	110,000	4,700	100,000	0.43	0.30 J	0.27	0.49	0.72 J	< 0.09	< 0.09	0.10 J
Copper	2.1	110	76,000	2,900	76,000	0.94	0.89 J	1.0	0.42	1.5 J	1.5 J	0.32	1.7 J
Iron	--	23,000	480,000	23,000	100,000	1,800 J	725 J	435 J	471 J	2,050 J	349 J	48.4 J	426 J
Lead	1.66	400	920	400	1,000	1.2	2.0	1.6	3.5	3.5	< 0.21	0.85	12.6
Magnesium	--	--	--	--	--	337	520	72.7	80.7	514	262	< 11.1	110
Manganese	--	1,600	22,000	1,800	26,000	14.7 J	11.2 J	7.6 J	10.7 J	26.3 J	15.5 J	1.4 J	9.1 J
Mercury	0.05	3.4	26	23	610	0.01	0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.02
Nickel	--	110	28,000	150	41,000	0.63	0.66 J	< 0.23	0.26	1.1 J	0.22 J	< 0.23	0.49 J
Potassium	--	--	--	--	--	112	43.1 J	25.7	33.8	153	33.5 J	< 8.1	25.5 J
Selenium	--	390	10,000	390	10,000	< 0.70	< 0.61	< 0.64	< 0.62	< 0.60	< 0.59	< 0.62	< 0.55
Silver	--	390	9,100	390	10,000	< 0.14	< 0.13	< 0.13	< 0.13	< 0.12	< 0.12	< 0.13	< 0.11
Sodium	--	--	--	--	--	< 677	< 34.2	< 35.5	< 34.4	< 521	3100 J	< 34.6	< 775
Tin	5.4	44,000	660,000	47,000	100,000	< 2.2	< 1.8	< 1.6	< 1.2	< 1.5	< 2.0	< 1.6	< 1.9
Vanadium	3.1	15	7,400	550	14,000	2.5	4.6	1.4	2.3	5.5	0.98 J	0.7	2.0 J
Zinc	4.9	23,000	560,000	23,000	100,000	< 5.0	7.2 J	< 2.6	< 4.7	9.8 J	< 3.0	< 2.0	9.8 J

See notes at end of table.

Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						09-11	10-10	11-06	12-06	13-06	14-09	15-08	16-09
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	215 J	402 J	785 J	1370 J	892 J	916 J	367 J	449 J
Antimony	--	26	240	31	820	< 0.36	< 0.38	< 0.37	< 0.36	< 0.38	< 0.40	< 0.38	< 0.36
Arsenic	0.70	0.8	3.7	0.39	2.7	0.72	0.57	1.0	2.5	0.79	1.2	0.61	0.77
Barium	7.2	110	87,000	5,400	100,000	3.3	2.7	5.1	4.5	4.8	5.0	2.4	5.3
Cadmium	--	75	1,300	37	810	< 0.04	< 0.04	< 0.07	< 0.05	< 0.06	< 0.09	< 0.03	< 0.04
Calcium	--	--	--	--	--	131,000	18000	72900	40200	68200	89900	38600	42300
Chromium	2.7	210	420	30	64	2.1 J	2.2	3.8 J	4.0	3.9 J	6.6	1.9 J	4.0
Cobalt	0.8	4,700	110,000	4,700	100,000	0.14 J	0.18	0.32 J	0.32 J	0.31 J	0.36 J	0.13 J	0.26 J
Copper	2.1	110	76,000	2,900	76,000	0.27 J	0.24	1.9 J	1.4 J	2.5 J	0.81 J	0.30 J	0.42 J
Iron	--	23,000	480,000	23,000	100,000	522 J	781 J	1340 J	1610 J	1170 J	1460 J	687 J	950 J
Lead	1.66	400	920	400	1,000	0.35	0.78	4.2	2.6	4.7	1.6	0.69	0.78
Magnesium	--	--	--	--	--	553	274	782	488	660	683	226	345
Manganese	--	1,600	22,000	1,800	26,000	20.9 J	10.9 J	31.7 J	19.3 J	24.3 J	35.2 J	12.4 J	19.3 J
Mercury	0.05	3.4	26	23	610	< 0.01	< 0.01	0.01	0.01	0.01	0.01	< 0.01	0.01
Nickel	--	110	28,000	150	41,000	0.68 J	0.28	0.95 J	1.1 J	1.1 J	0.87 J	0.36 J	0.54 J
Potassium	--	--	--	--	--	39.9 J	54.0	94.8	126	90.4	114	44.4	64.8
Selenium	--	390	10,000	390	10,000	< 0.56	< 0.61	< 0.58	< 0.57	< 0.60	< 0.63	< 0.53	< 0.57
Silver	--	390	9,100	390	10,000	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.13	< 0.11	< 0.12
Sodium	--	--	--	--	--	1250 J	< 358	< 425	< 384	< 698	< 765	< 109	1110 J
Tin	5.4	44,000	660,000	47,000	100,000	< 1.9	< 1.8	< 1.9	< 1.6	< 1.7	< 1.8	< 1.7	< 1.7
Vanadium	3.1	15	7,400	550	14,000	0.76 J	1.3	3.0 J	3.5	3.0	3.4 J	1.3 J	1.8 J
Zinc	4.9	23,000	560,000	23,000	100,000	< 2.8	< 3.2	10.9 J	8.0 J	13.6 J	< 5.4	< 2.6	< 3.3

See notes at end of table.

Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						17-08	18-08	19-10	20-10	21-07	22-08	23-08	24-08
						Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	7/5/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	2680 J	1340 J	462 J	867 J	792 J	911 J	1760 J	837 J
Antimony	--	26	240	31	820	< 0.33	< 0.40	< 0.36	< 0.36	< 0.37	< 0.34	< 0.34	< 0.38
Arsenic	0.70	0.8	3.7	0.39	2.7	0.89	1.0	1.2	0.80	0.91	1.3	1.5	1.4
Barium	7.2	110	87,000	5,400	100,000	6.0	3.3	3.0	4.3	2.5	3.5	4.4	3.3
Cadmium	--	75	1,300	37	810	< 0.11	< 0.04	< 0.04	0.04 J	< 0.04	< 0.03	0.04 J	< 0.04
Calcium	--	--	--	--	--	49900	21200 J	57100 J	97800 J	27100 J	25200 J	47600 J	36900 J
Chromium	2.7	210	420	30	64	3.2 J	3.1	2.2 J	4.1 J	4.2	3.1	4.7	2.7
Cobalt	0.8	4,700	110,000	4,700	100,000	0.22 J	0.36	0.16 J	0.24 J	0.23	0.31	0.52 J	0.26 J
Copper	2.1	110	76,000	2,900	76,000	0.78 J	< 0.92	< 0.44	< 0.74	< 0.60	< 0.69	< 1.0	< 0.44
Iron	--	23,000	480,000	23,000	100,000	701 J	1750	669	1200	1060	1480	2120	1480
Lead	1.66	400	920	400	1,000	1.5	< 1.4	< 0.93	< 1.5	< 1.2	< 1.4	2.8 J	< 1.2
Magnesium	--	--	--	--	--	203	352	320	462	486	514	710	328
Manganese	--	1,600	22,000	1,800	26,000	11.2 J	20.2 J	16.5 J	20.3 J	18.7 J	22.7 J	33.0 J	39.9 J
Mercury	0.05	3.4	26	23	610	0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	--	110	28,000	150	41,000	0.57 J	0.88	0.39 J	0.58 J	0.57	0.57	1.0 J	0.48 J
Potassium	--	--	--	--	--	63.5	142	53.4	86.1	100	139	174	94.8
Selenium	--	390	10,000	390	10,000	0.76 J	< 0.63	< 0.57	< 0.57	< 0.59	< 0.55	< 0.53	< 0.60
Silver	--	390	9,100	390	10,000	< 0.11	< 0.13	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.12
Sodium	--	--	--	--	--	< 545	< 484	< 675	< 857	< 512	< 389	< 671	< 577
Tin	5.4	44,000	660,000	47,000	100,000	< 1.6	< 1.4	< 1.6	< 1.6	< 1.3	< 1.4	< 1.7	< 1.5
Vanadium	3.1	15	7,400	550	14,000	3.7	3.1	2.1 J	2.8 J	2.3	2.6	4.3	2.5
Zinc	4.9	23,000	560,000	23,000	100,000	< 3.3	< 4.0	< 2.3	< 4.0	< 4.3	7.9	< 3.7	14.0 J

See notes at end of table.

Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						25-05	26-05	27-07	28-05	29-05	30-07	31-08	32-07
						7/5/00	7/5/00	7/5/00	7/6/00	7/6/00	7/6/00	7/6/00	7/6/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	1470 J	234 J	6620 J	340 J	1080 J	368 J	317 J	2020 J
Antimony	--	26	240	31	820	< 0.34	< 0.34	< 0.38	< 0.38	< 0.37	< 0.39	< 0.36	< 0.36
Arsenic	0.70	0.8	3.7	0.39	2.7	1.5	0.51	0.81	0.53	0.79	0.53	0.44	1.1
Barium	7.2	110	87,000	5,400	100,000	6.0	2.6	5.6	5.0	7.9	1.9	1.8	4.9
Cadmium	--	75	1,300	37	810	0.08 J	< 0.03	< 0.04	< 0.04	0.14 J	0.04	0.04	0.08
Calcium	--	--	--	--	--	77,300 J	41,200 J	106,000 J	164,000 J	93,000 J	4,720 J	4,850 J	10,500 J
Chromium	2.7	210	420	30	64	5.1	3.7	10.7	1.8	5.4	2.4	2.4	5.2
Cobalt	0.8	4,700	110,000	4,700	100,000	0.42 J	0.11 J	2.4 J	0.10 J	0.36 J	0.18	0.16	0.61
Copper	2.1	110	76,000	2,900	76,000	4.2	< 0.61	57.6	< 0.83	< 2.0	< 0.51	< 0.82	< 1.1
Iron	--	23,000	480,000	23,000	100,000	1,890	509	5480	658	1200	641	536	2220
Lead	1.66	400	920	400	1,000	6.9 J	1.6 J	9.7 J	2.3 J	9.0 J	< 0.78	< 0.92	1.7
Magnesium	--	--	--	--	--	706	380	1250	1140	678	182	131	491
Manganese	--	1,600	22,000	1,800	26,000	29.5 J	8.5 J	58.5 J	33.2 J	28.1 J	8.7 J	4.7 J	22.1 J
Mercury	0.05	3.4	26	23	610	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	--	110	28,000	150	41,000	1.2 J	1.8	3.6 J	0.45 J	1.7 J	0.33	0.35	1.2
Potassium	--	--	--	--	--	160	31.2	< 12.1	60.9	122	42.6	39.0	170
Selenium	--	390	10,000	390	10,000	< 0.54	< 0.53	< 0.60	< 0.60	< 0.58	< 0.61	< 0.57	< 0.58
Silver	--	390	9,100	390	10,000	< 0.11	< 0.11	2.5	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Sodium	--	--	--	--	--	< 778	< 325	< 294	1710	< 492	< 288	< 256	< 252
Tin	5.4	44,000	660,000	47,000	100,000	< 1.3	< 1.2	< 1.5	< 1.5	< 1.8	< 1.9	< 1.6	< 2.1
Vanadium	3.1	15	7,400	550	14,000	4.6	2.0	14.2	1.6 J	6.5	1.3	2.4	4.9
Zinc	4.9	23,000	560,000	23,000	100,000	16.9 J	5.9 J	143	7.6 J	15.8 J	< 1.7	< 3.6	< 3.5

See notes at end of table.

**Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals**

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						33-05	34-05	35-05	36-05	37-05	38-05	39-05	40-05
						7/6/00	7/7/00	7/7/00	7/7/00	7/7/00	7/7/00	7/7/00	7/7/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	853 J	707 J	852 J	429	271 J	454	569	321
Antimony	--	26	240	31	820	< 0.36	< 0.36	< 0.35	< 0.50	< 0.36	< 0.46	< 0.49	< 0.53
Arsenic	0.70	0.8	3.7	0.39	2.7	0.95	0.89	0.63	0.68	0.80	0.70	0.56	< 0.44
Barium	7.2	110	87,000	5,400	100,000	2.4	6.1	3.3	3.5	3.6	2.4	3.1	2.3
Cadmium	--	75	1,300	37	810	0.06	0.27 J	0.05 J	< 0.05	0.04	0.05	< 0.05	< 0.05
Calcium	--	--	--	--	--	22600 J	103000 J	29200 J	27500	2810 J	10500	10700	499
Chromium	2.7	210	420	30	64	2.9	4.1 J	3.2	2.5	2.8	2.2	1.8	1.2
Cobalt	0.8	4,700	110,000	4,700	100,000	0.27	0.43 J	0.33 J	< 0.26	0.23	< 0.23	0.25	< 0.27
Copper	2.1	110	76,000	2,900	76,000	< 1.2	< 2.4	< 1.2	< 1.3	< 0.77	< 0.66	< 0.70	< 0.23
Iron	--	23,000	480,000	23,000	100,000	1270	855	1130	629	380	657	814	210
Lead	1.66	400	920	400	1,000	< 1.3	14.3	2.8 J	3.6	2.3	1.9	4.2	0.57
Magnesium	--	--	--	--	--	525	617	327	219	54.8	188	149	< 29.5
Manganese	--	1,600	22,000	1,800	26,000	13.9 J	19.4 J	13.1 J	7.5	6.9 J	7.6	13.1	1.6
Mercury	0.05	3.4	26	23	610	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	0.03	0.02
Nickel	--	110	28,000	150	41,000	0.54	2.2 J	0.70 J	0.59	0.30	0.50	0.56	< 0.23
Potassium	--	--	--	--	--	93.8	57.7	86.5	39.0	< 20.0	53.1	52.0	19.5
Selenium	--	390	10,000	390	10,000	< 0.57	< 0.56	< 0.55	< 0.50	< 0.57	< 0.46	0.58	< 0.53
Silver	--	390	9,100	390	10,000	< 0.12	< 0.12	< 0.11	< 0.36	< 0.12	< 0.33	< 0.35	< 0.38
Sodium	--	--	--	--	--	< 343	< 466	< 298	165	< 196	84.6	118	< 53.8
Tin	5.4	44,000	660,000	47,000	100,000	< 1.2	< 1.6	< 1.2	< 1.6	< 1.5	< 1.4	< 1.5	< 1.8
Vanadium	3.1	15	7,400	550	14,000	2.3	7.8	3.4	2.0	1.7	2.0	2.1	1.0
Zinc	4.9	23,000	560,000	23,000	100,000	< 4.0	23.5 J	5.9 J	7.6	< 3.6	4.9	5.9	< 1.9
See notes at end of table.													

Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						41-06	42-04	43-04	44-04	45-04	46-03	47-02	48-04
						7/10/00	7/10/00	7/10/00	7/10/00	7/11/00	7/11/00	7/11/00	7/11/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	1250	406	559	609	1000	860	973	3780
Antimony	--	26	240	31	820	< 0.52	< 0.46	< 0.49	< 0.48	< 0.54	< 0.63	< 0.55	< 0.57
Arsenic	0.70	0.8	3.7	0.39	2.7	< 0.44	0.60	0.57	1.5	3.1	1.4	1.5	3.2
Barium	7.2	110	87,000	5,400	100,000	6.8	3.8	3.2	3.8	4.9	3.4	3.4	7.0
Cadmium	--	75	1,300	37	810	< 0.05	< 0.04	< 0.05	0.06	0.12	< 0.06	< 0.05	0.17
Calcium	--	--	--	--	--	1120	766	1010	5970	35100	1460	8160	11100
Chromium	2.7	210	420	30	64	3.0	2.3	2.3	2.7	3.9	2.9	3.2	8.9
Cobalt	0.8	4,700	110,000	4,700	100,000	< 0.27	< 0.23	0.28	0.43	0.51 J	0.37	0.45	1.2
Copper	2.1	110	76,000	2,900	76,000	< 0.23	< 0.20	< 1.0	4.5	203	< 1.6	< 0.78	< 2.9
Iron	--	23,000	480,000	23,000	100,000	201	443	732	2640	2650	1060	1770	5390
Lead	1.66	400	920	400	1,000	1.5	1.9	3.1	48.9	11.1	4.8	4.3	8.7
Magnesium	--	--	--	--	--	64	70.4	109	204	428	255	312	1130
Manganese	--	1,600	22,000	1,800	26,000	2.2	13.4	10.3	18.3	17.9	15.8	16.8	78.1
Mercury	0.05	3.4	26	23	610	0.05	< 0.02	0.02	0.02	0.03	< 0.02	< 0.02	0.04
Nickel	--	110	28,000	150	41,000	< 0.23	< 0.20	0.48	0.98	7.8	0.89	0.78	2.6
Potassium	--	--	--	--	--	23.2	27.4	47.6	58.6	109	129	143	444
Selenium	--	390	10,000	390	10,000	< 0.52	< 0.46	< 0.49	< 0.48	< 0.54	< 0.63	< 0.55	0.64
Silver	--	390	9,100	390	10,000	< 0.37	< 0.33	< 0.35	< 0.35	< 0.39	< 0.45	< 0.40	< 0.41
Sodium	--	--	--	--	--	< 53.0	< 46.6	< 49.5	59.8	365	87.6	215	277
Tin	5.4	44,000	660,000	47,000	100,000	< 1.6	< 1.4	< 1.0	107	< 2.2	< 1.5	< 1.4	< 1.6
Vanadium	3.1	15	7,400	550	14,000	1.0	1.4	2.2	2.7	4.9	3.1	3.0	10.2
Zinc	4.9	23,000	560,000	23,000	100,000	< 2.8	< 2.9	4.5 J	9.9 J	59.3 J	20.5 J	8.9 J	15.8 J

See notes at end of table.

Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						49-03	50-05	51-05	52-05	53-05	54-05	55-05	56-05
						7/11/00	7/12/00	7/12/00	7/12/00	7/12/00	7/12/00	7/12/00	7/13/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	12000	301	444	565	432	572	1240	951
Antimony	--	26	240	31	820	< 0.79	< 0.51	< 0.54	< 0.52	< 0.51	< 0.47	< 0.52	< 0.23
Arsenic	0.70	0.8	3.7	0.39	2.7	6.9	0.59	0.82	1.6	0.74	0.79	1.1	0.90
Barium	7.2	110	87,000	5,400	100,000	16.9	2.5	3.3	6.9	3.6	6.0	7.3	5.1
Cadmium	--	75	1,300	37	810	0.27	< 0.05	< 0.05	< 0.05	< 0.05	0.07 J	0.05	< 0.02
Calcium	--	--	--	--	--	15100	28100	29500	84600	64500	100000	64300	48600
Chromium	2.7	210	420	30	64	25.5	1.8	2.2	2.8	2.7	2.2	3.4	3.2 J
Cobalt	0.8	4,700	110,000	4,700	100,000	3.6	< 0.26	0.37	< 0.26	0.33 J	< 0.24	0.39 J	0.24 J
Copper	2.1	110	76,000	2,900	76,000	5.1	< 0.28	< 0.57	< 0.28	< 0.23	< 0.21	< 1.1	1.3 J
Iron	--	23,000	480,000	23,000	100,000	16700	555	1060	1080	900	645	1680	1380
Lead	1.66	400	920	400	1,000	10.0	0.73	1.1	0.80 J	0.75	1.1 J	2.3 J	2.8 J
Magnesium	--	--	--	--	--	2470	144	284	405	446	293	429	374
Manganese	--	1,600	22,000	1,800	26,000	180	7.3	12.1	20.4	26.9	16.0 J	27.2	14.0
Mercury	0.05	3.4	26	23	610	0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	--	110	28,000	150	41,000	7.2	0.53	0.89	0.65 J	0.73 J	0.48 J	1.1 J	1.1 J
Potassium	--	--	--	--	--	1540	43.9	60.7	61.0	68.9	51.0	112	107 J
Selenium	--	390	10,000	390	10,000	0.82	< 0.51	< 0.54	< 0.52	< 0.51	< 0.47	< 0.52	< 0.29
Silver	--	390	9,100	390	10,000	< 0.57	< 0.37	< 0.39	< 0.37	< 0.37	< 0.34	< 0.38	< 0.05
Sodium	--	--	--	--	--	290	308	257	782	584	900	573	< 1170
Tin	5.4	44,000	660,000	47,000	100,000	< 2.7	< 1.8	< 1.6	< 1.8	< 1.4	< 1.2	< 1.6	< 1.3
Vanadium	3.1	15	7,400	550	14,000	26.6	2.8	2.0	2.2 J	1.8 J	2.4 J	3.6	3.1
Zinc	4.9	23,000	560,000	23,000	100,000	28.0 J	4.5 J	5.0 J	6.8 J	< 3.5	< 3.9	6.4 J	9.4 J

See notes at end of table.

Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						57-03	58-05	59-05	60-05	61-05	62-05	63-05	64-05
						7/13/00	7/13/00	7/13/00	7/13/00	7/13/00	7/14/00	7/14/00	7/14/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	655	913	1020	378	706	1290	912	391
Antimony	--	26	240	31	820	0.33 J	< 0.24	< 0.22	< 0.25	< 0.28	< 0.22	< 0.22	< 0.24
Arsenic	0.70	0.8	3.7	0.39	2.7	0.91	0.96	0.60	0.52	0.41	1.2	1.1	0.45
Barium	7.2	110	87,000	5,400	100,000	10.3	3.1	3.1	2.8	2.8	5.8	6.2	4.9 J
Cadmium	--	75	1,300	37	810	0.14 J	< 0.02	< 0.02	< 0.03	< 0.03	< 0.02	0.03 J	< 0.02
Calcium	--	--	--	--	--	69800 J	28900 J	15000 J	29800 J	36200 J	82800 J	78200 J	140000 J
Chromium	2.7	210	420	30	64	3.2 J	3.2	3.1	2.1	2.6 J	3.8 J	3.4 J	1.8 J
Cobalt	0.8	4,700	110,000	4,700	100,000	0.32 J	0.29	0.29	0.11	0.21 J	0.31 J	0.37 J	0.13 J
Copper	2.1	110	76,000	2,900	76,000	2.2 J	< 0.73	< 0.72	< 0.37	< 0.39	0.97 J	3.4	< 0.51
Iron	--	23,000	480,000	23,000	100,000	1610	1310	1270	621	656	2030	1160	668
Lead	1.66	400	920	400	1,000	57.9 J	1.2 J	1.3 J	0.79 J	0.56 J	2.0 J	2.4 J	0.24 J
Magnesium	--	--	--	--	--	308	1100	227	180	441	605	544	765
Manganese	--	1,600	22,000	1,800	26,000	23.9	25.1	14.4	7.9	11.0	25.1	28.9	30.5
Mercury	0.05	3.4	26	23	610	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05	< 0.02
Nickel	--	110	28,000	150	41,000	2.7 J	0.89	1.0	0.60	0.70 J	1.3 J	1.1 J	1.5 J
Potassium	--	--	--	--	--	109 J	114 J	116 J	< 65.7	96.9 J	126 J	95.8 J	< 73.8
Selenium	--	390	10,000	390	10,000	< 0.29	< 0.30	0.37	0.41	< 0.35	< 0.27	0.41 J	< 0.31
Silver	--	390	9,100	390	10,000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.06	< 0.04	< 0.05	< 0.05
Sodium	--	--	--	--	--	< 1350	< 608	< 599	< 574	< 814	< 1450	< 995	< 1470
Tin	5.4	44,000	660,000	47,000	100,000	< 1.6	< 1.3	< 1.2	< 1.3	< 1.8	< 1.2	< 1.4	< 1.1
Vanadium	3.1	15	7,400	550	14,000	7.1	2.8	2.8	1.5	1.9	5.6	3.6	1.7 J
Zinc	4.9	23,000	560,000	23,000	100,000	21.7 J	14.1 J	< 6.8	< 3.0	< 3.5	32.5 J	12.0 J	< 7.9

See notes at end of table.

**Table 5-3 (Continued)
Summary of Subsurface Soil Detections for Metals**

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	BSC ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	Region IX PRG Res. ³	Region IX PRG Ind. ³	MPT-G4-SU-							
						65-05	66-05	67-05	DU01	DU02	DU03	DU04	DU05
						7/14/00	3/5/01	3/5/01	6/29/00	7/6/00	7/13/00	7/14/00	7/14/00
Metals (USEPA Method SW846 6010B) mg/kg													
Aluminum	--	72,000	--	76,000	100,000	254	644J	2290J	907 J	671 J	744	692	233
Antimony	--	26	240	31	820	< 0.25	<0.58	<0.67	< 0.40	<0.37	< 0.23	< 0.22	< 0.25
Arsenic	0.70	0.8	3.7	0.39	2.7	< 0.26	0.58	1.6	1.4	0.54	0.58	0.68	0.28
Barium	7.2	110	87,000	5,400	100,000	3.2	4.8	5.5	6.1	6.8	2.8	3.8 J	2.8
Cadmium	--	75	1,300	37	810	< 0.03	<0.11	<0.069	< 0.07	0.06 J	< 0.02	0.04 J	< 0.03
Calcium	--	--	--	--	--	16,800 J	22,000J	31,000J	75,300	83,300 J	19,600 J	98,600 J	18,700 J
Chromium	2.7	210	420	30	64	1.8	2.8	5.0	3.5 J	2.6 J	2.5	2.4 J	1.4
Cobalt	0.8	4,700	110,000	4,700	100,000	< 0.06	0.32	0.63	0.57 J	0.17 J	0.20	0.20 J	< 0.06
Copper	2.1	110	76,000	2,900	76,000	< 0.57	6.6 J	1.2J	1.3 J	< 1.3	< 0.53	2.1 J	< 0.55
Iron	--	23,000	480,000	23,000	100,000	341	7.36	2,420	1,330 J	874	846	1,020	358
Lead	1.66	400	920	400	1,000	5.2 J	2.7	2.3	1.4	1.8 J	1.0 J	1.4 J	2.1 J
Magnesium	--	--	--	--	--	64.4	153	538	249	609	210	663	67.3
Manganese	--	1,600	22,000	1,800	26,000	3.8	8.4	27.5	20.4 J	28.7 J	12.3	19.3	3.2
Mercury	0.05	3.4	26	23	610	< 0.02	< 0.019	< 0.022	0.01	< 0.02	< 0.02	0.02	< 0.02
Nickel	--	110	28,000	150	41,000	0.35	0.79	1.5	1.0 J	0.63 J	1.3	1.3 J	0.36
Potassium	--	--	--	--	--	< 29.6	<46.5	184	74.8	67.8	81.3 J	82.2 J	< 31.2
Selenium	--	390	10,000	390	10,000	< 0.31	<0.49	<0.56	< 0.55	< 0.59	< 0.28	0.27	< 0.31
Silver	--	390	9,100	390	10,000	< 0.05	<0.18	<0.20	< 0.11	< 0.12	< 0.05	0.04	< 0.05
Sodium	--	--	--	--	--	< 494	126	253	< 771	< 881	< 793	1,550 J	< 609
Tin	5.4	44,000	660,000	47,000	100,000	< 1.7	< 1.3	<0.91	< 1.6	< 1.4	< 0.95	< 1.1	< 1.8
Vanadium	3.1	15	7,400	550	14,000	1.8	2.1	5.5	4.1	2.6 J	2.1	2.6 J	1.3
Zinc	4.9	23,000	560,000	23,000	100,000	< 5.2	< 6.4	< 7.4	< 3.8	8.3 J	17.6 J	9.1 J	< 3.2

Notes:

¹Background screening concentration (BSC), Technical Memorandum, TtNUS, 2000

²FDEP SCTLs taken from Chapter 62-777, FAC.

³USEPA Region IX RPGs

J = Indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit.

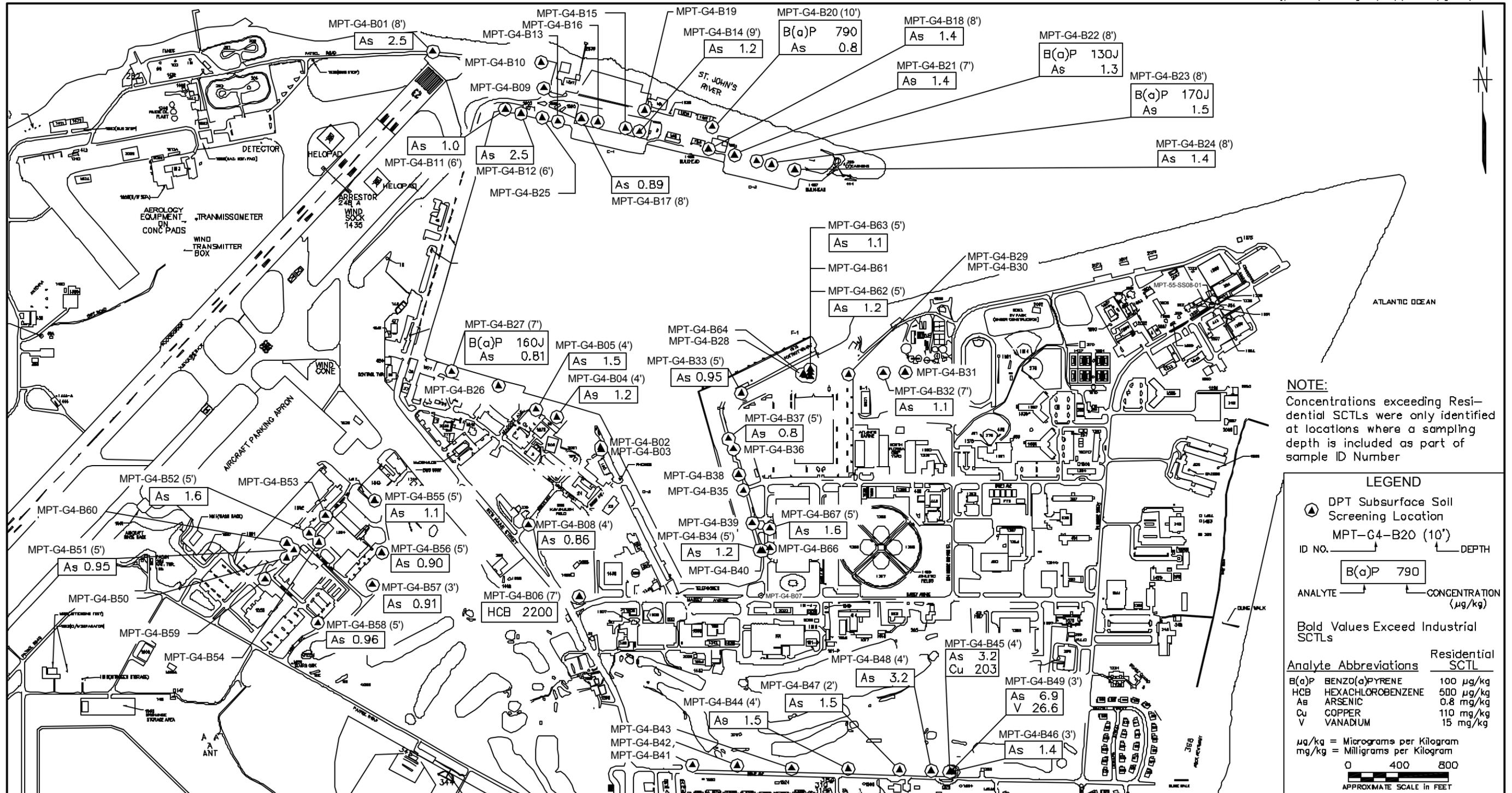
BOLD = Items exceed target levels.

-- = no defined target value

< = Constituent concentration is less than the detection limit.

Res - Residential

Ind. - Industrial



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES	DRAWN BY	DATE	 <p>SUBSURFACE SOIL ANALYTICAL RESULTS EXCEEDING RESIDENTIAL SCTLs GROUP IV RCRA FACILITY INVESTIGATION MAYPORT NAVAL STATION MAYPORT, FLORIDA</p>	CONTRACT NO.	
							LLK	2/10/04		0123	
										APPROVED BY	DATE
										APPROVED BY	DATE
										DRAWING NO.	REV.
									FIGURE 5-1	0	

Hexachlorobenzene was detected above the FDEP SCTL industrial criterion and at a concentration equivalent to its FDEP SCTL leaching criterion in one sample. Neither constituent was detected in the groundwater samples collected from the sample locations where the subsurface soil detections occurred.

Inorganics

Arsenic, copper, and vanadium were reported at values exceeding FDEP SCTL residential criteria. Copper and vanadium were singular occurrences; however, arsenic was prevalent with 35 detections above FDEP SCTL residential criteria and one detection above FDEP SCTL industrial criteria. There were no detections above the leachability SCTL. Groundwater screening results for these locations suggest that arsenic has not leached into the groundwater at levels exceeding the FDEP GCTL.

5.3.1.2 Groundwater Screening Results

Target analytes detected in the groundwater screening samples consisted of VOCs, SVOCs, and inorganics. A discussion of each is presented below.

5.3.1.2.1 Volatile Organic Compounds

Seventeen VOCs were detected in the groundwater screening samples with one VOC above FDEP groundwater cleanup target levels (GCTLs) and eight VOCs above USEPA Region IX PRGs. There were no detections above USEPA maximum contaminant levels (MCLs). A summary of VOC detections in the groundwater screening samples collected for Group IV is presented in Table 5-4. VOC and SVOC concentrations exceeding GCTLs in DPT groundwater grab samples are provided on Figure 5-2. The analytical results are discussed below.

Benzene was detected in sample MPT-G4-GW26-05 [1.2 micrograms per liter ($\mu\text{g/L}$)] above the GCTL (1 $\mu\text{g/L}$) and USEPA Region IX PRG (0.41 $\mu\text{g/L}$). The USEPA MCL for benzene is 5 $\mu\text{g/L}$.

Seven constituents exceeded only MCL values as follows: 1,1,2,2-tetrachloroethane; 1,1-dichloroethene; 1,2-dichloroethane; cis-1,2-dichloroethene; trans-1,2-dichloroethene; trichloroethene; and vinyl chloride were reported at values exceeding USEPA Region IX PRGs, but were below FDEP GCTLs.

TABLE 5-4											
Groundwater Screening Analytical Results Summary for VOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				01-11	02-05	03-05	04-04	05-04	06-07	07-05	08-05
				Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
VOCs (USEPA 8260B) µg/L											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	0.67J	<10	0.68J	<10	0.66J
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	0.43J	0.18J	0.23J	<1	0.29J	<1	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.28J	0.73J	0.32J	0.23J	0.36J	0.43J	0.48J	0.48J
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1
See notes at end of table.											

TABLE 5-4 (Continued)											
Groundwater Screening Analytical Results Summary for VOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				09-11	10-10	11-05	12-05	13-06	14-10	15-09	16-08
				Jun-00	Jun-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
<u>VOCs (USEPA 8260B) µg/L</u>											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	0.7J	<10	<1	0.67J	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	<1	0.11J	0.21J	<1	0.14J	0.24J	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.31J	<1	0.37J	0.33J	0.42J	0.17J	0.41J	<1
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1
See notes at end of table.											

TABLE 5-4 (Continued)
Groundwater Screening Analytical Results Summary for VOCs

Group IV RCRA Field Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-								
				17-09	17-09 DU	18-09	19-10	20-11	21-08	22-08	23-08	
				Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	
VOCs (USEPA 8260B) µg/L												
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	0.58	0.64	1.9	0.93	
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	1.9	0.93J	
2-Butanone	4,200	120	100	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	0.6J	<10	<10	<10	<10	<10	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	100	110	100	<1	<1	0.14J	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.22J	0.37J	0.37J	<1	0.17J	0.2J	0.2J	0.2J	0.24J
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	0.87J	0.36J	

See notes at end of table.

TABLE 5-4 (Continued)											
Groundwater Screening Analytical Results Summary for VOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				24-08	25-07	26-05	27-08	28-05	28-05 DU	29-05	30-07
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
VOCs (USEPA 8260B) µg/L											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	0.41	5	<1	<1	1.2	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	0.45J	0.21J	0.27J	0.29J	<1	<1	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.17J	<1	<1	<1	0.24J	0.2	<1	<1
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1
See notes at end of table.											

TABLE 5-4 (Continued)											
Groundwater Screening Analytical Results Summary for VOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				31-09	32-07	33-06	34-05	35-05	36-05	37-05	38-04
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
<u>VOCs (USEPA 8260B) µg/L</u>											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	14	<1	<1	0.63J	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	0.63J	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	0.11J	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	5.8	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	0.89	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	6.7	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.7J	<1	<1	<1	<1	<1	<1	<1
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	0.37J	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1

See notes at end of table.

TABLE 5-4 (Continued)
Groundwater Screening Analytical Results Summary for VOCs

Group IV RCRA Field Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				39-04	40-04	41-06	42-04	43-04	44-04	45-07	46-07
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
VOCs (USEPA 8260B) µg/L											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	0.17J	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<10	<10	1J	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	<1	0.11J	<1	<1	0.44J	0.34J	0.26J	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1

See notes at end of table.

TABLE 5-4 (Continued)
Groundwater Screening Analytical Results Summary for VOCs

Group IV RCRA Field Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				47-07	48-07	49-07	50-05	51-05	52-05	53-05	54-05
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
VOCs (USEPA 8260B) µg/L											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	1.2	0.46J	0.27J	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	<1	1.3	0.46J	0.17J	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	0.43J	<1	<1	<1	<1	0.15J	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	<1	<1	<1	0.3J	<1	0.36J	0.58J	0.38J
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	0.42J	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1
See notes at end of table.											

TABLE 5-4 (Continued)
Groundwater Screening Analytical Results Summary for VOCs

Group IV RCRA Field Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				55-05	56-05	57-05	58-05	59-05	59-05 DU	60-05	61-05
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
VOCs (USEPA 8260B) µg/L											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	0.093J	<1	<1	<1	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7	0.046	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	<10	<10	<10	<10	0.76J
2-Hexanone	280	--	--	<10	<10	<10	<10	<10	<10	1.5J	<10
4-Methyl-2-pentanone	560	160	--	<10	0.57J	<10	<10	<10	<10	0.68J	0.83J
Benzene	1	0.41	5	<5	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	700	160	--	<1	<1	<1	1.1	<1	<1	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.41J	0.37J	0.88J	<1	<1	<1	<1	0.35J
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<1	<1	<1	<1

See notes at end of table.

TABLE 5-4 (Continued)
Groundwater Screening Analytical Results Summary for VOCs

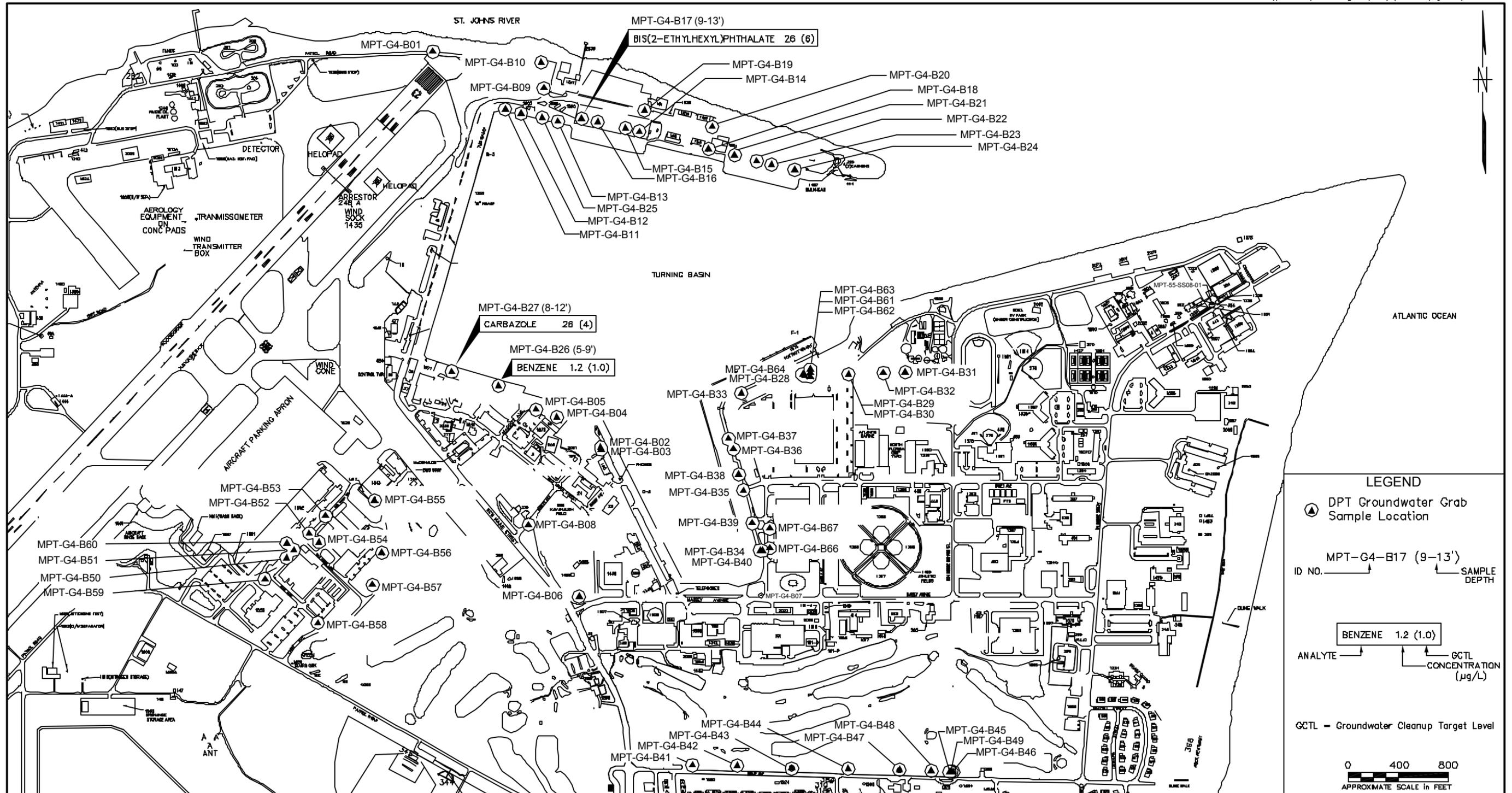
Group IV RCRA Field Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				62-05	63-05	63-05 DU	64-05	65-05	65-05 DU	66-05	67-05
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Mar-01	Mar-01
VOCs (USEPA 8260B) µg/L											
1,1,2,2-Tetrachloroethane	0.2	0.055	--	<1	<1	<1	<1	<10	<10	<1	<1
1,1-Dichloroethane	70	810	--	<1	<1	<1	<1	<10	<10	1.8	<1
1,1-Dichloroethene	7	0.046	7	0.14J	<1	<1	<1	<10	<10	<1	<1
1,2-Dichloroethane	3	0.12	5	<1	<1	<1	<1	<10	<10	<1	<1
1,2-Dichloroethene, cis	70	1,000	70	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5
1,2-Dichloroethene, trans	100	20	100	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5
1,2-Dichloroethene (total)	70	61	70	<1	<1	<1	<1	<10	<10	<1	<1
2-Butanone	4,200	120	100	<10	<10	<10	<10	<100	<100	<10	<10
2-Hexanone	280	--	--	<10	<10	<10	<10	<100	<100	<10	<10
4-Methyl-2-pentanone	560	160	--	<10	<10	<10	<10	<100	<100	<10	<10
Benzene	1	0.41	5	<1	<1	<1	<1	<10	<10	<1	<1
Carbon disulfide	700	160	--	<1	<1	<1	<1	<10	<10	<1	<1
Chlorobenzene	100	110	100	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	1	0.41	5	0.65J	0.42J	0.68J	0.56J	<10	<10	<1	<1
Methyl tertiary butyl ether	2.7	1.5	--	<5	<5	<5	<5	<50	<50	<5	<5
Trichloroethene	3	1.6	5	<1	<1	<1	<1	<10	<10	<1	<1
Vinyl chloride	1	0.02	2	<1	<1	<1	<1	<10	<10	<1	<1

Notes:¹FDEP GCTLs, Chapter 62-777, FAC, August 1999²USEPA Region IX PRGs, November 2000³USEPA MCLs, National Primary Drinking Water Standards, December 1999

J - indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit

< - result is less than the method detection limit



LEGEND

- DPT Groundwater Grab Sample Location
- MPT-G4-B17 (9-13') ID NO. SAMPLE DEPTH
- BENZENE 1.2 (1.0) ANALYTE GCTL CONCENTRATION (µg/L)

GCTL - Groundwater Cleanup Target Level



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY: LLK
DATE: 2/12/04
CHECKED BY: DATE
COST/SCHED-AREA
SCALE: AS NOTED



VOC AND SVOC CONCENTRATIONS EXCEEDING GCTLs IN DPT GROUNDWATER GRAB SAMPLES
GROUP IV
RCRA FACILITY INVESTIGATION
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

CONTRACT NO.	0123
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 5-2
REV.	0

5.3.1.2.2 Semivolatile Organic Compounds

The groundwater screening samples consisted of 14 different SVOCs with two detected above FDEP GCTLs, three above USEPA Region IX PRGs, and one above USEPA MCLs. Table 5-5 presents a summary of SVOC detections in the Group IV groundwater screening samples, and concentrations exceeding GCTL values are provided on Figure 5-2. The analytical results are discussed below.

Bis(2-ethylhexyl)phthalate was detected in sample MPT-G4-GW-17-09 (26 µg/L) above the FDEP GCTL (6 µg/L), USEPA Region IX PRG (4.8 µg/L), and USEPA MCL (6 µg/L).

Carbazole was detected in sample MPT-G4-GW-27-08 (20 µg/L) above the GCTL (4 µg/L) and USEPA Region IX PRG (0.03 µg/L). There is not an MCL for carbazole.

1,4-Dichlorobenzene was reported at a value of 1.1 µg/L (estimated) in a duplicate sample of MPT-G4-GW-17-09, exceeding the USEPA Region IX PRG of 0.5 µg/L, but below the FDEP GCTL and USEPA MCL of 75 µg/L.

5.3.1.2.3 Inorganics

Eighteen inorganics were detected in the groundwater screening samples with six above background screening values, six above FDEP GCTLs, one above USEPA Region IX PRGs, and two above USEPA MCLs. There are no background screening values for six of the inorganic analytes detected in the groundwater screening samples. A summary of inorganic detections in the groundwater screening samples collected for Group IV is presented in Table 5-6. The analytical results are discussed below.

Aluminum was detected in samples MPT-G4-GW-42-04 (851 µg/L) and 44-04 (248 µg/L) above the FDEP GCTL (200 µg/L). There is not a background screening value or an USEPA MCL for aluminum.

Arsenic was detected in one sample MPT-G4-GW-25-07 (161 µg/L) above the FDEP GCTL (50 µg/L) and the USEPA MCL (5 µg/L). All arsenic detections reported (25 total) exceeded the USEPA Region IX PRG (0.045 µg/L). It is likely that additional samples had arsenic concentrations exceeding the USEPA Region IX PRG because the detection limit achieved by the laboratory (minimum 2.9 µg/L was higher than the PRG). There were four arsenic results above the background screening value (9.8 µg/L).

TABLE 5-5											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				01-11	02-05	03-05	04-04	05-04	06-07	07-05	08-05
				Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<5	<5	<5	<5.1	<5	<5	<5	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				09-11	10-10	11-05	12-05	13-06	14-10	15-09	16-08
				Jun-00	Jun-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<7.7	<5	<9.1	<5	<5	<5	<5	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				17-09	17-09 DU	18-09	19-10	20-11	21-08	22-08	23-08
				Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	26	<5	<5	<5	<5	<5	2.9J	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	1.1J	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				24-08	25-07	26-05	27-08	28-05	28-05 DU	29-05	30-07
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<5	<5	2.3J	2.6J	<5	<5	2.1J	<5
Acenaphthene	20	370	--	<10	<10	<10	6.1J	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	1.7J	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	20	<10	<10	<10	<10
Fluoranthene	280	1500	--	2.7J	<10	<10	5.5J	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	5.2J	3.4J	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	2.9J	2.4J	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	5.3J	7J	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	1.9J	<10	<10	5.3J	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	53	<10	3.9J	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	1.5J	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				31-09	32-07	33-06	34-05	35-05	36-05	37-05	38-04
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<5	<5	<5	<5	<7.3	<5	<5	<5
Acenaphthene	20	370	--	<10	<10	2.8J	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	1.3J	<10	2J	1.5J	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				39-04	40-04	41-06	42-04	43-04	44-04	45-07	46-07
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	2.6J	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				47-07	48-07	49-07	50-05	51-05	52-05	53-05	54-05
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				55-05	56-05	57-05	58-05	59-05	59-05 DU	60-05	61-05
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	10	22000	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<10	<10	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.											

TABLE 5-5 (Continued)											
Groundwater Screening Analytical Results Summary for SVOCs											
Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida											
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-G4-GW-							
				62-05	63-05	63-05 DU	64-05	65-05	65-05 DU	66-05	67-05
				Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Mar-01	Mar-01
SVOCs (USEPA 8270C) µg/L											
Bis(2-ethylhexyl)phthalate	6	4.8	6	<14	<5	<5	<5	<20	<20	<5	<5
Acenaphthene	20	370	--	<10	<10	<10	<10	<40	<40	<10	<10
Anthracene	2100	1800	--	<10	<10	<10	<10	<40	<40	<10	<10
Carbazole	4	3.4	--	<10	<10	<10	<10	<40	<40	<10	<10
Fluoranthene	280	1500	--	<10	<10	<10	<10	<40	<40	<10	<10
Fluorene	280	240	--	<10	<10	<10	<10	<40	<40	<10	<10
Naphthalene	20	6.2	--	<10	<10	<10	<10	<40	<40	<10	<10
Phenanthrene	210	--	--	<10	<10	<10	<10	<40	<40	<10	<10
Phenol	10	22000	--	<10	<10	<10	1.8J	<40	<40	<10	<10
Pyrene	210	180	--	<10	<10	<10	<10	<40	<40	<10	<10
Pyridine	7	36	--	<10	<10	<10	<10	<40	<40	<10	<10
1,4-Dichlorobenzene	75	0.5	75	<10	<10	<10	<10	<40	<40	<10	<10
2-Methylnaphthalene	20	--	--	<10	<10	<10	<10	<40	<40	<10	<10
3-Methylphenol	35	1800	--	<10	<10	<10	<10	<40	<40	<10	<10
Notes:											
¹ FDEP GCTLs, Chapter 62-777, FAC, August 1999											
² USEPA Region IX PRGs, November 2000											
³ USEPA MCLs, National Primary Drinking Water Standards, December 1999											
J - indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit											
< - result is less than the method detection limit											

<p align="center">TABLE 5-6 Groundwater Screening Analytical Results Summary for Inorganics</p> <p align="center">Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida</p>												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-G4-GW-							
					01-11	02-05	03-05	04-04	05-04	06-07	07-05	08-05
					Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<11.8	<135	<120	<10.9	<21.7	<12.6	<34.7	<61.7
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Arsenic	9.8	50	0.045	50	<2.9	<2.9	<2.9	4.3	<2.9	<2.9	<2.9	4.8
Barium	39.0	2,000	2,600	2,000	3.7	26.7	8.2	5.2	9.4	4.2	9.2	9.3
Calcium	207,466	--	--	--	79,900	78,200	115,000	57,300	93,500	129,000	147,000	120,000
Chromium	10.4	100	110	100	<0.80	<2.6	<0.80	<1.9	<0.80	<0.80	<0.84	<1.6
Copper	2.8	1000	1400	1300	<1.3	<2.5	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Iron	1,728	300	11,000	--	110	1,180	1,750	<372	1,220	1,120	1,180	1,040
Magnesium	153,984	--	--	--	9,980	9,990	6,860	17,200	28,000	10,200	10,200	10,900
Manganese	210	50	880	--	15.9L	67.3J	<37.7	<20.1	90.8J	<34.4	138J	<37.8
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	5.4	12.9	2.8	8.1	4.3	1.5	5.4	12.2
Potassium	--	--	--	--	4,360	8,310	3,620	4,060	2,460	9,110	3,120	4,500
Sodium	1,519,016	160,000	--	--	22,100	237,000	41,400	17,700	45,100	30,100	11,700	30,700
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
Vanadium	9.2	49	260	--	<0.80	4.4	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
Zinc	41.6	5,000	11,000	--	<1.0	<6.0	<12.0	<10.9	<9.4	<5.5	<5.3	<6.0
(USEPA 9012A) µg/L												
Cyanide	1.9	200	730	200	NS	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.												

TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-G4-GW-							
					09-11	10-10	11-05	12-05	13-06	14-10	15-09	16-08
					Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<52.9	<52.4	<97.4	<77.6	<76.8	<48.6	<39.3	<43.5
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Arsenic	9.8	50	0.045	50	<2.9	<2.9	<2.9	<2.9	7.2	7.6	<2.9	9.4
Barium	39.0	2,000	2,600	2,000	6.3	5.4	30.3	13.3	10.9	6.7	4.8	12.7
Calcium	207,466	--	--	--	93,200	101,000	128,000	108,000	112,000	96,500	110,000	156,000
Chromium	10.4	100	110	100	<0.80	<0.80	<0.80	<0.80	<0.80	<0.97	<0.80	<1.1
Copper	2.8	1000	1400	1300	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Iron	1,728	300	11,000	--	436	<288	1,890	1,830	4,370	748	486	1680
Magnesium	153,984	--	--	--	7820	14,800	33,100	7,490	8,060	8,400	6,360	8790
Manganese	210	50	880	--	<35.0	<28.8	247J	361J	390J	157J	<8.8	91.0J
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	4.9	1.5	<1.3	<1.3	<1.3	2.0	<1.3	<1.3
Potassium	--	--	--	--	3,410	4,750	22,000	3,880	2,540	12,700	5,660	6800
Sodium	1,519,016	160,000	--	--	10,200	34,100	57,000	25,500	21,700	31,400	20,800	12,700
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
Vanadium	9.2	49	260	--	<0.80	<0.80	<0.80	<0.80	<0.80	<1.2	4.4	<0.80
Zinc	41.6	5,000	11,000	--	<5.9	<3.1	<28.6	<6.0	<13.1	<9.0	<7.4	<17.0
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	<10	<10	<10	<4.4	<10	<10	<10
See notes at end of table.												

TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					17-09	17-09 DU	18-09	19-10	20-11	21-08	22-08	23-08
					Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00	Jun-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<67.9	<46.2	<40.5	<32.7	<37.9	<40.0	<57.7	<22.5
Antimony	--	6	15	6	<3.1	<3.1	<4.8	<3.6	<4.1	<4.7	<3.1	<4.2
Arsenic	9.8	50	0.045	50	3.1	3.2	9.0	13.9	8.2	<2.9	<2.9	<2.9
Barium	39.0	2,000	2,600	2,000	7.0	7.6	8.4	11.2	5.7	12.3	11.0	8.1
Calcium	207,466	--	--	--	119,000	131,000	70,200	177,000	130,000	182,000	117,000	108,000
Chromium	10.4	100	110	100	<1.1	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
Copper	2.8	1000	1400	1300	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Iron	1,728	300	11,000	--	<341	<360	4020	1670	1060	2050	1050	831
Magnesium	153,984	--	--	--	4,320	4,770	69,100	28,900	10,600	40,700	38,800	28,200
Manganese	210	50	880	--	<17.6	<19.7	209	121	63.2	454	143	121
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	1.9	1.9	1.7	1.3	<1.3	<1.3	1.4	<1.3
Potassium	--	--	--	--	5,060	5,610	46,200	14,800	5,900	34,100	31,100	25,400
Sodium	1,519,016	160,000	--	--	12,300	13,600	153,000	35,800	27,800	89,900	116,000	94,200
Thallium	--	2	--	2	<6.3	<6.3	6.7	<6.3	<6.3	<6.3	<6.3	<6.3
Vanadium	9.2	49	260	--	6.5	6.7	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
Zinc	41.6	5,000	11,000	--	<3.5	<12.3	<10.4	<5.4	<15.9	<9.5	<22.7	<5.5
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.												

TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					24-08	25-07	26-05	27-08	28-05	28-05 DU	29-05	30-07
					Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<105	<30.3	<36.7	<43.2	<25.9	<28.0	<28.5	<32.9
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.3	<3.1	<3.1	<7.1	3.2
Arsenic	9.8	50	0.045	50	<2.9	161	3.0	<2.9	4.2	<5.4	5.2	<2.9
Barium	39.0	2,000	2,600	2,000	<4.2	19.5	21.7	<4.8	<3.9	<3.8	22.9	<2.7
Calcium	207,466	--	--	--	18,700	114,000	136,000	94,800	97,600	92,900	182,000	56,400
Chromium	10.4	100	110	100	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	1.0	<0.80
Copper	2.8	1000	1400	1300	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Iron	1,728	300	11,000	--	<83.1	3030	5510	<104	2270	2190	631	<92.9
Magnesium	153,984	--	--	--	1,350	19,100	14,200	25,800	6,450	6,190	21,100	3,070
Manganese	210	50	880	--	8.1	318	68.1	41.6	131	128	70.7	26.8
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	<1.3	<1.3	<1.3	<1.3	2.2	1.5	5.7	1.4
Potassium	--	--	--	--	1,510	9,820	3,890	5,620	1,920	1,870	13,200	1,960
Sodium	1,519,016	160,000	--	--	6,290	40,500	44,100	63,700	51,500	50,500	26,800	4,040
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	9.9	<6.3
Vanadium	9.2	49	260	--	<0.80	<0.80	<1.1	<1.0	<0.80	<0.80	6.6	<0.80
Zinc	41.6	5,000	11,000	--	<7.0	<12.8	<3.2	<2.3	<8.0	<7.3	<7.1	<8.9
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	<10	<10	<10	<10	<10	<7.5	<10
See notes at end of table.												

TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					31-09 Jul-00	32-07 Jul-00	33-06 Jul-00	34-05 Jul-00	35-05 Jul-00	36-05 Jul-00	37-05 Jul-00	38-04 Jul-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<40.9	<31.0	<26.2	<34.05	<38.5	<46.4	<37.5	<74.2
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Arsenic	9.8	50	0.045	50	<2.9	<2.9	<5.7	11.0	<2.9	<2.9	3.3	3.2
Barium	39.0	2,000	2,600	2,000	<3.2	8.1	5.5	32.7	6.9	9.3	7.6	6.4
Calcium	207,466	--	--	--	69,700	87,400	68,500	92,400	130,000	73,400	117,000	192,000
Chromium	10.4	100	110	100	<0.80	<0.80	<0.80	<3.6	5.1	<2.9	<0.80	<0.80
Copper	2.8	1000	1400	1300	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Iron	1,728	300	11,000	--	<70.1	187	1640	1400	1000	1540	2530	1820
Magnesium	153,984	--	--	--	11,700	3,680	9770	25,700	5,550	3,130	2,400	15,700
Manganese	210	50	880	--	30.4	38.8	172	34.9J	107J	73.7J	61.4J	404J
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	<1.3	<1.3	<1.3	6.0	5.3	3.9	<1.3	<1.3
Potassium	--	--	--	--	8,830	1,180	4060	15,200	5,960	2,080	2,150	8,450
Sodium	1,519,016	160,000	--	--	9,060	13,300	45,500	65,600	15,300	29,300	27,900	25,600
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
Vanadium	9.2	49	260	--	<0.80	<0.80	<1.2	<0.80	<0.80	<0.80	<4.1	<0.80
Zinc	41.6	5,000	11,000	--	<8.6	<1.9	<13.2	<13.6	<28.4	23.6	<6.6	<6.0
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.												

TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					39-04	40-04	41-06	42-04	43-04	44-04	45-07	46-07
					Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	190	<68.3	<31.6	851	<39.3	248	<57.8	<13.8
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Arsenic	9.8	50	0.045	50	<2.9	<2.9	8.5	<2.9	<2.9	<2.9	<2.9	4.0
Barium	39.0	2,000	2,600	2,000	10.2	5.7	17.1	5.7	31.0	<2.3	3.6	4.6
Calcium	207,466	--	--	--	110,000	61,600	97,100	26,300	164,000	33,900	121,000	127,000
Chromium	10.4	100	110	100	<0.80	5.1	<0.80	7.0	<1.5	<1.7	<2.1	<2.3
Copper	2.8	1000	1400	1300	<1.5	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<2.4
Iron	1,728	300	11,000	--	2010	570	8020	901	886	241	521	740
Magnesium	153,984	--	--	--	4,860	2,510	7,070	1,470	9,000	1,270	38,100	35,600
Manganese	210	50	880	--	172J	14.8J	20.1J	15.6J	37.3J	11.7J	127J	118J
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	1.5	4.1	1.7	3.5	5.0	1.7	1.8	1.7
Potassium	--	--	--	--	2,980	931	1,180	957	4,020	1,050	20,900	14,100
Sodium	1,519,016	160,000	--	--	25,500	8,540	7,850	3,320	16,800	4,260	277,000	281,000
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
Vanadium	9.2	49	260	--	<0.80	<0.80	<2.2	<3.5	<0.80	<1.2	<0.91	<1.2
Zinc	41.6	5,000	11,000	--	<12.9	<11.2	<10.2	<17.3	<4.3	<9.0	<10.2	58.6
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.												

TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					47-07	48-07	49-07	50-05	51-05	52-05	53-05	54-05
					Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<23.3	<23.0	<29.4	<10.3	<10.3	<10.3	<10.3	<10.3
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Arsenic	9.8	50	0.045	50	<2.9	<2.9	<2.9	3.5J	<2.9	<2.9	<2.9	<2.9
Barium	39.0	2,000	2,600	2,000	<2.8	5.5	4.3	11.9	9.9	15.7	15.1	7.5
Calcium	207,466	--	--	--	101,000	214,000	156,000	104,000J	159,000J	221,000J	138,000J	118,000J
Chromium	10.4	100	110	100	<2.9	<1.9	<1.9	<1.2	<1.3	<1.2	<1.6	<0.8
Copper	2.8	1000	1400	1300	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<11.6	<1.3
Iron	1,728	300	11,000	--	132	610	478	382J	313J	1000J	129J	971J
Magnesium	153,984	--	--	--	49,200	53,800	38,500	20,700	28,500	25,400	33,700	7,110
Manganese	210	50	880	--	82.7J	120J	37.9J	67.9	94.5	166	100	91.9
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	1.4	1.6	<1.3	3.8	3.6	1.7	1.7	3.7
Potassium	--	--	--	--	25,000	23,200	12,300	13,800	16,800	10,500	18,500	4,520
Sodium	1,519,016	160,000	--	--	206,000	248,000	187,000	115,000	256,000	179,000	200,000	25,200
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
Vanadium	9.2	49	260	--	<1.1	<1.2	<1.4	<0.8	<0.8	<0.8	<0.8	<0.8
Zinc	41.6	5,000	11,000	--	<6.7	<11.6	<2.6	<3.6	<4.8	<18.8	<11.7	<5.1
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.												

TABLE 5-6 (Continued)
Groundwater Screening Analytical Results Summary for Inorganics

Group IV RCRA Field Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					55-05	56-05	57-05	58-05	59-05	59-05 DU	60-05	61-05
					Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<10.3	<10.3	<10.3	<10.3	<10.3	<16.5	<10.3	<10.3
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1
Arsenic	9.8	50	0.045	50	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	5.1J
Barium	39.0	2,000	2,600	2,000	<3.9	9.9	12.2	17.7	24.1	23.8	15.3	6.6
Calcium	207,466	--	--	--	95,800J	185,000J	107,000J	163,000J	198,000J	195,000J	150,000J	105,000J
Chromium	10.4	100	110	100	<0.8	<0.8	<0.8	<1.3	<0.8	<1.2	<0.97	<0.8
Copper	2.8	1000	1400	1300	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Iron	1,728	300	11,000	--	124J	444J	436J	390J	<93.8	<98.7	1,620J	2,320J
Magnesium	153,984	--	--	--	12,400	20,900	22,500	84,000	92,200	93,500	68,800	4,080
Manganese	210	50	880	--	33.9	93.1	57.4	99.8	213	209	96.7	102
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	--	100	730	--	1.7	3.2	2.6	2.7	1.3	<1.3	2.7	2.5
Potassium	--	--	--	--	9,540	9,410	16,100	54,200	51,400	52,500	59,600	1,920
Sodium	1,519,016	160,000	--	--	93,500	116,000	215,000	777,000	831,000	848,000	542,000	30,900
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	8.3	<6.3	6.8	<6.3
Vanadium	9.2	49	260	--	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Zinc	41.6	5,000	11,000	--	<13	<13.8	22.1	<3.1	<2	<4.6	<4.4	<4.2
(USEPA 9012A)												
Cyanide	1.9	200	730	200	17.4J	<10	<10	<10	<10	<10	<10	<10
See notes at end of table.												

<p style="text-align: center;">TABLE 5-6 (Continued) Groundwater Screening Analytical Results Summary for Inorganics Group IV RCRA Field Investigation Naval Station Mayport Mayport, Florida</p>												
Detected Analyte	BSC ¹	FDEP GCTL ²	USEPA Region IX PRG ³	USEPA MCL ⁴	MPT-GW-GW							
					62-05	63-05	63-05 DU	64-05	65-05	65-05 DU	66-05	67-05
					Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Jul-00	Mar-01	Mar-01
Metals (USEPA 6010B) µg/L												
Aluminum	--	200	36,000	--	<10.3	<10.3	<15.2	<16.4	<28.9	<22.6	<119	<139
Antimony	--	6	15	6	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<5	<5
Arsenic	9.8	50	0.045	50	4.6J	4J	3.7J	9.9J	4.2J	<2.9	<2.4	<2.4
Barium	39.0	2,000	2,600	2,000	<4.3	<3.9	<3.9	<5.3	10.3	9.5	9.3	5.6
Calcium	207,466	--	--	--	103,000J	92,800	94,600J	104,000J	176,000J	177,000J	123,000	141,000
Chromium	10.4	100	110	100	<0.8	<0.8	<0.8	<0.8	<1.3	<0.8	<1.4	2.3
Copper	2.8	1000	1400	1300	<1.3	<2.1	<1.3	<1.4	<1.6	<1.3	6.8	<0.77
Iron	1,728	300	11,000	--	1180J	2100J	2070J	3110J	3070J	3120J	1690	487
Magnesium	153,984	--	--	--	4,840	6,490	6,640	4,860	9,050	9,270	13,200	20,100
Manganese	210	50	880	--	128	96.9	97.6	163	68.6	66	124	204
Molybdenum	--	35	180	--	NA	NA	NA	NA	NA	NA	5.8	3.4
Nickel	--	100	730	--	5.3	3.3	2.5	4	4.1	3.8	2	26.3
Potassium	--	--	--	--	2,330	2,050	2,100	1,560	4,750	4,790	4,390	16,800
Sodium	1,519,016	160,000	--	--	73,700	45,300	45,200	54,800	19,300	19,200	17,400	71,700
Thallium	--	2	--	2	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<8	<8
Vanadium	9.2	49	260	--	<1.7	<1.3	<1.3	<2.4	<4.7	<4.4	<0.89	1.1
Zinc	41.6	5,000	11,000	--	<9.8	<3.5	<3.2	<9.4	<7.3	<6.7	<3.5	<5.9
(USEPA 9012A)												
Cyanide	1.9	200	730	200	<10	5.5J	<10	8J	<10	<10	5.5	<10
Notes:												
¹ BSC, Recalculation of Media Background Screening Values, NAVSTA Mayport, Florida, November 2001								< - result is less than the method detection limit				
² FDEP GCTLs, Chapter 62-777, FAC, August 1999								Bolded numbers exceed FDEP GCTLs.				
³ USEPA Region IX PRGs, November 2000								-- - no defined target value				
⁴ USEPA MCLs, National Primary Drinking Water Standards, December 1999								NA - not available				
J - indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit												

Iron was detected above the FDEP GCTL (300 µg/L) in 53 samples, ranging from 313 to 8,020 µg/L. Seventeen samples had reported values exceeding the background screening concentration (1,728 µg/L). There were no results above the USEPA Region IX PRG (11,000 µg/L). There is not an USEPA MCL for iron.

Manganese was detected above its FDEP GCTL (50 µg/L) in 45 samples, ranging from 57.4 to 454 µg/L. Seven samples had reported values exceeding the background screening concentration (210 µg/L). There were no detections of manganese above the USEPA Region IX PRG (880 µg/L). There is not an USEPA MCL for manganese.

Sodium was detected above the FDEP GCTL (160,000 µg/L) in 13 samples, ranging from 179,000 to 848,000 µg/L. No reported values exceeded the background screening concentration (1,519,016 µg/L). There is not an USEPA Region IX PRG or an USEPA MCL for sodium.

Thallium was detected in samples MPT-G4-GW-18-09 (6.7 µg/L), 29-05 (9.9 µg/L), 59-05 (8.3 µg/L), and 60-05 (6.8 µg/L) above the FDEP GCTL (2 µg/L) and USEPA MCL (2 µg/L). There is not an USEPA Region IX PRG for thallium.

5.3.1.2.4 Interpretation of Results

One VOC, two SVOCs, and six inorganics were detected above FDEP GCTLs in the groundwater screening samples collected at Group IV. A discussion of each is provided below.

Volatiles

Benzene was the only VOC detected above FDEP GCTLs. The sample, located at Alpha Pier, was collected from the shallow zone of the surficial aquifer approximately 7 ft bls. Alpha Pier is currently being evaluated under the petroleum program due to the presence of free product, which may explain the presence of benzene at this location.

Semivolatiles

Bis(2-ethylhexyl)phthalate and carbazole were the only SVOCs detected above FDEP GCTLs. The sample, containing bis(2-ethylhexyl)phthalate, was located at Charlie Pier and collected from the shallow zone of the Surficial aquifer at approximately 11 ft bls. Bis(2-ethylhexyl)phthalate was not detected in a sample collected from a monitoring well subsequently placed in this location.

Inorganics

Aluminum, arsenic, iron, manganese, sodium, and thallium were detected above FDEP GCTLs. Aluminum was detected above FDEP GCTLs in two samples, arsenic in one sample, and thallium in four samples. A groundwater sample collected from a monitoring well subsequently placed at the location of the arsenic detection was below the FDEP GCTL for arsenic. Both aluminum exceedances were located along the sanitary sewer pipeline adjacent to Maole Avenue. The four occurrences of thallium are not concentrated in one geographic area.

5.3.1.3 Monitoring Well Groundwater Sampling Results

Monitoring wells were subsequently installed at previous screening locations to confirm the presence and/or absence of detected analytes. Target analytes detected in the groundwater samples consisted of VOCs, SVOCs, and inorganics. A discussion of each is provided below.

5.3.1.3.1 Volatiles

Five VOCs were detected in the groundwater samples, with one analyte (vinyl chloride) above FDEP GCTLs and USEPA Region IX PRGs. Vinyl chloride was detected above the FDEP GCTL (1 µg/L) in monitoring wells MPT-47-DPW14S (1.5 µg/L) and 15S (1.4 µg/L). It was reported at a value of 0.16 µg/L in MPT-47-DPW165, exceeding the USEPA Region IX PRG of 0.02 µg/L. There were no detections above the USEPA MCL (2 µg/L). A summary of VOCs detected in the groundwater samples collected from monitoring wells at Group IV is presented in Table 5-7. VOC and SVOC concentrations exceeding GCTL values in permanent monitoring well samples are provided on Figure 5-3.

5.3.1.3.2 Semivolatile Organic Compounds

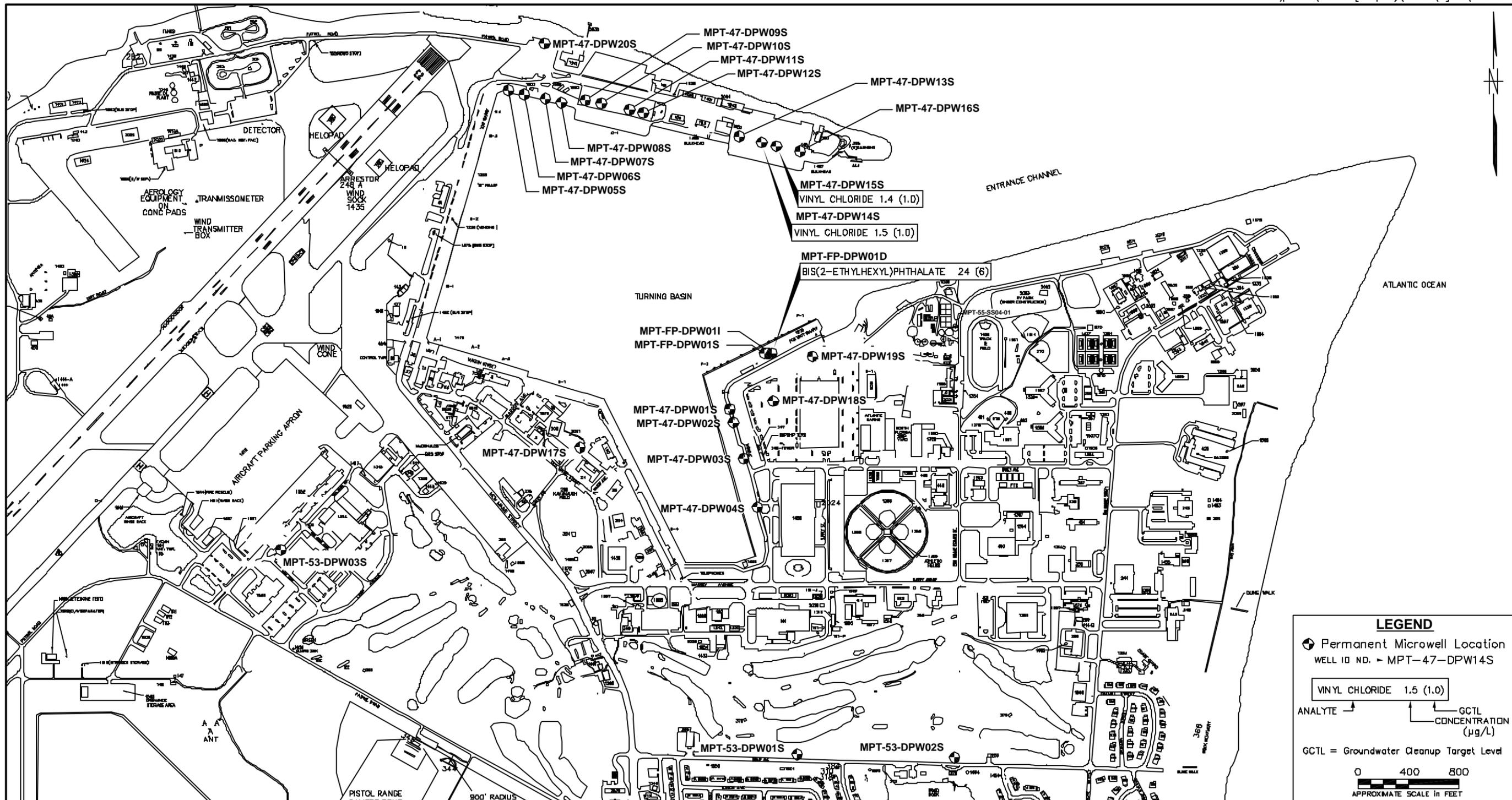
Seven SVOCs were detected in the groundwater samples with one reported at a value exceeding the FDEP GCTL and USEPA MCL of 6 µg/L. Bis(2-ethylhexyl)phthalate was reported at a concentration of 24 µg/L in monitoring well MPT-FP-DPW01D (24 µg/L). There is not an USEPA Region IX PRG for bis(2-ethylhexyl)phthalate. A summary of SVOCs detected in the groundwater samples collected from monitoring wells at Group IV is presented in Table 5-8.

5.3.1.3.3 Inorganics

Nineteen inorganics were detected in the groundwater samples with seven above background screening values, four above FDEP GCTLs, two above USEPA Region IX PRGs, and one above USEPA MCLs.

<p align="center">TABLE 5-7 Groundwater Analytical Results Summary for VOCs Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida</p>										
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-47-GW-						
				DPW01S	DPW02S	DPW03S	DPW04S	DPW05S	DU02	DPW06S
				Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
VOCs (USEPA 8260B) µg/L										
Benzene	1	0.41	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene, cis-	70	61	70	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethene, total	170	--	--	< 1	0.13 J	< 1	< 1	< 1	< 1	0.15 J
Methylene chloride	5	4.3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	0.02	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-47-GW-						
				DPW07S	DPW08S	DPW09S	DPW10S	DPW11S	DPW12S	DPW13S
				Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
VOCs (USEPA 8260B) µg/L										
Benzene	1	0.41	5	< 0.5	< 0.5	< 0.5	< 0.5	0.11 J	< 0.5	< 0.5
1,2-Dichloroethene, cis-	70	61	70	< 1	< 1	< 1	< 1	0.11 J	< 1	< 1
1,2-Dichloroethene, total	170	--	--	< 1	< 1	< 1	< 1	< 1	< 1	0.12 J
Methylene chloride	5	4.3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	0.02	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-47-GW-						
				DPW14S	DPW15S	DPW16S	DPW17S	DU01	DPW18S	DPW19S
				Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
VOCs (USEPA 8260B) µg/L										
Benzene	1	0.41	5	2.9	1.8	0.67	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene, cis-	70	61	70	2.9	1.8	0.67 J	< 1	< 1	< 1	< 1
1,2-Dichloroethene, total	170	--	--	< 1	0.34 J	< 1	< 1	< 1	< 1	< 1
Methylene chloride	5	4.3	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	0.02	2	1.5	1.4	0.16 J	< 1	< 1	< 1	< 1
See notes at end of table.										

TABLE 5-7 (continued)										
Groundwater Analytical Results Summary for VOCs										
Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida										
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-47-GW-						
				DPW20S	DPW21S	DPW22S	DPW23S	DU07	DPW23I	DPW23D
				Mar-01	May-01	May-01	Jun-01	Jun-01	Jun-01	Jun-01
VOCs (USEPA 8260B) µg/L										
Benzene	1	0.41	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene, cis-	70	61	70	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethene, total	170	--	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	5	4.3	5	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	1	0.02	2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Detected Analyte	FDEP GCTL ¹	USEPA Region IX PRG ²	USEPA MCL ³	MPT-55-GW-			MPT-FP-GW-			
				DPW01S	DPW02S	DPW03S	DPW01S	DUP-01	DPW01I	DPW01D
				Dec-00	Dec-00	Dec-00	Mar-01	Mar-01	Mar-01	Mar-01
VOCs (USEPA 8260B) µg/L										
Benzene	1	0.41	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene, cis-	70	61	70	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
1,2-Dichloroethene, total	170	--	--	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
Methylene chloride	5	4.3	5	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
Vinyl chloride	1	0.02	2	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
Notes:										
¹ FDEP GCTLs, Table 1, Chapted 62-777, FAC										
² USEPA Region IX PRGs										
³ USEPA MCLs										
J - Estimated value										
< - Constituent concentration is less than the detection limit										
-- - No defined target value										
Bolded values exceed FDEP GCTLs.										



NO.	DATE	REVISIONS	BY	CHKD	APPO	REFERENCES	DRAWN BY	DATE	 <p>VOC AND SVOC CONCENTRATIONS EXCEEDING GCTLs IN PERMANENT MONITORING WELL SAMPLES GROUP IV RCRA FACILITY INVESTIGATION MAYPORT NAVAL STATION MAYPORT, FLORIDA</p>	CONTRACT NO.	APPROVED BY	DATE	
							LLK	2/13/04		0123			
							COST/SCHED-AREA						
							SCALE						
							AS NOTED						
										DRAWING NO.	FIGURE 5-3	REV.	0

TABLE 5-8										
Groundwater Analytical Results Summary for SVOCs										
Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida										
Detected Analyte	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-						
				DPW01S	DPW02S	DPW03S	DPW04S	DPW05S	DU02	DPW06S
				Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
SVOCs (USEPA 8270C) µg/L										
2-Methylnaphthalene	20	--	--	< 10	< 10	5.2 J	< 10	< 10	< 10	< 10
Acenaphthene	20	370	--	< 10	< 10	< 10	< 10	3.3 J	< 10	< 10
Bis(2-ethylhexyl)phthalate	6.0	--	6.0	< 5	< 5	< 5	< 5	< 5	< 5	4.3 J
Fluoranthene	280	1500	--	< 10	< 10	< 10	< 10	3.4 J	8.4 J	< 10
Naphthalene	20	6.2	--	< 10	< 10	2.2 J	< 10	< 10	< 10	< 10
N-Nitrosomorpholine	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	210	180	--	< 10	< 10	< 10	< 10	2.2 J	5.3 J	< 10
Detected Analyte	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-						
				DPW07S	DPW08S	DPW09S	DPW10S	DPW11S	DPW12S	DPW13S
				Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
SVOCs (USEPA 8270C) µg/L										
2-Methylnaphthalene	20	--	--	< 10	< 10	< 10	5.2 J	< 10	< 10	< 10
Acenaphthene	20	370	--	< 10	< 10	< 10	< 10	< 10	3.3 J	< 10
Bis(2-ethylhexyl)phthalate	6	--	6	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Fluoranthene	280	1500	--	< 10	< 10	< 10	< 10	< 10	3.4 J	8.4 J
Naphthalene	20	6.2	--	< 10	< 10	< 10	2.2 J	< 10	< 10	< 10
N-Nitrosomorpholine	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	210	180	--	< 10	< 10	< 10	< 10	< 10	2.2 J	5.3 J
See notes at end of table.										

TABLE 5-8 (Continued)										
Groundwater Analytical Results Summary for SVOCs										
Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida										
Detected Analyte	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-						
				DPW14S	DPW15S	DPW16S	DPW17S	DU01	DPW18S	DPW19S
				Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
SVOCs (USEPA 8270C) µg/L										
2-Methylnaphthalene	20	--	--	< 10	< 10	< 10	< 10	5.2 J	< 10	< 10
Acenaphthene	20	370	--	< 10	< 10	< 10	< 10	< 10	< 10	3.3 J
Bis(2-ethylhexyl)phthalate	6.0	--	6.0	4.3 J	< 5	< 5	< 5	< 5	< 5	< 5
Fluoranthene	280	1500	--	< 10	< 10	< 10	< 10	< 10	< 10	3.4 J
Naphthalene	20	6.2	--	< 10	< 10	< 10	< 10	2.2 J	< 10	< 10
N-Nitrosomorpholine	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	210	180	--	< 10	< 10	< 10	< 10	< 10	< 10	2.2 J
Detected Analyte	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-						
				DPW20S	DPW21S	DPW22S	DPW23S	DU07	DPW23I	DPW23D
				Mar-01	May-01	May-01	Jun-01	Jun-01	Jun-01	Jun-01
SVOCs (USEPA 8270C) µg/L										
2-Methylnaphthalene	20	--	--	< 10	< 10	< 10	< 10	< 10	5.2 J	< 10
Acenaphthene	20	370	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-ethylhexyl)phthalate	6.0	--	6.0	< 5	4.3 J	< 5	< 5	< 5	< 5	< 5
Fluoranthene	280	1500	--	8.4 J	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	20	6.2	--	< 10	< 10	< 10	< 10	< 10	2.2 J	< 10
N-Nitrosomorpholine	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	210	180	--	5.3 J	< 10	< 10	< 10	< 10	< 10	< 10
See notes at end of table.										

TABLE 5-8 (Continued)
Groundwater Analytical Results Summary for SVOCs

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-55-GW-			MPT-FP-GW-			
				DPW01S	DPW02S	DPW03S	DPW01S	DUP-01	DPW01I	DPW01D
				Dec-00	Dec-00	Dec-00	Mar-01	Mar-01	Mar-01	Mar-01
SVOCs (USEPA 8270C) µg/L										
2-Methylnaphthalene	20	--	--	< 10	< 10	< 10	< 10	< 10	< 10	5.2 J
Acenaphthene	20	370	--	3.3 J	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-ethylhexyl)phthalate	6.0	--	6.0	< 5	< 5	4.3 J	< 5	< 5	< 5	24
Fluoranthene	280	1500	--	3.4 J	8.4 J	< 10	< 10	< 10	< 10	< 10
Naphthalene	20	6.2	--	< 10	< 10	< 10	< 10	< 10	< 10	2.2 J
N-Nitrosomorpholine	--	--	--	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	210	180	--	2.2 J	5.3 J	< 10	< 10	< 10	< 10	< 10
Notes:										
*FDEP GCTLs, Chapter 62-770, FAC										
< - Analytical result is less than the method detection limit										
J - Estimated value										

Eight analytes did not have established background screening values. Background screening values listed for iron, manganese, and sodium at NAVSTA Mayport are higher than FDEP GCTLs. A summary of inorganics detected in the groundwater samples collected from monitoring wells at Group IV is presented in Table 5-9. The analytical results are discussed below.

Iron was detected above the FDEP GCTL (300 µg/L) in 28 samples ranging from 404 to 13,100 µg/L. Of these, 26 samples were detected above the background screening value (494 µg/L). Iron was also detected above the USEPA Region IX PRG (11,000 µg/L) in one sample (MPT-47-DPW04S). There is not an USEPA MCL for iron.

Manganese was detected above the FDEP GCTL (50 µg/L) in 23 samples, ranging from 55.1 to 315 µg/L. There were no detections above the USEPA Region IX PRG (880 µg/L). Eleven samples had detections above the background screening value (141 µg/L). There is not an USEPA MCL for manganese.

Sodium was detected above its FDEP GCTL (160,000 µg/L) in four samples, ranging from 174,000 to 1,140,000 µg/L. There were no detections exceeding the background screening value (1,524,588 µg/L). There is not an USEPA Region IX PRG or an USEPA MCL for sodium.

Thallium was detected above the FDEP GCTL and USEPA MCL of 2 µg/L in samples collected from monitoring wells MPT-47-DPW02S (7.4 µg/L), DPW23I (6.8 µg/L), and DPW23D (6.8 µg/L). There is not an USEPA Region IX PRG or background screening value listed for thallium.

5.3.1.3.4 Interpretation of Results

One VOC, one SVOC, and four inorganics were detected above FDEP standards in the groundwater samples collected at Group IV. A discussion of each is provided below.

Volatiles

Vinyl chloride was the only VOC detected above FDEP standards. The two samples from which exceedances were reported, located at Charlie Pier (Carrier Pier), were collected from monitoring wells screened in the shallow zone of the Surficial aquifer (approximately 5 to 15 ft bls). The two wells are adjacent to one another and approximately 100 ft apart. Additional wells placed in the area suggest that the aerial extent of vinyl chloride is not defined.

TABLE 5-9
Groundwater Analytical Results Summary for Inorganics

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Detected Analyte	Background d Screening	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-							
					DPW01S	DPW02S	DPW03S	DPW04S	DPW05S	DU02	DPW06S	
					Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	
Metals (USEPA 6010B) µg/L												
Antimony	--	6	15	6	< 3.1	< 3.1	< 3.1	< 3.1	< 4.3	< 4.3	< 4.3	
Arsenic	5.3	50	0.045	50	3.3	< 3.2	< 3.2	< 3.2	< 3.6	< 3.6	< 3.6	
Barium	37.8	2,000	2,600	2,000	10.7	11.9	6.8	6.9	13.8	14.7	11.0	
Calcium	226,125	--	--	--	94,700	169,000	130,000	85,000	100,000	96,400	98,300	
Chromium	--	100	110	100	< 1.1	< 1.1	< 1.1	1.4	< 2.0	< 2.0	< 2.0	
Cobalt	--	420	2,200	--	< 0.83	< 0.83	< 0.83	< 0.83	< 2.2	< 2.2	< 2.2	
Iron	494	300	11,000	--	949	7,900	5,350	13,100	957	812	424	
Magnesium	184,393	--	--	--	5,380	5,450	11,500	5,250	16,000	16,400	20,800	
Manganese	141	50	880	--	55.1	60.7	223	248	164	163	70.8	
Mercury	0.16	2	11	2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.11	< 0.10	< 0.10	
Molybdenum	--	35	180	--	5.4	< 3.9	4.5	< 3.9	6.4	7.6	7.5	
Nickel	--	100	730	--	< 2.0	< 2.0	< 2.0	< 2.0	< 1.9	< 1.9	< 1.9	
Potassium	--	--	--	--	3,050 J	6,410 J	6,810 J	2,820 J	8,070	8,360	4,250	
Selenium	--	50	180	50	< 4.0	< 4.0	< 4.0	< 4.0	< 4.3	5.5	< 4.3	
Sodium	1,524,588	160,000	--	--	21,900	16,700	20,700	17,300	17,900	18,700	20,900	
Thallium	--	2	--	2	< 6.8	7.4	< 6.8	< 6.8	< 9.5	< 5.3	< 9.5	
Vanadium	6	49	260	--	1.3	0.85 J	< 0.76	< 0.76	< 1.4	< 1.4	1.8	
Zinc	5.8	5,000	11,000	--	21.8	< 9.8	< 13.0	< 9.5	< 1.4	< 2.1	< 1.7	
(USEPA 9012A) µg/L												
Cyanide, Total	2	200	--	--	12.1 J	6.4 J	7.7 J	17.9 J	< 10	< 10	< 10	
See notes at end of table.												

<p align="center">TABLE 5-9 (Continued) Groundwater Analytical Results Summary for Inorganics</p> <p align="center">Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida</p>												
Detected Analyte	Background d Screening	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-							
					DPW07S	DPW08S	DPW09S	DPW10S	DPW11S	DPW12S	DPW13S	
					Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	
<u>Metals (USEPA 6010B) µg/L</u>												
Antimony	--	6	15	6	<3.1	< 3.1	< 4.3	< 3.1	< 3.1	< 3.1	< 4.3	
Arsenic	5.3	50	0.045	50	18.3	< 3.2	4.7	6.2	4.6	6.8	< 3.6	
Barium	37.8	2,000	2,600	2,000	10.8	10.8	10.7	14.1	9.9	8.9	< 2.0	
Calcium	226,125	--	--	--	82,500	94,400	121,000	147,000	93,500	89,000	24,600	
Chromium	--	100	110	100	1.2	< 1.1	< 2.0	< 1.1	1.3	< 1.1	< 2.0	
Cobalt	--	420	2,200	--	< 0.83	< 0.83	< 2.2	< 0.83	< 0.87	< 0.83	< 2.2	
Iron	494	300	11,000	--	905	2,450	588	4,610	1,360	2,010		
Magnesium	184,393	--	--	--	21,100	16,400	4,160	7,570	9,050	7,060	3,660	
Manganese	141	50	880	--	90.2	60.7	52.7	124	40.7	157	21.9	
Mercury	0.16	2	11	2	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.28	
Molybdenum	--	35	180	--	5.9	7.3	12.6	15.4	11.7	12.1	< 1.9	
Nickel	--	100	730	--	< 2.0	< 2.0	2	< 2.0	< 2.0	< 2.0	< 1.9	
Potassium	--	--	--	--	11,800 J	7,500 J	5,780	7,560 J	9,570 J	11,200 J	2,840	
Selenium	--	50	180	50	< 4.0	4.3	< 4.3	< 4.0	< 4.0	< 4.3	< 4.3	
Sodium	1,524,588	160,000	--	--	55,300	27,200	11,280	13,400	23,400	27,400	18,200	
Thallium	--	2	--	2	< 6.8	< 6.8	< 9.5	< 6.8	< 6.8	< 6.8	< 6.5	
Vanadium	6	49	260	--	< 0.76	< 0.76	2.6	< 0.76	< 0.76	< 0.76	< 1.4	
Zinc	5.8	5,000	11,000	--	< 5.1	< 3.7	< 2.4	< 14.0	< 2.3	< 1.2	< 2.0	
<u>(USEPA 9012A) µg/L</u>												
Cyanide, Total	2	200	--	--	22.3 J	19.7 J	< 10	18.6 J	17.6 J	5.0 J	< 10	
See notes at end of table.												

TABLE 5-9 (Continued)
Groundwater Analytical Results Summary for Inorganics

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	Background d Screening	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-						
					DPW14S	DPW15S	DPW16S	DPW17S	DU01	DPW18S	DPW19S
					Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00	Dec-00
Metals (USEPA 6010B) µg/L											
Antimony	--	6	15	6	< 4.3	< 3.1	< 3.1	< 3.1	< 3.1	4.2	< 3.1
Arsenic	5.3	50	0.045	50	< 3.6	< 3.2	< 3.2	16.4	16.9	3.2	< 3.2
Barium	37.8	2,000	2,600	2,000	11	14.1	13.5	12	11.3	60.7	2.8
Calcium	226,125	--	--	--	120,000	118,000	163,000	126,000	118,000	191,000	87,100
Chromium	--	100	110	100	< 2.0	< 1.1	< 1.1	1.2	< 1.1	< 1.1	< 1.1
Cobalt	--	420	2,200	--	< 2.2	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83
Iron	494	300	11,000	--	1,450	3,440	4,390	3,490	3,030	148	1,780
Magnesium	184,393	--	--	--	44,100	47,800	31,000	18,300	18,700	37,200	5,790
Manganese	141	50	880	--	171	60.7	315	107	93.9	183	107
Mercury	0.16	2	11	2	< 0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	--	35	180	--	8.4	< 3.9	20.7	< 3.9	< 3.9	19.2	< 3.9
Nickel	--	100	730	--	< 1.9	< 2.0	< 2.0	< 2.0	< 2.0	4.3	< 2.0
Potassium	--	--	--	--	33,400	37,700 J	31,500 J	3,350 J	15,900 J	22,700 J	2,200 J
Selenium	--	50	180	50	< 4.0	< 4.0	< 4.0	4.1	< 4.0	< 4.0	< 4.0
Sodium	1,524,588	160,000	--	--	174,000	176,000	80,700	33,300	35,900	36,200	24,200
Thallium	--	2	--	2	< 9.5	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8
Vanadium	6	49	260	--	< 1.4	< 0.76	< 0.76	2.3	2.9	23.5	0.79
Zinc	5.8	5,000	11,000	--	< 2.4	< 2.7	< 3.8	< 6.7	< 7.1	20.5	< 9.0
(USEPA 9012A) µg/L											
Cyanide, Total	2	200	--	--	< 10	12.0 J	29.0 J	< 3.3	< 10	13.9 J	8.4 J
See notes at end of table.											

TABLE 5-9 (Continued)
Groundwater Analytical Results Summary for Inorganics

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	Background d Screening	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-47-GW-							
					DPW20S	DPW21S	DPW22S	DPW23S	DU07	DPW23I	DPW23D	
					Mar-01	May-01	May-01	Jun-01	Jun-01	Jun-01	Jun-01	
<u>Metals (USEPA 6010B) µg/L</u>												
Antimony	--	6	15	6	< 5.0	< 5.0	<5.0	4.4	2.5	2.9	<2.1	
Arsenic	5.3	50	0.045	50	< 2.4	< 2.4	< 7.9	< 8.3	< 7.9	< 10.5	< 1.7	
Barium	37.8	2,000	2,600	2,000	6.8	6	6.4	58.7	60.3	32.9	6.3	
Calcium	226,125	--	--	--	107,000	46,300	69,600	35,100	36,100	21,800	61,100	
Chromium	--	100	110	100	< 1.4	< 1.4	< 1.4	< 0.67	< 0.67	< 0.67	2.6	
Cobalt	--	420	2,200	--	< 1.3	1.5	<1.3	5.9	5.7	4.1	<0.73	
Iron	494	300	11,000	--	1,420	404	728	1,180	1,250	509	1,090	
Magnesium	184,393	--	--	--	18,500	10,900	8,330	2,460	2,550	1,830	125,000	
Manganese	141	50	880	--	42.2	60.7	29	37.6	40	42.6	68	
Mercury	0.16	2	11	2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Molybdenum	--	35	180	--	4.2	< 2.7	< 2.7	< 2.6	< 2.4	< 2.5	< 0.82	
Nickel	--	100	730	--	< 1.5	< 1.9	< 3.9	< 6.0	< 5.3	< 3.8	< 0.98	
Potassium	--	--	--	--	5,850	3,000	2,340	1,620	1,700	1,100	97,000	
Selenium	--	50	180	50	< 4.2	< 4.2	< 4.2	< 2.2	< 2.2	< 2.2	< 2.2	
Sodium	1,524,588	160,000	--	--	51,700	16,300	25,800	7,010	7,430	3,990	1,140,000	
Thallium	--	2	--	2	< 8.0	<8.0	< 8.0	< 4.8	< 4.8	6.8	6.8	
Vanadium	6	49	260	--	< 0.89	< 0.89	< 0.89	< 1.1	< 1.0	< 0.93	< 2.8	
Zinc	5.8	5,000	11,000	--	89.8 J	< 3.8	<10.5	101 J	103 J	42.9 J	<0.84	
<u>(USEPA 9012A) µg/L</u>												
Cyanide, Total	2	200	--	--	< 10	< 10	< 10	< 10	< 7.0	< 10	< 10	
See notes at end of table.												

TABLE 5-9 (Continued)
Groundwater Analytical Results Summary for Inorganics

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	Background Screening	FDEP GCTL*	USEPA Region IX PRG	USEPA MCL	MPT-53-GW-			MPT-FP-GW-			
					DPW01S	DPW02S	DPW03S	DPW01S	DUP-01	DPW01I	DPW01D
					Dec-00	Dec-00	Dec-00	Mar-01	Mar-01	Mar-01	Mar-01
Metals (USEPA 6010B) µg/L											
Antimony	--	6	15	6	< 3.1	< 4.3	< 3.1	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	5.3	50	0.045	50	< 3.2	< 3.6	< 3.2	4.2	3.8	< 2.4	< 2.4
Barium	37.8	2,000	2,600	2,000	7.5	20.6	11.4	15.5	15.4	3.3	1.7
Calcium	226,125	--	--	--	128,000	155,000	85,500	125,000	129,000	47,200	13,800
Chromium	--	100	110	100	3	< 2.0	1.6	< 1.4	< 1.4	< 1.4	< 1.4
Cobalt	--	420	2,200	--	< 0.83	< 2.2	< 0.83	< 1.3	< 1.3	< 1.3	< 1.3
Iron	494	300	11,000	--	717	4,010	234	7,850	8,100	499	61.1
Magnesium	184,393	--	--	--	35,500	16,700	26,800	24,200	25,000	18,400	19,100
Manganese	141	50	880	--	131	60.7	67.8	292	300	14.3	< 3.9
Mercury	0.16	2	11	2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	--	35	180	--	< 3.9	< 1.9	< 3.9	20.2	19.7	< 2.7	< 2.7
Nickel	--	100	730	--	< 2.0	< 1.9	< 2.0	1.6	2	< 1.5	1.8
Potassium	--	--	--	--	11,100 J	5,790	15,000 J	8,710	8,960	10,300	33,200
Selenium	--	50	180	50	< 4.0	< 4.3	< 4.0	< 4.2	< 4.2	< 4.2	< 4.2
Sodium	1,524,588	160,000	--	--	80,200	15,500	76,400	101,000	102,000	18,800	251,000
Thallium	--	2	--	2	< 6.8	< 9.5	< 6.8	< 8.0	< 8.0	< 8.0	< 8.0
Vanadium	6	49	260	--	1.7	< 1.4	< 0.76	< 0.89	< 0.89	2.8	1.1
Zinc	5.8	5,000	11,000	--	< 4.6	< 3.1	14.7	< 3.7	< 9.6	< 2.1	< 7.7
(USEPA 9012A) µg/L											
Cyanide, Total	2	200	--	--	< 3.3	< 10.0	5.4 J	< 10	< 10	< 10	< 10
Notes:											
FDEP GCTLs, Chapter 62-770, FAC											
Bold indicates value exceeding acceptance levels.											
< - Analytical result is less than the method detection limit											
J - Estimated value											

Semivolatile Organic Compounds

Bis(2-ethylhexyl)phthalate was the only SVOC detected above FDEP standards. The lone sample in which an exceedance of this compound was reported, was collected from a monitoring well (MPT-FP-DPW01D) located at Foxtrot Pier screened in the deep zone of the surficial aquifer (approximately 45 to 50 ft bls). Bis(2-ethylhexyl)phthalate was not detected in the shallow monitoring well (5 to 15 ft bls) or the intermediate monitoring well (25 to 30 ft bls) nested with the deep well.

Inorganics

Iron, manganese, sodium, and thallium were detected above FDEP standards in the groundwater samples collected at Group IV. The majority of the results for iron and manganese were above FDEP GCTLs. Both are naturally occurring and are prevalent in the groundwater at NAVSTA Mayport. The background screening levels for each are significantly higher than their respective FDEP standards. There were significantly fewer detections of iron and manganese above their respective background screening values than their respective FDEP standards.

Sodium is similar to iron and manganese in that it is prevalent in the groundwater at NAVSTA Mayport and has a background screening value far in exceedance of the FDEP standard. Unlike iron and manganese, there were only four samples with results exceeding the FDEP standard and none exceeded the background screening value.

Thallium was detected in three groundwater samples collected at Group IV. Although thallium was reported at elevated levels in only three samples, additional exceedances potentially exist because the method detection limit used by the laboratory exceeds the FDEP standard. Thallium was not detected in any subsurface soil samples collected in the locations where the monitoring wells were installed; therefore, leaching from the soil matrix does not appear as a likely source. Additional potential sources of thallium are unknown.

5.3.2 SMWU 55 (Stormwater Sewer System)

5.3.2.1 Surface Soil Results

Nine surface soil samples were collected within the storm sewer system based on results of a 1997 ABB-ES sampling event (ABB-ES, 1999). The 1999 sampling event was conducted to address physical defects identified during pipeline video and visual inspections storm sewer, and sanitary sewer systems at NAVSTA Mayport. One surface soil sample (MPT-55-SS06-01) is included in the AOC C RFI data set and is not discussed in this report; however, PCBs and SVOCs were detected above FDEP residential

criteria. Target analytes detected in the surface soil samples include VOCs, SVOCs, PCBs, and inorganics. The surface soil analytical results are presented in Table 5-10.

5.3.2.1.1 Volatiles

One VOC was detected in the surface soil samples collected from the stormwater sewer system. No VOC compounds were detected above benchmark values.

5.3.2.1.2 Semivolatile Organic Compounds

Ten SVOCs were detected in the surface soil samples collected from the stormwater sewer system. No values were reported above benchmark concentrations.

5.3.2.1.3 Pesticides

One pesticide was detected in the surface soil samples collected from the stormwater sewer system. There were no detections above benchmark values.

5.3.2.1.4 Polychlorinated Biphenyls

One PCB was detected in in the surface soil samples collected from the stormwater sewer system. There were no detections above benchmark values.

5.3.2.1.5 Inorganics

Eighteen inorganics were detected in the surface soil samples collected in the stormwater sewer system. There are established background screening values for six of the analytes, all of which were detected above background screening values. Arsenic was the only analyte reported at concentrations above the residential FDEP SCTL (0.8 µg/kg) in samples MPT-55-SS01-01 (0.92 µg/kg), MPT-55-SS04-01 (0.83 µg/kg), and MPT-55-SS08-01 (1.3 µg/kg). Arsenic was also detected above the USEPA Region IX PRG (0.39 mg/kg) in every surface soil sample collected at SWMU 55. There were no detections above the FDEP SCTL or USEPA Region IX PRG industrial value. There is not a background screening value for arsenic in the surface soil.

TABLE 5-10										
Surface Soil Analytical Results Summary										
Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida										
Detected Analyte	Background Screening Values ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	FDEP SCTL Leaching ²	USEPA Region IX PRG Res.	USEPA Region IX PRG Ind.	MPT-55-SS-			
							01-01	02-01	03-01	04-01
							31-Jul-00	31-Jul-00	31-Jul-00	31-Jul-00
VOCs (USEPA Method SW846 8260B) µg/kg										
Acetone	--	780,000	5,500,000	2,800	1.6E + 03	6.2E + 03	< 25	< 24	< 24	< 30
SVOCs (USEPA Method 846 8270C) µg/kg										
Bis(2-ethylhexyl)phthalate	--	76,000	280,000	3,600,000	3.5E + 01	1.8E + 02	< 340	< 360	< 350	140 J
Benzo(a)anthracene	--	1,400	5,000	3,200	6.2E - 01	2.9E + 00	< 340	< 360	< 350	55 J
Benzo(a)pyrene	--	100	500	8,000	6.2E - 02	2.9E - 01	< 340	45 J	< 350	89 J
Benzo(b)fluoranthene	--	1,400	4,800	10,000	6.2E - 01	2.9E + 00	< 340	84 J	< 350	180 J
Benzo(g,h,i)perylene	--	2,300,000	41,000,000	32,000,000	--	--	< 340	< 360	< 350	120 J
Benzo(k)fluoranthene	--	15,000	52,000	25,000	6.2E + 00	2.9E + 01	< 340	< 360	< 350	84 J
Chrysene	--	140,000	450,000	77,000	6.2E + 01	2.9E + 02	< 340	< 360	< 350	100 J
Fluoranthene	--	2,900,000	48,000,000	1,200,000	2.3E + 03	3.0E + 04	< 340	70 J	< 350	150 J
Indeno(1,2,3-cd)pyrene	--	1,500	5,300	28,000	6.2E - 01	2.9E + 00	< 340	< 360	< 350	95 J
Pyrene	--	2,200,000	37,000,000	880,000	2.3E + 03	5.4E + 04	< 340	< 360	< 350	120 J
Pesticides (USEPA Method SW846 8081A) µg/kg										
4,4'-DDE	1.385	3,300	13,000	18,000	1.7E + 00	1.2E + 01	< 1.8	< 1.8	< 1.8	< 2
PCBs (USEPA Method SW846 8082) µg/kg										
Aroclor-1260	--	500	2,100	17,000	2.2E - 01	1.0E + 00	< 34	< 36	< 35	< 38
See notes at end of table.										

TABLE 5-10 (Continued)
Surface Soil Analytical Results Summary

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	Background Screening Values ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	FDEP SCTL Leaching ²	USEPA Region IX PRG Res.	USEPA Region IX PRG Ind.	MPT-55-SS-			
							05-01	07-01	08-01	09-01
							01-Aug-00	01-Aug-00	01-Aug-00	03-Aug-00
VOCs (USEPA Method SW846 8260B) µg/kg										
Acetone	--	780,000	5,500,000	2,800	1.6E + 03	6.2E + 03	< 24	< 25	< 26	8.8 J
SVOCs (USEPA Method 846 8270C) µg/kg										
Bis(2-ethylhexyl)phthalate	--	76,000	280,000	3,600,000	3.5E + 01	1.8E + 02	< 420	< 370	98 J	< 380
Benzo(a)anthracene	--	1,400	5,000	3,200	6.2E - 01	2.9E + 00	< 420	< 370	< 370	< 380
Benzo(a)pyrene	--	100	500	8,000	6.2E - 02	2.9E - 01	< 420	< 370	< 370	< 380
Benzo(b)fluoranthene	--	1,400	4,800	10,000	6.2E - 01	2.9E + 00	< 420	< 370	< 370	< 380
Benzo(g,h,i)perylene	--	2,300,000	41,000,000	32,000,000	--	--	< 420	< 370	< 370	< 380
Benzo(k)fluoranthene	--	15,000	52,000	25,000	6.2E + 00	2.9E + 01	< 420	< 370	< 370	< 380
Chrysene	--	140,000	450,000	77,000	6.2E + 01	2.9E + 02	< 420	< 370	< 370	< 380
Fluoranthene	--	2,900,000	48,000,000	1,200,000	2.3E + 03	3.0E + 04	< 420	< 370	< 370	< 380
Indeno(1,2,3-cd)pyrene	--	1,500	5,300	28,000	6.2E - 01	2.9E + 00	< 420	< 370	< 370	< 380
Pyrene	--	2,200,000	37,000,000	880,000	2.3E + 03	5.4E + 04	< 420	< 370	< 370	< 380
Pesticides (USEPA Method SW846 8081A) µg/kg										
4,4'-DDE	1.385	3,300	13,000	18,000	1.7E + 00	1.2E + 01	< 2.2	2.7	< 1.9	< 2
PCBs (USEPA Method SW846 8082) µg/kg										
Aroclor-1260	--	500	2,100	17,000	2.2E - 01	1.0E + 00	< 42	< 37	10 J	< 38
See notes at end of table.										

TABLE 5-10 (Continued)
Surface Soil Analytical Results Summary

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	Background Screening Values ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	FDEP SCTL Leaching ²	USEPA Region IX PRG Res.	USEPA Region IX PRG Ind.	MPT-55-SS-			
							01-01	02-01	03-01	04-01
							Jul-00	Jul-00	Jul-00	Jul-00
Metals (USEPA Method SW846 6010B) mg/kg										
Aluminum	--	72,000	--	--	76,000	100,000	594 J	759 J	909 J	1970 J
Antimony	--	26	240	5	31	820	< 0.45	< 0.47	< 0.45	< 0.50
Arsenic	--	0.8	3.7	29	0.39	2.7	0.92	0.46	0.48	0.83
Barium	5.5	110	87,000	1,600	5,400	100,000	9.1	8.5	4.8	13.2
Cadmium	1.1	75	1,300	8	37	810	0.09 J	0.19	< 0.04	0.43
Calcium	--	--	--	--	--	--	46,300	20,300	45,900	18,700
Chromium	2.6	210	420	38	30	64	2.3 J	3.4	1.8 J	5.1
Cobalt	--	4,700	110,000	--	4,700	100,000	0.4	0.31	< 0.23	0.46
Copper	0.69	110	76,000	--	2,900	76,000	50.7 J	6.7 J	2.5 J	13.7 J
Iron	--	23,000	480,000	--	23,000	100,000	1,260	848	667	991
Lead	--	400	920	--	400	1,000	6.1	13.2	3.6	10.6
Magnesium	--	--	--	--	--	--	452	295	276	255
Manganese	--	1,600	22,000	--	1,800	32,000	12.6	14.8	20.1	20
Mercury	--	3.4	26	2.1	23	610	< 0.02	< 0.02	< 0.02	< 0.02
Molybdenum	--	390	9,700	--	--	--	< 0.20	< 0.21	< 0.20	0.27
Potassium	--	--	--	--	--	--	63.8	52.7	67.2	65.1
Sodium	--	--	--	--	--	--	< 382	< 121	< 429	< 147
Vanadium	3.4	15	7,400	980	550	14,000	2.2	2.8	1.9	7
Zinc	2.7	23,000	560,000	6,000	23,000	100,000	30.6 J	36.6 J	14.1 J	94.4 J

See notes at end of table.

TABLE 5-10 (Continued)
Surface Soil Analytical Results Summary

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Detected Analyte	Background Screening Values ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	FDEP SCTL Leaching ²	USEPA Region IX PRG Res.	USEPA Region IX PRG Ind.	MPT-55-SS-			
							05-01	07-01	08-01	09-01
							01-Aug-00	01-Aug-00	01-Aug-00	03-Aug-00
Metals (USEPA Method SW846 6010B) mg/kg										
Aluminum	--	72,000	--	--	76,000	100,000	365 J	467 J	1760 J	193 J
Antimony	--	26	240	5	31	820	< 0.55	< 0.48	< 0.49	< 0.50
Arsenic	--	0.8	3.7	29	0.39	2.7	0.56	0.55	1.3	0.42
Barium	5.5	110	87,000	1,600	5,400	100,000	3.5	6	16.8	2.7
Cadmium	1.1	75	1,300	8	37	810	0.09 J	0.07 J	1.3	< 0.05
Calcium	--	--	--	--	--	--	34,700	53,800	13,300	3,460
Chromium	2.6	210	420	38	30	64	2.3	2.3 J	10.6	< 1.4
Cobalt	--	4,700	110,000	--	4,700	100,000	< 0.28	< 0.25	1.2	< 0.26
Copper	0.69	110	76,000	--	2,900	76,000	3.0 J	4.8 J	36.4 J	< 0.38
Iron	--	23,000	480,000	--	23,000	100,000	683	569	2,950	366
Lead	--	400	920	--	400	1,000	32.6	9.1	80.9	0.79
Magnesium	--	--	--	--	--	--	332	340	714	102
Manganese	--	1,600	22,000	--	1,800	32,000	9.2	7.0 J	32.9	4.2
Mercury	--	3.4	26	2.1	23	610	< 0.02	< 0.02	0.29	< 0.02
Molybdenum	--	390	9,700	--	--	--	< 0.24	< 0.21	< 0.21	< 0.22
Potassium	--	--	--	--	--	--	39.6	63.9	139	30
Sodium	--	--	--	--	--	--	< 141	1100	< 113	< 78.5
Vanadium	3.4	15	7,400	980	550	14,000	2.1	1.9 J	4.4	0.97
Zinc	2.7	23,000	560,000	6,000	23,000	100,000	15.2 J	19.4 J	323 J	< 1.7
Notes:										
¹ Background Screening Concentrations, Recalculation of Background Concentrations, TtNUS, 2000										
² FDEP SCTLs, Chapter 62-777, FAC										
< = Constituent concentration is less than the detection limit.										
J = Indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit.										
-- = no defined target value										
BOLD = Items exceed target levels.										
Res. = Residential										
Ind. = Industrial										

5.3.2.1.6 Interpretation of Results

One VOC, 10 SVOCs, one pesticide, one PCB, and 18 inorganics were detected in the stormwater conveyance soil samples collected at Group IV. There were no VOCs, SVOCs, pesticides, or PCBs detected in the surface soil samples above FDEP standards. The only inorganic analytical fraction exceeding FDEP standards is discussed below.

Inorganics

Arsenic was the only inorganic detected in surface soil samples above the FDEP residential SCTL of 0.8 mg/kg. Arsenic was detected in samples MPT-55-SS01-01 (0.92 mg/kg), MPT-55-SS04-01 (0.83 mg/kg), and MPT-55-SS08-01 (1.3 mg/kg). Arsenic appears to be pervasive in the surface soil at NAVSTA Mayport, which is common in Florida where arsenic is naturally occurring.

5.3.2.2 **Surface Water Sampling Results**

Three surface water samples were collected within the storm sewer system at locations shown on Figure 5-4. Target analytes detected in the surface soil samples included VOCs, SVOCs, and inorganics. The surface water analytical results are presented in Table 5-11.

5.3.2.2.1 Volatiles

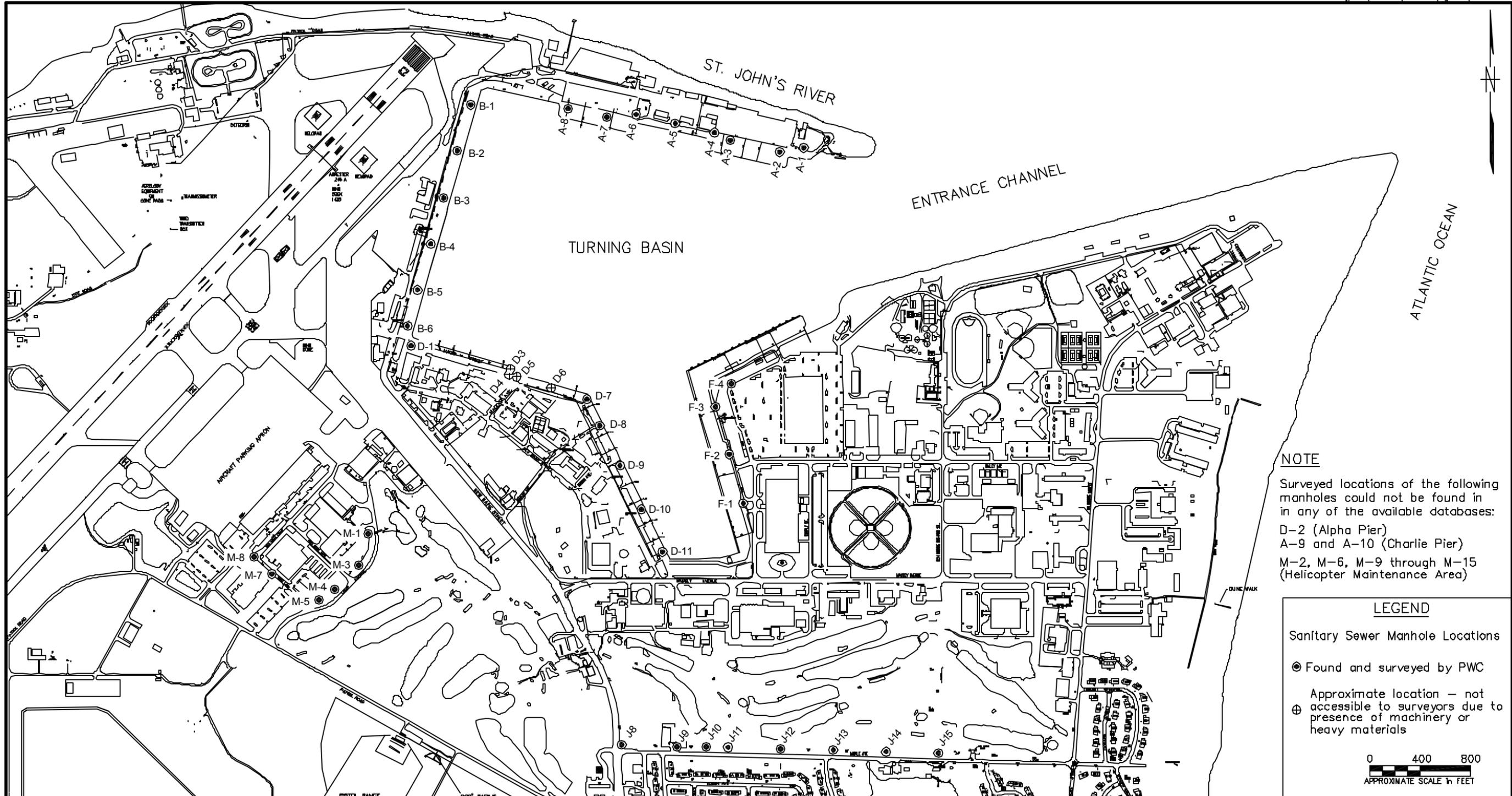
Three VOCs were detected in the surface water samples collected from the stormwater collection system. None of the reported values exceeded regulatory benchmark values.

5.3.2.2.2 Semivolatile Organic Compounds

Four SVOCs were detected in the surface water samples collected from the stormwater collection system. Aniline and phenol, detected in sample MPT-55-SW01-01 at 11 and 12 µg/L, respectively, were the only two SVOCs detected above FDEP Surface Water Cleanup Target Levels (SWCTLs) of 4 and 6.5 µg/L, respectively.

5.3.2.2.3 Inorganics

Eighteen inorganics were detected in the surface water samples collected from the stormwater collection system. Aluminum, detected in sample MPT-55-SW-02-01 (4,330 µg/L) and MPT-55-SW-03-01 (1,910 µg/L), was the only inorganic analyte detected above the FDEP SWCTL (13 µg/L).



NOTE
 Surveyed locations of the following manholes could not be found in any of the available databases:
 D-2 (Alpha Pier)
 A-9 and A-10 (Charlie Pier)
 M-2, M-6, M-9 through M-15 (Helicopter Maintenance Area)

LEGEND

Sanitary Sewer Manhole Locations

- Found and surveyed by PWC
- ⊕ Approximate location – not accessible to surveyors due to presence of machinery or heavy materials

0 400 800
APPROXIMATE SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES	DRAWN BY	DATE	 <p align="center"> MEDIA SAMPLING LOCATIONS WITHIN THE STORMWATER COLLECTION NETWORK GROUP IV RCRA FACILITY INVESTIGATION NAVAL STATION MAYPORT MAYPORT, FLORIDA </p>	CONTRACT NO.	APPROVED BY	DATE	
							LLK	01/12/04		0123			
							COST/SCHED-AREA			DRAWING NO.	FIGURE 5-4	REV.	0
							SCALE AS NOTED						

TABLE 5-11
Surface Water Analytical Results Summary

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	Background Screening Value	FDEP SWCTL	MPT-55-SW-		
			01-01	02-01	03-01
			01-Aug-00	03-Aug-00	03-Aug-00
Detected VOCs (USEPA 8260B) µg/L					
Acetone	--	1,692	39J	12J	7.9J
Carbon Disulfide	--	105	0.37J	<1	<1
2-Butanone	--	120,000	4.8J	<10	<10
Detected SVOCs (USEPA 8270C) µg/L					
Aniline	--	4	11	<10	<10
Phenol	--	6.5	12	<10	<10
3-Methylphenol	--	445	18	<10	<10
4-Methylphenol	--	70	18	<10	<10
Metals (USEPA 6010B) µg/L					
Aluminum	--	13	<192	4,330	1,910
Arsenic	6.2	50*	38.5	8.2	6.1
Barium	22.6	--	55.2	27.7	29.5
Cadmium	3.2	--	0.33	<0.3	<0.3
Calcium	282,176	--	116,000	77,200	81,800
Chromium	5	11*	<1.8	6.5	<2.6
Copper	27.4	500*	9.8	4.3	3.5
Iron	452	--*	3,150	2,490	775
Lead	2.6	50*	6.9	7.9	9.1
Magnesium	671,150	--	4,740	16,600	23,700
Manganese	83.4	--	450	97	45.1
Molybdenum	--	--	4.6	3.2	2.7
Potassium	--	--	3,180	8,880	13,100
Selenium	11.6	--	<4.9	5.8	<4.9
Sodium	766,000	**	7,130	140,000	209,000
Thallium	75.6	--	6.6	6.4	6.6
Vanadium	8	--	<2.4	15	17.9
Zinc	4	1,000	56	24.2	30.8

Notes:
 BSC, Technical Memorandum, TtNUS, 2000 **BOLD** = Items exceed target levels.
 FDEP SWCTLs, Chapter 62-777, FAC < = Constituent concentration is less than the detection limit.
 J = Indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit.
 * = based on the Class V (Navigation, Utility, and Industrial Use) Criteria for Surface Water Quality Classifications; Chapter 62-302, FAC
 ** = shall not exceed 4,000, per Chapter 62-302, FAC
 -- = no defined target value

5.3.2.2.4 Interpretation of Results

Two SVOCs and one inorganic were reported at values exceeding FDEP standards in the surface water samples at SWMU 55. Each is discussed below.

Semivolatiles

Aniline and phenol were detected above FDEP standards in a surface water sample collected at SWMU 55. The sample was located south of the intersection of Massey Avenue and Bon Homme Richard Street near the old gas station and bordering the golf course. The sources of each are unknown; however, they most likely originated from the old gas station or golf course. Neither is persistent in surface water; therefore, concentrations above FDEP standards are not likely to be persistent.

Inorganics

Aluminum was detected above FDEP standards in two samples collected at SWMU 55. Both samples were collected in the Echo Pier retention basin network. Surface water in the retention basins originates from runoff of the surrounding areas and stormwater collection grates located along Echo Pier and the Echo/Foxtrot Pier parking area. The retention basins are dry for significant periods of the year. Aluminum in the sediment samples did not exceed the FDEP soil standards. The source of aluminum in the surface water is not known.

5.3.2.3 Sediment Sampling Results

Three sediment samples were collected within the storm sewer system at locations shown in Figure 5-4. All three samples were collected in the retention pond network at Echo Pier. The retention ponds are dry for a significant part of the time; therefore, the analytical results will be compared to surface soil and sediment benchmark values. Target analytes detected in the samples included VOCs, SVOCs, and inorganics. The analytical results are presented in Table 5-12.

5.3.2.3.1 Volatiles

Acetone was the only VOC detected in the sediment samples collected from the stormwater collection system. It was not detected above regulatory benchmark values.

**TABLE 5-12
Sediment Analytical Results Summary**

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	Background Screening Values (sediment) ¹	USEPA Region IV Sediment Screening Values	Background Screening Values (surface soil) ¹	FDEP SCTL Res. ²	FDEP SCTL Ind. ²	MPT-55-SD-			
						01-01	02-01	03-01	
						Aug-00	Aug-00	Aug-00	
Detected VOCs (USEPA 8260B) µg/L									
Acetone	--	--	--	--	--	14J	< 36	< 25	
Detected SVOCs (USEPA 8270C) µg/L									
Diethyl Phthalate	--	--	--	54,000	920,000	< 430	1800	< 410	
Detected Pesticides (USEPA 8081A) µg/L									
4,4'-DDE	--	3.3	--	3.3	13	< 2.2	2.8J	< 2.1	
Metals (USEPA 6010B) mg/kg									
Aluminum	--	--	--	72,000	--	240J	1,980J	344J	
Arsenic	18	7.24	--	0.8	3.7	0.71	1.7	0.81	
Barium	33.6	--	5.5	110	87,000	2.3	7.8	4.5	
Calcium	--	--	--	--	--	14,700	28,000	59,500	
Chromium	52.8	52.3	2.6	210	420	1.7	4.0	2.4J	
Cobalt	12.2	--	--	4,700	110,000	< 0.29	0.47	< 0.27	
Copper	184	18.7	0.69	110	76,000	4.7J	5.3J	< 0.94	
Iron	--	--	--	23,000	480,000	430	2100	569	
Lead	26	30.2	--	400	920	6.3	4.7	2.6	
Magnesium	--	--	--	--	--	80.8	542	788	
Manganese	--	--	--	1,600	22,000	10.8	25.1	16.4	
Molybdenum	--	--	--	390	9,700	< 0.25	0.54	< 0.23	
Potassium	--	--	--	--	--	24.5	144	53.1	
Selenium	--	--	1.2	--	--	< 0.56	0.87	< 0.53	
Sodium	--	--	--	--	--	< 131	< 366	516	
Vanadium	56.4	--	3.4	15	7,400	1.5	5.1	2.0J	
Zinc	137.4	124	2.7	23,000	560,000	7.6J	21.0J	8.2J	
Notes:									
¹ BSC, Technical Memorandum, TtNUS, 2000			² FDEP SCTLs, Chapter 62-777, FAC			-- = no defined target value			Ind. = Industrial
J = Indicates the presence of a chemical at a concentration less than the reporting limit and greater than the method detection limit.						Res. = Residential			
< = Constituent concentration is less than the detection limit.						Bolded values are above residential criteria.			

5.3.2.3.2 Semivolatile Organic Compounds

Diethyl phthalate was the only SVOC detected in the sediment samples collected from the stormwater collection system. There were no exceedances of FDEP criteria.

5.3.2.3.3 Inorganics

Seventeen inorganics were detected in the sediment samples collected from the stormwater collection system. None of the inorganics were detected above USEPA Group IV Sediment Screening Values.

The samples were also compared to regulatory comparison values for surface soils because these locations are dry for extended periods throughout the year. There were five analytes (barium, chromium, copper, vanadium, and zinc) with detections above background screening values for surface soil. One analyte (arsenic) was detected above FDEP SCTLs. Arsenic was detected in sample MPT-55-SD02-01 (1.7 mg/kg) above the FDEP residential SCTL value of 0.8 mg/kg, but below the industrial value of 3.7 mg/kg.

5.3.2.3.4 Interpretation of Results

There were no detections in the sediment samples above benchmark values for sediment standards. However, the retention basin in which the sample was collected is dry for extended periods of the year. Consequently, the analytical results were compared to FDEP surface soil standards. There was one inorganic analyte detected in a sample that occurred above FDEP standards. The inorganic analytical fraction is discussed below.

Inorganics

Arsenic was detected in one sample above FDEP industrial values for surface soil. As discussed in Section 5.3.1.1.3, arsenic appears to be pervasive in the surface soil at NAVSTA Mayport and is naturally occurring in Florida soils.

6.0 HUMAN HEALTH RISK ASSESSMENT

The purpose of the human health risk assessment (HHRA) is to characterize the risks to humans associated with the potential exposures to chemicals in surface soil, subsurface soil, groundwater, surface water, and sediment. This HHRA is conducted in accordance with applicable USEPA and FDEP guidance documents.

The methodology for the HHRA consists of the following five steps:

- Data evaluation
- Selection of chemicals of potential concern (COPCs)
- Exposure assessment
- Toxicity assessment
- Risk characterization (including uncertainty analysis)

Collectively, these components are used to identify significant site-related contaminants, known as COPCs, and estimate the potential magnitude of exposure and risk associated with these contaminants.

Appendix F provides supporting HHRA information and calculations. Note that tables in Appendix F are numbered in accordance with the requirements of *Risk Assessment Guidance for Superfund: Volume I, Human Health Evaluation Manual (Part D, Standardized Planning, Reporting, and Review of Superfund Risk Assessments)* (USEPA, 1998a) and, therefore, are not necessarily referred to in sequential order in this chapter.

6.1 DATA EVALUATION

The data evaluation involves numerous activities, including sorting the data by medium, evaluating the quality of data with respect to qualifiers and codes, and developing a data set for use in risk assessment.

Data for this HHRA consisted of analytical results for surface soil, subsurface soil, surface water, sediment, and groundwater samples collected during the investigation for this report. Surface water and sediment samples were collocated. For groundwater, unfiltered samples were collected and analyzed. Risk estimates for groundwater were based on the analytical data collected during the most recent sampling effort in 2000 and 2001. Groundwater data from older investigation in 1997 were not used for the risk evaluation. The Data Quality Objectives (DQOs) for collecting environmental samples and conducting laboratory analyses are described in the RCRA Facility Assessment Sampling Visit Work Plan

SWMUs 47, 53, and 55 (TtNUS, 1999). Sample collection and analysis followed documented QA/QC procedures as described in the approved GIR (ABB-ES, 1995).

Chemical analyses were performed in accordance with SW-846 methodologies. The analytical results were evaluated, using the National Functional Guidelines (USEPA, 1994a and 1994b) to assess data usability and the laboratory's compliance with the analytical methodology. The analytical data were reviewed, validated, and evaluated using the criteria specified in the DQOs. All validated data (and qualifiers, as necessary) are presented in Appendix F. All unqualified positive detections and "J" qualified detections (estimated values) were considered as detected concentrations for this HHRA. All nondetects (indicated with a "U" qualifier) were retained in the HHRA data set. Any samples with a "UR" qualifier (indicating a rejected non-detect result) or "R" qualifier (indicating a rejected positive detection) were not included in the HHRA data set. Based upon the evaluation of the analytical data in conformance with the DQOs, the data presented in this report are acceptable for use in this HHRA.

For the 2000 groundwater sampling, DPT sampling locations and monitoring wells MPT-47-GW-DPW01 through MPT-47-GW-DPW23, MPT-53-GW-DPW01 through MPT-53-GW-DPW03, and MPT-G4-GW-01 through MPT-G4-GW-67 were included in Group IV. Additional monitoring wells were installed including MPT-47-DPW21S, MPT-47-DPW 22S, MPT-47-DPW 23S, MPT-47-DPW I, MPT-47-DPW D, MPT-FP-DPW01S, MPT-FP-DPW I, and MPT-FP-DPW D. Surface soil samples were collected from sampling locations MPT-55-SS-01-01 through MPT-55-SS-09-01. Subsurface soil samples were collected from sampling locations MPT-G4-SU-01 through MPT-G4-SU-67. Surface water samples were collected from sampling locations G4W001, G4W003, G4W004, and MPT-55-SW-01 through MPT-55-SW-03. Sediment samples were collected from sampling locations G4D001 through G4D005, and MPT-55-SD-01 through MPT-55-SD-03.

The data evaluation included the calculation of basic descriptive statistics for each data set evaluated in the HHRA. Basic statistics included frequency of detection, range of positive detections, arithmetic mean, normal 95 percent Upper Confidence Level (UCL-N) on the mean, and log-normal 95 percent Upper Confidence Level (UCL-L) on the mean. Appendix F-12 provides the equations used to determine the UCL-L and the UCL-N on the mean.

6.2 SELECTION OF CHEMICALS OF POTENTIAL CONCERN FOR HHRA

COPCs for baseline human health risk assessment are limited to those chemicals that exceed a selection criterion. For this risk assessment, state risk-based and health-based criteria were used to reduce the number of chemicals and exposure routes considered in a risk assessment. The premise of this screening step is that risk is typically dominated by a few chemicals and that, although dozens may actually be detected, many chemicals may contribute minimally to the total risk.

FDEP guidelines and criteria were used to select COPCs (FDEP, 2000). For soil, surface water, sediment, and groundwater, COPCs were selected for each medium (e.g., arsenic in surface soil). The COPCs were defined as chemicals that were positively detected in an environmental medium at a maximum concentration exceeding background and screening values.

For each medium, the following criteria were used to exclude detected analytes from the list of COPCs. Each criterion by itself was justification for excluding the analyte:

- Infrequent Detection. Frequency of detection is defined as the number of samples in which the analyte is detected divided by the number of samples analyzed for that analyte. A chemical was considered a candidate for exclusion if (1) it had a low frequency of detection (e.g., less than 5 percent), (2) it was not detected in other sampled media or at high concentrations (i.e., contaminated “hot spots” do not exist), and (3) there was no reason to believe that the chemical may be present (USEPA, 1989). No chemicals were eliminated from this HHRA based on the frequency of detection screening criteria.
- Less than Background Screening Concentrations. If the maximum detected concentration of an analyte in a medium was less than twice the arithmetic mean of the background concentration (inorganics only), the analyte was not selected as a COPC (USEPA, 1995). The background screening values were taken from the *Recalculation of Media Background Screening Values Memorandum* (TtNUS, 2000).
- Less than Risk-Based Screening Concentrations, Standards, and Guidelines. If the maximum detected concentration of the analyte in a medium was less than its corresponding adjusted Florida risk-based screening concentrations, the analyte was not selected as a COPC. Florida risk-based screening concentrations were based on residential use and were taken from *Technical Report: Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, FAC* (prepared for the FDEP by Saranko et al., 2000). In the FDEP tables, the target cancer risk is 1×10^{-6} and the target hazard quotient (HQ) is 1. All screening levels based on noncarcinogenic effects were adjusted to represent a target HQ of 0.1 in accordance with FDEP guidance (FDEP, 2000). To make this adjustment, all risk-based screening levels for noncarcinogenic effects were divided by 10. All risk-based screening levels for carcinogenic effects were adjusted to account for cumulative cancer effects by dividing the screening level by the number of detected carcinogenic chemicals in accordance with FDEP guidance (FDEP, 2000). GCTLs based on Primary or Secondary Standards were not adjusted.

- Less than Essential Nutrient Screening Values. If the maximum detected concentration of an essential nutrient (i.e., calcium, magnesium, potassium, and sodium) in a medium was below a toxic level or consistent with or only slightly above its background concentration, the essential nutrient was not selected as a COPC. The derivation of essential nutrient screening values for calcium, magnesium, potassium, and sodium is presented in Appendix C-1 of the *Remedial Investigation and Feasibility Study, General Information Report, Naval Air Station Whiting Field, Milton, Florida* (ABB-ES, 1998). A copy of this derivation is provided in Appendix F-13.

USEPA Region IX Preliminary Remediation Goals were presented as a point of comparison, but were not used in the determination of COPCs.

Tables 2.1 through 2.5 in Appendix F-2 provide the basic descriptive statistics for analytes detected in each medium, identify which analytes were selected as COPCs, and present the COPC selection rationale. Appendix F-3, Tables 3.1 through 3.5, provide the EPC determinations for the COPCs in each medium.

6.2.1 COPCs for GROUP IV

Sections 6.2.1.1 through 6.2.1.5 identify Group IV COPCs in surface soil, subsurface soil, surface water, sediment, and groundwater, respectively. Arsenic, determined to be a COPC in all media except surface water in Group IV, was a component of herbicides that were commonly used in the past. VOCs were only determined to be COPCs in groundwater. SVOCs were found to be COPCs in all media, with carcinogenic polynuclear aromatic hydrocarbons (PAHs) in sediments and soils. Metals were also determined to be COPCs in all media. Pesticides were found to be COPCs in sediment and surface soil.

6.2.1.1 Surface Soil – GROUP IV

Location identification numbers for Group IV surface soil samples considered for Group IV COPCs are listed in Section 6.1. There were seven detected carcinogenic chemicals; therefore, the carcinogenic screening levels were divided by seven. Table 6-1 lists analytes selected as COPCs for surface soil at Group IV. The COPC selection process Group IV is summarized in Appendix F-2, Table 2.1. The following chemicals were identified as COPCs: benzo(a)pyrene (equiv), aroclor-1260, antimony, arsenic, and iron.

TABLE 6-1
Summary of Chemicals of Potential Concern

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

COPC	Surface Soil	Subsurface Soil	Sediments	Surface Water	Groundwater
1,1-Dichloroethane	no	no	no	no	yes
1,1-Dichloroethene	no	no	no	no	no
1,2-Dichloroethane	no	no	no	no	no
1,2-Dichloroethene (total)	no	no	no	no	yes
1,3-Dichlorobenzene	no	no	no	no	yes
1,4-Dioxane	no	no	no	no	no
2-Methylnaphthalene	no	no	no	no	no
4,4-DDT	no	no	no	no	no
4-Methylphenol	no	no	no	yes	no
Acenaphthene	no	no	no	no	yes
Aldrin	no	no	no	no	no
Aluminum	no	yes	no	yes	yes
Aniline	no	no	no	yes	no
Antimony	yes	no	no	no	no
Aroclor-1260	yes	no	no	no	no
Arsenic	yes	yes	yes	no	yes
Barium	no	no	yes	yes	no
Benzene	no	no	no	no	yes
Benzo(a)pyrene (equiv)	yes	yes	yes	no	no
beta-BHC	no	no	no	no	no
Bis(2-ethylhexyl)phthalate	no	no	no	yes	no
Bromodichloromethane	no	no	no	no	no
Butyl benzyl phthalate	no	no	no	yes	no
Cadmium	no	no	no	no	no
Carbazole	no	no	no	no	yes
Chlordane	no	no	yes	no	no
Chlorodibromomethane	no	no	no	no	no
Chloroethane	no	no	no	no	yes
Chloroform	no	no	no	no	no
Chloromethane	no	no	no	no	yes
Chromium	no	no	yes	yes	no
Cis-1,2-dichloroethene	no	no	no	no	no
Copper	no	yes	yes	no	no
Cyanide	no	no	no	no	no
Dibenzofuran	no	no	no	no	no
Fluoranthene	no	no	no	no	no
Fluorene	no	no	no	no	no
gamma-BHC	no	no	no	no	no
Hexachlorobenzene	no	yes	no	no	no
Iron	yes	yes	no	yes	yes
Lead	no	no	yes	no	no
Magnesium	no	no	no	no	no
Manganese	no	yes	no	yes	yes
Mercury	no	no	yes	no	no
Molybdenum	no	no	no	yes	yes
Naphthalene	no	no	no	no	yes

TABLE 6-1 (Continued)
Summary of Chemicals of Potential Concern

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

COPC	Surface Soil	Subsurface Soil	Sediments	Surface Water	Groundwater
Nickel	no	no	no	no	no
Phenanthrene	no	no	no	no	no
Phenol	no	no	no	yes	yes
Pyrene	no	no	no	no	no
Pyridine	no	no	no	no	yes
Sodium	no	no	no	no	no
Sulfotepp	no	no	no	no	no
Tetrachloroethene	no	no	no	no	no
Thallium	no	no	no	no	yes
Trans-1,2-dichloroethene	no	no	no	no	no
Trichloroethene	no	no	no	no	no
Vanadium	no	yes	yes	yes	yes
Vinyl chloride	no	no	no	no	yes

Notes:

Bolded values indicate chemicals of potential concern.

BHC = hexachlorocyclohexane

6.2.1.2 Subsurface Soil – GROUP IV

Location identification numbers for subsurface soil samples considered for Group IV COPCs are listed in Section 6.1. There were six detected carcinogenic chemicals; therefore, the carcinogenic screening levels were divided by six. Table 6-1 lists analytes selected as COPCs at Group IV. The COPC selection process for subsurface soils in Group IV is summarized in Appendix F-2, Table 2.2. The following chemicals were identified as COPCs for Group IV subsurface soil: benzo(a)pyrene (equiv), hexachlorobenzene, aluminum, arsenic, chromium, copper, iron, manganese, and vanadium.

6.2.1.3 Surface Water – GROUP IV

Location identification numbers for surface water samples considered for Group IV COPCs are listed in Section 6.1. There were four detected carcinogenic chemicals; therefore, the carcinogenic screening levels were divided by four. Table 6-1 lists analytes selected as COPCs at Group IV. The COPC selection process for surface water is summarized in Appendix F-2, Tables 2.3. The following chemicals were identified as COPCs for Group IV surface water: 4-methylphenol, aniline, bis(2-ethylhexyl)phthalate, butyl benzyl phthalate, phenol, aluminum, barium, chromium, iron, manganese, molybdenum, and vanadium.

6.2.1.4 Sediment – GROUP IV

Location identification numbers for sediment samples considered for Group IV COPCs are listed in Section 6.1. There were eight detected carcinogenic chemicals; therefore, the carcinogenic screening levels were divided by eight. Table 6-1 lists analytes selected as COPCs at Group IV. The COPC selection process for sediment is summarized in Appendix F-2, Tables 2.4. The following chemicals were identified as COPCs for Group IV sediment: benzo(a)pyrene (equiv), chlordane, arsenic, barium, chromium, copper, lead, mercury, and vanadium.

6.2.1.5 Groundwater – GROUP IV

Location identification numbers for groundwater samples considered for Group IV COPCs are listed in Section 6.1. There were 12 detected carcinogenic chemicals; therefore, the carcinogenic screening levels were divided by twelve. Table 6-1 lists analytes selected as COPCs for groundwater at Group IV. The COPC selection process for groundwater in Group IV is summarized in Appendix F-2, Tables 2.5. The following chemicals were identified as COPCs for Group IV in groundwater: 1,1-dichloroethane; 1,2-dichloroethene (total); 1,3-dichlorobenzene; acenaphthene; aluminum; arsenic; benzene; carbazole;

chloromethane; iron; manganese; molybdenum; naphthalene; phenol; pyridine; thallium; vanadium; and vinyl chloride.

6.3 EXPOSURE ASSESSMENT

The exposure assessment was conducted to identify the pathways by which humans are potentially exposed, the magnitude of potential human exposure, and the frequency and duration of exposure. This process involves several steps:

- Characterization of the exposure setting in terms of physical characteristics and the populations that may potentially be exposed to site-related chemicals.
- Identification of potential exposure pathways and receptors.
- Quantification of exposure for each receptor in terms of the amount of chemical, which is either ingested, inhaled, or absorbed through the skin from all potentially complete exposure pathways.

6.3.1 Exposure Setting Characterization

Chapter 2.0 describes the regional and site-specific environmental setting of Group IV. The Group IV SWMUs are located throughout the developed part of NAVSTA Mayport. Much of the utility networks are in close proximity to the Turning Basin. The SWMUs in this group are related by the fact that they transport wastewater and petroleum-related liquids.

6.3.2 Identification of Potential Receptors and Exposure Pathways

The receptors to be evaluated were selected based on the current and plausible future use of the sites and surrounding areas. The property is currently being used for non-residential naval activities and is expected to remain non-residential for the foreseeable future.

The following five potential receptors were evaluated for Group IV assuming current and future land use scenarios.

- Military residents - Individuals who live on base with their families during their tour of duty at NAVSTA Mayport. Typically, a tour of duty is three years. These residents use groundwater extracted from NAVSTA Mayport's deep on-base water supply wells. The groundwater is treated using activated carbon at the wellhead. The screened interval for the on-base water supply wells is approximately 400 ft bls and is, therefore, not from the potentially contaminated shallow aquifer.

- Hypothetical future on-site residents - Individuals who may reside on the area of Group IV in the future. These residents may come into direct contact with contaminants in surface soils, surface water, and sediments, and may rely on the shallow groundwater aquifer as a domestic water supply. This scenario is considered unlikely but is included for purposes of completeness and to provide information to the risk managers.
- Trespassers - Individuals who may from time to time enter a site without proper authorization and come into contact with surface soil, surface water, or sediment. Exposure to authorized visitors is also considered under this scenario.
- Construction Workers - Individuals who may come into contact with surface soils, subsurface soils, surface water, sediment, or groundwater while excavating or performing construction activities near contaminated sites.
- Base Workers - Individuals who, during their 8-hour work shifts, may come into contact with surface soils, surface water, or sediment. Use of the shallow aquifer for a potable water supply was not considered likely for the same reasons listed for the military residents. Exposure of base workers is very task-dependant. For example, the exposure of office workers to site-related media may be much lower than the exposure of landscapers.

Hypothetical future adult and child (ages 1-6) on-site residents were quantified for purposes of completeness only. NAVSTA Mayport is an active Naval Base and expected to remain so in the foreseeable future.

A summary of the potential exposure pathways for the aforementioned receptors at Group IV are presented in Table 6-2. Information in these tables includes the scenario time frame, exposure medium, potentially exposed receptor population, exposure route, and the rationale for pathway selection or exclusion. Sections 6.3.2.1 through 6.3.2.5 describe the receptors potentially exposed to surface soil, subsurface soil, surface water, sediment, and groundwater, respectively.

6.3.2.1 Surface Soil

The receptors potentially exposed to surface soil are:

- **Hypothetical future on-site residents** who may directly contact contaminants in surface soils. These receptors were evaluated for purposes of completeness only, because the site is expected to remain non-residential.
- **Current and future base workers** who may come in contact with surface soils while performing work.
- **Current and future construction workers** who may come in contact with surface soils while performing excavation or construction work.
- **Current and future trespassers** who may come in contact with contaminated surface soils while visiting the site.

Exposures of hypothetical potential future residents (adult and child), current and future base workers, current and future construction workers, and current and future trespassers (combined adolescent and adult) to surface soil contaminants were evaluated in this HHRA. Incidental ingestion, dermal contact, and inhalation exposure routes were considered.

6.3.2.2 Subsurface Soil

The receptors potentially exposed to subsurface soil are:

- **Current and future construction workers** who may come in contact with subsurface soils while performing excavation or construction work.

Exposures of current and future construction workers to subsurface soil contaminants were evaluated in this HHRA. Incidental ingestion, dermal contact, and inhalation exposure routes were considered.

6.3.2.3 Surface Water

Surface water sampling was limited to the storm water drainage ditches. Much of Group IV is located in close proximity to the Mayport Turning Basin; however, an evaluation of COPCs in surface water and sediments of the Turning Basin is beyond the scope of this HHRA. This is primarily because the basin is dredged every 2 to 3 years for safe berthing of Navy ships. Dredged sediments are transferred through a

slurry pipeline to SWMU 50, the Western Dredge Spoil area. Data from any surface water or sediment sampling that would be collected for this investigation, and subsequent evaluation of human risks, would be unusable the next time the basin is dredged. The receptors potentially exposed to surface water are:

- **Hypothetical future residents** who may wade in the surface water. These receptors were evaluated for purposes of completeness only, because it is expected that the land will continue to be used as a naval base.
- **Current and future base workers** who may come in contact with surface water while performing work.
- **Current and future construction workers** who may come in contact with surface water while performing excavation or construction work.
- **Current and future trespassers** who may come in contact with contaminated surface water while visiting the site.

Hypothetical future residents (adult and child) exposed to surface water contaminants were evaluated in this HHRA. Incidental ingestion and dermal contact exposure routes were considered.

6.3.2.4 Sediment

The sediments sampled are those limited to the storm water drainage ditches. The water level may vary with rainfall; sediments are periodically exposed. The hypothetical future resident, base worker, construction worker, and trespasser may be potentially exposed to sediment; however, the exposure is likely to be minimal and is not quantified in this HHRA. Therefore, although COPCs were developed for sediment, risk due to exposure to sediment was not evaluated further in this risk assessment.

The Mayport Turning Basin is located adjacent to Group IV; however, the evaluation of risks as a result of exposure to surface waters and sediments in the Turning Basin is beyond the scope of the HHRA. This is primarily because the basin is dredged every 2 to 3 years for safe berthing of Navy ships. Dredged sediments are transferred through a slurry pipeline to SWMU 50, the Western Dredge Spoil area. Data from any surface water or sediment sampling that would be collected for this investigation, and subsequent evaluation of human risks, would be unusable the next time the basin is dredged.

6.3.2.5 Groundwater

The receptors potentially exposed to groundwater are:

- **Hypothetical future on-site residents** who may use groundwater from wells in the contaminated shallow aquifer. These receptors were evaluated for purposes of completeness only, because it is expected that the land will continue to be used as a naval base. In addition, drinking water is provided to the area from the NAVSTA Mayport's deep on-base water supply wells, and it is unlikely that hypothetical future residents would install domestic water supply wells in the shallow aquifer.
- **Current and future construction workers** who may come in contact with groundwater while performing excavation.

On-base water supply wells exist on NAVSTA Mayport and are used for groundwater supply to on-base military residents. The groundwater is extracted from approximately 400 ft bls and is treated. Therefore, exposure to the contaminated shallow aquifer is not considered for the military resident receptor, the base worker, or the trespasser.

6.3.3 Exposure Point Concentration

The Exposure Point Concentration (EPC) is the concentration of a COPC used to best estimate the intake. Ideally, the EPC should be the true average concentration within the exposure unit. However, because of the uncertainty associated with estimating the true average concentration at a site, the 95% upper confidence level (UCL) of the arithmetic mean is used as the EPC. If there were less than 10 samples, the maximum concentration was chosen as the EPC as the UCL does not provide a good estimation of the upper bound of the mean concentration for these small data sets. If there were more than 10 samples, each data set was evaluated using the Shapiro-Wilk W test (Gilbert, 1987) to determine if the dataset more closely reflected a normal or lognormal distribution. A lognormal distribution was assumed if the results were inconclusive. The 95 UCL-L and 95 UCL-N were calculated for each analyte in each medium and data set using one-half the reporting limit for nondetect results and the average for samples with duplicates. The UCL-N was used as the EPC if the Shapiro-Wilk W test indicated a normal distribution, and the UCL-L was used as the EPC if the Shapiro-Wilk W test indicated a lognormal distribution. If the calculated 95 UCL exceeded the maximum detected concentration, the maximum detected concentration was selected as the EPC. EPCs were calculated for analytes in surface soil, subsurface soil, surface water, sediment, and groundwater samples located in Group IV.

USEPA Region 4 guidance (USEPA, 1995) was followed to determine an equivalent benzo(a)pyrene EPC concentration to represent the carcinogenic PAHs. The Region 4 guidance uses a Toxicity

Equivalency Factor (TEF) methodology to convert each of the reported carcinogenic PAHs to benzo(a)pyrene equivalents. The equivalent benzo(a)pyrene EPC is referred to as benzo(a)pyrene (equiv) EPC in this HHRA. The following TEFs were used to convert each PAH concentration to a benzo(a)pyrene (equiv) concentration: (1) benzo(a)pyrene, TEF = 1.0; (2) benzo(a)anthracene, TEF = 0.1; (3) benzo(b)fluoranthene, TEF = 0.1; (4) dibenzo(a,h)anthracene, TEF = 1.0; (5) benzo(k)fluoranthene, TEF = 0.01; (6) chrysene, TEF = 0.001; and (7) indeno(1,2,3-cd)pyrene, TEF = 0.1. If any of the carcinogenic PAHs were detected at a sample location, the benzo(a)pyrene (equiv) concentration was calculated for that location by multiplying the concentration of each carcinogenic PAH by the appropriate TEF and summing the resultant values. If any of the carcinogenic PAHs were below detection limits at that sample location, half the detection limit of that PAH was used as a surrogate concentration. If all of the carcinogenic PAHs were below detection limits at a sample location, the benzo(a)pyrene (equiv.) concentration was calculated by multiplying half the detection limit for each carcinogenic PAH by the appropriate TEF and summing the resultant values.

6.3.4 Exposure Quantification

6.3.4.1 Base Workers

Base workers are those individuals, other than construction workers, who work at Group IV and may come into contact with contaminated environmental media. Table 4.1 in Appendix F-4 provides exposure dose equations used to estimate chemical intake for base workers exposed to surface soil. Table 4.2 in Appendix F-4 provides exposure dose equations used to estimate chemical intake for base workers exposed to surface water. Where available, the exposure assumptions used in the equations were those suggested by standard USEPA guidance documents. Tables 4.1 and 4.2 provide a reference for each exposure assumption. Exposure assumptions that are not standard USEPA values include the following:

- An exposure time of 1.0 hour per event was assumed because no standard USEPA parameter was found for exposure time for ingestion of surface water during commercial activities. Similarly, an exposure frequency of 50 events per year was assumed. These two factors together assumed site maintenance workers were exposed to onsite surface water for 50 hours per year.

- No standard USEPA parameters were found for event frequency, exposure frequency, or duration of event for dermal exposure to surface water. An event frequency, exposure frequency, and duration of event of 1 event per day, 50 days per year, and 1.0 hour per event, respectively, were assumed so that the total number of hours per year for dermal exposure to surface water was consistent with the total hours per year for ingestion of surface water.

Intake values for base worker exposures to Group IV noncarcinogens are provided in Appendix F-7, Tables 7.1 and 7.2. Intake values for base worker exposures to Group IV carcinogens are provided in Appendix F-8, Tables 8.1 and 8.2.

6.3.4.2 Construction Workers

Construction workers are those individuals who work at Group IV and may come into contact with contaminated media during excavation or construction activities. Tables 4.3, 4.4, 4.5, and 4.6 in Appendix F-4 provide exposure dose equations used to estimate chemical intake for construction workers exposed to surface soil, subsurface soil, surface water, and groundwater, respectively. Where available, exposure assumptions used in the equations were those suggested by standard USEPA guidance documents. Tables 4.3, 4.4, 4.5, and 4.6 provide a reference for each exposure assumption. Exposure assumptions that are not standard USEPA values include the following:

- The exposure frequency was assumed to be equal to one worker month per year. A worker month is equal to 20 days. This value was taken from the RAIS Internet site listing exposure parameters for an excavation worker <http://risk.lsd.ornl.gov/homepage/tm>.
- An exposure time of 1.0 hour per event was assumed because no standard USEPA parameter was found for exposure time for ingestion of surface water during construction activities.
- No standard USEPA parameters were found for event frequency or duration of event for dermal exposure to surface water. An event frequency and duration of event of 1 event per day and 1.0 hour per event, respectively, were assumed so that the total number of hours per year for dermal exposure to surface water was consistent with the total hours per year for ingestion of surface water.

Intake values for construction worker exposures to Group IV noncarcinogens are provided in Appendix F-7, Tables 7.3, 7.4, 7.5, and 7.6. Intake values for construction worker exposures to Group IV carcinogens are provided in Appendix F-8, Tables 8.3, 8.4, 8.5, and 8.6.

6.3.4.3 Adult and Adolescent Trespassers

Trespassers, both adult and adolescent, were assumed to be individuals other than authorized personnel who may from time to time enter the site and contact contaminated environmental media. Risks estimated for this receptor also represent the exposure to authorized site visitors. Tables 4.7, 4.8, 4.9, and 4.10 in Appendix F-4 provide exposure dose equations used to estimate chemical intake for adult and adolescent trespassers, respectively, exposed to surface soil and surface water. Where available, exposure assumptions used in the equations were those suggested by standard USEPA guidance documents. Tables 4.7, 4.8, 4.9, and 4.10 (Appendix F-4) provide a reference for each exposure assumption. Exposure assumptions that are not standard USEPA values include the following:

- The soil ingestion rate was assumed to be 100 milligrams per day for both adults and adolescents. This is the same as the soil ingestion rate assumed for resident adults given in the USEPA Region 4 supplemental risk assessment guidance (USEPA, 1995).
- The exposure duration was assumed to be 20 years for adults and 10 years for adolescents. This is based on the 30 year exposure duration also assumed for a residential land use scenario. (The adolescent is assumed to range in age from 7 to 18 years (or 10 of the 30 years exposure duration), assuming 20 years exposure as an adult.
- An exposure frequency of 100 events per year or days per year was assumed for adolescent exposure to surface soil. This value was selected to be greater than the adult exposure frequency of 45 events per year (USEPA, 1995) based on the belief that adolescents are more likely to trespass than adults are. The value selected for adolescents is equivalent to approximately twice per week during the course of a year.
- An exposure time of 1.0 hour per event was assumed because no standard USEPA parameter was found for exposure time for ingestion of surface water during trespassing activities.

Intake values for adult trespasser exposures to Group IV noncarcinogens are provided in Appendix F-7, Tables 7.7 and 7.8. Intake values for adolescent trespasser exposures to Group IV noncarcinogens are provided in Appendix F-7, Tables 7.9 and 7.10. Intake values for adult trespasser exposures to Group IV carcinogens are provided in Appendix F-8, Tables 8.7 and 8.8. Intake values for adolescent trespasser exposures to Group IV carcinogens are provided in Appendix F-8, Tables 8.9 and 8.10.

6.3.4.4 Hypothetical Future Adult and Child Onsite Residents

Risks to the hypothetical future onsite resident adult and child were quantified for purposes of completeness only. NAVSTA Mayport is expected to remain a naval base; therefore, onsite residential land use is not expected in the foreseeable future. The adult and child intakes were quantified for exposure to surface soil, surface water, and groundwater COPCs.

Tables 4.11, 4.12, and 4.13 in Appendix F-4 provide exposure dose equations used to estimate chemical intake for the hypothetical future adult resident exposed to surface soil, surface water, and groundwater, respectively. Tables 4.14, 4.15, and 4.16 in Appendix F-4 provide exposure dose equations used to estimate chemical intake for the hypothetical future child resident exposed to surface soil, surface water, and groundwater, respectively. Inhalation intake of VOCs vaporizing from groundwater was not quantified for hypothetical future adult and child residents because the inhalation risk (for VOCs) was assumed to be equal to the ingestion risk (USEPA, 1995). Where available, exposure assumptions used in the equations were those suggested by standard USEPA guidance documents. Tables 4.11 through 4.16 (Appendix F-4) provide a reference for each exposure assumption. Exposure assumptions that are not standard USEPA values include the following:

- No standard USEPA exposure assumptions were found for event frequency for adult and child dermal exposure to surface water. An event frequency of 1 event per day was assumed.
- An exposure frequency of 100 events per year or days per year was assumed for child exposure to surface water. This value was selected to be greater than the adult exposure frequency of 45 events per year (USEPA, 1995) based on the belief that children are more likely to participate in wading activities than adults are. The value selected for the child is equivalent to approximately twice per week during the course of a year.

Surface soil, surface water, and groundwater intake values for hypothetical future adult resident exposures to GROUP IV noncarcinogens are provided in Appendix F-7, Tables 7.11, 7.12, and 7.13. Surface soil, surface water, and groundwater intake values for hypothetical future child resident exposures to Group IV noncarcinogens are provided in Appendix F-7, Tables 7.14, 7.15, and 7.16. Surface soil, surface water, and groundwater intake values for hypothetical future adult resident exposures to Group IV carcinogens are provided in Appendix F-8, Tables 8.11, 8.12, and 8.13. Surface soil, surface water, and groundwater intake values for hypothetical future child resident exposures to Group IV carcinogens are provided in Appendix F-8, Tables 8.14, 8.15, and 8.16.

6.4 TOXICITY ASSESSMENT

The toxicity assessment for the COPCs examines information concerning the potential human health effects of exposure to COPCs. For each COPC, the goal of the toxicity assessment is to provide a quantitative estimate of the relationship between the magnitude and type of exposure and the severity or probability of human health effects. The toxicity values presented in this section are integrated with the exposure assessment (Section 6.3) to characterize the potential for the occurrence of adverse health effects.

The toxicological evaluation involves a critical review and interpretation of toxicity data from epidemiological, clinical, animal, and in vitro studies. This review of the data ideally determines both the nature of the health effects associated with a particular chemical and the probability that a given quantity of a chemical could result in the referenced effect. This analysis defines the relationship between the dose received and the incidence of an adverse effect for the chemicals of potential concern.

The entire toxicological database is used to guide the derivation of CSFs for carcinogenic effects and Reference Doses (RfDs) for noncarcinogenic effects. These data may include epidemiological studies, long-term animal bioassays, short-term tests, and evaluations of molecular structure. Data from these sources are reviewed to determine if a chemical is likely to be toxic to humans. Because of the lack of available human studies, however, the majority of toxicity data used to derive CSFs and RfDs comes from animal studies.

For noncarcinogenic effects, the most appropriate animal model (the species most biologically similar to the human) is identified. Pharmacokinetic data often enter into this determination. In the absence of sufficient data to identify the most appropriate animal model, the most sensitive species is chosen. The RfD is generally derived from the most comprehensive toxicology study that characterizes the dose-response relationship for the critical effect of the chemical. Preference is given to studies using the exposure route of concern; in the absence of such data, however, an RfD for one route of exposure may be extrapolated from data from a study that evaluated a different route of exposure. Such extrapolation must take into account pharmacokinetic and toxicological differences between the routes of exposure. Uncertainty factors are applied to the highest no-observed-adverse-effect level (NOAEL) to adjust for inter- and intraspecies variation, deficiencies in the toxicological database, and use of subchronic rather than chronic animal studies. Additional uncertainty factors may be applied to estimate a NOAEL from a lowest-observed-adverse-effect level (LOAEL) if the key study failed to determine a NOAEL. When chemical-specific data are not sufficient, an RfD may be derived from data for a chemical with structural and toxicological similarity.

CSFs for weight-of-evidence Group A or B chemicals are generally derived from positive cancer studies that adequately identify the target organ in the test animal data and characterize the dose-response relationship. CSFs are derived for Group C compounds for which the data are sufficient, but they are not derived for Group D or E chemicals. (An explanation/definition of these weight-of-evidence classes is provided in Section 6.4.1). No consideration is given to similarity in the animal and human target organs because a chemical capable of inducing cancer in any animal tissue is considered potentially carcinogenic to humans. Preference is given to studies using the route of exposure of concern, in which normal physiologic function was not impaired, and in which exposure occurred during most of the animal's lifetime. Exposure and pharmacokinetic considerations are used to estimate equivalent human doses for computation of the CSF. When a number of studies of similar quality are available, the data may be combined in the derivation of the CSF.

Toxicological profiles for each of the COPCs are presented in Appendix F-11. These profiles present a summary of the available literature on carcinogenic and noncarcinogenic effects associated with human exposure to the chemical.

6.4.1 Carcinogenic Effects

The toxicity information considered in the assessment of potential carcinogenic risks includes a weight-of-evidence classification and a slope factor. The weight-of-evidence classification qualitatively describes the likelihood that a chemical is a human carcinogen and is based on an evaluation of the available data from human and animal studies. A chemical may be placed in one of three groups in USEPA's classification system to denote its potential for carcinogenic effects:

- Group A - known human carcinogen
- Group B1 or B2 - probable human carcinogen
- Group C - possible human carcinogen

Chemicals that cannot be classified as human carcinogens because of a lack of data are placed in Group D, and those for which there is evidence of noncarcinogenicity in humans are in Group E.

The CSF is the toxicity value used to quantitatively express the carcinogenic hazard of cancer-causing chemicals. It is defined as the upper bound estimate of the probability of cancer incidence per unit dose averaged over a lifetime. Slope factors are derived from studies of carcinogenicity in humans and/or laboratory animals and are typically calculated for compounds in Groups A, B1, and B2, although some Group C carcinogens also have slope factors and some B2 carcinogens such as lead have none. Slope factors are specific to a chemical and route of exposure and are expressed in units of $[\text{mg/kg-day}]^{-1}$ for both oral and inhalation routes. Inhalation cancer toxicity values are usually expressed as inhalation unit

risks in units of reciprocal micrograms per meters cubed ($\mu\text{g}/\text{m}^3$) [$1/(\mu\text{g}/\text{m}^3)$]. The inhalation unit risk must be converted to an inhalation slope factor. This is done by assuming that humans weigh 70 kilograms (kg) and inhale 20 meters cubed (m^3) of air per day [i.e., the inhalation unit risk ($1/\mu\text{g}/\text{m}^3$) is divided by 20 meters cubed per day (m^3/day), multiplied by 70 kg, and multiplied by 1,000 micrograms per milligram ($\mu\text{g}/\text{mg}$) to yield the mathematical equivalent of an inhalation slope factor ($\text{mg}/\text{kg}\text{-day}$)⁻¹] (USEPA, 1995). CSFs for COPCs at Group IV are presented in Appendix F-6 in Tables 6.1 and 6.2. The primary sources of information for these values are IRIS (USEPA, 2001) and the annual HEAST (USEPA, 1997a).

The IRIS database (USEPA, 2001) was consulted as the primary source for CSF values, as well as for RfDs. USEPA intends that IRIS supersede all other sources of toxicity information for risk assessment. If values are not available in IRIS, the HEAST values (USEPA, 1997a) were consulted. If no CSF is available from any of these sources, carcinogenic risks are not quantified and potential exposures are addressed in the general uncertainty section, Section 6.5.

CSFs exist for several (but not all) Class C compounds, which are identified as "possible" human carcinogens. Based on data for these compounds, there is inadequate evidence of carcinogenicity in humans and limited evidence of carcinogenicity in animals. In this HHRA, Class C compounds are evaluated quantitatively as class A/B1/B2 compounds, but the risks associated with exposure to Class C compounds are also discussed separately if these chemicals are major risk drivers, underscoring the uncertainty associated with these estimations.

Dermal CSFs are derived from the corresponding oral values. In the derivation of a dermal CSF, the oral CSF is divided by the gastrointestinal absorption efficiency to determine a CSF based on an absorbed dose rather than an administered dose. The oral CSF is divided by the absorption efficiency because CSFs are expressed as reciprocal doses. Dermal CSFs and the absorption efficiencies used in their determination are also included in Appendix F-6 in Table 6.1. When no absorption rate is available in the literature, no adjustment is made.

In the past, risk estimates for PAHs have assumed that all carcinogenic PAHs have a potency equal to that for benzo(a)pyrene. A benzo(a)pyrene equivalent concentration is calculated using TEFs for the other Class B2 PAHs as explained in Section 6.1. While benzo(a)pyrene was well studied, other Class B2 PAHs had insufficient data with which to calculate a CSF.

6.4.2 Noncarcinogenic Effects

For noncarcinogens, it is assumed that a dose exists below which no adverse health effects will be seen. Below this "threshold" dose, exposure to a chemical can be tolerated without adverse effects. Toxic effects are manifested only when physiologic protective mechanisms are overcome by exposures to a chemical above its threshold level. Maternal and developmental endpoints are considered systemic toxicity.

The potential for noncarcinogenic health effects resulting from exposure to chemicals is assessed by comparing an exposure estimate (intake or dose) to an RfD. The RfD is expressed in units of mg/kg-day and represents a daily intake of contaminant per kg of body weight that is not sufficient to cause the threshold effect of concern. An RfD is specific to the chemical, the route of exposure, and the duration over which the exposure occurs. Separate RfDs are presented for ingestion and inhalation pathways. In particular, Reference Concentrations (RfCs) in units of mg/m³ are typically presented for the inhalation pathway. Because characterization of noncarcinogenic effects requires an estimate of dose in units of mg/kg/day, the inhalation RfC must be converted to an inhalation RfD. The conversion is performed by assuming that humans weigh 70 kg and inhale 20 m³ of air per day [i.e., the inhalation RfC (mg/m³) is multiplied by 20 m³/day and divided by 70 kg to yield an inhalation RfD with units of mg/kg-day] (USEPA, 1995a).

To derive an RfD, USEPA reviews all relevant human and animal studies for each compound and selects the study (studies) pertinent to the derivation of the specific RfD. Each study is evaluated to determine the NOAEL or, if the data are inadequate for such a determination, the LOAEL. The NOAEL corresponds to the dose (in mg/kg-day) that can be administered over a lifetime without inducing observable adverse effects. The LOAEL corresponds to the lowest daily dose that induces an observable adverse effect. The toxic effect characterized by the LOAEL is referred to as the "critical effect." To derive an RfD, the NOAEL (or LOAEL) is divided by uncertainty factors to ensure that the RfD will be protective of human health. Uncertainty factors are applied to account for extrapolation of data from laboratory animals to humans (interspecies extrapolation), variation in human sensitivity to the toxic effects of a compound (intraspecies differences), derivation of a chronic RfD based on a subchronic rather than a chronic study, or derivation of an RfD from the LOAEL rather than the NOAEL. In addition to these uncertainty factors, modifying factors between 1 and 10 may be applied to reflect additional qualitative considerations in evaluating the data. For most compounds, the modifying factor is one.

A dermal RfD is developed by multiplying an oral RfD (based on an administered dose) by the gastrointestinal tract absorption factor. The resulting dermal RfD, based on an absorbed dose, is used to evaluate the dermal (absorbed) dose calculated by the dermal exposure algorithms.

RfDs for the COPCs at Group IV are presented in Appendix F-5 in Tables 5.1 and 5.2. The primary source of these values is the IRIS database, followed by other USEPA sources described for the carcinogens. This table also includes the primary target organs affected by a particular chemical. This information may be used in the risk characterization section to segregate risks by target organ effects, unless the total hazard index (HI) is below unity.

6.5 RISK CHARACTERIZATION, UNCERTAINTY ANALYSIS, AND CONCLUSIONS

6.5.1 Risk Characterization for Group IV

A summary of the risk characterization for Group IV is presented in this section. Total noncarcinogenic and carcinogenic risks for each exposure route, as well as the cumulative risks for each receptor are presented in Tables 9.1 through 9.6 in Appendix F-9. The following receptors were evaluated:

- The base worker.
- The construction worker.
- The trespasser (adult and adolescent).
- The hypothetical future resident (adult and child).

Example calculations and relevant risk calculation spreadsheets are presented in Appendix F.

6.5.1.1 Noncarcinogenic Risks for Group IV

HIs developed for the aforementioned receptors and presented in the referenced tables were as follows:

Receptor	HI	Table in Appendix F
Base Worker (Current/Future)	6.4E-02	9.1
Construction Worker (Current/Future)	4.5E-02	9.2
Adult Trespasser (Current/Future)	4.6E-02	9.3
Adolescent Trespasser (Current/Future)	1.6E-01	9.4
Hypothetical Adult Resident (Future)	1.3E+00	9.5
Hypothetical Child Resident (Future)	3.7E+00	9.6

HIs calculated for the base worker, the construction worker, and the adult/adolescent trespassers are equal to or less than one, indicating that adverse noncarcinogenic health effects are not anticipated under the conditions established in the exposure assessment.

HIs calculated for the hypothetical future resident exceed 1 when the hypothetical future adult or child is the receptor of concern. HIs calculated for the adult and small child resident routinely exposed to soils only were 1.9E-01 and 9.2E-01, respectively. HIs calculated for the adult and small child occasionally

exposed to local surface water only were 5.2E-02 and 3.4E-01, respectively. HIs calculated for the adult and small child resident routinely exposed to groundwater were 1.1E+00 and 2.2E+00, respectively. HIs calculated on a target organ-specific basis did not exceed one. The risk estimates presented for the environmental media are subject to several significant sources of uncertainty. This includes the fact that a very conservative RfD for iron was used to conduct the risk analysis. These significant sources of uncertainty are further discussed in Section 6.5.1.3.

6.5.1.2 Carcinogenic Risks for Group IV

Incremental lifetime cancer risk (ILCR) estimates calculated for the aforementioned receptors and presented in the referenced tables were as follows:

Receptor	Cancer Risk Estimate	Table in Appendix F
Base Worker (Current/Future)	8.6E-06	9.1
Construction Worker (Current/Future)	3.2E-07	9.2
Adult Trespasser (Current/Future)	3.5E-06	9.3
Adolescent Trespasser (Current/Future)	7.2E-06	9.4
Hypothetical Adult Resident (Future)	1.1E-04	9.5
Hypothetical Child Resident (Future)	1.0E-04	9.6

The ILCR estimate developed for the construction worker (3.2E-07) exposed to Group IV media does not exceed the USEPA target risk range of 1E-04 to 1E-06. IILCR estimates calculated for the base worker and the trespasser are within the USEPA target risk range but exceed the State of Florida risk benchmark of 1E-06. Cancer risk estimates for the hypothetical future resident (combined adult and child) do exceed the USEPA target risk range and the State of Florida risk benchmark of 1E-06. A review of the media and chemical-specific risk results indicate benzo(a)pyrene (equiv), Aroclor-1260, and arsenic in surface soil, and arsenic, vinyl chloride, and carbazole in groundwater are the predominant risk drivers for Group IV.

Receptor	Media	Cancer Risk Estimate	Table in Appendix F
Base Worker (Current/Future)	Surface Soil	8.5E-06	9.1
	Surface Water	8.9E-08	9.1
	TOTAL	8.6E-06	9.1
Construction Worker (Current/Future)	Surface Soil	2.4E-07	9.2
	Subsurface Soil	3.8E-08	9.2
	Surface Water	3.6E-08	9.2
	Groundwater	3.4E-09	9.2
	TOTAL	3.2E-07	9.2
Adult Trespasser (Current/Future)	Surface Soil	3.4E-06	9.3
	Surface Water	6.4E-08	9.3
	TOTAL	3.4E-06	9.3
Adolescent Trespasser (Current/Future)	Surface Soil	7.1E-06	9.4
	Surface Water	8.1E-08	9.4
	TOTAL	7.1E-06	9.4
TOTAL FOR TRESPASSER		1.1E-05	
Hypothetical Adult Resident (Future)	Surface Soil	3.2E-05	9.5
	Surface Water	1.3E-07	9.5
	Groundwater	8.0E-05	9.5
	TOTAL	1.1E-04	9.5
Hypothetical Child Resident (Future)	Surface Soil	5.4E-05	9.6
	Surface Water	1.6E-07	9.6
	Groundwater	4.6E-05	9.6
	TOTAL	1.0E-04	9.6
TOTAL FOR RESIDENT		2.1E-04	

As noted above, benzo(a)pyrene (equiv), Aroclor-1260, and arsenic were the carcinogenic COPCs selected for surface soils. The chemical-specific risk estimates for exposure to benzo(a)pyrene (equiv) are within the USEPA target risk range of 1E-04 to 1E-06 for all receptors evaluated except the construction worker, where the risk estimate is less than 1E-06. The risk estimates for exposure to Aroclor-1260 and arsenic are within the USEPA target risk range of 1E-04 to 1E-06 for the hypothetical resident and less than 1E-06 for all other receptors.

As noted above, the predominant risk drivers for groundwater are arsenic, vinyl chloride, and carbazole. Chemical-specific risk estimates for the three chemicals are within the target risk range of 1E-04 to 1E-06 for the hypothetical resident and less than 1E-06 for all other receptors.

There were no carcinogenic COPCs in surface water.

The cancer risk estimates presented for the environmental media are subject to several significant sources of uncertainty. This includes the fact that the carcinogenic PAH concentrations noted in the soils at Group IV are within the range of concentrations reported in the literature as representing anthropogenic background. The EPCs for arsenic and vinyl chloride in groundwater (4.395 µg/L and 0.5839 µg/L, respectively) are below their corresponding GCTLs of 50 µg/L and 1 µg/L. In addition, the carbazole was

detected in only 1 of 93 groundwater samples. These significant sources of uncertainty are further discussed in Section 6.5.1.3.

6.5.1.3 Uncertainty Analysis for Group IV

Uncertainty in the selection of COPCs is related to the current status of the predictive databases, the grouping of samples, and the procedures used to include or exclude constituents as COPCs. Uncertainty associated with the exposure assessment includes the values used as input variables for a given intake route/scenario, the assumptions made to determine exposure point concentrations, and the predictions regarding future land-use and population characteristics. Uncertainty in the toxicity assessment includes the quality of the existing toxicity data needed to support dose-response relationships and the weight-of-evidence used for determining the carcinogenicity of COPCs. Uncertainty in the risk characterization includes that associated with exposure to multiple chemicals and the cumulative uncertainty from combining conservative assumptions made in earlier steps of the risk assessment process.

Whereas there are various sources of uncertainty as described earlier, the direction of uncertainty can be influenced by the assumptions made throughout the risk assessment, including selection of COPCs and selection of values for dose-response relationships. In general, assumptions, which consider safety factors, are made so that the final calculated risks are overestimated.

Once the risk assessment is complete, the results must be reviewed and evaluated to identify the type and magnitude of uncertainty involved. Reliance on results from a risk assessment without consideration of uncertainties, limitations, and assumptions inherent in the process can be misleading.

6.5.1.4 Uncertainty in COPC Selection

The following uncertainties should be considered when evaluating the results of the risk characterization conducted for Group IV:

6.5.1.4.1 Existing Databases

All data used for this evaluation have been validated according to guidelines. Therefore, uncertainties associated with the quality of the data are considered to be minimal. For surface soil, surface water, and sediment, less than 10 samples were collected. The use of small datasets may result in additional uncertainty both in the COPC selection and in the calculated risks.

6.5.1.4.2 COPC Screening Levels

The use of risk-based screening values should ensure that the significant contributors to risk from a site area not incorrectly screened out but are retained for evaluation. Screening values were based on conservative land-use scenarios (i.e., residential land use for soil) and protective levels of risk corresponding to an ILCR of 10^{-6} (divided by the number of initial carcinogenic COPCs) and an HI of 0.1.

6.5.1.4.3 Absence of COPC Screening Levels

Essential human nutrients (magnesium, potassium, calcium, and sodium) are considered toxic only at very high doses and do not have screening levels listed in the GCTL/SCTL tables referenced in this report. These nutrients were eliminated from consideration as COPCs. Exclusion of these chemicals as COPCs is not expected to add significant uncertainty to the risk.

6.5.1.4.4 Frequency of Detection

1,3-Dichlorobenzene; carbazole; naphthalene; pyridine; and aluminum (COPCs in groundwater) were each detected in less than 5% of the samples. However, the chemicals were not screened from being a COPC because of infrequent detection because the wide area encompassed by Group IV; therefore, the detections were not less than 5% of the samples collected at one possible area of impact. No chemicals were eliminated from this HHRA based on the frequency screening criteria, leading to possible overestimation of risk for these chemicals. Carbazole, detected in 1 of 93 groundwater samples collected, was identified as a risk driver.

It should also be noted that the remaining two risk drivers in groundwater (arsenic and vinyl chloride), although detected in several samples, were detected above their respective GCTLs in only 1 and 2 of 94 samples, respectively.

6.5.1.4.5 USEPA Region 9 Preliminary Remediation Goals

USEPA Region 9 PRGs were presented in the COPC selection tables but not used in COPC selection. Because Florida SCTLs and GCTLs are primarily conservative, risk-based screening levels, it is unlikely that the fact that PRG values were not used for COPC screening would result in the underestimation of risk. However, for many chemicals, the Region 9 PRG value and the State of Florida screening value are different. There are some cases in which a chemical would have been selected as a COPC based on a comparison of the maximum concentration to the PRG but the chemical was eliminated as a COPC

based on a comparison of the maximum concentration and the Florida screening values. This is limited to a few chemicals.

In groundwater, the maximum concentrations of 1,1-dichloroethene; 1,4-dichlorobenzene; and cyanide exceeded their unadjusted PRG. 1,4-Dichlorobenzene was detected at a relatively low frequencies (1%). The maximum concentrations of all three chemicals were both less than their respective MCLs. Therefore, it is unlikely that significant underestimation of risk resulted from the omission of these chemicals as COPCs in groundwater.

In surface soil and subsurface soil, the maximum concentration of chromium exceeded its adjusted PRG (divided to account for carcinogenic additivity) but did not exceed the unadjusted PRG. Likewise, in sediment the maximum concentration of cadmium exceeded its adjusted PRG but did not exceed the unadjusted PRG. Arsenic in surface water exceeded its unadjusted PRG but was less than the MCL. Therefore, it is unlikely that significant underestimation of risk resulted from the omission of these chemicals of COPCs in these media.

6.5.1.5 Uncertainty in the Exposure Assessment

6.5.1.5.1 Land-Use

The current land use patterns of NAVSTA Mayport are well established, thereby reducing the uncertainty associated with land use assumptions. Current land use receptors are base workers, construction workers, and site trespassers; this list of receptors is not expected to change in the foreseeable future.

6.5.1.5.2 Mayport Turning Basin

Much of Group IV is located in close proximity to the Mayport Turning Basin; however, potential risks resulting from exposure to surface water and sediment in the Turning Basin were not evaluated in this HHRA. This is primarily because the basin is dredged every two to three years for safe berthing of Navy ships. Dredged sediments are transferred through a slurry pipeline to SWMU 50, the Western Dredge Spoil area. Data from any surface water or sediment sampling that would be collected for this investigation, and subsequent evaluation of human risks, would be unusable the next time the basin is dredged. It is possible that personnel could be exposed to surface water in the Turning Basin through swimming or ingestion of fish.

6.5.1.5.3 Exposure Point Concentration

The maximum concentrations of COPCs in surface soil, surface water, and sediment were selected as the exposure point concentrations for the HHRA. Consequently, risk estimates are likely to be overestimated because it is unlikely that potential receptors would be exposed to maximum concentration only for the entire assumed exposure period.

The method used to calculate the benzo(a)pyrene (equiv.) concentration for carcinogenic polycyclic aromatic hydrocarbons (cPAHs) might also overestimate the risk. USEPA Region 4 guidance (USEPA, 1995) was followed to determine a benzo(a)pyrene (equiv.) concentration representative of total cPAHs in each sample. The Region 4 guidance suggests the following TEFs for each cPAH to calculate the benzo(a)pyrene (equiv.) concentration.:

- benzo(a)pyrene, TEF = 1.0;
- benzo(a)anthracene, TEF = 0.1;
- benzo(b)fluoranthene, TEF = 0.1;
- dibenzo(a,h)anthracene, TEF = 1.0;
- benzo(k)fluoranthene, TEF = 0.01;
- chrysene, TEF = 0.001; and
- indeno(1,2,3-cd)pyrene, TEF = 0.1.

If cPAHs were detected at a sample location, the benzo(a)pyrene (equiv) concentration was calculated for that location by multiplying the concentration of each cPAH by the appropriate TEF and summing these values. If a non-detect result was reported for a cPAH, then half the detection limit of that PAH was used as a surrogate concentration. If cPAHs were not detected at a sample location, then the benzo(a)pyrene (equiv.) concentration was calculated by multiplying half the detection limit for each cPAH by the appropriate TEF and summing these values. As with other analytes in surface soil, the maximum benzo(a)pyrene (equiv.) concentration in an environmental media was used to estimate potential risks.

6.5.1.5.4 Exposure Parameters

The exposure factors, e.g., exposure frequency and duration, used to characterize the risk are based on reasonable maximum exposure (RME) assumptions. Generally, default and literature exposure factors are based on surveys of physiological and lifestyle profiles across the United States. The attributes and activities studied in these surveys generally have a broad distribution. Therefore, the risk is not likely to be underestimated for maximum exposed individuals and is more likely to be overestimated for the general populations exposed to the chemicals in the environmental media at the sites. Assumptions were

made for soil ingestion rate, exposure duration, exposure frequency for the trespasser, and the exposure frequency of a resident child hypothetically exposed to surface water. The assumptions were conservative and are not likely to underestimate the exposure to the receptor.

6.5.1.6 Uncertainty in Toxicity Assessment

6.5.1.6.1 Derivation of Toxicity Criteria

Uncertainty is associated with hazard assessment and dose-response evaluations. The hazard assessment deals with characterizing the nature and strength of the evidence of causation, or the likelihood that a chemical that induces adverse effects in animals will also induce adverse effects in humans. Hazard assessment of carcinogenicity is evaluated as a weight-of-evidence determination, using the USEPA methods. Positive animal cancer test data suggest that humans contain tissue(s), which may manifest a carcinogenic response; however, the animal data cannot necessarily be used to predict the target tissue in humans. In the hazard assessment of no cancer effects, however, the positive animal data often suggest the nature of the effects (i.e., the target tissues and type of effects) anticipated for humans.

Uncertainty in hazard assessment arises from the nature and quality of the animal and human data. Uncertainty is reduced when similar effects are observed across species, strain, sex, and exposure route; when the magnitude of the response is clearly dose-related; when pharmacokinetic data indicate a similar fate in humans and animals; when postulated mechanisms of toxicity are similar for humans and animals; and when the chemical of concern is structurally similar to other chemicals for which the toxicity is more completely characterized.

Uncertainty in the dose-response evaluation is associated with the determination of a CSF for the carcinogenic assessment and derivation of an RfD or RfC for the noncarcinogenic assessment. Uncertainty introduced from interspecies (animal to human) extrapolation, which, in the absence of quantitative pharmacokinetic or mechanistic data, is usually based on consideration of interspecies differences in basal metabolic rate. Uncertainty also results from intraspecies variation. Most toxicity experiments are performed with animals that are very similar in age and genotype, so that intragroup biological variation is minimal, but the human population of concern may reflect a great deal of heterogeneity including unusual sensitivity or tolerance to the COPC. Even toxicity data from human occupational exposure reflect a bias because only those individuals sufficiently healthy to attend work regularly (the healthy worker effect) and those not unusually sensitive to the chemical are likely to be occupationally exposed. Finally, uncertainty arises from the quality of the key study from which the quantitative estimate is derived and the database. For cancer effects, the uncertainty associated with

dose-response factors is mitigated by assuming the 95% upper bound for the slope factor. Another source of uncertainty in carcinogenic assessment is the method by which data from high doses in animal studies are extrapolated to the dose range expected for environmentally exposed humans. The linearized multistage model, which is used in nearly all quantitative estimations of human risk from animal data, is based on a non-threshold assumption of carcinogenesis. Evidence suggests, however, that epigenetic carcinogens, as well as many genotoxic carcinogens, have a threshold below which they are noncarcinogenic (Williams and Welsburger, 1991); therefore, the use of the linearized multistage model is conservative for chemicals that exhibit a threshold for carcinogenicity.

For noncancer effects, additional uncertainty factors may be applied in the derivation of the RfD or RfC to mitigate poor quality of the key study group or gaps in the database. Additional uncertainty for noncancer effects is associated with a prediction of a threshold dose rate less than which adverse effects are not expected. Therefore, an uncertainty factor is usually applied to the estimate of a no-effects level. Additional uncertainty arises in estimation of an RfD or RfC for chronic exposure from subchronic data. Unless empirical data indicate that effects do not worsen with increasing duration of exposure, an additional uncertainty factor is applied to the no-effect level in the subchronic study. Uncertainty in the derivation of RfDs is mitigated by the use of uncertainty and modifying factors that normally range between 3 and 10. The resulting combination of uncertainty and modifying factors are used to proportionally adjust the RfD downwards and thereby intentionally introduce a conservative bias in the RfD by a factor of 1000 or more.

The derivation of dermal RfDs and CSFs from oral values may cause uncertainty. This is particularly the case when no gastrointestinal absorption rates are available in the literature or when only qualitative statements regarding absorption are available.

6.5.1.6.2 Toxicity Criteria For Arsenic

The toxicity criteria for arsenic are a major source of uncertainty for this baseline risk assessment. While conventional risk assessment methodology suggests that there is no “zero risk concentration” for a carcinogen such as arsenic, the human body does have a limited capacity to methylate arsenic and this limit is not generally reached until the body’s intake of arsenic exceeds 500 micrograms per day ($\mu\text{g}/\text{day}$). Most environmental exposures result in intakes lower than 500 $\mu\text{g}/\text{day}$. Additionally, the USEPA suggests that an order of magnitude adjustment of risk (downward) may be appropriate for arsenic in some cases.

6.5.1.7 Uncertainty in the Risk Characterization

Uncertainty in risk characterization results primarily from assumptions made regarding additivity of effects from exposure to multiple COPCs from various exposure routes. High uncertainty exists when summing cancer risks for several substances across different exposure pathways. This assumes that each substance has a similar effect and/or mode of action. Often compounds affect different organs, have different mechanisms of action, and differ in the fate in the body, as additivity may not be an appropriate assumption. However, the assumption of additivity is made to provide a conservative estimate of risk.

Finally, the risk characterization does not consider antagonistic or synergistic effects. Little or no information is available to determine the potential for antagonistic or synergism for the COPCs. Therefore, this uncertainty cannot be discussed for its impact on the risk assessment, as it may either over- or underestimate potential human health risk.

Arsenic and Vinyl Chloride

The groundwater EPCs calculated for arsenic (4.395 µg/L) and vinyl chloride (0.5839 µg/L) do not exceed their respective GCTLs (50 µg/L and 1 µg/L), yet the estimated risk associated with exposure to both of these chemicals was calculated to be greater than 1.0E-06, i.e., they are risk drivers. The chemicals were selected as COPCs in groundwater because 1 and 2 samples, respectively, out of 93 had a detectable concentration greater than the GCTL. The GCTL for these two chemicals is a primary drinking water standard, not a risk-based concentration.

6.5.1.8 Summary and Conclusions for Group IV

A summary of the risk characterization for Group IV is presented in Table 6-3. The following items summarize the results of the risk characterization for Group IV:

- Noncancer risk estimates [Hazard Indices (HIs)] developed for the base worker, the construction worker, the adult trespasser, and the adolescent trespasser are equal to or less than 1, indicating that adverse noncarcinogenic effects are not anticipated under the conditions considered in the risk assessment. HIs developed for the hypothetical future resident adult and child exceed 1.0. HIs developed for individual COPCs and target organs do not exceed 1.0.
- The ILCR estimate for the construction worker (3.2E-07) does not exceed the USEPA target risk range (1E-04 to 1E-06) or the State of Florida cancer risk benchmark (1E-06).

TABLE 6-3
Summary of Cancer Risks and Hazard Indices

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks > 10 ⁻⁴	Chemicals with Cancer Risks > 10 ⁻⁵	Chemicals with Cancer Risks > 10 ⁻⁶	Hazard Index (RME)	Chemicals with HI >1
Base Worker	Surface Soil	Ingestion	7.4E-07	--	--	--	6.9E-03	--
		Inhalation	1.6E-10	--	--	--	1.9E-05	--
		Dermal Contact	6.3E-08	--	--	--	7.8E-04	--
		Total	8.0E-07	--	--	--	7.7E-03	--
Base Worker	Surface Water	Ingestion	6.3E-10	--	--	--	1.2E-03	--
		Inhalation		--	--	--		--
		Dermal Contact	8.9E-08	--	--	--	2.2E-02	--
		Total	8.9E-08	--	--	--	2.3E-02	--
		TOTAL	8.9E-07				3.1E-02	
Construction Worker	Surface Soil	Ingestion	2.3E-08	--	--	--	5.3E-03	--
		Inhalation	5.3E-13	--	--	--	1.5E-06	--
		Dermal Contact	7.1E-10	--	--	--	2.2E-04	--
		Total	2.3E-08	--	--	--	5.5E-03	--
Construction Worker	Subsurface Soil	Ingestion	3.7E-08	--	--	--	5.9E-03	--
		Inhalation	7.6E-13	--	--	--	4.4E-04	--
		Dermal Contact	1.5E-09	--	--	--	4.2E-05	--
		Total	3.8E-08	--	--	--	6.3E-03	--
Construction Worker	Surface Water	Ingestion	2.5E-10	--	--	--	2.9E-04	--
		Inhalation		--	--	--	3.2E-06	--
		Dermal Contact	3.5E-08	--	--	--	1.3E-03	--
		Total	3.6E-08	--	--	--	1.6E-03	--
Construction Worker	Groundwater	Ingestion	8.4E-10	--	--	--	5.0E-04	--
		Inhalation	9.4E-11	--	--	--	--	--
		Dermal Contact	2.4E-09	--	--	--	8.9E-03	--
		Total	3.4E-09	--	--	--	9.4E-03	--
		TOTAL	1.0E-07				2.3E-02	

TABLE 6-3 (Continued)
Summary of Cancer Risks and Hazard Indices

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks > 10 ⁻⁴	Chemicals with Cancer Risks > 10 ⁻⁵	Chemicals with Cancer Risks > 10 ⁻⁶	Hazard Index (RME)	Chemicals with HI >1
Trespasser Adult	Surface Soil	Ingestion	2.1E-07	--	--	--	2.5E-03	--
		Inhalation	2.4E-11	--	--	--	3.4E-06	--
		Dermal Contact	7.9E-08	--	--	--	1.2E-03	--
		Total	2.9E-07	--	--	--	3.7E-03	--
Trespasser Adult	Surface Water	Ingestion	4.6E-10	--	--	--	1.1E-03	--
		Inhalation		--	--	--		--
		Dermal Contact	6.4E-08	--	--	--	2.0E-02	--
		Total	6.4E-08	--	--	--	2.1E-02	--
		TOTAL					2.5E-02	
Trespasser Adolescent	Surface Soil	Ingestion	3.7E-07	--	--	--	8.6E-03	--
		Inhalation	4.1E-11	--	--	--	1.2E-05	--
		Dermal Contact	2.1E-07	--	--	--	6.4E-03	--
		Total	5.8E-07	--	--	--	1.5E-02	--
Trespasser Adolescent	Surface Water	Ingestion	7.9E-10	--	--	--	3.9E-03	--
		Inhalation		--	--	--		--
		Dermal Contact	8.0E-08	--	--	--	5.0E-02	--
		Total	8.1E-08	--	--	--	5.4E-02	--
		TOTAL	1.0E-06				6.9E-02	

TABLE 6-3 (Continued)
Summary of Cancer Risks and Hazard Indices

Group IV RCRA Facility Investigation
 Naval Station Mayport
 Mayport, Florida

Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks > 10 ⁻⁴	Chemicals with Cancer Risks > 10 ⁻⁵	Chemicals with Cancer Risks > 10 ⁻⁶	Hazard Index (RME)	Chemicals with HI >1
Hypothetical Future On-Site Resident Adult and Child	Surface Soil	Ingestion	6.6E-06	--	--	Benzo(a)pyrene (equiv), Arsenic	NA	--
		Inhalation	4.8E-10	--	--	--	NA	--
		Dermal Contact	1.2E-06	--	--	Benzo(a)pyrene (equiv)	NA	--
		Total	7.8E-06	--	--	Benzo(a)pyrene (equiv), Arsenic	NA	--
Hypothetical Future On-Site Resident Adult and Child	Surface Water	Ingestion	2.0E-08	--	--	--	NA	--
		Inhalation		--	--	--	NA	--
		Dermal Contact	2.6E-07	--	--	--	NA	--
		Total	2.8E-07	--	--	--	NA	--
Hypothetical Future On-Site Resident Adult and Child	Groundwater	Ingestion	1.1E-04	--	Arsenic, Vinyl Chloride	Carbazole	NA	--
		Inhalation	1.3E-05	--	Vinyl Chloride	--	NA	--
		Dermal Contact	1.5E-06	--	--	--	NA	--
		Total	1.3E-04	--	Arsenic, Vinyl Chloride	Carbazole	NA	--
		TOTAL		1.3E-04				

<p style="text-align: center;">TABLE 6-3 (Continued) Summary of Cancer Risks and Hazard Indices Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida</p>								
Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks > 10 ⁻⁴	Chemicals with Cancer Risks > 10 ⁻⁵	Chemicals with Cancer Risks > 10 ⁻⁶	Hazard Index (RME)	Chemicals with HI >1
Hypothetical Future On-Site Resident Adult	Surface Soil	Ingestion	NA	NA	NA	NA	1.9E-02	--
		Inhalation	NA	NA	NA	NA	2.7E-05	--
		Dermal Contact	NA	NA	NA	NA	9.4E-03	--
		Total	NA	NA	NA	NA	2.9E-02	--
Hypothetical Future On-Site Resident Adult	Surface Water	Ingestion	NA	NA	NA	NA	2.9E-03	--
		Inhalation	NA	NA	NA	NA		--
		Dermal Contact	NA	NA	NA	NA	4.9E-02	--
		Total	NA	NA	NA	NA	5.2E-02	--
Hypothetical Future On-Site Resident Adult	Groundwater	Ingestion	NA	NA	NA	NA	1.0E+00	--
		Inhalation	NA	NA	NA	NA	1.1E-02	--
		Dermal Contact	NA	NA	NA	NA	2.5E-02	--
		Total	NA	NA	NA	NA	1.1E+00	--
TOTAL							1.1E+00	

<p align="center">TABLE 6-3 (Continued) Summary of Cancer Risks and Hazard Indices Group IV RCRA Facility Investigation Naval Station Mayport Mayport, Florida</p>								
Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks > 10 ⁻⁴	Chemicals with Cancer Risks > 10 ⁻⁵	Chemicals with Cancer Risks > 10 ⁻⁶	Hazard Index (RME)	Chemicals with HI >1
Hypothetical Future On-Site Resident Child	Surface Soil	Ingestion	NA	NA	NA	NA	9.0E-02	--
		Inhalation	NA	NA	NA	NA	1.2E-04	--
		Dermal Contact	NA	NA	NA	NA	6.5E-03	--
		Total	NA	NA	NA	NA	9.6E-02	--
Hypothetical Future On-Site Resident Child	Surface Water	Ingestion	NA	NA	NA	NA	1.3E-01	--
		Inhalation	NA	NA	NA	NA		--
		Dermal Contact	NA	NA	NA	NA	2.1E-01	--
		Total	NA	NA	NA	NA	3.4E-01	--
Hypothetical Future On-Site Resident Child	Groundwater	Ingestion	NA	NA	NA	NA	2.2E+00	--
		Inhalation	NA	NA	NA	NA	2.6E-02	--
		Dermal Contact	NA	NA	NA	NA	3.8E-02	--
		Total	NA	NA	NA	NA	2.2E+00	--
TOTAL							2.7E+00	
Notes: NA - not applicable								

- The ILCR estimates for the base worker ($8.6E-06$) and trespasser ($1.1E-05$) exceed the conservative end of the USEPA target risk range ($1E-06$). Risk from exposure to benzo(a)pyrene (equiv) in surface soil exceeds $1E-06$ for both receptors.
- The ILCR estimate for the hypothetical future resident ($2.1E-04$) exceeds the USEPA target risk range ($1E-04$ to $1E-06$). Risk from exposure to benzo(a)pyrene (equiv), Aroclor-1260, and arsenic in surface soil, and arsenic, vinyl chloride, and carbazole in groundwater exceeds $1E-06$. The EPCs for both arsenic and vinyl chloride in groundwater are below their respective GCTLs.

7.0 ECOLOGICAL RISK ASSESSMENT

7.1 OVERVIEW OF SCREENING-LEVEL ERA METHODOLOGY

This section provides an outline of the general approach that was taken to assess the impacts of site contamination on ecological receptors in the Group IV area and the habitats that support these organisms. This ecological risk assessment (ERA) generally followed a two-step process:

Step 1: Preliminary Problem Formulation (Section 7.2) and Preliminary Ecological Effects Evaluation (Section 7.3)

- Preliminary Problem Formulation - This is the first phase of an ERA, which discusses the goals, breadth, and focus of the assessment. It includes general descriptions of the site to be investigated with emphasis on the habitats and ecological receptors present. This phase also involves characterization of chemical sources and migration pathways, evaluation of routes of chemical exposure, and selection of analytes to be assessed. Preliminary assessment and measurement endpoints are also selected in this phase. Finally, a preliminary conceptual model is developed that describes how chemicals associated with the site may come into contact with ecological receptors.
- Preliminary Ecological Effects Evaluation - In this phase, medium-specific ecological screening guidelines for each analyte (i.e., concentrations of each chemical above which adverse effects to ecological receptors may occur) are identified. This step is undertaken concurrently with the exposure assessment described below.

Step 2: Preliminary Exposure Estimate (Section 7.4) and Risk Calculation (Section 7.5)

- Preliminary Exposure Estimate - This portion of the ERA includes the identification of data sources containing concentrations of chemicals to which ecological receptors may be exposed in various media. It also includes the selection of exposure point chemical concentrations from those data.
- Preliminary Risk Calculation - In this step, exposure point concentrations are compared to guidelines in order to characterize potential risk to ecological receptors. Analytes found to pose potential risk after these comparisons are selected as ecological COPCs.

The above process, described in further detail below, represents the general ERA approach recommended in the most recent USEPA guidance for performing ERAs (USEPA, 1998c and 1997b). Region 4 has developed region-specific guidance (USEPA, 2000) and has requested that this guidance

be followed for all ERAs performed in Region 4. Region 4 guidance is consistent with national USEPA guidance (USEPA, 1998c and 1997b). Hence, this ERA follows Region 4 guidance while containing relevant elements of national USEPA guidance. Additional guidance consulted for this ERA includes Department of the Navy (DON) ERA policy (DON, 1999), which refers to this "screening-level assessment" as a "Tier 1" study in the Navy's three-tiered ERA approach.

Because of the potential complexity of ERAs, they are often conducted using a tiered approach and punctuated with Scientific/Management Decision Points (SMDPs). SMDPs are meetings involving the risk assessors, risk managers, and client to control costs, prevent unnecessary analyses, and ensure that the ERA is proceeding in an efficient, timely manner. Information analyzed in one tier is evaluated to determine whether the objectives of the study have been met, and then it may be used to identify the data required for the next tier, if necessary. Again, this ERA can be considered a "screening-level" assessment because it is based only on comparing chemical concentrations against conservative screening values.

A baseline ERA (BERA) may be conducted if the results of the screening-level ERA indicate that additional study is warranted. The BERA includes more focused studies that incorporate the initial screening, but it may also encompass detailed laboratory and field studies or extensive modeling (USEPA, 1997b). The BERA represents steps 3 through 7 of the 8-step ERA process. The beginning of the BERA presents a more balanced evaluation of the conservativeness inherent in the first two steps in the process (DON, 1999); it is described in detail in Section 7.6. Step 8 is risk management.

7.2 PRELIMINARY PROBLEM FORMULATION

7.2.1 Habitat Types and Ecological Receptors

Group IV is a collection of SWMUs for this RFI located on NAVSTA Mayport. These include the OWCS (SWMU 47), the Sanitary Sewer System (SWMU 53), and the Storm Sewer System (SWMU 55) (Figure 1-2). Other Group IV SWMUs include the Oil/Water Separators (SWMU 54), Fuel Distribution System (AOC A), and Underground Product Storage Tanks (AOC B), which are part of the petroleum program at NAVSTA Mayport (Figure 1-2).

The OWCS is a system of gravity pipelines, lift stations, and force mains that convey oily bilge water collection from ships at the piers and oily water from operations at the FFTC to the OWTP (SWMU 9). A majority of the system was constructed during 1978 to 1980 from ductile iron pipe that is not cathodically protected. Piping at Alpha Pier was replaced in 1991, and the Foxtrot Pier was constructed in 1994. The collection system can be broken down into two subsystems: the gravity feed system used to convey the

oily wastewater from the oily waste risers at the piers to the lift stations, and the lift stations with force main pipelines that convey oily waste to the OWTP.

The sewer pipeline system (SWMU 53) collects and transports wastewater from all areas of the NAVSTA Mayport to the WWTF (A. T. Kearny, 1989). The WWTF is a NPDES-permitted facility located to the south of the entrance to the Mayport Turning Basin. Like the OWCS, the sewer lines are composed of gravity feed pipelines, lift stations, and force main sewer lines.

The storm sewer system (SWMU 55) at NAVSTA Mayport consists of underground storm sewer pipes and unlined drainage ditches (A. T. Kearny, 1989). The storm sewer system conveys runoff to the St. Johns River, Sherman Creek, Lake Wonderwood, the Mayport Turning Basin, and the Atlantic Ocean. Many of the storm sewer pipes that discharge to the surrounding surface water are supplied by unlined drainage ditches found over the entire facility.

NAVSTA Mayport is highly developed, consisting mainly of buildings, roadways, piers, parking lots, and other paved areas. Due to the highly developed nature of the Group IV sites and surrounding areas, terrestrial habitat is poor and of limited quantity and, thus, use by ecological receptors is expected to be minimal. Some mowed turf grass is present along the roadways and between some buildings, with some scattered ornamental trees present. The base golf course is located near some of the sites (Figure 1-2). Some limited aquatic habitat is present in the of the stormwater runoff ditches, with some small runoff retention ponds present. Limited open water is present in the retention ponds, and some cattails (*Typha* spp.) are present along their margins. Open water is located in the Turning Basin, but the aquatic media associated with this area are not considered to be part of Group IV.

7.2.2 Major Chemical Sources and Migration Pathways

The major sources of chemicals at Group IV are the Group IV SWMUs themselves, in particular, the OWCS (SWMU 47), the Sanitary Sewer System (SWMU 53), and the Storm Sewer System (SWMU 55). Chemicals associated with past waste disposal practices associated with these SWMUs are of concern. For this ERA, the ditches associated with the Storm Water Sewer System are most relevant, as the other SWMUs and AOCs are subsurface, and no known groundwater-to-surface water discharge of chemicals to the ditches is known to occur. The major contaminant migration pathways for the Group IV sites are runoff to the ditches from adjacent areas, or back-up of subsurface systems leading to surface contamination.

7.2.3 Exposure Routes

The chemical exposure routes for Group IV are aquatic, semi-aquatic, and terrestrial. Because the surface water and sediment samples were collected from drainage ditch areas that are frequently dry, the majority of exposure would be for terrestrial receptors. Aquatic and semi-aquatic organisms associated with the drainage areas could be exposed to chemicals via direct contact with surface water and sediments, incidental ingestion of surface water and sediments, drinking surface water, and consumption of contaminated food items. Exposure can occur also via discharge of chemicals in groundwater to surface water and sediment. However, groundwater is not known to discharge to surface water in the potentially impacted areas containing surface water and sediment.

Terrestrial animals at the site may be exposed to soil contaminants through ingestion of contaminated food items. Animals can incidentally ingest soil while grooming fur, preening feathers, digging, grazing close to the soil, or feeding on items to which soil has adhered (such as roots and tubers). Terrestrial vegetation may be exposed to contaminants via direct aerial deposition and root translocation. Aerial deposition was not investigated, primarily because the contaminant sources at the sites under investigation are largely covered by vegetation, reducing the amount of bare soil and fugitive dust. Exposure to contaminants in the soil via dermal contact may occur, but is unlikely to represent a major exposure pathway because fur, feathers, and chitinous exoskeletons probably minimize transfer of contaminants across dermal tissue. Soil trapped in the fur or feathers could be ingested during grooming or preening activities, which are evaluated as part of the indirect ingestion exposure route. In addition, little information is available (e.g., absorption factors) to evaluate dermal exposures to wildlife. Direct exposure to soil chemicals is also possible for terrestrial invertebrates.

Volatile constituents are present in some site soils and soil-bound contaminant resuspension may occur. However, inhalation does not represent a significant exposure pathway because air contaminant concentrations are assumed to be quite low, even for burrowing wildlife. The inhalation exposure route is generally only relevant after a spill of a volatile chemical. In addition, inhalation ecotoxicity data for chronic exposure are lacking. Hence, the air pathway was not considered for ecological receptors.

7.2.4 Selection of Analytes to be Investigated

Analytes included in the ERA for quantitative analysis were all chemicals detected in surface water, sediment, and surface soil samples collected in 2001. Calcium, magnesium, potassium, and sodium were excluded as analytes to be investigated because they are essential nutrients that are toxic only in extremely high concentrations. Due to the scarcity of data for these essential nutrients, it would not be possible to develop ranges of toxicity for them, even at high concentrations. The limited toxicity data available indicate that high dietary intake of these nutrients is well tolerated.

7.2.5 Assessment and Measurement Endpoints

As discussed in USEPA (1997b) one of the major tasks in preliminary problem formulation is the selection of preliminary assessment and measurement endpoints. An assessment endpoint is defined as "an explicit expression of actual environmental values that are to be protected" (USEPA, 1997b). Measurement endpoints are "measurable ecological characteristics that are related to the valued characteristic chosen as the assessment endpoint" (USEPA, 1997b). Region 4 has specified that assessment endpoints for the screening-level assessment should be broad and generic and considered preliminary. For this ERA, the preliminary assessment endpoints were protection of the following groups of receptors from adverse effects of chemicals on their growth, survival, and reproduction:

- Aquatic and Semi-Aquatic Biota
- Terrestrial Biota

As indicated above, measurement endpoints (also referred to as "measures of effects") are related to assessment endpoints, but these endpoints are more easily quantified or observed. In essence, measurement endpoints serve as surrogates for assessment endpoints. While declines in populations and shifts in community structure can be quantified, studies of this nature are generally time-consuming and difficult to interpret. However, measurement endpoints indicative of observed adverse effects on individuals are relatively easy to measure in toxicity studies and can be related to the assessment endpoint.

For surface water and sediment in the drainage areas, the preliminary measurement endpoints were chemical concentrations in surface water and sediment associated with adverse effects on growth, survival, and reproduction of surface water and benthic organisms, respectively (screening levels). For surface soil, the preliminary measurement endpoints were chemical concentrations in surface soil associated with adverse effects on growth, survival, and reproduction of soil invertebrates/plants (surface soil screening levels). The measurement endpoints listed above incorporate, to the fullest extent possible, the assessment endpoints.

7.2.6 Preliminary Conceptual Site Model

The conceptual model is designed to diagrammatically identify potentially exposed receptor populations and applicable exposure pathways, based on the physical nature of the site and the potential chemical source areas. Actual or potential exposure to chemicals for ecological receptors associated with Group IV was determined by identifying the most likely pathways of chemical release and transport. A complete exposure pathway has three components: a source of chemicals that can be released to the environment; a route of

chemical transport through an environmental medium; and an exposure route or contact point for an ecological receptor. A preliminary conceptual model for Group IV is presented in Figure 7-1.

7.3 PRELIMINARY ECOLOGICAL EFFECTS EVALUATION

For this ERA, exposure point concentrations of detected analytes in surface water, sediment, and surface soil were compared to ecologically-based guidelines to determine if they should be selected as COPCs. Screening levels for this assessment were Region 4 ecological screening levels (USEPA, 2000). Freshwater values were used because water in the drainage system is freshwater runoff from portions of the Group IV sites area. When screening levels were available for different species of the same metal, the screening level for the most toxic form was used, such as those for hexavalent chromium, trivalent arsenic, and methyl mercury.

7.4 PRELIMINARY EXPOSURE ESTIMATE

Data used to obtain exposure point chemical concentrations in this ERA were obtained from analyses of the surface water, sediment, and surface soil samples collected as part of this investigation. For this screening assessment, the maximum concentrations of chemicals in these media were used as the exposure point concentrations. Three surface water and sediment samples were collected at potentially impacted areas throughout Group IV. Eight surface soil samples were collected at potentially impacted areas throughout Group IV. Groundwater data were not analyzed in this ERA because groundwater is not known to discharge to surface water in the potentially impacted areas containing surface water and sediment.

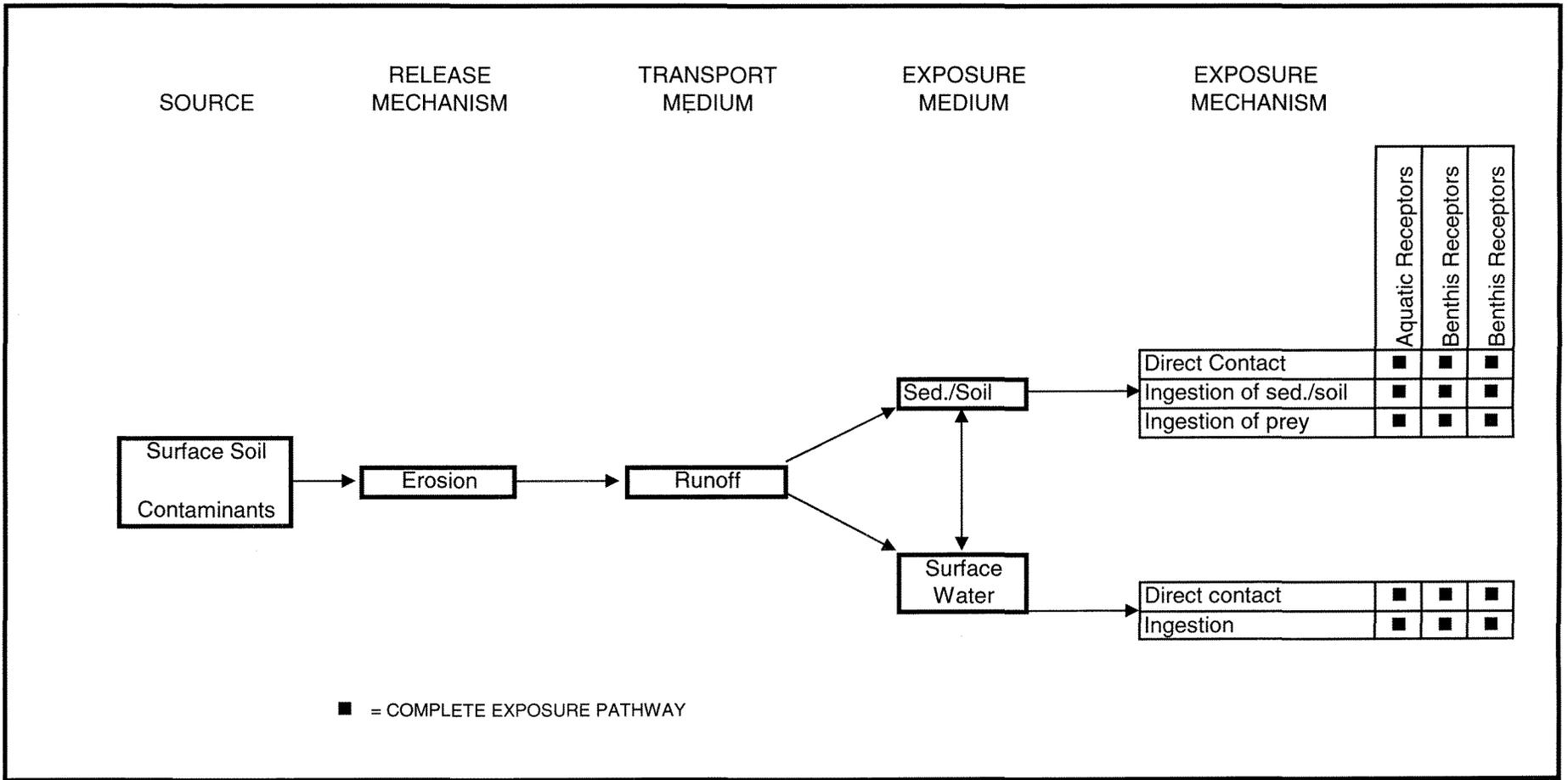


FIGURE 7-1

ECOLOGICAL CONCEPTUAL SITE MODEL
GROUP IV SITES
NAS MAYPORT, FLORIDA

7.5 PRELIMINARY RISK CALCULATION

As identified by USEPA (1997b), the preliminary risk calculation step in the ERA process compares the maximum concentrations of chemicals in surface water and sediment to Region 4 screening levels. The ratio of the exposure point chemical concentration to the screening level is called the Hazard Quotient (HQ) and is defined as follows:

$$HQ_i = EPC_i / ESG_i$$

where: HQ_i = Hazard Quotient for analyte "i" (unitless)
 EPC_i = Exposure Point Concentration ($\mu\text{g}/\text{kg}$ or mg/kg)
 ESG_i = Ecological Screening Guideline for analyte "i" ($\mu\text{g}/\text{kg}$ or mg/kg)

When the ratio of the exposure point concentration to its respective guideline exceeded 1.0, adverse impacts were considered possible, and the chemical was selected as a COPC. The HQ value should not be construed as being probabilistic; rather, it is a numerical indicator of the extent to which an exposure point concentration exceeds, or is less than a guideline. When HQ values exceeded 1.0, it was an indication that ecological receptors are potentially at risk. Additional evaluation or data may be necessary to confirm with greater certainty whether ecological receptors are actually at risk, especially since most screening-level guidelines are conservatively derived.

The use of HQs is probably the most common method used for risk characterization in ERAs. Advantages of this method, according to Barnhouse et al. (Barnhouse et. al., 1987), include the following:

- The HQ method is relatively easy to use, is generally accepted, and can be applied to any data.
- The method is useful when a large number of chemicals must be screened.

This method of risk characterization has some inherent limitations. One primary limitation is that it is a "no/maybe" method for relating toxicity to exposure. That is, it uses single values for exposure concentrations and guidelines. The HQ method does not account for the variability in both these parameters, nor for incremental or cumulative toxicity.

The comparisons described above are presented in surface water, sediment, and surface soil screening tables to select COPCs from comparison to screening levels. Screening tables include the exposure point concentrations, the chemical-specific screening levels, and HQs.

7.5.1 Screening Results – Surface Water

Aluminum, copper, iron, lead, selenium, and thallium had HQs greater than 1.0 in Group IV surface water (see Table 7-1). Acetone, carbon disulfide, 2-butanone, aniline, 3-methylphenol, 4-methylphenol, barium, manganese, molybdenum, and vanadium were selected as surface water COPCs because no Region 4 screening levels were available see (Table 7-1).

7.5.2 Screening Results – Sediment

No chemical detected in Group IV sediment had an HQ greater than 1.0 (see Table 7-2). Acetone, diethyl phthalate, aluminum, barium, cobalt, iron, manganese, molybdenum, selenium, and vanadium were selected as COPCs because no Region 4 screening levels were available (see Table 7-2).

7.5.3 Screening Results – Surface Soil

Five PAHs [4,4'-Dichlorodiphenyldichloroethylene (DDE); aluminum; chromium; copper; iron; lead; mercury; vanadium; and zinc] had HQs greater than 1.0 in Group IV surface soil (see Table 7-3).

7.6 STEP 3A: REFINEMENT OF CONTAMINANTS OF POTENTIAL CONCERN

7.6.1 Step 3A Methodology

The use of conservative guidelines and maximum detected concentrations as a starting point for assessing risks in the screening-level assessment is necessary to ensure that potential risks are not underestimated. However, the use of only a comparison of conservative guidelines to maximum detected concentrations has severe limitations as a tool for determining the need for, and the nature and magnitude of, additional ecological work, and/or a complex baseline ERA.

The undertaking of costly additional ecological analyses must be weighed against benefits, especially in such cases where remedial alternatives are limited or do not exist. Moreover, the environment may suffer as sites of lesser ecological significance are given the same priority as sites of clearly greater ecological concern. For these reasons, the consideration of other relevant factors was employed as part of this assessment. USEPA and the Navy (DON, 1999) consider the evaluation of these factors as part of Step 3 in the 8-step process, or "Step 3A, Refinement of Contaminants of Potential Concern." DON has specified that Step 3A be conducted following all screening-level ERAs at its bases. Region 4 USEPA (USEPA, 2000) has indicated that Step 3A assessments can be submitted with the screening-level

TABLE 7-1
Selection of Chemicals of Potential Concern, Surface Water

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	Frequency of Detection	Minimum Detection	Maximum Detection	Location of Maximum Detection*	Region 4 Screening Level	HQ
<u>VOCs (µg/L)</u>						
Acetone	3/3	7.9	39	1	NA	NA
Carbon Disulfide	1/3	0.37	0.37	1	NA	NA
2-Butanone	1/3	4.8	4.8	1	NA	NA
<u>SVOCs (µg/L)</u>						
Aniline	1/3	11	11	1	NA	NA
Phenol	1/3	12	12	1	256	0.05
3-Methylphenol	1/3	18	18	1	NA	NA
4-Methylphenol	1/3	18	18	1	NA	NA
<u>Inorganics (µg/L)</u>						
Aluminum	2/3	1910	4330	2	87	49.77
Arsenic	3/3	6.1	38.5	1	190	0.20
Barium	3/3	27.7	55.2	1	NA	NA
Cadmium	1/3	0.33	0.33	1	0.66	0.50
Chromium	1/3	6.5	6.5	2	11	0.59
Copper	3/3	3.5	9.8	1	6.54	1.50
Iron	3/3	775	3150	1	1,000	3.15
Lead	3/3	6.9	9.1	3	1.32	6.89
Manganese	3/3	45.1	450	1	NA	NA
Molybdenum	3/3	2.7	4.6	1	NA	NA
Selenium	1/3	5.8	5.8	2	5	1.16
Thallium	3/3	6.4	6.6	01/03	4	1.65
Vanadium	1/3	15	15	3	NA	NA
Zinc	3/3	24.2	56	1	58.91	0.95
Notes:						
* sample number						
NA = not available						

TABLE 7-2
Selection of Chemicals of Potential Concern, Sediment

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	Frequency of Detection	Minimum Detection	Maximum Detection	Location of Maximum Detection*	Region 4 Screening Level	HQ
<u>VOCs (µg/kg)</u>						
Acetone	1/3	14	14	01	NA	NA
<u>SVOCs (µg/kg)</u>						
Diethyl Phthalate	1/3	1800	1800	02	NA	NA
<u>Pesticides (mg/kg)</u>						
4,4'-DDE	1/3	2.8	2.8	02	3.3	0.85
<u>Metals mg/kg</u>						
Aluminum	3/3	240	1980	02	NA	NA
Arsenic	3/3	0.71	1.7	02	7.24	0.23
Barium	3/3	2.3	7.8	02	NA	NA
Chromium	3/3	1.7	4	02	52.3	0.08
Cobalt	1/3	0.47	0.47	02	NA	NA
Copper	2/3	4.7	5.3	02	18.7	0.28
Iron	3/3	430	2100	02	NA	NA
Lead	3/3	2.6	6.3	01	30.2	0.21
Manganese	3/3	10.8	25.1	02	NA	NA
Molybdenum	1/3	0.54	0.54	02	NA	NA
Selenium	1/3	0.87	0.87	02	NA	NA
Vanadium	3/3	1.5	5.1	02	NA	NA
Zinc	3/3	7.6	21	02	124	0.17
Notes:						
* sample number						
NA = not available						
DDE = dichlorodiphenyldichloroethylene						

TABLE 7-3
Selection of Chemicals of Potential Concern, Surface Soils

Group IV RCRA Facility Investigation
Naval Station Mayport
Mayport, Florida

Analyte	Frequency of Detection	Minimum Detection	Maximum Detection	Location of Maximum Detection ¹	Region 4 Screening Level ²	HQ
<u>SVOCs (µg/kg)</u>						
Bis(2-ethylhexyl)phthalate	1/8	98	98	4	100	0.98
Benzo(a)anthracene	1/8	55	55	4	100	0.55
Benzo(a)pyrene	2/8	45	89	4	100	0.89
Benzo(b)fluoranthene	2/8	84	180	4	100	1.8
Benzo(g,h,i)perylene	1/8	120	120	4	100	1.2
Benzo(k)fluoranthene	1/8	84	84	4	100	0.84
Chrysene	1/8	100	100	4	100	1
Fluoranthene	2/8	70	150	4	100	1.5
Indeno(1,2,3-cd)pyrene	1/8	95	95	4	100	0.95
Pyrene	1/8	120	120	4	100	1.2
<u>Pesticides (µg/kg)</u>						
4,4'-DDE	1/8	2.7	2.7	7	2.5	1.08
<u>PCBs(µmg/kg)</u>						
Aroclor-1260	1/8	10	10	8	20	0.5
<u>Inorganics (mg/kg)</u>						
Aluminum	8/8	193	1,970	4	50	39.40
Arsenic	8/8	0.42	1.3	8	10	0.13
Barium	8/8	2.7	16.8	8	165	0.10
Cadmium	6/8	0.19	1.3	8	1.6	0.81
Chromium	7/8	2.3	10.6	8	0.4	26.50
Cobalt	4/8	0.31	1.2	8	20	0.06
Copper	7/8	2.5	50.7	1	40	1.27
Iron	8/8	366	2950	8	200	14.75
Lead	8/8	0.79	80.9	8	50	1.62
Manganese	8/8	4.2	32.9	8	100	0.33
Mercury	1/8	0.29	0.29	8	0.1	2.90
Molybdenum	1/8	0.27	0.27	4	2	0.14
Vanadium	8/8	0.97	7	4	2	3.50
Zinc	7/8	14.1	323	8	50	6.46
Notes:						
1 sample number						
2 benzo(a)pyrene was used as a surrogate for several PAHs						

assessment. The factors that were used as part of Step 3A in this ERA include the following and are described in detail below:

7.6.1.1 Frequency of Detection and Spatial Analysis of Detections/Magnitude of HQ Values

The frequency of detection and spatial analysis of exceedances was also evaluated as part of Step 3A. Evaluation of these items allows for determination of whether potential risks are widespread or limited to a small area. This is especially important in a large area such as the Group IV area. The magnitude of the HQs was also evaluated. As described earlier, the relationship between the magnitude of an HQ and toxicity is not necessarily linear. However, the magnitude of an HQ can be used as a rough approximation of the extent of potential risks, especially if there is sufficient confidence in the guideline used.

7.6.1.2 Less Conservative Screening Levels

USEPA Region 4 sediment guidelines are designed to be conservative. Therefore, less conservative sediment guidelines are discussed in this Step 3A for sediment and surface soil COPCs. These guidelines include FDEP sediment screening levels as presented in Jones et. al. (Jones et. al., 1997). In particular, permissible exposure limits (PELs) from FDEP are presented. PELs represent the lower limit of the range of chemical concentrations that are usually or always associated with adverse biological effects, and are derived from both fresh and saltwater data. Several of the USEPA Region4 sediment screening levels are based on FDEP Threshold Effect Levels (TELs), which represent the upper limit of the range of sediment concentrations dominated by no effects data. TELs, thus, are conservative and PELs are less conservative. The presentation of PELs for sediment COPCs provides balance to the assessment.

Other “less conservative” sediment guidelines are also discussed in this Step 3A and include sediment severe effects levels (SELs), National Oceanic and Atmospheric Administration (NOAA) effects range-medians (ER-Ms), and Assessment and Remediation of Contaminated Sediments Program (ARCS) Probable Effects Concentrations (PECs) as summarized in Jones et. al. (Jones, et. al., 1997). SELs were from the Ontario Ministry of the Environment (MOE). MOE guidelines were based exclusively on observed effects in the field (absence of certain species). The SEL represents the chemical level that could potentially eliminate most of the benthic organisms. Unlike NOAA and FDEP guidelines, MOE guidelines were based exclusively on freshwater sediments. NOAA ER-Ms are defined as the concentration above which adverse effects would “frequently” be observed (Jones et. al., 1997). ARCS PECs were generated as part of USEPA’s Great Lakes National Program.

Friday (Friday, 1998) recommended surface soil screening levels that are the USEPA Region 4 recommended screening levels used in the screening. However, Friday (Friday, 1998) generally used the most conservative values from these sources as the recommended value. Thus, all of the guidelines presented in Step 3A for surface soils are the less conservative values from the sources considered by Friday (Friday, 1998). The surface soils Step 3A tables present United States Fish and Wildlife Service (USFWS) "B" values, various Oak Ridge National Laboratory (ORNL) values, and Dutch "Intervention" values, as summarized in Friday (Friday, 1998). USFWS "B" values are defined as the concentrations representative of "moderate" contamination. ORNL presents three sets of values representing risks to earthworms, soil microbes, and plants, respectively. The Dutch Intervention values represent concentrations that appear to be of sufficient magnitude to require clean-up.

In general, alternate or "less conservative" guidelines for surface water are not as plentiful as those for sediments are. Hence, a broad range of alternative guidelines for surface water could not be developed.

7.6.1.3 Toxicological Information

Furthermore, toxicity data and information from various sources in the literature were discussed as they relate to the interpretation of potential risks from each COPC. These sources include the USFWS Chemical Hazard Reviews, commonly referred to as the "Eisler" publications, and ecotoxicological journals. Discussion of this toxicity data and information is presented in the COPC-specific Step 3A discussion below.

Food chain modeling was not relevant to the assessment because the samples were collected in disparate locations in a highly developed area. Use of the site by semi-aquatic wildlife, such as wading birds and mammals, would be negligible, and the potentially impacted drainage ditches would constitute only a small fraction of the home range or feeding territory of these receptors.

7.6.2 Inorganics

7.6.2.1 Aluminum

Aluminum was a COPC in all media at Group IV. No suitable alternate guidelines were available for aluminum in any medium. The one exception was the ARCS sediment PEC (58,030 mg/kg), which was higher than the maximum concentration in sediment (1,980 mg/kg).

As summarized in Venugopal and Luckey (Venugopal and Luckey, 1978), aluminum is not readily absorbed through the skin mammals and gastrointestinal absorption of ingested aluminum is poor due to the transformation of aluminum salts into insoluble aluminum phosphate. Another factor in the lack of

accumulation of aluminum in animals with age or the absence of any increase in tissue levels of aluminum following fairly high dietary intake may be that certain organisms possess a homeostatic mechanism for this element. For most terrestrial organisms (e.g., semi-aquatic mammals and birds), aluminum compounds are generally not harmful and are considered to be toxicologically inert, except in cases of high experimental doses or prolonged inhalation (Venugopal and Luckey, 1978). Data on the toxicity of aluminum to aquatic organisms is somewhat limited. USEPA (USEPA, 1988) suggests that freshwater organisms should not be adversely affected when pH is between 6.5 and 9.0. For these reasons, aluminum should be dropped from further consideration as a Group IV COPC.

7.6.2.2 Barium

Barium was a COPC in surface water and sediments because no USEPA Region 4 screening levels were available. No alternate guidelines for barium in sediments were available. Barium is a common element in sediments and it is not generally associated with significant toxicity [Agency for Toxic Substances and Disease Registry (ATSDR), 1997]. For these reasons, barium should be dropped from further consideration as a Group IV COPC.

7.6.2.3 Chromium

Chromium was a COPC in surface soils. The elevated HQ for chromium in surface soil appears to be a function of the overly-conservative screening level for chromium. This screening level is the ORNL earthworm value of 0.4 mg/kg. Qualitatively, this concentration is an order of magnitude less than typical soil background concentrations (Shacklette and Boerngen, 1984). The maximum detected concentration of chromium in surface soils of 10.6 mg/kg is less than the conservative USFWS "A" value of 100 mg/kg and the Dutch Target Value of 100 mg/kg (Friday, 1998). Moreover, chromium is not known to bioaccumulate or biomagnify (Eisler, 1986). For these reasons, chromium should be dropped from further consideration as a Group IV COPC.

7.6.2.4 Cobalt

Cobalt was a COPC in sediments because no USEPA Region 4 screening level was available. It was detected in one of three sediment samples. Toxicity data for cobalt are scarce. Cobalt is present in all natural media and is found in tissues of most higher organisms (ATSDR, 1997). The mobility of cobalt is controlled by its characteristic of adsorbing to the clay minerals and hydrous oxides of iron, manganese, and aluminum available in sediments. Therefore, cobalt may be present in Group IV sediments in forms that are not bioavailable. Moreover, cobalt is a component of certain B vitamins, which are essential for birds and mammals. Thus, cobalt should be dropped from further consideration as a COPC at Group IV.

7.6.2.5 Copper

Copper was a COPC in surface water and surface soil. The HQs for surface water and sediment were relatively low (1.5 and 1.27, respectively). The maximum detected concentration in surface soils of 50.7 mg/kg is approximately equal to the conservative USFWS "A" value of 50 mg/kg and only slightly higher than the conservative Dutch Target value of 36 mg/kg (Friday, 1998). Therefore, copper should be dropped from further consideration as a COPC at Group IV.

7.6.2.6 Iron

Iron was a COPC in surface water, sediments, and surface soil. Iron is an essential nutrient and is one of the most common elements in the earth's crust (fourth most abundant). It is rarely toxic in aquatic media at normal pH; all of the surface water samples collected in Hancock Creek contained typical pH values. Stained surface water, such as that in the retention areas, may contain iron concentrations of several milligrams per liter in the presence or absence of dissolved oxygen, but has little effect on aquatic life (USEPA, 1990). For these reasons, iron should be dropped from further consideration as a Step 3A COPC.

7.6.2.7 Lead

Lead was a surface water and surface soil COPC. The three detection of lead in surface water all somewhat exceeded the Region 4 screening level. Lead was not elevated in sediments. The HQ for lead in surface soils was relatively low (HQ = 1.79) and the maximum concentration of 80.9 mg/kg was only slightly higher than the conservative USFWS "A" value of 50 mg/kg and approximately equal to the conservative Dutch Target Value of 85 mg/kg (Friday, 1998). For these reasons, some potential risks from lead in surface water may be present but, overall, the potential risks from lead in Group IV media do not appear to be of sufficient magnitude to warrant its retention as a COPC.

7.6.2.8 Manganese

Manganese was a COPC in surface water and sediment because no USEPA Region 4 screening levels were available. Toxicity data for manganese is scarce. Manganese is a common element in the earth's crust and an essential nutrient. In the sediment, the concentrations and chemical forms in which manganese can occur are affected by pH, cation exchange capacity, and other factors. Lower pH and reducing conditions tend to favor solubility and, hence, the toxicity of manganese in surface waters. For these reasons, manganese should be dropped from further consideration as a Group IV COPC.

7.6.2.9 Mercury

Mercury was a surface soil COPC. It was detected in 1 of 8 samples with a relatively low HQ of 2.9. It was not detected in surface water or sediment. The maximum detection of mercury in surface soils of 0.29 mg/kg was less than the conservative USFWS "A" value of 0.5 mg/kg and the conservative Dutch Target Value of 0.3 mg/kg (Friday, 1998). For these reasons, mercury should be dropped from further consideration as a Group IV COPC.

7.6.2.10 Molybdenum

Molybdenum was a surface water and sediment COPC because no Region 4 screening levels were available. No alternate sediment guidelines were available. Little data exist to help interpret abiotic media concentrations of molybdenum. However, trace quantities of molybdenum are beneficial and may be essential for normal growth of plants and animals (Eisler, 2000). Aquatic plants are relatively resistant to molybdenum, as are freshwater fishes (Eisler, 2000). It can also protect against poisoning by copper or mercury and may be useful in controlling cancer (Eisler, 2000). For these reasons, molybdenum should not be retained as a COPC in Group IV media.

7.6.2.11 Selenium

Selenium was a COPC in surface water. It was a COPC in sediment because no USEPA Region 4 screening level was available. The HQ in surface water was relatively low (HQ = 1.16). No alternate guidelines are available for selenium in sediment, but the one detection in this medium appears to be qualitatively low (0.87 mg/kg). Selenium can be harmful at elevated concentrations, but is an essential nutrient. For these reasons, selenium should not be retained as a Group IV COPC in Step 3A.

7.6.2.12 Thallium

Thallium was a surface water COPC, though the HQ was relatively low (1.65). It was not detected in sediments or in surface soils. For these reasons, thallium should be eliminated from consideration as a Step 3A COPC.

7.6.2.13 Vanadium

Vanadium was a surface water and sediment COPC because no screening level was available. It was a COPC in surface soils with an HQ greater than 1.0.

No suitable alternate guidelines were available for vanadium in sediment. One was available in surface soil; the maximum concentration of vanadium in surface soils (7.0 mg/kg) was less than this value, the ORNL soil microorganism guideline (20 mg/kg). The guidelines appear to be conservative because they are comparable to concentrations of vanadium commonly found in unimpacted areas of military bases. Vanadium is a common element found in all types of substrates (ATSDR, 1997). It can also be found in all types of organisms due to its ubiquitous nature (Klaassen et. al., 1986). Toxicity data for this element are scarce, but it is not generally considered to be toxic in the environment (Mailman, 1980), and it is not known to bioaccumulate or biomagnify. For these reasons, vanadium should be dropped from further consideration as a Group IV COPC.

7.6.2.14 Zinc

Zinc was a surface soil COPC. The maximum concentration of zinc in surface soils was somewhat elevated. However, the average concentration of 66.8 mg/kg was less than the conservative USFWS "A" value of 200 mg/kg and the conservative Dutch Target Value of 140 mg/kg (Friday, 1998). For these reasons, zinc should be dropped from further consideration as a Group IV COPC.

7.6.3 Organics

7.6.3.1 Volatile Organic Compounds

VOCs were detected in surface water and sediment and only a few ecological screening levels were available. Alternate guidelines for these compounds are scarce, but are generally quite high when available. Overall, frequencies of detection were low and concentrations appear to be qualitatively low in sediments and surface soils. VOCs do not bioaccumulate or biomagnify and are generally of low ecotoxicological significance due to their mode of action, carcinogenicity, which is generally irrelevant for ecological receptors. For these reasons, VOCs should not be retained as COPCs in Step 3A.

7.6.3.2 Polycyclic Aromatic Hydrocarbons

Several polycyclic aromatic hydrocarbons were COPCs in surface soils. HQs were relatively low (HQs = 1.8 or less) for individual polycyclic aromatic hydrocarbons, suggesting low potential risks. All of the maximum concentrations of polycyclic aromatic hydrocarbons were in Sample SS-04 (Table 7-3). All

of the other detections in Group IV surface soils were much less. This suggests localized potential risks at sample location SS-04. The maximum concentration for total polycyclic aromatic hydrocarbons of 0.99 mg/kg was less than the Dutch Intervention value for polycyclic aromatic hydrocarbons of 40 mg/kg and USFWS "C" value of 200 mg/kg.

Furthermore, food chain uptake is generally not considered to be a major exposure route for polycyclic aromatic hydrocarbons for aquatic organisms (ATSDR, 1990). Polycyclic aromatic hydrocarbons have strong affinities for organic carbon in sediments, which generally reduces their bioavailability. Although polycyclic aromatic hydrocarbons can accumulate in terrestrial and aquatic organisms, most organisms are able to metabolize and eliminate these compounds. Vertebrates can readily metabolize most polycyclic aromatic hydrocarbons (ATSDR, 1990).

For these reasons, although some localized potential risks may be present in surface soils, these potential risks do not appear to be of sufficient magnitude to warrant retention of polycyclic aromatic hydrocarbons as COPCs at Group IV.

7.6.3.3 Additional SVOCs

Aniline, 3-methylphenol, and 4-methylphenol were detected in one surface water sample (SW-01). No Region 4 screening levels were available for these SVOCs. They were not detected in any other medium. Diethyl phthalate was detected in one sediment sample, and no Region 4 screening level was available. It was not detected in any other medium. No alternate guidelines were available.

Aniline, 3-methylphenol, 4-methylphenol, and diethyl phthalate are generally not considered to be ecotoxic and their spotty detections do not appear to pose widespread potential risks. However, without site-specific data for these organics, their potential risks cannot be fully assessed.

7.6.3.4 Pesticides/PCBs

Two pesticides were COPCs in surface water and several pesticides were COPCs in sediments and surface soils.

4,4'-DDE was a COPC in Group IV surface soils. It was detected in 1 of 8 samples at a relatively low HQ (HQ = 1.08). The maximum detection of this compound of 0.0027 mg/kg was less than the Dutch Intervention value of 4.0 mg/kg for total dichlorodiphenyltrichloroethane (DDT) and less than the USFWS value of 0.1 mg/kg for individual organochlorine pesticides. Overall, the concentration of 4,4'-DDE in

Group IV surface soils appears to be indicative of historical, legal use of these pesticides. Thus, the Group IV area does not appear to be a source of pesticide contamination.

7.7 SCREENING-LEVEL AND STEP 3A UNCERTAINTY ANALYSIS

Uncertainty is associated with all aspects of the ERA process. This section provides a summary of the uncertainties involved in each step of the ERA process, with a discussion of how they may affect the final risk values and conclusions.

7.7.1 Uncertainty in the Preliminary Problem Formulation

Measures of effects (i.e., measurement endpoints) are used to evaluate the assessment endpoints that are selected for the ERA. For the most part, the measures of effects are not the same as the assessment endpoints. By selecting surrogate species for evaluation, the measures are used to predict effects to the assessment endpoints. This use of surrogate species adds uncertainty to the assessment due to the differences in toxicity and modes of toxicity to different species or groups of receptors.

7.7.2 Uncertainty in the Ecological Effects Characterization

Some chemicals were present in Group IV media for which no toxicity data were available. These chemicals were selected as COPCs, including some VOCs and inorganics. They were eliminated in nearly all instances for qualitative reasons, but without adequate toxicity data, their ecotoxicity cannot be fully assessed.

Little data exist for investigating risks to reptiles and amphibians in the Group IV area. As a result, direct conclusions about the potential risks to reptiles and amphibians cannot be made, and only qualitative inferences can be drawn. Given the relatively low overall ecological risks associated with Group IV, unacceptable risks to reptiles and amphibians are unlikely.

7.7.3 Uncertainty in the Exposure Assessment

Uncertainty in the exposure assessment arises from the low sample size for surface water and sediments. However, the drainage areas represent the only aquatic habitat that is of ecological concern at Group IV, which is located in a highly developed portion of the base.

The detection limits for site media can also carry uncertainties. That is, it is possible that high detection limits could result in "false negatives," where concentrations are actually present that could result in potential risks. In these cases, the detection limits are normally higher than the screening levels. For the most part, however, the detection limits were those commonly achieved for these analyses, and could

only be lowered by employing seldom-used and complicated laboratory methodologies. Nonetheless, the detection limits for some chemicals introduce uncertainty in the ERA.

7.7.4 Uncertainty in the Risk Calculation

Uncertainty in risk calculation stems, in part, from combining different components of the ERA in this step. Each of those components already contains uncertainty. Thus, uncertainties may be propagated when these components are combined. Uncertainty is associated with the potential for additive, antagonistic, synergistic, or ameliorative effects of chemicals detected in Group IV media. In most cases, little or no data or methodologies exist for quantifying these types of effects and, thus, they cannot be fully assessed.

To try to reduce the overall uncertainty in the risk assessment, the weight of evidence approach is used to make risk decisions. This approach takes the results of all aspects of the assessment into account, including the uncertainties, to make determinations of acceptable risk/unacceptable risk.

7.8 STEP 3A SUMMARY AND CONCLUSIONS

A screening-level ecological risk assessment was performed for the Group IV sites at NAVSTA Mayport. Some inorganics, polycyclic aromatic hydrocarbons, and pesticides were selected as COPCs because their maximum concentrations in surface water, sediment, and/or surface soil exceeded Region 4 screening levels. A Step 3A analysis was conducted for the COPCs that remained after the screening-level analysis. The Step 3A analysis indicated that some low potential risks were present from some chemicals, including lead in surface water, and zinc and polycyclic aromatic hydrocarbons in surface soils. However, the elevated detections of these chemicals were spotty and in most cases, confined to a single sample. Most importantly, the Group IV area is located in a highly developed and industrialized area, with a significant amount of human use and human disturbance. As a result, further ecological risk assessment or ecological risk management appears to be unwarranted for the Group IV area.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 CONCLUSIONS

The RFI identified the following items for Group IV:

SWMUs 47 and 53

Subsurface Soil

- Four VOCs were detected in the subsurface samples collected from SWMUs 47 and 53. There were no detections exceeding regulatory criteria.
- Two SVOCs [benzo(a)pyrene and hexachlorobenzene] and three inorganics (arsenic, copper, and vanadium) were detected in the subsurface soil samples above FDEP SCTL residential criteria. Both SVOCs and one inorganic (arsenic) also exceeded the FDEP SCTL industrial criteria. Hexachlorobenzene was detected above the FDEP SCTL industrial criterion and at a concentration equivalent to its FDEP SCTL leaching criterion in one sample.

Groundwater

- One VOC (benzene), two SVOCs [bis(2-ethylhexyl)phthalate and carbazole], and six inorganics (aluminum, arsenic, iron, manganese, sodium, and thallium) were detected above FDEP GCTLs in the groundwater screening samples collected at Group IV.
- One VOC (vinyl chloride), one SVOC [bis(2-ethylhexyl)phthalate], and four inorganics (iron, manganese, sodium, and thallium) were detected above FDEP standards in the groundwater monitoring well samples collected. There were significantly fewer detections of iron and manganese above their respective background screening values than their respective FDEP standards.

SWMU 55

Subsurface Soil

- One VOC, 10 SVOCs, one pesticide, one PCB, and 18 inorganics were detected in the stormwater conveyance soil samples collected. There were no VOCs, SVOCs, pesticides, or

PCBs detected in the surface soil samples above FDEP standards. Arsenic was the only inorganic analyte reported at concentrations above the residential FDEP SCTL (0.8 µg/kg) in samples MPT-55-SS01-01 (0.92 µg/kg), MPT-55-SS04-01 (0.83 µg/kg), and MPT-55-SS08-01 (1.3 µg/kg). Arsenic was also detected above the USEPA Region IX PRG (0.39 mg/kg) in every surface soil sample collected at SWMU 55. There were no detections above the FDEP SCTL or USEPA Region IX PRG industrial value.

- An IM for the ditch in front of Building 191 is scheduled to be performed in 2004. The completion report providing the IM activities and data will be provided in the CMS.

Surface Water

- Two SVOCs and one inorganic were reported at values exceeding FDEP standards in the surface water samples collected at SWMU 55.

Sediments

- There were no detections in the sediment samples above benchmark values for sediment standards. However, the retention basin in which the sample was collected is dry for extended periods of the year. Consequently, the analytical results were compared to FDEP surface soil standards. There was one inorganic analyte (arsenic) detected in a sample that occurred above FDEP standards.

The HHRA identified the following items for Group IV:

- Noncancer risk estimates [Hazard Indices (HIs)] developed for the base worker, the construction worker, the adult trespasser, and the adolescent trespasser are equal to or less than 1, indicating that adverse noncarcinogenic effects are not anticipated under the conditions considered in the risk assessment. HIs developed for the hypothetical future resident adult and child exceed 1.0. HIs developed for individual COPCs and target organs do not exceed 1.0.
- The ILCR estimate for the construction worker (3.2E-07) does not exceed the USEPA target risk range (1E-04 to 1E-06) or the State of Florida cancer risk benchmark (1E-06).
- The ILCR estimates for the base worker (8.6E-06) and trespasser (1.1E-05) exceed the conservative end of the USEPA target risk range (1E-06). Risk from exposure to benzo(a)pyrene (equiv) in surface soil exceeds 1E-06 for both receptors.

- The ILCR estimate for the hypothetical future resident (2.1E-04) exceeds the USEPA target risk range (1E-04 to 1E-06). Risk from exposure to benzo(a)pyrene (equiv), Aroclor-1260, and arsenic in surface soil, and arsenic, vinyl chloride, and carbazole in groundwater exceeds 1E-06. The EPCs for both arsenic and vinyl chloride in groundwater are below their respective GCTLs.

The ERA identified the following items for Group IV:

- The screening-level ERA concluded that some inorganics, polycyclic aromatic hydrocarbons, and pesticides were selected as COPCs because their maximum concentrations in surface water, sediment, and/or surface soil exceeded Region 4 screening levels.
- The Step 3A analysis indicated that some low potential risks were present from some chemicals, including lead in surface water, and zinc and polycyclic aromatic hydrocarbons in surface soils. However, the elevated detections of these chemicals were spotty and in most cases, confined to a single sample.
- The Group IV area is located in a highly developed and industrialized area, with a significant amount of human use and human disturbance. As a result, further ecological risk assessment or ecological risk management appears to be unwarranted for the Group IV area.

8.2 RECOMMENDATIONS

It is recommended that additional delineation be performed to identify the extent of contamination present in the surface and subsurface soil at three areas along the Group IV SWMUs. Due to the linear nature of the Group IV SWMUs and limited extent of the contamination present, specific investigation “areas” within the SWMUs will be created. This will allow for a focused investigation and limit the areal extent potentially requiring a remedial action. Area 1 will include sample MPT-G4-B20, with an industrial exceedance of benzo(a)pyrene. Area 2 will include sample MPT-G4-B06, with an industrial exceedance of hexachlorobenzene. Area 3 will include sample MPT-G4-B49, with an industrial exceedance of arsenic. A letter report presenting the results and recommendations for the three specific areas will be issued as an RFI addendum.

After completion of the additional activities, a CMS to evaluate and recommend a remedial action to mitigate soil and groundwater contamination at the Group IV SWMUs will be completed. At a minimum, the CMS should evaluate the implementation of natural attenuation of COPCs in groundwater and land use controls.

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APPENDIX A

**USGS MODEL ESTIMATING GROUNDWATER FLOW
AT NAVSTA MAYPORT**

Ground-Water Flow in the Surficial Aquifer System and Potential Movement of Contaminants from Selected Waste-Disposal Sites at Naval Station Mayport, Florida

By Keith J. Halford

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 97-4262

Prepared in cooperation with the

Southern Division,
Naval Facilities Engineering Command,
U.S. Navy

Tallahassee, Florida
1998



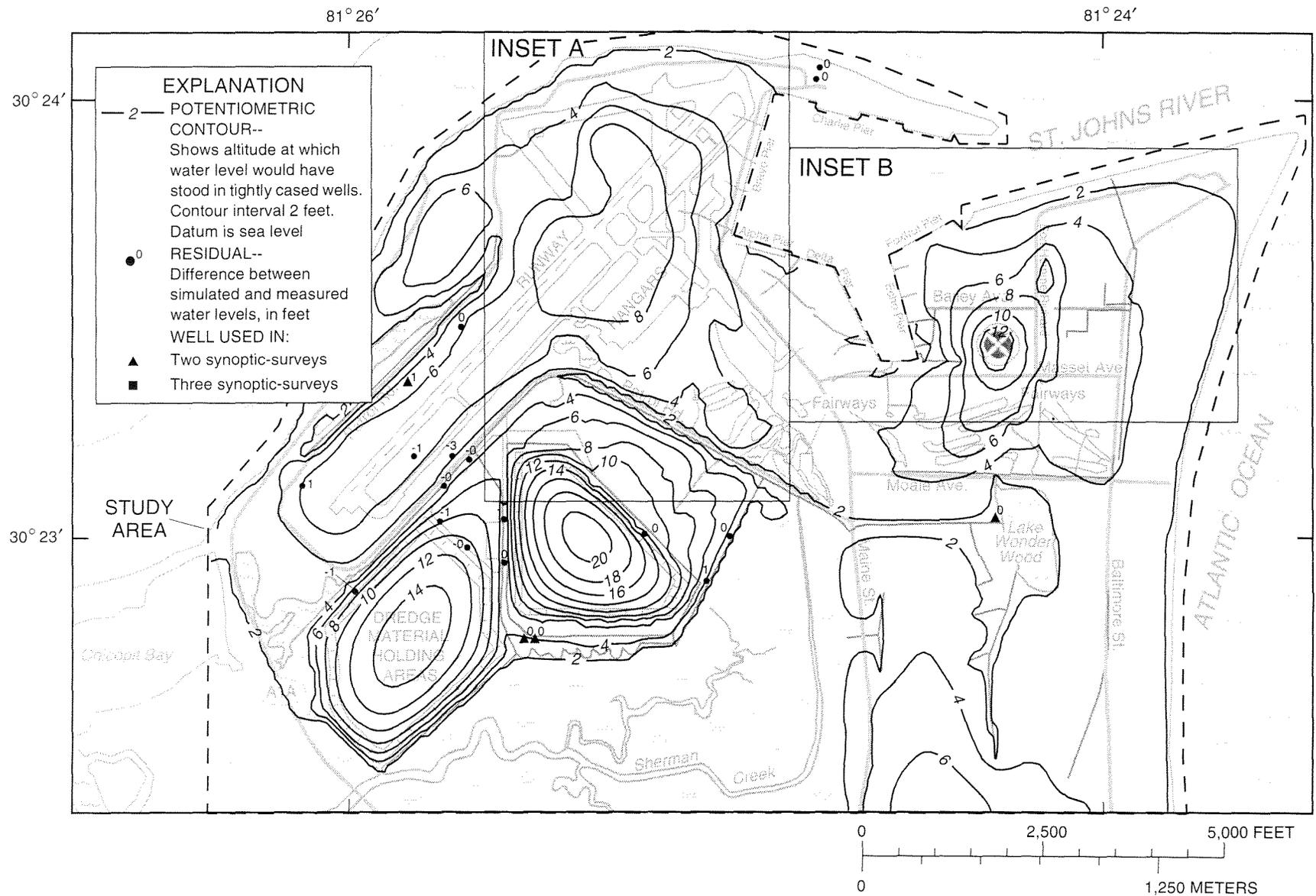


Figure 19. Simulated potentiometric surface of the S-zone (layer 1) on July 17, 1995.

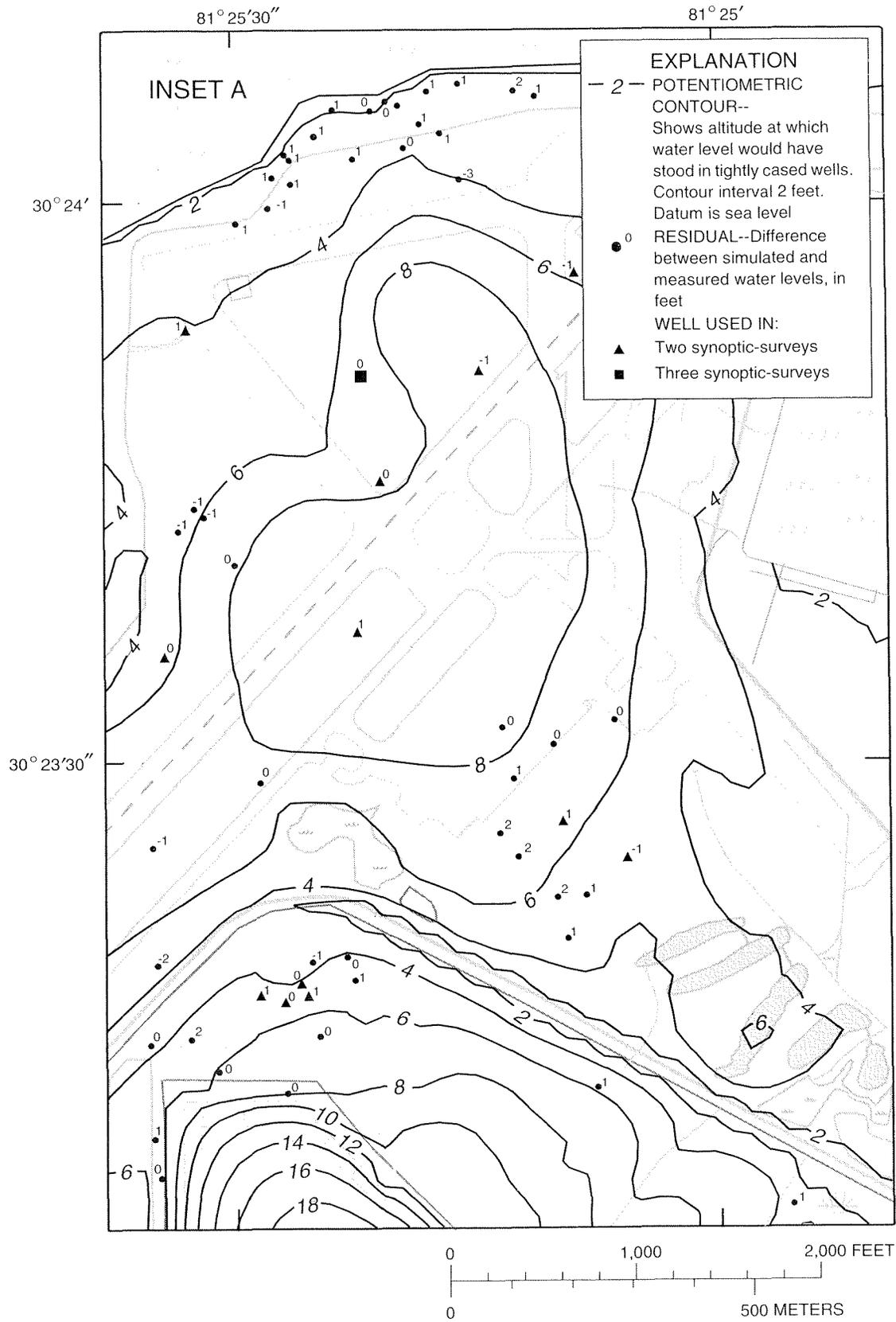


Figure 19. Inset A.

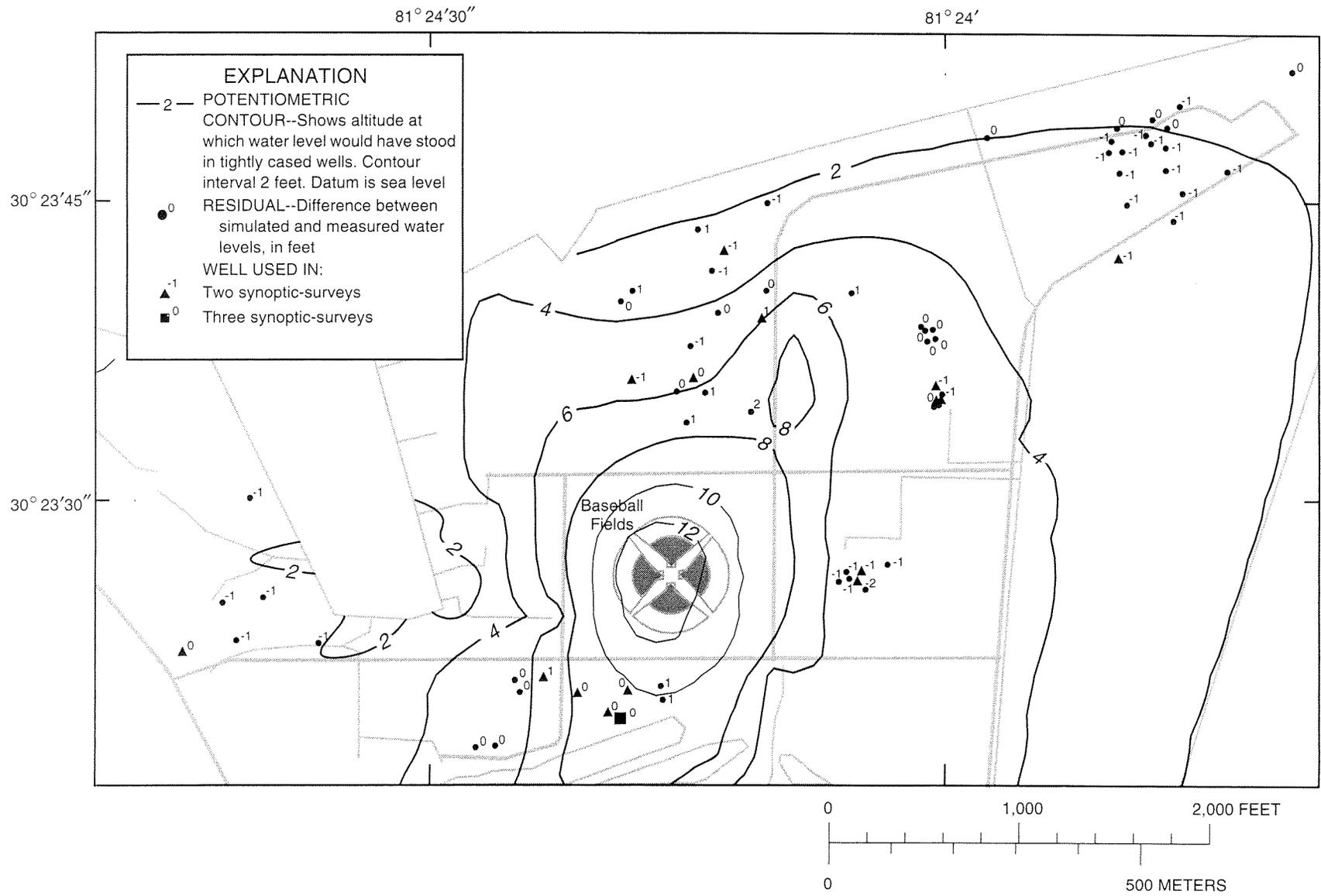


Figure 19. Inset B.

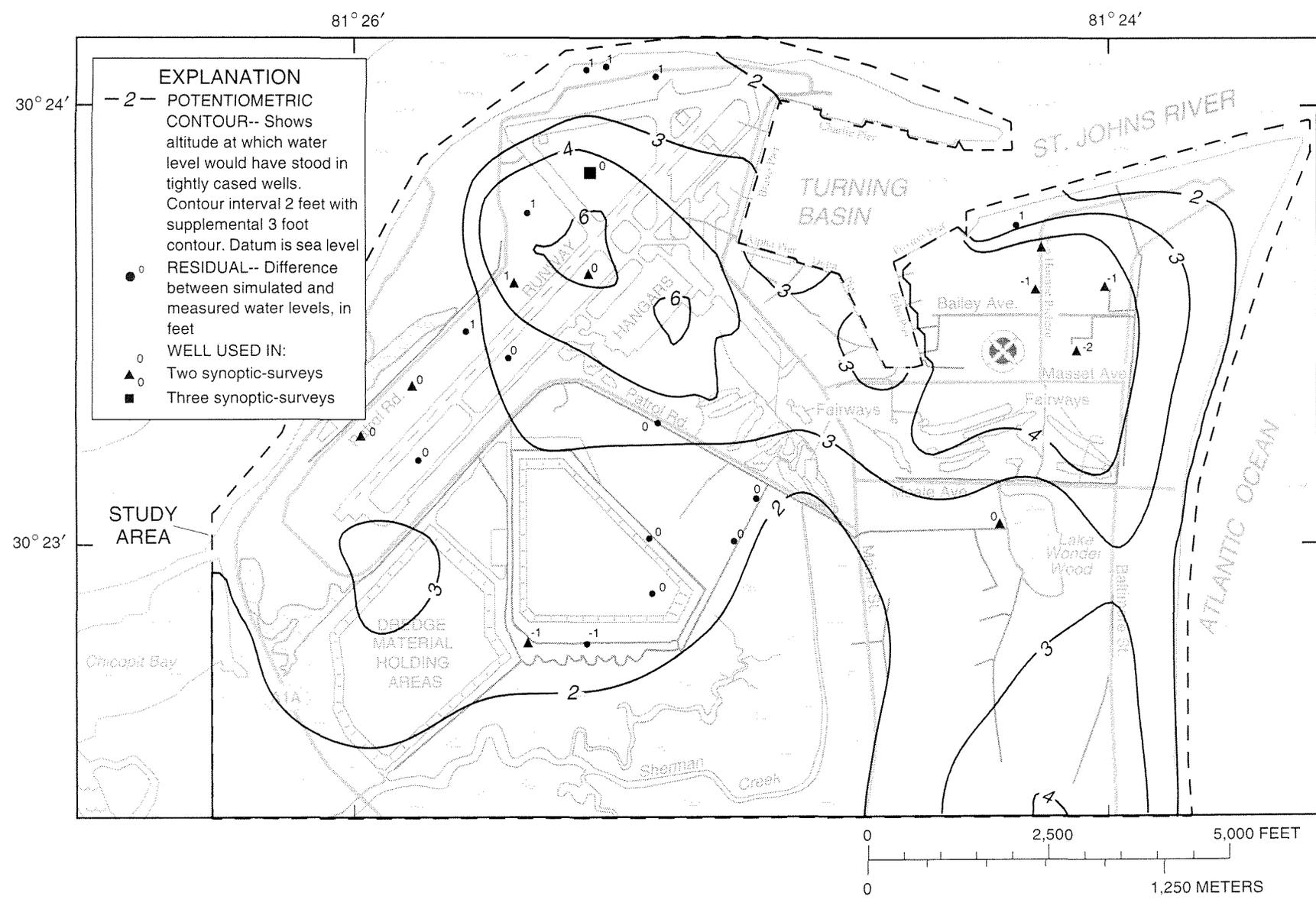


Figure 20. Simulated potentiometric surface of the I-zone (layer 2) on July 17, 1995.

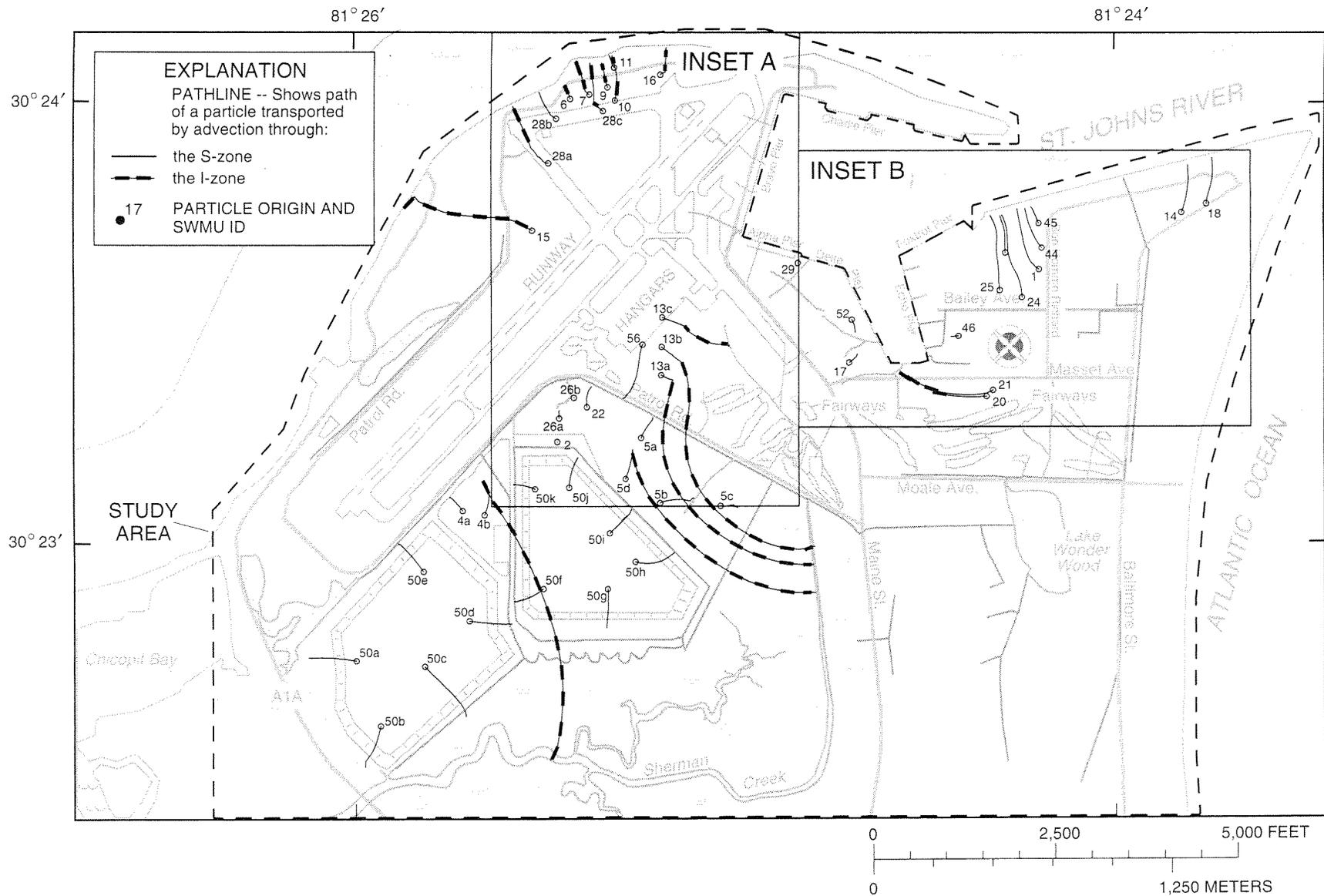


Figure 34. Pathlines from selected sites at the water table to their discharge points simulated by the steady-state model using the average 1996 flow field.

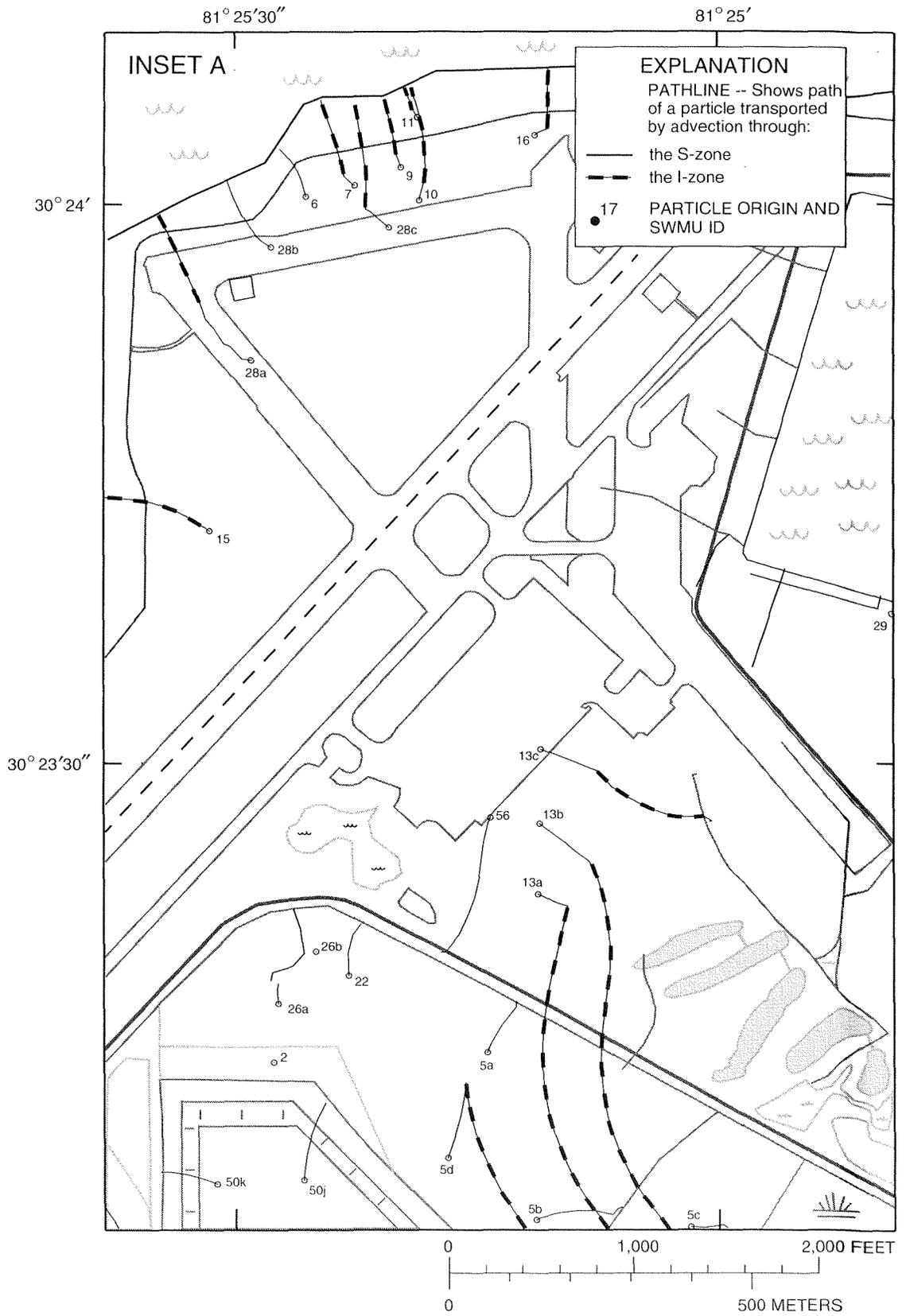


Figure 34. Inset A.

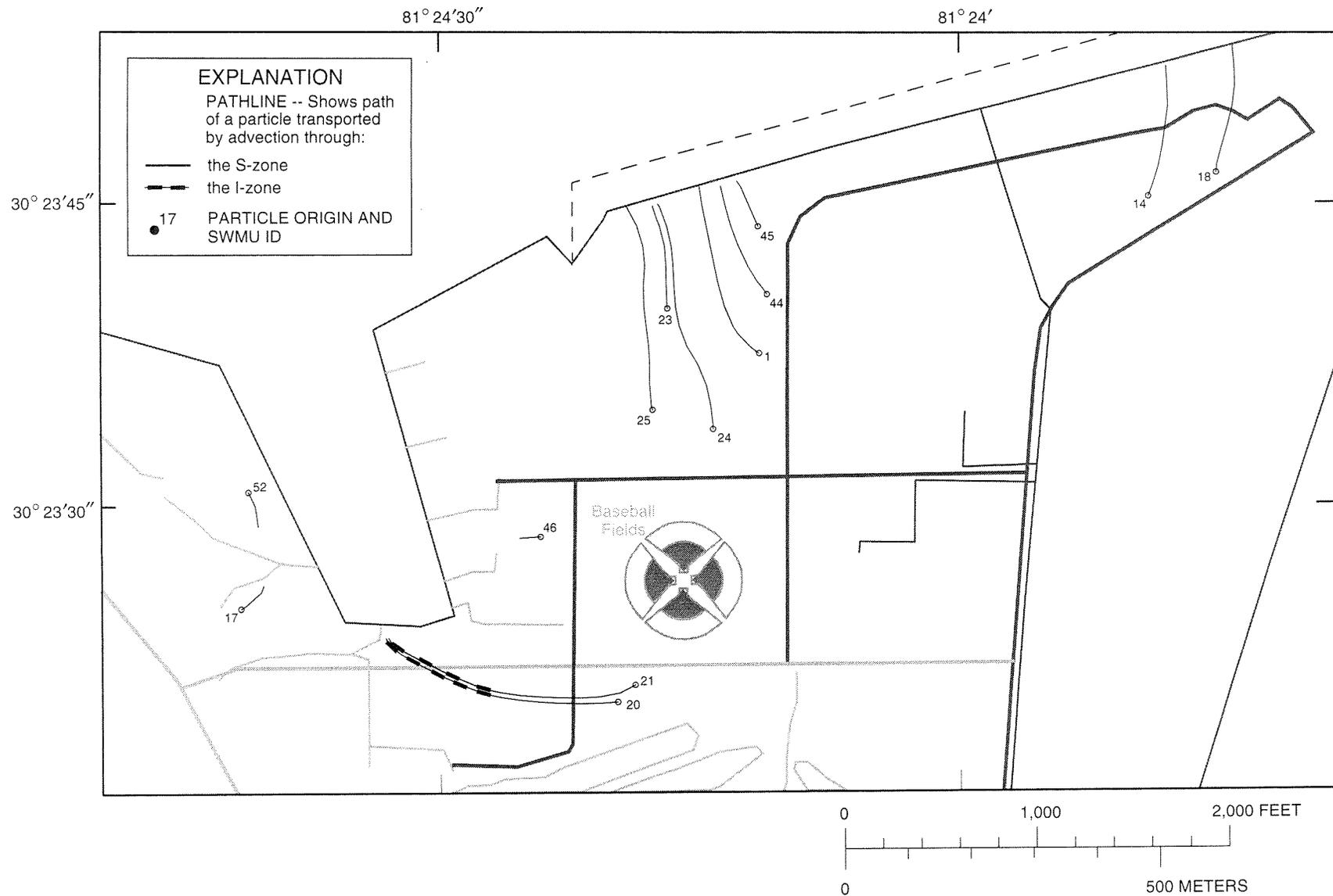


Figure 34. Insert B.

APPENDIX B
GROUP IV RFA/SV



March 18, 1999

Southern Division
Naval Facilities Engineering Command
ATTN: Ms. Adrienne Wilson (Code 1852)
P.O. Box 190010
2155 Eagle Drive
North Charleston, SC 29418

SUBJECT: Group IV Sampling Event
U.S. Naval Station (NAVSTA), Mayport, Florida
Navy CLEAN District I CTO #0028
Contract No. N62467-89-D-0317

Dear Adrienne:

This report provides the results of a limited sampling event at Group IV. The Group IV sites are located in the northern and westcentral parts of NAVSTA Mayport (Figures 1 and 2, Attachment A). The sampling event consisted of collecting surface water, sediment, and subsurface soil samples, installing microwells, and collecting groundwater samples. The sampling locations were selected to be where potential releases to the environment may have occurred. It is our understanding that the analytical results from this limited sampling event will be used by the Navy to characterize the potential for risk to human health and the environment, and prioritize funding for the Group IV sites.

Sampling and well installation procedures were in general accordance with those described in the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Workplan for NAVSTA Mayport, Florida (ABB Environmental Services, Inc. [ABB-ES], 1991); the RCRA, the Corrective Action Program General Information Report, NAVSTA, Mayport (ABB-ES, 1995), Florida, and the U.S. Environmental Protection Agency (USEPA) Standard Operating Procedures (USEPA, 1996).

Surface water samples were collected by dipping a decontaminated glass beaker below the water surface. The beaker was then used to transfer the sample to the appropriate sample containers.

Sediment and subsurface soil samples were collected using a decontaminated 4-inch diameter stainless-steel hand auger. A sediment sample was collected below the



water/sediment interface to a depth of 1 foot when surface water was present or from the land surface to a depth of 1 foot when surface water was not present. Subsurface soil samples were collected after using the hand auger to drill to the desired sampling interval (a one foot interval along side a utility pipe or the one foot interval above the water table that was measured at the time of drilling).

The majority of the collected sediment or soil was removed from the hand auger with a stainless-steel spoon and transferred to a stainless-steel mixing bowl. The sample was thoroughly mixed and aliquots for analysis of semivolatile organics, pesticides, polychlorinated biphenyls, and inorganics were transferred to the appropriate sample container. The aliquot for analysis of volatile organics was transferred directly from the hand auger to the sample container.

Direct push monitoring wells were installed using the Navy's Site Characterization Analysis and Penetrometer System rig. The well installation materials were made of materials manufactured by Geoprobe®. The well materials consist of ½-inch inner diameter schedule 40 polyvinylchloride (PVC) riser pipe attached (screw threaded) to a PVC screen with 0.01 inch slots. The screen is covered with a pre-packed silica seal that is held in place by a stainless steel screen mesh. Each screen was made of two 3 feet long screen sections. Records of the well installations are provided in Attachment B.

Groundwater samples were collected from monitoring wells using the low flow purging and sampling protocol. The low-flow protocol results in samples that are considered representative of dissolved and colloidal elements and/or complexes present in the aquifer zone that is adjacent to the well screen (Puls and Powell, 1992; Kearn, et al., 1994; Barcelona, et al., 1994). The purging and sampling procedures followed established standard protocols (ABB-ES, 1995 and U.S. Environmental Protection Agency [USEPA], 1996).

Temperature, pH, specific conductivity, salinity and turbidity were measured during the purging of the wells. Purging was judged to be sufficient when the temperature, pH, and specific conductance measurements stabilized.

The groundwater samples were placed in a cooler refrigerated with ice and submitted overnight under chain of custody protocol to the analytical laboratory. The groundwater sample was analyzed for volatile organics, semivolatile organics, pesticides, polychlorinated biphenyls and metals. Analytical results are provided in Attachment C.

Sample holding times were met, and the laboratory did not report any significant deviations from the analytical protocol. This suggests that the analytical results are of sufficient quality to characterize chemicals present in the surface water, sediment, subsurface soil, and groundwater samples.

Below are the results of the Group IV sampling event.

Group IV Surface Water and Sediment Samples Three surface water and five sediment samples were collected in various areas in Group IV (Attachment D, Table 1, and Figure 2). Sampling locations include, two near the NEX gas station, one near Building 191, one near Commander Carrier Group 8 headquarters building, and one at the golf course across from the Aircraft Intermediate Maintenance Depot Area (Figure 2).

Surface Water Samples: Surface water was encountered at only three of the sampling locations, MPT-55-SW01, MPT-55-SW03, and MPT-55-SW04 (Figure 2, and Table 1). The surface water samples contained one volatile organic compound (VOC) (acetone), three semivolatile organic compounds (SVOCs) (butylbenzylphthalate, di-n-butylphthalate, and bis(2-ethylhexyl)phthalate), and 4 inorganics (barium, lead, tin, and zinc).

lead Butylbenzylphthalate and zinc were detected at concentrations that exceed their respective Florida Surface Water Quality Criteria for Class III freshwater, and zinc exceeded the Class III marine criteria (Table 1).

Pesticides and PCBs, if present, were not detected at concentrations exceeding their respective detection limits.

Sediment Samples: The sediment samples contained five VOCs (2-butanone, acetone, carbon disulfide, methylene chloride, and tetrachloroethene), twelve SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, di-n-butylphthalate, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, and bis(2-ethylhexyl)phthalate), two pesticides (chlordane, and heptachlor), and 14 inorganics (antimony, arsenic, barium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, silver, tin, vanadium, and zinc) (Tables 2 and 3).

Concentrations of benzo(a)pyrene, chlordane, arsenic, barium, copper, lead, and vanadium exceed Florida Department of Environmental protection (FDEP) soil cleanup target levels (SCTLs) for an industrial exposure under Chapter 62-777 Florida Administrative Code (FAC) (Tonner-Navarro, and Roberts, 1998) (Table 4). Concentrations of antimony, cadmium, chromium, and lead exceed leachability screening criteria under Chapter 62-777 FAC.

Concentrations of barium, cadmium, chromium, copper, vanadium and zinc exceeded their respective background screening concentrations (Table 4).

Sanitary Sewer System (SWMU 53): Subsurface soil and groundwater samples were collected in the vicinity of pump stations and pressure mains for the Stations sanitary sewer system. The soil and groundwater samples were collected in the vicinity of a pump station for the sanitary sewer system located north of Lake Wonderwood on the north side of at Moale Avenue, and northeast of the Commander for Carrier Group Eight Headquarters. Because of the proximity of the sewer line to the oily waste line, sample location MPT-53-MW05S, (the possible location of a release from the oily waste line), was included in this group.

Subsurface Soil Samples: One VOC (acetone) and six SVOCs (benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, di-n-butylphthalate, and bis(2-ethylhexyl)phthalate) were detected in the subsurface soil samples (Tables 5 and 6). Twelve inorganic analytes (antimony, arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc) detected in the subsurface soil samples.

The only SVOC detected at sample location MPT-53-MW05S was a phthalate compound. Polynuclear aromatic hydrocarbons (PAHs), which are indicators of the release of petroleum were at concentrations, if present, less than the detection limit in the subsurface soil sample from MPT-53-MW05S.

The aforementioned PAHs (benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene) were detected at sample location MPT-53-MW04S, which was located along Moale Avenue adjacent to a sanitary sewer pump station.

None of the organic or inorganic analytes were detected in the SWMU 53 subsurface soil samples at concentrations that exceed the FDEP industrial SCTLs under Chapter 62-777 FAC (Table 7). Chromium was detected at a level that exceeded the leachability screening criteria under Chapter 62-777 FAC.

Concentrations of arsenic, barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc exceeded their respective background screening concentrations (Table 7).

Groundwater Samples: The groundwater samples contained two VOCs (2-butanone and acetone), and two SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate) and four inorganic analytes (barium, lead, nickel, and tin) (Tables 8 and 9).

One groundwater sample collected near the Lake Wonderwood pump station contained nickel (139 micrograms per liter, [$\mu\text{g}/\text{l}$]) at a concentration that exceeded the FDEP groundwater guidance concentration (100 $\mu\text{g}/\text{l}$) (Table 10). The well was resampled on January 15, 1998. Nickel, if present, was not detected in this sample at a concentration that exceeded the 20 $\mu\text{g}/\text{l}$ detection limit.

Concentrations of barium and lead exceeded their respective background screening concentrations (Table 10).

Pesticides and PCBs, if present, were not detected in either the subsurface soil, or groundwater samples at concentrations that exceeded the detection limit.

Bravo Pier Seven subsurface soil and groundwater samples (locations MPT-47-MW01S through MPT-47-MW07S) were collected along Bravo Pier. Locations MPT-47-MW01S through MPT-47-MW07S were located near pier risers or pipe joints where the pipe line changed direction. Locations MPT-47-MW06S and MPT-47-MW07S were near a break in the sanitary sewer and oily waste pipe lines. Location MPT-47-MW08S was at the location of a valve box, where a leak occurred in the past. Locations MPT-47-MW09S and MPT-47-MW10S were at the influent and effluent sides of a collection sump/pump station for the oily waste pipe line. The SWMU 47 samples also include a subsurface and groundwater sample (MPT-47-MW11S), collected along Charlie pier near a septic tanks that was utilized at the Boatswains Locker area for wastewater disposal. The septic tank was utilized prior to the construction of the Station's sanitary sewer system. The subsurface soil and groundwater samples collected from location MPT-47-MW11S were included with SWMU 47 because of the detection of PAHs.

Subsurface Soil Samples: The subsurface soil samples contained two VOCs (acetone and methylene chloride), 19 SVOCs (2-methylnaphthalene, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, butylbenzylphthalate, chrysene, dibenz(a,h)anthracene, dibenzofuran, di-n-butylphthalate, fluoranthene, fluorene, indeno(1,2-cd)pyrene, phenanthrene, pyrene and bis(2-ethylhexyl)pht*pl697X and 10 inorganics (antimony, arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) (Tables 11 and 12).

16 vs 20 ?
Benzo(a)pyrene was detected at a concentration that exceeded its FDEP SCTL for an industrial exposure under Chapter 62-777 FAC (Table 13). Concentrations of methylene chloride, 2-methylnaphthalene, and benzo(a)pyrene exceed their respective leachability screening criteria under Chapter 62-777 FAC.

Arsenic, barium, chromium, cobalt, copper, lead, vanadium, and zinc were detected at concentrations that exceed their respective background screening concentration (Table 13).

Groundwater Samples: The groundwater samples contained five VOCs (1,2-dichloroethene, acetone, ethylbenzene, methylene chloride, and xylenes), 13 SVOCs (2-methylnaphthalene, acenaphthene, acetophenone, anthracene, dibenzofuran, di-n-butylphthalate, fluoranthene, fluorene, naphthalene, phenanthrene, phenol, pyrene, and bis(2-ethylhexyl)phthalate), and seven inorganics (arsenic, barium, chromium, copper, lead, tin, and zinc) (Tables 14 and 15).

Acenaphthene
|
when
|
Acetophenone, and thallium were detected at concentrations that exceed their respective FDEP groundwater guidance concentrations (Table 16). Barium, chromium, copper, lead, selenium, silver, and zinc were detected at concentrations that exceed their respective background screening concentrations.

Pesticides and PCBs, if present, were not detected at concentrations exceeding their respective detection limits in either the subsurface soil, or groundwater samples.

Building 38 Public Works Shop Three subsurface soil samples and groundwater samples were collected at this site.

Subsurface Soil Samples: The subsurface soil samples contained one VOC (acetone), three SVOCs (di-n-butylphthalate, pyrene, and bis(2-ethylhexyl)phthalate), two pesticides (4,4'-dichlorodiphenyltrichloroethane [DDT], and 4,4'-dichlorodiphenyldichloroethylene [DDE]), and 12 inorganics (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc) (Tables 17 and 18).

Arsenic was detected at a concentration that exceeded its FDEP industrial soil cleanup criteria at location MPT-PW-MW01S (Tables 17 and 19). An additional surface and subsurface soil sample pair were collected at this location on January 16, 1998. Arsenic, if present, was not detected at concentrations exceeding the 0.54 mg/kg detection limit in either of the samples.

Chromium was detected at a concentration that exceeded its leachability screening criteria under Chapter 62-777 FAC.

Arsenic, barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc were detected at concentrations that exceed their respective background screening concentration (Table 19).

PCBs, if present, were not detected at concentrations exceeding their respective detection limits in the subsurface soil samples.

Groundwater Samples: The groundwater samples contained two VOCs (acetone and methylene chloride), three SVOCs (acenaphthene, di-n-butylphthalate, and bis(2-ethylhexyl)phthalate), and one inorganic (tin) (Tables 20 and 21).

Bis(2-ethylhexyl)phthalate was detected at a concentration that exceeded its groundwater guidance concentration (Table 22).

Pesticides and PCBs, if present, were not detected at concentrations exceeding their respective detection limits in groundwater samples.

Former Shore Intermediate Maintenance Area (Buildings 37 and 46) Septic tanks were utilized at this maintenance area for wastewater disposal prior to the construction of the Station's sanitary sewer system. Two subsurface soil samples and three groundwater samples were collected at this site.

Subsurface Soil Samples: The soil samples contained one VOC (methylene chloride), two SVOCs (di-n-butylphthalate and bis(2-ethylhexyl)phthalate, and eightics (arsenic, barium, chromium, copper, lead, nickel, vanadium, and zinc) (Tables 23 and 24).

None of the analytes were detected in the subsurface soil samples at concentrations that exceed their respective industrial SCTLs or leachability criteriar Chapter 62-777 FAC (Table 25).

Chromium, lead, vanadium and zinc were detected at concentrations that exceed their respective background screening criteria.

Groundwater Samples: The groundwater samples contained two VOCs (acetone and methylene chloride), one SVOC (di-n-butylphthalate), and 4 inorganics (chromium, lead, tin, and zinc) (Tables 26 and 27).

None of the analytes were detected at a concentration that exceed their respective FDEP groundwater guidance concentrations (Table 28). Chromium was detected at a concentration that exceeded its background screening concentration.

Pesticides and PCBs, if present, were not detected at concentrations exceeding their respective detection limits in either the subsurface soil, or groundwater samples.

The information for the Group IV sampling event was prepared under the direction of a Florida Registered Professional Geologist. The work rendered herein was conducted or developed in accordance with commonly accepted protocols and procedures. If conditions are discovered or determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information in this document. This document was prepared to provide information for the Navy to characterize the potential for risk to human health and the environment, and prioritize funding for the NAVSTA Mayport, Florida Group IV sites. The information contained herein should not be construed to apply for any other purpose or site.

If you have any questions concerning the above information please contact me.

Sincerely,

Harding Lawson Associates, Inc.


Francis K. Lesesne, P.G.
Technical Lead

cc: Randy Bishop, NAVSTA Mayport
Jim Cason, FDEP
Martha Berry, USEPA

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ATTACHMENT A

Figures

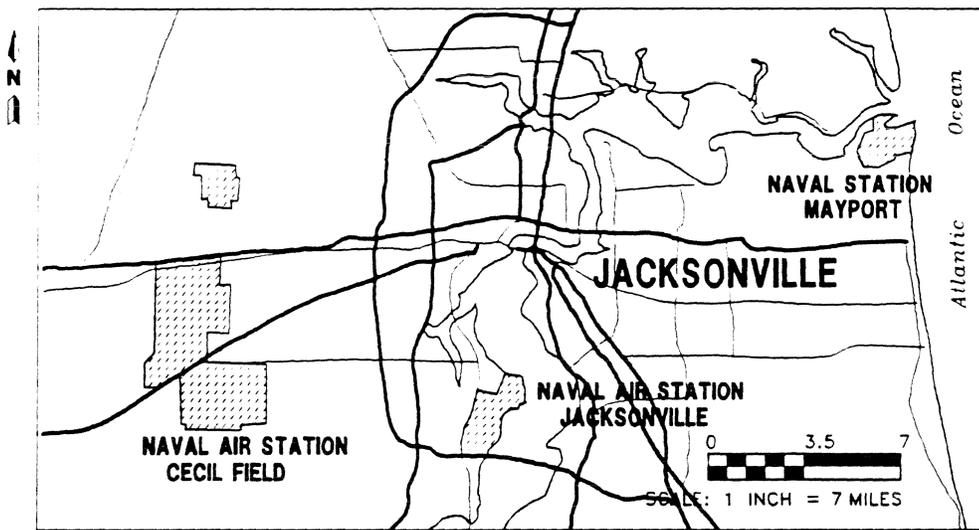
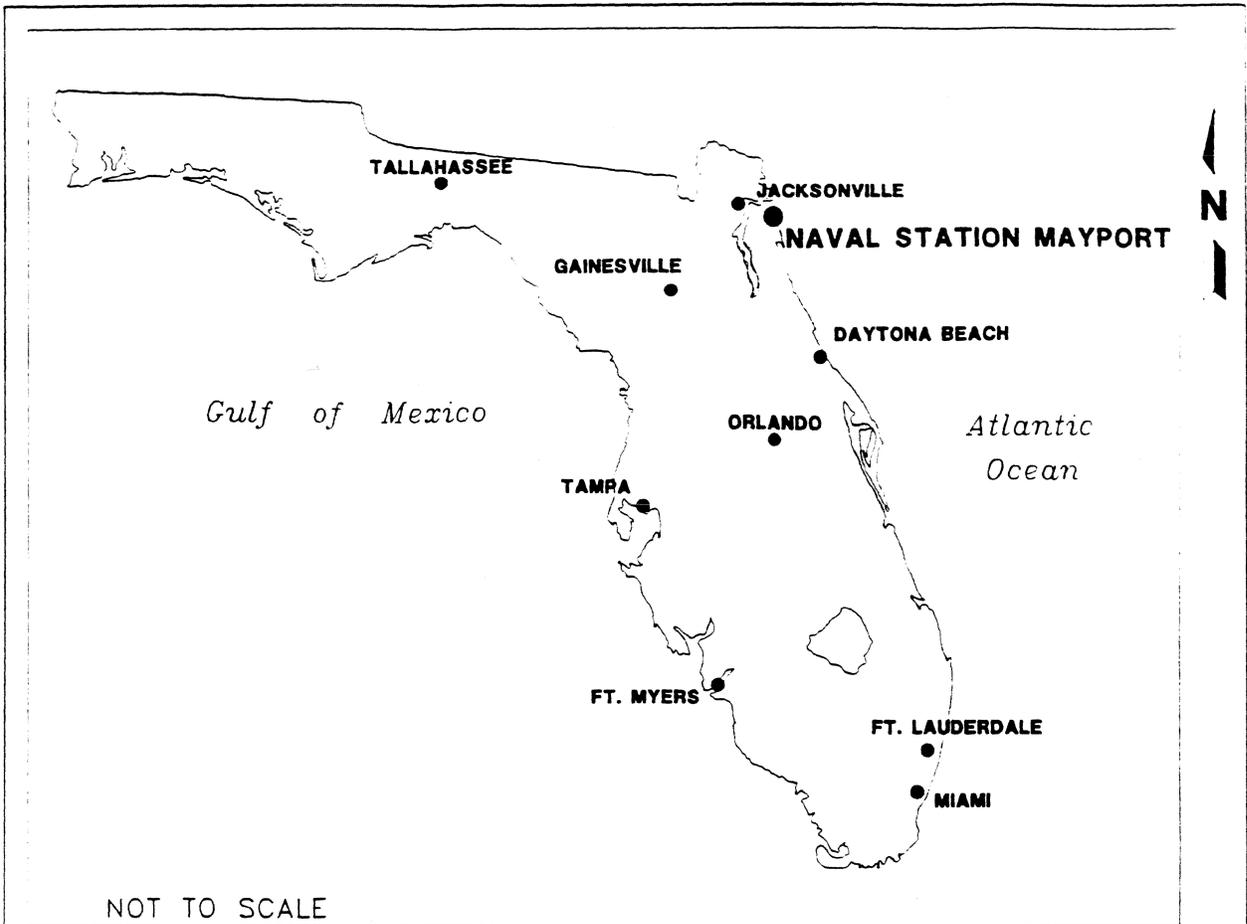


FIGURE 1
FACILITY LOCATION MAP



GROUP IV SAMPLING EVENT

**U.S. NAVAL STATION
MAYPORT, FLORIDA**

H:\9500\002200\NAB\02-26-96

ATTACHMENT B

Well Installation Information



3 Sep 97

ABB

ATTN: Michael O. Jaynes
Berkeley Building
2590 Executive Center Circle East
Tallahassee, FL 32301

**Subj: SITE CHARACTERIZATION ANALYSIS AND PENETROMETER SYSTEM
(SCAPS) TECHNOLOGY UPDATE**

- Encl: (1) Completion and final report of findings for the site screening of sites 1-6 and 8-14 at NAVSTA Mayport, (LIF data sheets included)**
(2) Attachment (1) soils classification sheet
(3) Location map

1. The enclosed report contains the well inventory for all monitoring wells installed, and interpretations of Laser Induced Fluorescence (LIF) data collected at the subject sites. A total of (28) monitoring wells were installed with soil samples taken at each location. A 1/2" I.D. "Geoprobe" monitoring well was installed in the same hole soil samples were collected. Soil samples which were collected by the SCAPS crew were turned over to the ABB field engineer. The ABB field engineer originated the chain of custody sheets for each sample taken.

2. If there are any questions regarding this report please contact me at (904) 772-4548, ext. 8323.

George Steffen

Soil Samples/Monitoring Wells:

A total of (28) monitoring wells were placed and soil samples taken for ABB Environmental Services Inc. as part of the field screening of sites 1-6 and 8-14 at NAVSTA Mayport. Installation of the monitoring wells was concluded on August 13, 1997. Well mpt-s8-mw01s became damaged prior to construction of its manhole. This well and manhole were re-installed on 5 Sept. 97. Each well and soil sample was completed using direct push technology by the Navy Public Works Center, Jacksonville, Site Characterization Analysis and Penetrometer (SCAPS) vehicle, a (20) ton cone penetrometer truck.

Installation of direct push monitoring wells was accomplished in a two step process. After each location was identified by ABB and the NAVSTA Mayport Environmental Dept. utilities were cleared by station and SCAPS personnel, the SCAPS vehicle then positioned over the identified locations. The SCAPS vehicle using a dummy probe to break through surface pavement would next push the soil sample probe down hole. Keeping the SCAPS vehicle over the position, the monitoring well was then advanced down the same hole from which the soil samples was taken. All locations which were over asphalt and concrete were pre-drilled using a 4" dia., diamond bit core drill to remove the first 8-10" of surface material, prior to pushing the soil sampler and wells.

Soil samples were taken using a conventional split spoon sampler measuring approx. 1-1/2" in dia. X 18" in length. The sample probe as well as the split spoons are constructed of stainless steel material. Proper decontamination procedures of all components of the split spoon sampler were adhered to prior to each sample being taken. Each soil sample was taken from just above the existing water table. Water table elevations were determined by taking elevation measurements from existing wells located nearest to the SCAPS sample locations.

Each monitoring well was placed down the same vertical hole from which the soil samples were taken. The monitoring wells are manufactured by "Geoprobe". The well screen and riser sections are made from 1/2" I.D. PVC. The screen sections are standard .001" slot, covered by a pre-packed silica sand held in place by a stainless steel mesh. Each screen section measures approx. 3' in length. Screen intervals are set by assembling individual screen sections together. Each well is placed by advancing large diameter push rods with an expendable tip to the maximum well depth. The screen and riser sections are assembled and passed down the center of the push rods. The expendable tip makes connection to the assembled well sections; as the push rods are retrieved from down hole, the well remains in place.

Each monitoring well is finished with An 8" water tight manhole, encased in a 2' X 2' concrete well pad. Well lids are bolted to the manhole casing. Each well riser is capped, with no wells having locks on the risers.

An inventory of the monitoring wells is listed in table (1). The site map identifies each manhole location and is cross referenced on table (1).

Table (1)
Monitoring Well/LIF Inventory

#	Map ID	Monitoring Well ID	Latitude **	Longitude **	Total Depth	Screen Interval	Depth BGS to W.T.
1	1 - 1	mpt-s1-mw01s	30 23 13.19757 N	81 24 09.82831 W	7.08	1-7'	2.22'
2	1 - 2	mpt-s1-mw02s	30 23 09.78949 N	81 24 10.12671 W	7.18	1-7'	2.25'
3	1 - 3	mpt-s1-mw03s	30 23 03.44406 N	81 24 09.62496 W	7.17	1-7'	1.73'
4	1 - 4	mpt-s1-mw04s	30 23 02.48752 N	81 24 07.21897 W	7.64	1.5-7.5'	4.51'
5	2	mpt-s2-mw01s	30 23 20.21170 N	81 24 47.22102 W	7.32	1.3-7.3'	1.73'
6	(3/4) - 1	mpt-s3-mw01s	30 23 42.978 N	81 24 57.947 W	11.35	5.3-11.3'	6.6'
7	(3/4) - 2	mpt-s3-mw02s	30 23 42.423 N	81 24 58.111 W	11.90	5.9-11.9	6.23'
8	(5/6) - 1	mpt-s5-mw01s	30 23 25.56573 N	81 25 00.21708 W	8.16	2.1-8.1'	3.77'
9	8 - 1	mpt-s8-mw01s	*	*	11.5	5.5-11.5'	*
10	8 - 2	mpt-s8-mw02s	30 23 53.58204 N	81 24 52.79419 W	10.55	4.5-10.5'	7.34'
11	9 - 1	mpt-s9-mw01s	30 23 4.44873 N	81 25 00.31529 W	9.0	3-9'	5.71'
12	9 - 2	mpt-s9-mw02s	30 23 35.01262 N	81 24 58.69993 W	8.35	2.3-8.3'	6.4'
13	9 - 3	mpt-s9-mw03s	30 23 35.85715 N	81 24 58.47203 W	9.0	3-9'	4.34'
14	10 - 1	mpt-s10-mw01s	30 23 51.89701 N	81 24 32.81958 W	11.4	5.4-11.4'	8.1'
15	11 - 1	mpt-ls-mw01s	30 23 59.28160 N	81 25 10.63849 W	13.35	7.3-13.3'	11.1'
16	12 - 1	mpt-s12-mw01s	30 23 55.58112 N	81 24 39.22260 W	13.08	7-13'	10.51'
17	12 - 2	mpt-s12-mw02s	30 23 55.41611 N	81 24 38.28612 W	13.04	7-13'	10.6'
18	13 - 1	mpt-aa-mw01s	30 23 50.81432 N	81 25 11.55269 W	12.50	6.5-12.5'	6.85'
19	14 - 19	mpt-14-mw19s	30 23 40.83357 N	81 23 49.64684 W	7.25	1-7'	2.87'
20	14 - 20	mpt-14-mw20s	30 23 40.58895 N	81 23 50.34223 W	6.75	0.7-6.7'	3.15'
21	14 - 21	mpt-14-mw21s	30 23 41.99430 N	81 23 50.79493 W	7.46	1.4-7.4'	3.42'
22	14 - 22	mpt-14-mw22s	30 23 42.4450 N	81 23 48.30252 W	7.07	1-7'	3.74
23	14 - 23	mpt-14-mw23s	30 23 42.50524 N	81 23 47.89208 W	6.75	0.7-6.7'	4.91
24	LIF - 1	mpt-BP-mw01s	30 23 37.12320 N	81 24 57.84334 W	10.5	N/A	N/A
25	LIF - 2	mpt-BP-mw02s	30 23 40.23523 N	81 24 57.13746 W	11.22	N/A	N/A
26	LIF - 3	mpt-BP-mw03s	30 23 43.08216 N	81 24 56.50056 W	9.75	N/A	N/A
27	LIF - 4	mpt-BP-mw04s	30 23 47.35329 N	81 24 55.07622 W	10.9	N/A	N/A
28	LIF - 5	mpt-BP-mw05s	30 23 49.83925 N	81 24 54.35078 W	10.9	N/A	N/A

(refer to locator map)

* Well, mpt-s8-mw01s became damaged after installation. The well was re-installed to the to final depth and with the screened interval listed above. Actual lat/long and depth to water table were not available prior to printing this report.

** Latitude and Longitude are reported in degrees, minutes and seconds.

Laser Induced Fluorescence (LIF):

In addition to taking soil samples and the placing of monitoring wells in the various sites on the naval station, SCAPS also performed real time site screening along the Bravo Pier using LIF systems. A total of (5) LIF push locations were identified by ABB and the station environmental department along the entire length of Bravo Pier. These LIF data locations also had a soil sample taken and monitoring well placed.

The LIF locations are identified on table (1) as mpt-BP-mw01s through mpt-BP-mw05s, running North to South along the pier. To cross reference the data sheets corresponding to each LIF push, refer to table (2). Sample locations along Bravo Pier were pushed by pushing the soil sample and well locations as described above. The LIF pushes for these locations were pushed at approx. 6-8" offset from the well locations.

Table (2)
LIF cross reference sheet

#	Monitoring Well ID	LIF Data Sheet ID
24	mpt-BP-mw01s	9706LIF1.PSH
25	mpt-BP-mw02s	9706LIF2.PSH
26	mpt-BP-mw03s	9706LIF3.PSH
27	mpt-BP-mw04s	9706LIF4.PSH
28	mpt-BP-mw05s	9706LIF5.PSH

The LIF systems are designed to detect PAH's contamination which may exist in the soil. The systems give qualitative and semi-quantitative results. Each LIF data sheet Figure (1), contains the following information:

Column 1: "Cone Pressure" Tip pressure, recorded in tons/sqft. Strain gauges are attached to the drive point at the bottom of the LIF probe. Data is recorded every 2 cm from ground "zero" to the bottom of the push.

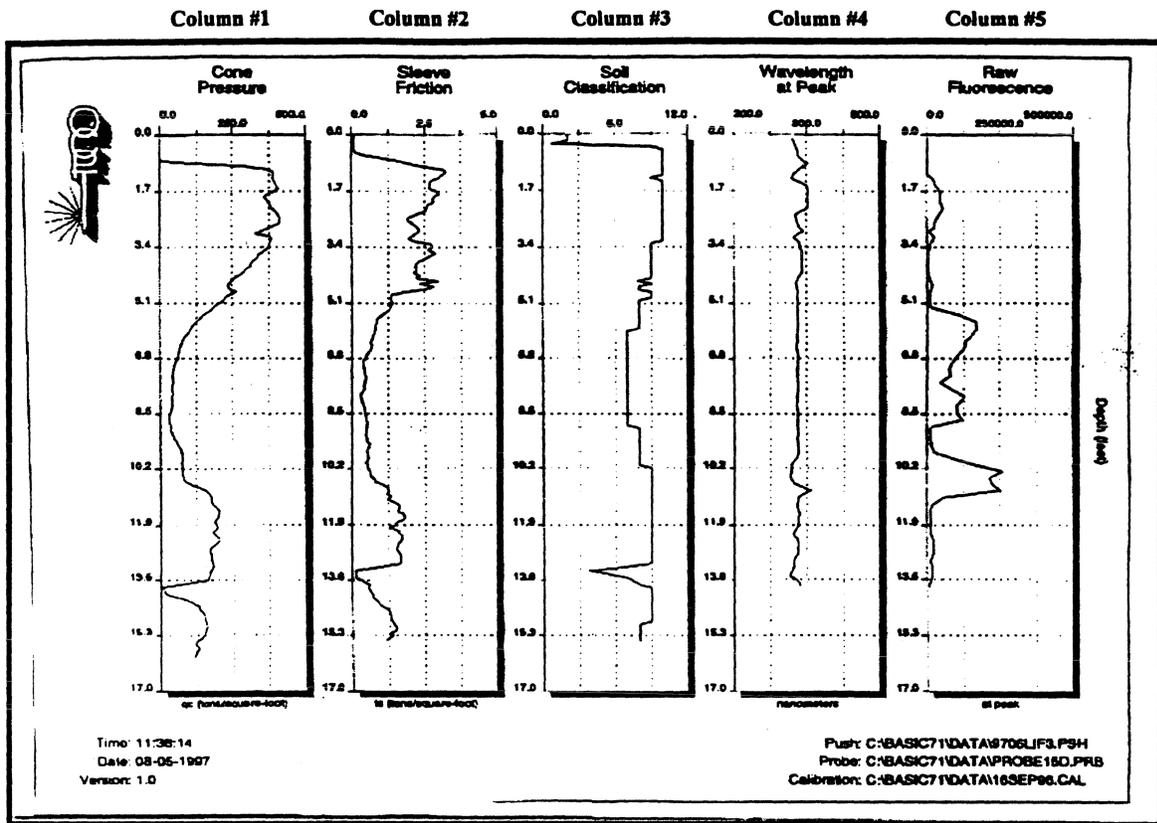
Column 2: "Sleeve Friction", Sleeve data is recorded in ton/sqft. Strain gauges are connected to a sleeve cylinder which rides just above the drive point tip and gauge assembly. Data is collected each 2 cm.

Column 3: "Soil Classification" is computed from empirical formulas derived by Robertson and Campanella, Attachment (1).

Column 4: "Wavelength at Peak". The wavelength at peak is a measure of the fluorescence light returned from the down hole probe. A nitrogen laser fires 308nm laser energy down a fiber optic cable which terminates in the probe. This power of energy causes 3-ring and greater PAH's exposed to the probe window to fluoresce. Fluoresced light is returned up from the probe through another fiber optic cable to a photo diode array and spectrograph which interprets the signal recording peak fluorescence. Sheet (2), the spectrograph for each push is produced by the laser operator during post processing of data. Any specific point the operator wants to highlight along the vertical push is marked and the spectral reading is recorded on this sheet.

Column 5: "Raw Fluorescence" is a measure of the fluorescent light intensity. This is a unit less measure of photons. No calibration information was collected or used for this project to equate raw fluorescence with contaminant concentrations.

Figure (1)
LIF data sheet



Interpretation of the LIF data is as follows:

Push - 9706LIF1.PSH: Minimum signal response was obtained over the vertical push. There are indications of contamination detected, however the detections occur in narrow bands, approx. 2.7', and 4.8' BGS are examples. Spectral print outs indicate the 4.8' BGS detection to have a peak wavelength which would indicate PAH's. The raw fluorescence count is sufficient to indicate a presence of contamination over a very narrow vertical band. The existence of micro lens of contamination could account for this, or this could be the extreme edge of a contamination plume

Push - 9706LIF2.PSH: Signal response between 0.8' and 1.5' BGS would indicate positive detection of contamination. The shift in wavelength which occurs at approx. 0.8' BGS, indicates the presence of material which is fluorescing above background. The increase in light intensity over the region of the wavelength shift further signifies the presence of a contaminant, rather than a false positive material causing the fluorescence.

Push - 9706LIF3.PSH: The region between 5.1' and approx. 11.0' BGS appears to have significant soils contamination. The wavelength shift occurring at approx. 4.5' BGS maintained a stable reading below background over the 5' region. There was significant intensity response corresponding to this same region. The presence of contamination appears to be greatest between 5.1' and 11' BGS however, positive signal response between approx. 1.5' and 3.4' BGS also indicates lower level contamination.

Push - 9706LIF4.PSH: Interpretation of the data collected for this push possibly indicates false positive detection of contamination from approx. 0.5' to approx. 2.25' BGS. Significant raw fluorescence readings were obtained for this region, however, no shift in wavelength occurs.

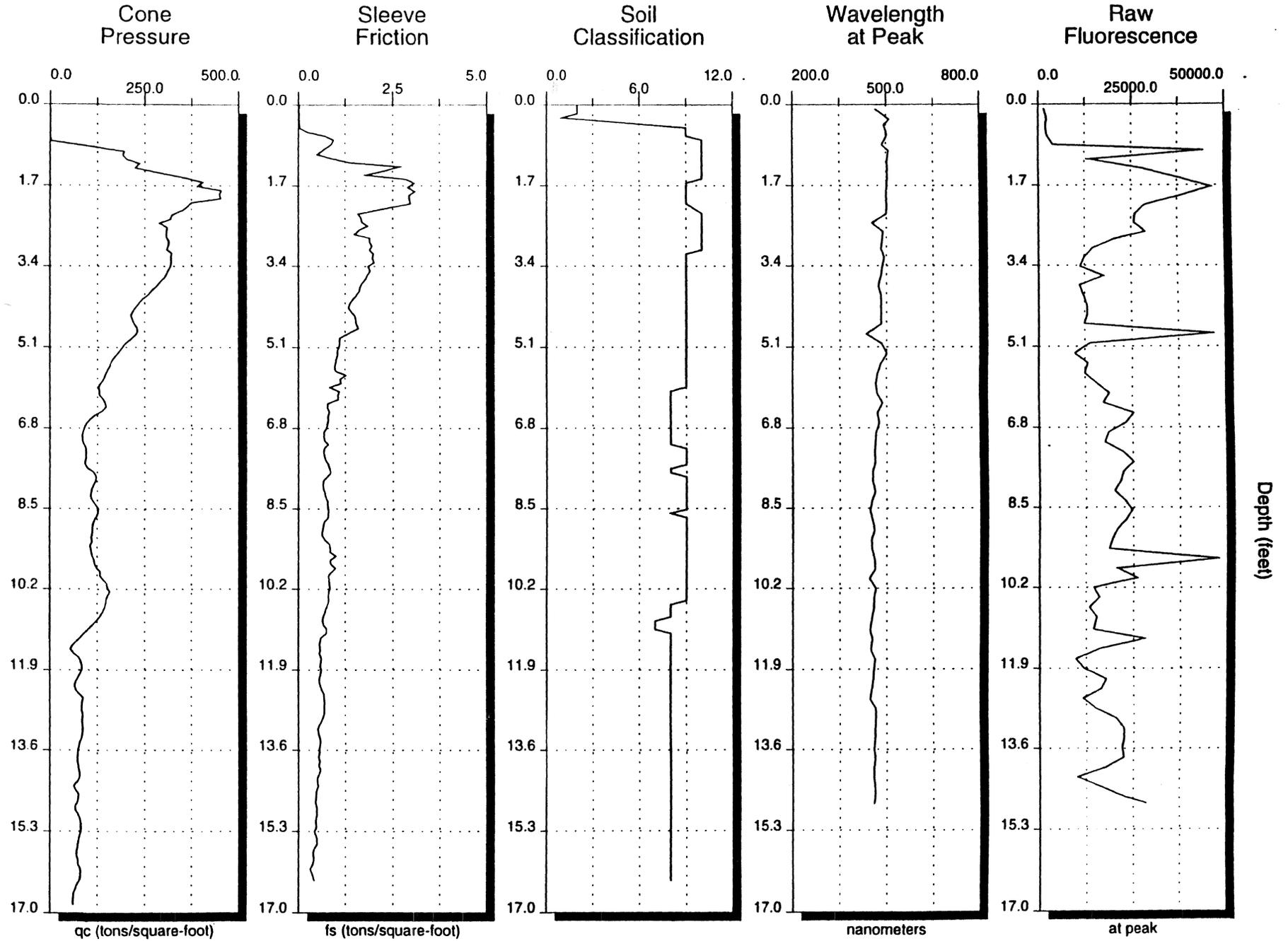
Positive detection of contamination appears to occur between 3.4' and 5.1' BGS. Signal response and wavelength shifts are commensurate with PAH's contamination readings. The most significant detection occurs between 10.2' and 11.9' BGS. These readings are well below the water table. Insignificant data is available to determine if this is a false positive detection or not. Soils classification information reveals a change in soil type at the beginning of the wavelength and intensity shifts.

Push - 9706LIF5.PSH: The only significant reading occurs at approx. 12.5' BGS. The same indication of potential false positive readings exist in this push just as with 9706LIF4.PSH. The change in soil type corresponds with wavelength and intensity readings.

Findings:

Normal protocol requires that 10% of the LIF data collected would be supported with analytical results to identify/confirm potential false positives and concentration values needed when marking contaminant plumes. Due to time constraints and changes in project scope, the LIF data collected was not supported by independent analytical sampling. Soil samples were collected at each location, however the depth intervals may not have been optimal for LIF confirmation purposes. The soil sample collected which corresponds with push hole 9706LIF3.PSH should provide sufficient data to support LIF results obtained in the shallow region of this push.

Recommendations: LIF data collected indicates positive detection of contaminants along Bravo Pier. The most significant signal responses and soils contamination appears around location 9706LIF3.PSH, approx. the middle of Bravo Pier. Further LIF pushes to determine the source and extent of contamination around this location is required. Soil samples from locations 9706LIF5.PSH and 9706LIF6.PSH at the deeper depths is needed to determine if there is any existence of contamination in the water table.

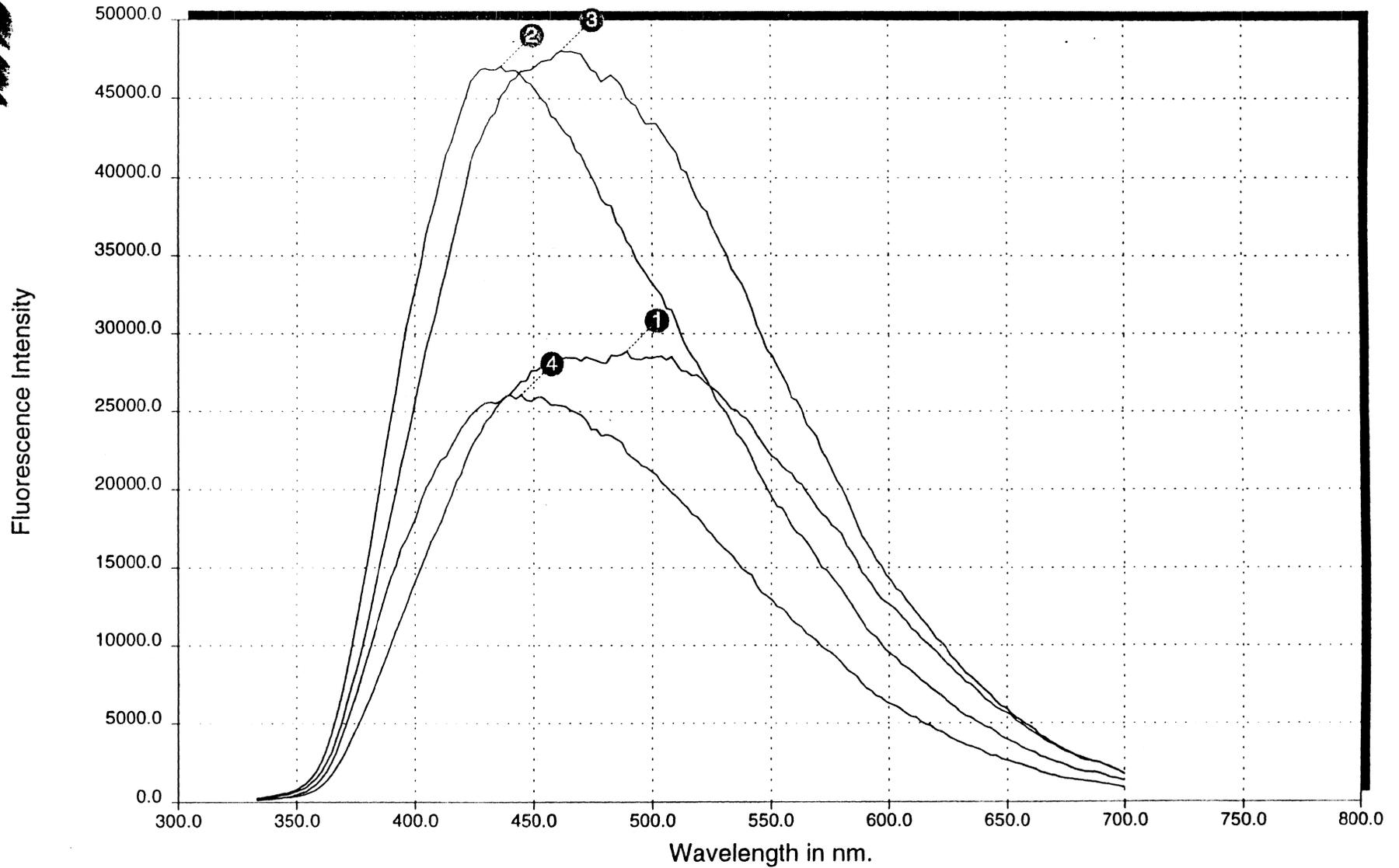


Time: 15:00:32
Date: 08-04-1997
Version: 1.0

Push: C:\BASIC71\DATA\9706LIF1.PSH
Probe: C:\BASIC71\DATA\PROBE15D.PRB
Calibration: C:\BASIC71\DATA\16SEP96.CAL



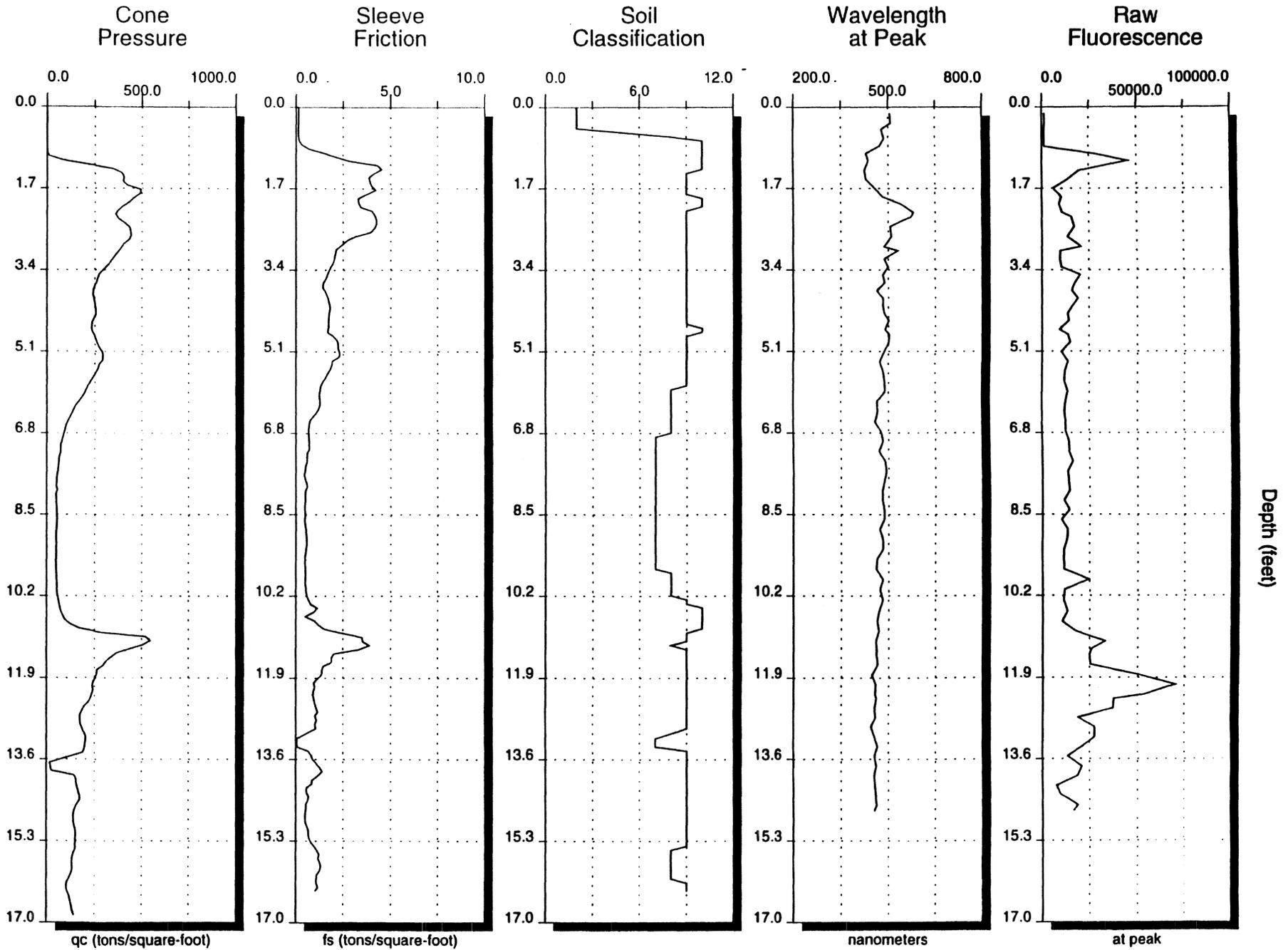
Spectral Plot(s)



1: 2.7 ft.; 28833 @ 489.1 nm
2: 4.8 ft.; 47014 @ 436.4 nm
3: 9.6 ft.; 48012 @ 461.7 nm
4: 10.0 ft.; 26056 @ 444.8 nm

Time: 15:00:32
Date: 08-04-1997
Version: 1.0

Main: C:\BASIC71\DATA\9706LIF1.PSH
Probe: C:\BASIC71\DATA\PROBE15D.PR8
Calibration: C:\BASIC71\DATA\16SEP96.CAL



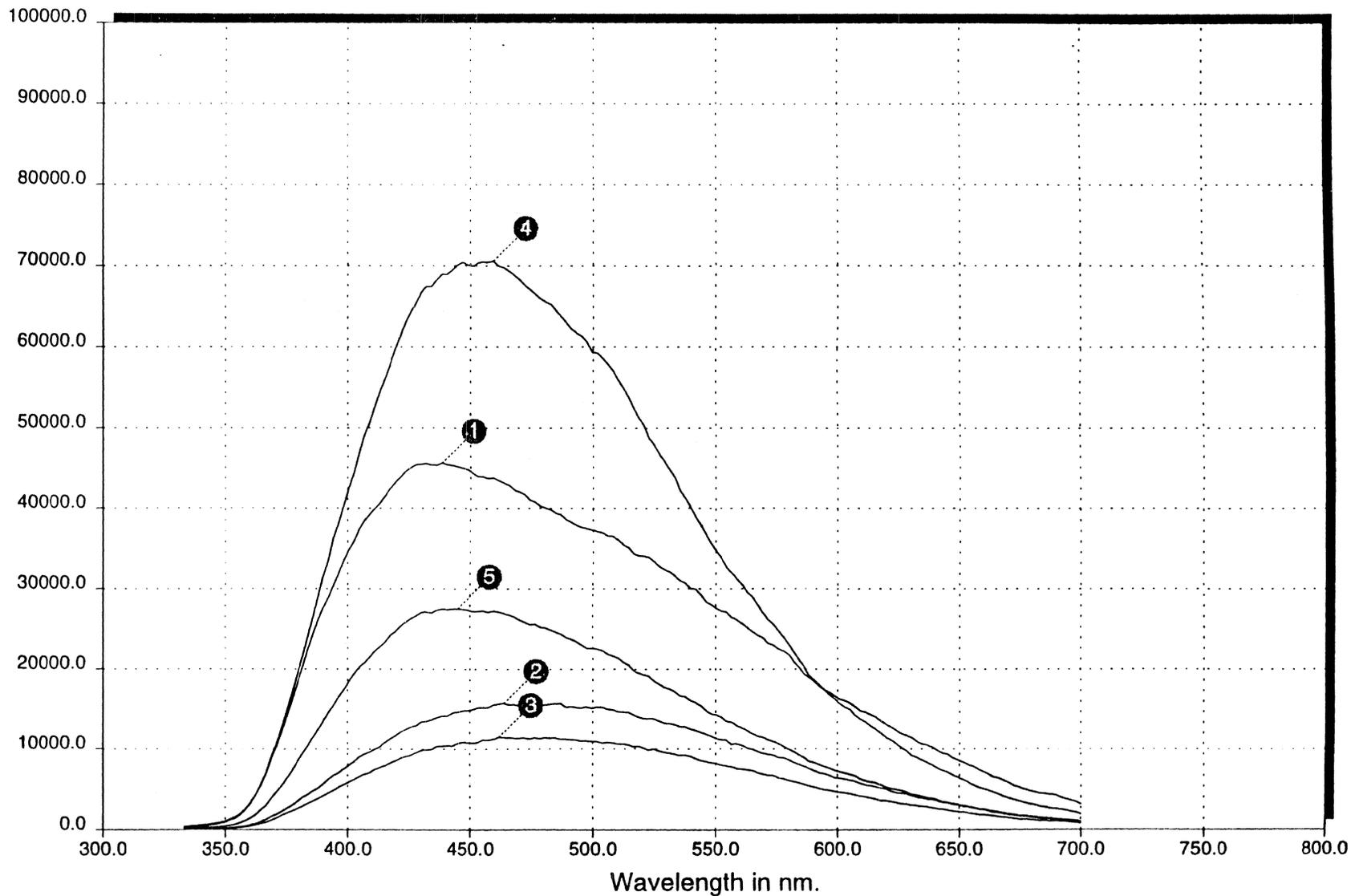
Time: 10:39:59
Date: 08-05-1997
Version: 1.0

Push: C:\BASIC71\DATA\9706LIF2.PSH
Probe: C:\BASIC71\DATA\PROBE15D.PRB
Calibration: C:\BASIC71\DATA\16SEP96.CAL

Spectral Plot(s)



Fluorescence Intensity



1: 1.1 ft.; 45607 @ 438.5 nm

5: 12.9 ft.; 27488 @ 444.8 nm

2: 3.8 ft.; 15717 @ 463.8 nm

3: 9.6 ft.; 11460 @ 461.7 nm

4: 12.0 ft.; 70572 @ 459.6 nm

Main: C:\BASIC71\DATA\9706LIF2.PSH

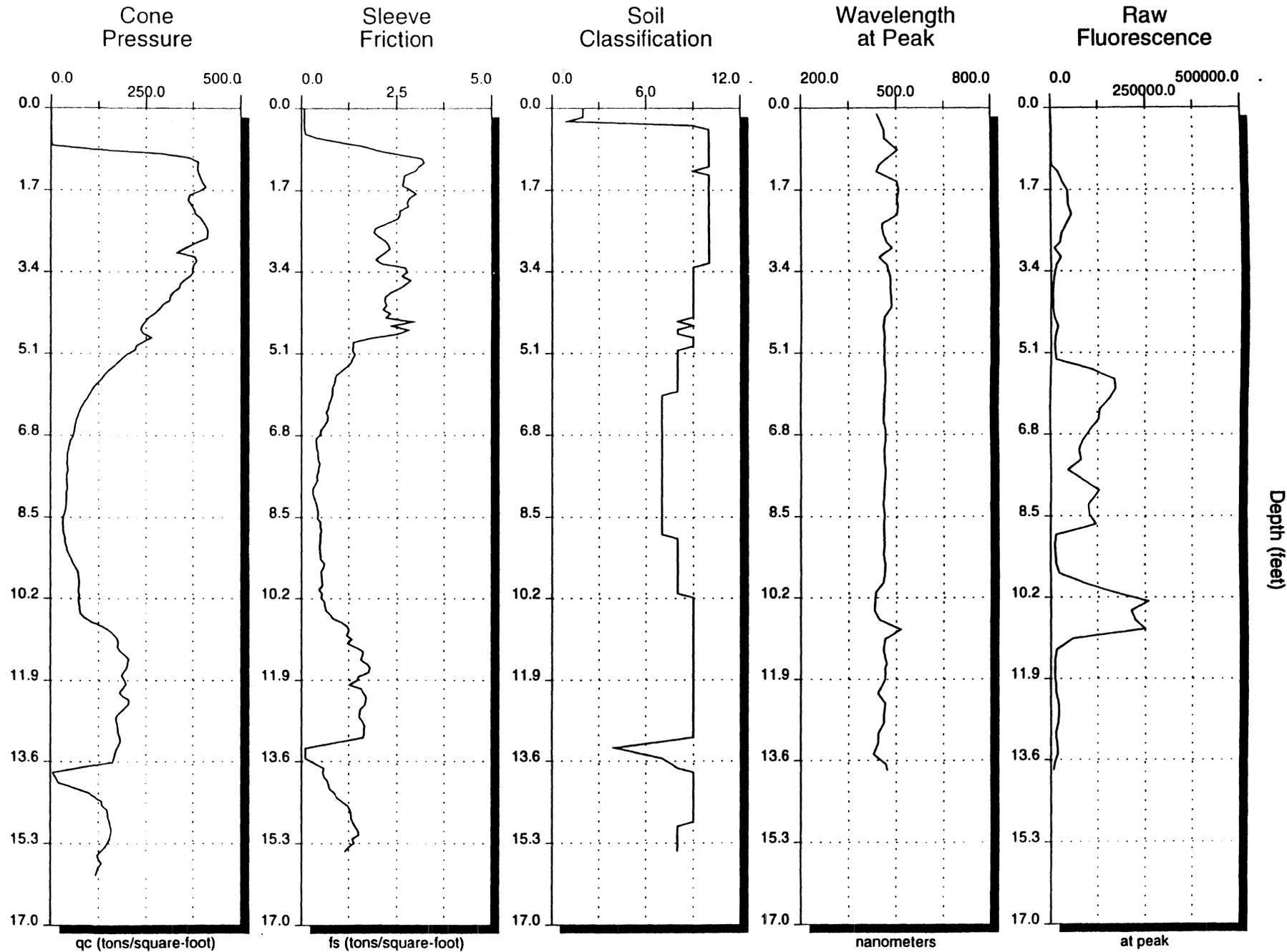
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Calibration: C:\BASIC71\DATA\16SEP96.CAL

Time: 10:39:59

Date: 08-05-1997

Version: 1.0

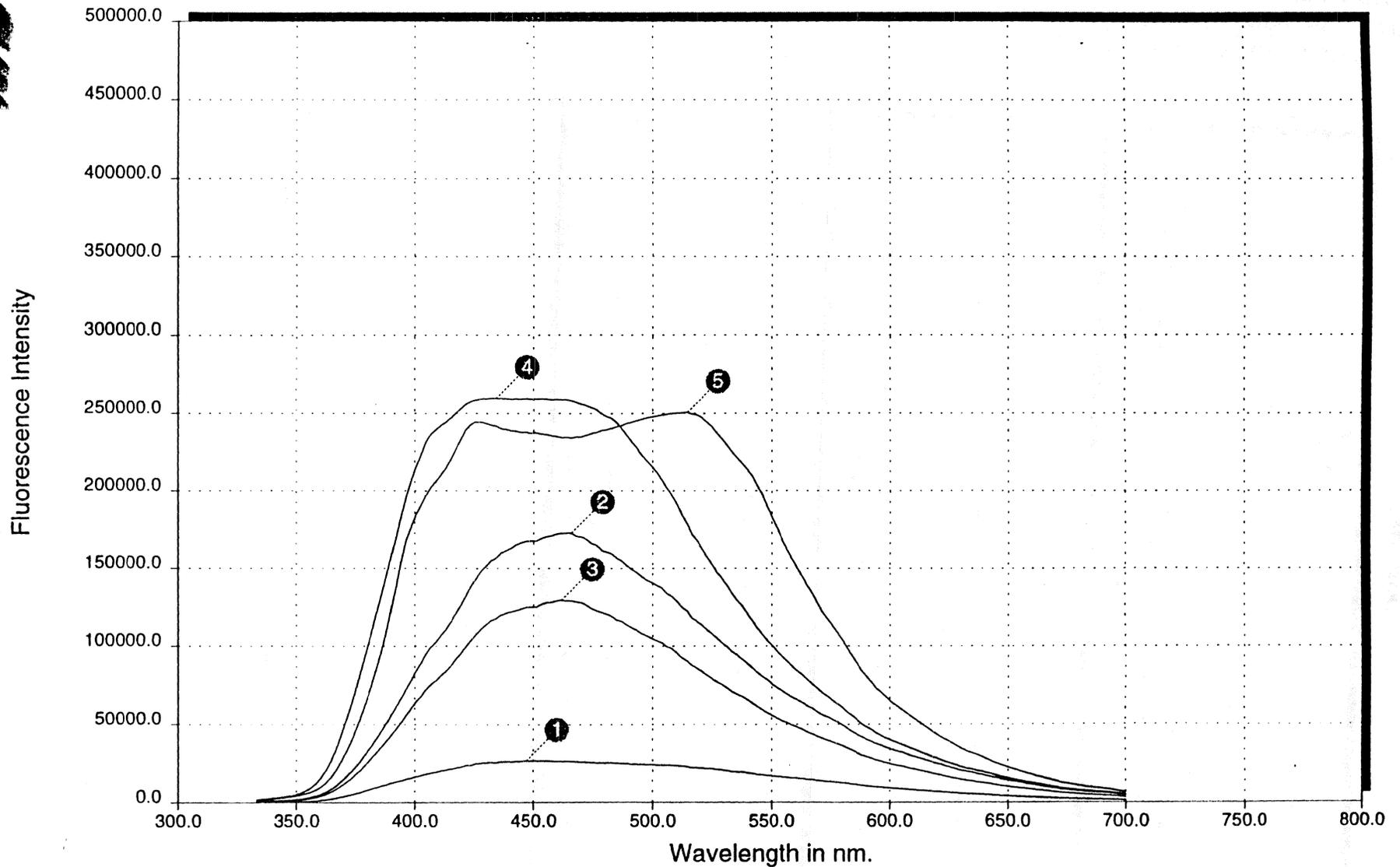


Time: 11:38:14
Date: 08-05-1997

Push: C:\BASIC71\DATA\9706LIF3.PSH
Probe: C:\BASIC71\DATA\PROBE15D.PRB
Calibration: C:\BASIC71\DATA\16SEP96.CAL



Spectral Plot(s)



1: 3.1 ft.; 26663 @ 446.9 nm

5: 10.9 ft.; 250500 @ 514.4 nm

2: 5.9 ft.; 172708 @ 465.9 nm

3: 8.0 ft.; 129360 @ 461.7 nm

4: 10.3 ft.; 259389 @ 434.3 nm

Time: 11:38:14

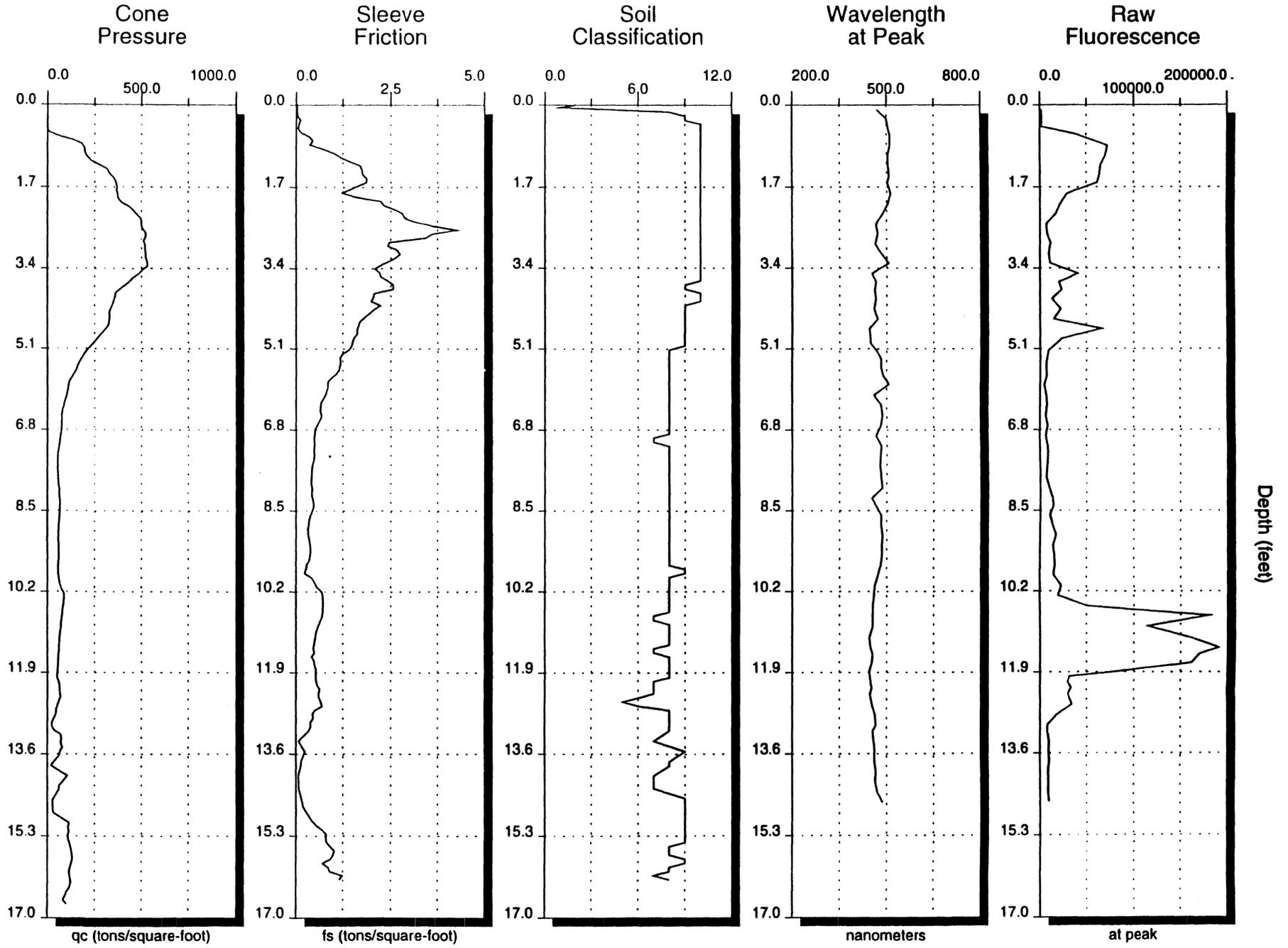
Date: 08-05-1997

Version: 1.0

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Probe: C:\BASIC71\DATA\PROBE15D.PR8

Calibration: C:\BASIC71\DATA\16SEP96.CAL

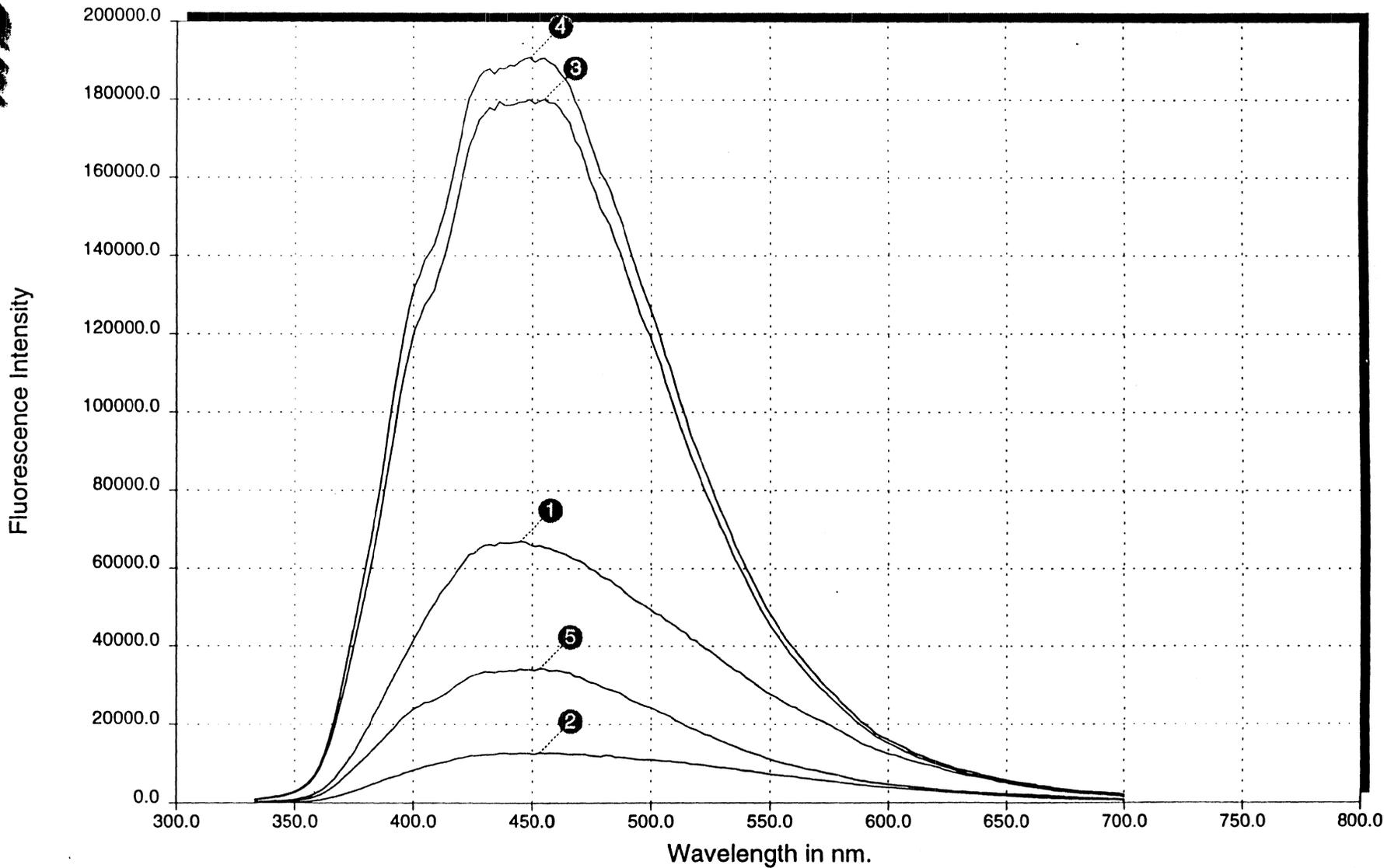


Time: 14:12:37
Date: 08-05-1997
Version: 1.0

Push: C:\BASIC71\DATA\9706LIF4.PSH
Probe: C:\BASIC71\DATA\PROBE15D.PR
Calibration: C:\BASIC71\DATA\16SEP96.CAL



Spectral Plot(s)



1: 4.7 ft.; 66892 @ 444.8 nm

5: 12.6 ft.; 34224 @ 453.2 nm

2: 8.2 ft.; 12753 @ 453.2 nm

3: 10.7 ft.; 180097 @ 455.4 nm

4: 11.4 ft.; 190801 @ 449.0 nm

Time: 14:12:37

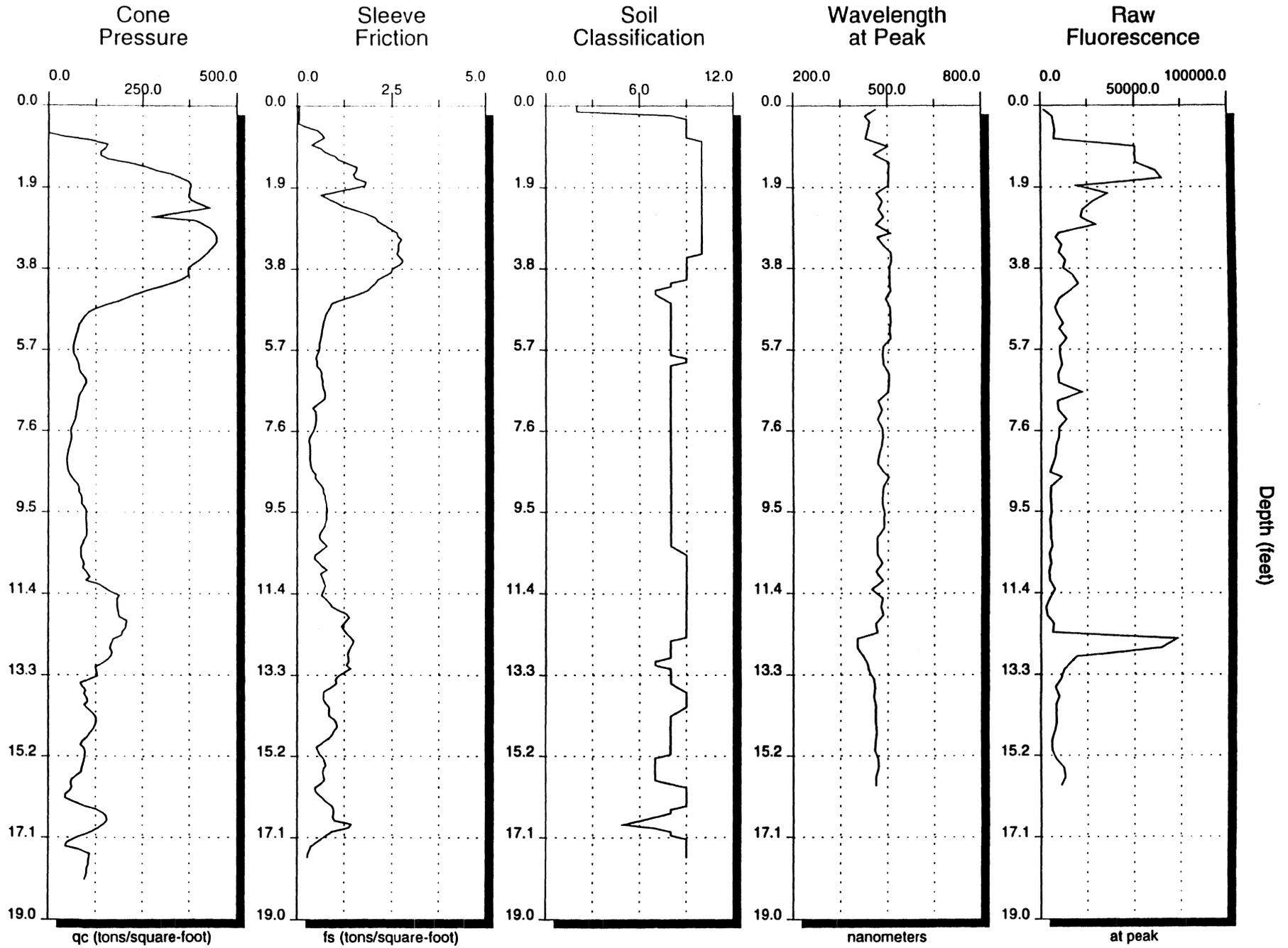
Date: 08-05-1997

Version: 1.0

Main: C:\BASIC71\DATA\9706LIF4.PSH

Probe: C:\BASIC71\DATA\PROBE15D.PR8

Calibration: C:\BASIC71\DATA\16SEP96.CAL



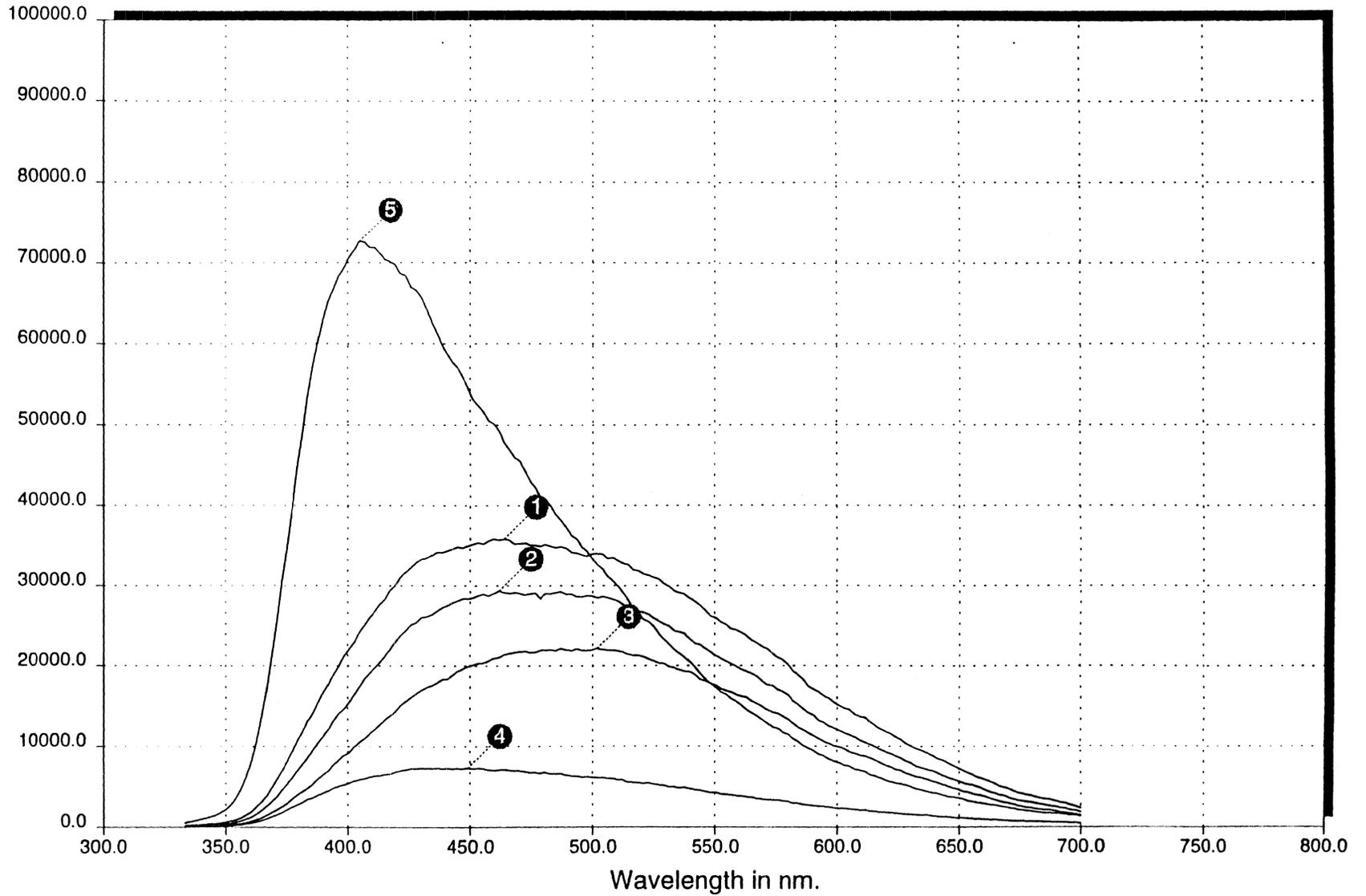
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Date: 08-05-1997
Version: 1.0

Push: C:\BASIC71\DATA\9706LIF5.PSH
Probe: C:\BASIC71\DATA\PROBE15D.PR8
Calibration: C:\BASIC71\DATA\16SEP96.CAL

Spectral Plot(s)



Fluorescence Intensity



1: 2.0 ft.; 35833 @ 463.8 nm

5: 12.5 ft.; 72599 @ 404.7 nm

2: 2.8 ft.; 29337 @ 461.7 nm

3: 6.7 ft.; 22154 @ 501.8 nm

4: 11.3 ft.; 7294 @ 449.0 nm

Main: C:\BASIC71\DATA\9706LIF5.PSH

Probe: C:\BASIC71\DATA\PROBE15D.PR

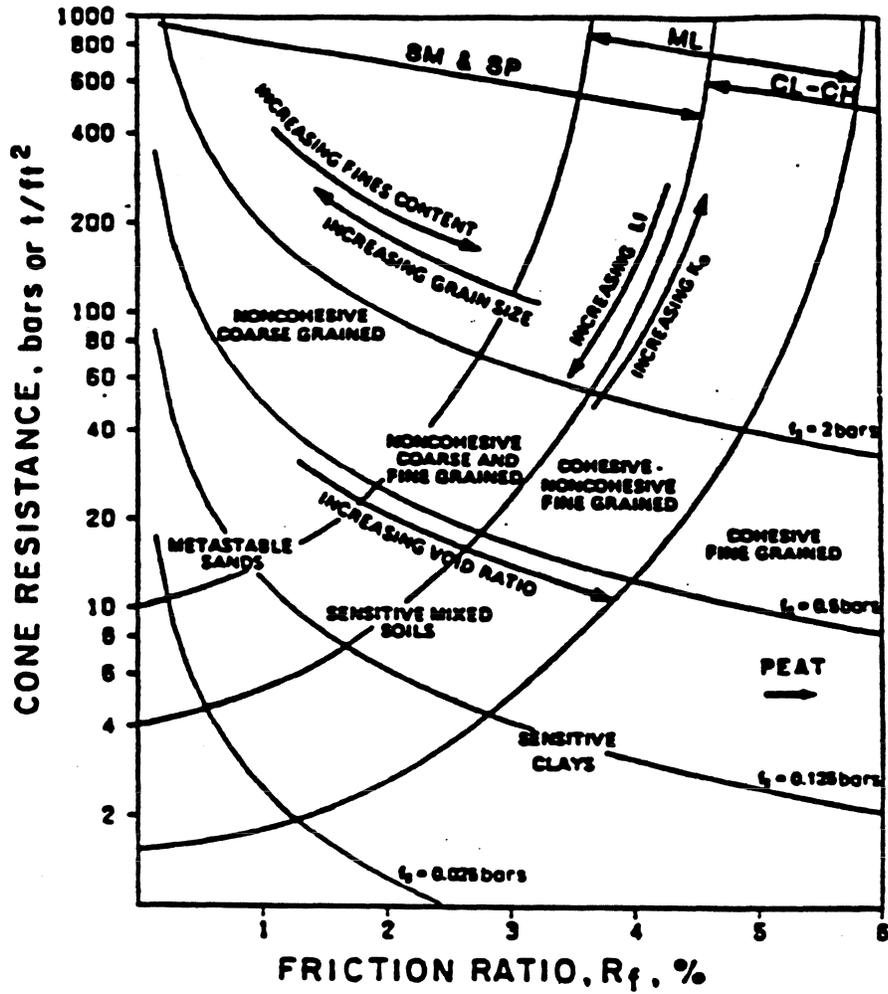
Calibration: C:\BASIC71\DATA\16SEP96.CAL

Time: 15:14:06

Date: 08-05-1997

Version: 1.0

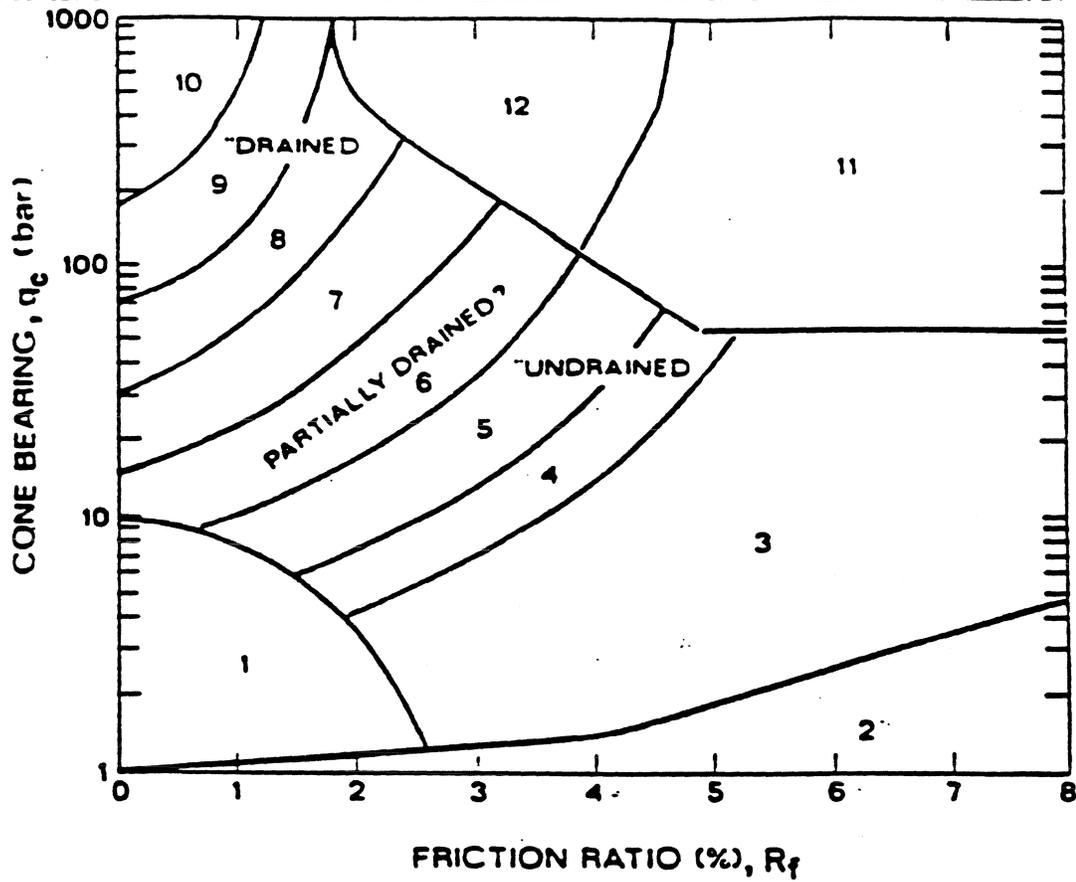
APPENDIX E - SOIL CONVERSION CHART



1 bar = 100 kPa ≈ 1 kg/cm²

Figure E.1 - Soil Classification Chart for Standard Electronic Friction Cone (Adapted from Douglas and Olsen, 1981)

APPENDIX E - SOIL CONVERSION CHART



Zone	q_c / N	Soil Behaviour Type
1)	2	sensitive fine grained
2)	1	organic material
3)	1	clay
4)	1.5	silty clay to clay
5)	2	clayey silt to silty clay
6)	2.5	sandy silt to clayey silt
7)	3	silty sand to sandy silt
8)	4	sand to silty sand
9)	5	sand
10)	6	gravelly sand to sand
11)	1	very stiff fine grained (*)
12)	2	sand to clayey sand (*)

(*) overconsolidated or cemented

Figure E.2 - Simplified Soil Classification Chart for Standard Electronic Friction Cone (Roberston et al, 1986)

ATTACHMENT C

Analytical Summary

ATTACHMENT C (Continued)

Volatile Organics

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	MF449003 MAYPORT 10G00101 27-JAN-98			ME780005 MAYPORT 12G00101 18-SEP-97			ME780006 MAYPORT 12G00201 18-SEP-97			ME459007 MAYPORT BP800105 05-AUG-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
VOLATILES (SW-846, 8240)												
Chloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Bromomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Vinyl Chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Methylene Chloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Acetone	10	U	ug/l	10	17	B	ug/l	10	4	JB	ug/l	10
Carbon Disulfide	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1-Dichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloroethene (total)	2	J	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Chloroform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
2-Butanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1,1-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Carbon Tetrachloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Bromodichloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloropropane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
cis-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Trichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Dibromochloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1,2-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Benzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
trans-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Bromoform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
4-Methyl-2-Pentanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Hexanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Tetrachloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1,2,2-Tetrachloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Toluene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Chlorobenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Ethylbenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Styrene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Xylenes (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Dichlorodifluoromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Trichlorofluoromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,3-Dichlorobenzene (VOC)	-			-				-				-
Acrolein	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100
Iodomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,4-Dichlorobenzene (VOC)	-			-				-				-
Acrylonitrile	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100
Dibromomethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichlorobenzene (VOC)	-			-				-				-
2-Chloroethyl vinyl ether	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Ethyl methacrylate	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2,3-Trichloropropane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
2-Nitropropane	-			-				-				-
trans-1,4-Dichloro-2-butene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Isobutyl alcohol	200	U	ug/l	200	200	U	ug/l	200	200	U	ug/l	200

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME459006		ME459006DL		ME459005		ME459005R
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT
Locator	BPB00205		BPB00205DL		BPB00305		BPB00305R
Collect Date:	05-AUG-97		05-AUG-97		05-AUG-97		05-AUG-97

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
VOLATILES (SW-846, 8240)												
Chloromethane	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
Bromomethane	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
Vinyl Chloride	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
Chloroethane	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
Methylene Chloride	17	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Acetone	330	E	ug/kg	12	1200	D	ug/kg	62	920		ug/kg	54
Carbon Disulfide	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,1-Dichloroethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,1-Dichloroethene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,2-Dichloroethene (total)	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Chloroform	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,2-Dichloroethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
2-Butanone	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
1,1,1-Trichloroethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Carbon Tetrachloride	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Bromodichloromethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,2-Dichloropropane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
cis-1,3-Dichloropropene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Trichloroethene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Dibromochloromethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,1,2-Trichloroethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Benzene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
trans-1,3-Dichloropropene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Bromoform	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
4-Methyl-2-Pentanone	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
2-Hexanone	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
Tetrachloroethene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,1,2,2-Tetrachloroethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Toluene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Chlorobenzene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Ethylbenzene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Styrene	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Xylenes (total)	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
Dichlorodifluoromethane	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
Trichlorofluoromethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27
1,3-Dichlorobenzene (VOC)	-				-				-			
Acrolein	120	U	ug/kg	120	620	U	ug/kg	620	540	U	ug/kg	540
Iodomethane	12	U	ug/kg	12	62	U	ug/kg	62	54	U	ug/kg	54
1,4-Dichlorobenzene (VOC)	-				-				-			
Acrylonitrile	120	U	ug/kg	120	620	U	ug/kg	620	540	U	ug/kg	540
Dibromomethane	6	U	ug/kg	6	31	U	ug/kg	31	27	U	ug/kg	27

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME459006 MAYPORT BPB00205 05-AUG-97			ME459006DL MAYPORT BPB00205DL 05-AUG-97			ME459005 MAYPORT BPB00305 05-AUG-97			ME459005R MAYPORT BPB00305R 05-AUG-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	12 U	ug/kg	12	62 U	ug/kg	62	54 U	ug/kg	54	54 U	ug/kg	54
Ethyl methacrylate	6 U	ug/kg	6	31 U	ug/kg	31	27 U	ug/kg	27	27 U	ug/kg	27
1,2,3-Trichloropropane	6 U	ug/kg	6	31 U	ug/kg	31	27 U	ug/kg	27	27 U	ug/kg	27
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	6 U	ug/kg	6	31 U	ug/kg	31	27 U	ug/kg	27	27 U	ug/kg	27
Isobutyl alcohol	250 U	ug/kg	250	1200 U	ug/kg	1200	1100 U	ug/kg	1100	1100 U	ug/kg	1100

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME459004	ME459004DL	ME459003	ME817007
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT
Locator	BPB00405	BPB00405DL	BPB00505	BPG00101
Collect Date:	05-AUG-97	05-AUG-97	05-AUG-97	24-SEP-97

VALUE	QUAL UNITS	DL									
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VOLATILES (SW-846, 8240)

Chloromethane	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Bromomethane	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Vinyl Chloride	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Chloroethane	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Methylene Chloride	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Acetone	330 E	ug/kg	12	850 D	ug/kg	61	11 U	ug/kg	11	9 JB	ug/l	10
Carbon Disulfide	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,1-Dichloroethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,1-Dichloroethene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,2-Dichloroethene (total)	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Chloroform	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,2-Dichloroethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
2-Butanone	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
1,1,1-Trichloroethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Carbon Tetrachloride	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Bromodichloromethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,2-Dichloropropane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
cis-1,3-Dichloropropene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Trichloroethene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Dibromochloromethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,1,2-Trichloroethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Benzene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
trans-1,3-Dichloropropene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Bromoform	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
4-Methyl-2-Pentanone	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
2-Hexanone	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Tetrachloroethene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,1,2,2-Tetrachloroethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Toluene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Chlorobenzene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Ethylbenzene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Styrene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Xylenes (total)	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Dichlorodifluoromethane	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Trichlorofluoromethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,3-Dichlorobenzene (VOC)	-			-			-			-		
Acrolein	120 U	ug/kg	120	610 U	ug/kg	610	110 U	ug/kg	110	100 U	ug/l	100
Iodomethane	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
1,4-Dichlorobenzene (VOC)	-			-			-			-		
Acrylonitrile	120 U	ug/kg	120	610 U	ug/kg	610	110 U	ug/kg	110	100 U	ug/l	100
Dibromomethane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME459004 MAYPORT BPB00405 05-AUG-97			ME459004DL MAYPORT BPB00405DL 05-AUG-97			ME459003 MAYPORT BPB00505 05-AUG-97			ME817007 MAYPORT BPG00101 24-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	12 U	ug/kg	12	61 U	ug/kg	61	11 U	ug/kg	11	10 U	ug/l	10
Ethyl methacrylate	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
1,2,3-Trichloropropane	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	6 U	ug/kg	6	30 U	ug/kg	30	5 U	ug/kg	5	5 U	ug/l	5
Isobutyl alcohol	240 U	ug/kg	240	1200 U	ug/kg	1200	210 U	ug/kg	210	200 U	ug/l	200

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME862002 MAYPORT BPG00201 30-SEP-97			ME862003 MAYPORT BPG00201D 30-SEP-97			ME817006 MAYPORT BPG00301 24-SEP-97			ME817005 MAYPORT BPG00401 24-SEP-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
VOLATILES (SW-846, 8240)																
Chloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
Bromomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
Vinyl Chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
Chloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
Methylene Chloride	1	JB	ug/l	5	1	JB	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Acetone	10	U	ug/l	10	10	U	ug/l	10	10	B	ug/l	10	40	JB	ug/l	50
Carbon Disulfide	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,1-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,1-Dichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,2-Dichloroethene (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Chloroform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,2-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
2-Butanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
1,1,1-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Carbon Tetrachloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Bromodichloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,2-Dichloropropane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
cis-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Trichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Dibromochloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,1,2-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Benzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
trans-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Bromoform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
4-Methyl-2-Pentanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
2-Hexanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
Tetrachloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,1,2,2-Tetrachloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Toluene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Chlorobenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Ethylbenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	8	J	ug/l	25
Styrene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Xylenes (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
Dichlorodifluoromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
Trichlorofluoromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25
1,3-Dichlorobenzene (VOC)	-			-	-			-	-			-	-			-
Acrolein	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100	500	U	ug/l	500
Iodomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	50	U	ug/l	50
1,4-Dichlorobenzene (VOC)	-			-	-			-	-			-	-			-
Acrylonitrile	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100	500	U	ug/l	500
Dibromomethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	25	U	ug/l	25

Group IV Sampling Event

Lab Sample Number:
 Site
 Locator
 Collect Date:

ME862002
 MAYPORT
 BPG00201
 30-SEP-97
 VALUE QUAL UNITS DL

ME862003
 MAYPORT
 BPG00201D
 30-SEP-97
 VALUE QUAL UNITS DL

ME817006
 MAYPORT
 BPG00301
 24-SEP-97
 VALUE QUAL UNITS DL

ME817005
 MAYPORT
 BPG00401
 24-SEP-97
 VALUE QUAL UNITS DL

	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	50 U	ug/l	50
Ethyl methacrylate	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	25 U	ug/l	25
1,2,3-Trichloropropane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	25 U	ug/l	25
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	25 U	ug/l	25
Isobutyl alcohol	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200	1000 U	ug/l	1000

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:
Site
Locator
Collect Date:

ME817004
MAYPORT
BPG00501
23-SEP-97

ME862005
MAYPORT
EPG00101
30-SEP-97

ME862004
MAYPORT
EPG00301
30-SEP-97

ME836004
MAYPORT
G4D00101
25-SEP-97

VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL VALUE QUAL UNITS DL

VOLATILES (SW-846, 8240)

Chloromethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Bromomethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Vinyl Chloride	10 U	ug/l	10	2 J	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Chloroethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Methylene Chloride	5 U	ug/l	5	2 JB	ug/l	5	2 JB	ug/l	5	5 J	ug/kg	7
Acetone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	11 JB	ug/kg	14
Carbon Disulfide	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,1-Dichloroethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,1-Dichloroethene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,2-Dichloroethene (total)	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Chloroform	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,2-Dichloroethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
2-Butanone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	3 J	ug/kg	14
1,1,1-Trichloroethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Carbon Tetrachloride	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Bromodichloromethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,2-Dichloropropane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
cis-1,3-Dichloropropene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Trichloroethene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Dibromochloromethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,1,2-Trichloroethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Benzene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
trans-1,3-Dichloropropene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Bromoform	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
4-Methyl-2-Pentanone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
2-Hexanone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Tetrachloroethene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,1,2,2-Tetrachloroethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Toluene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Chlorobenzene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Ethylbenzene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Styrene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Xylenes (total)	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Dichlorodifluoromethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Trichlorofluoromethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,3-Dichlorobenzene (VOC)	-			-			-			-		
Acrolein	100 U	ug/l	100	100 U	ug/l	100	100 U	ug/l	100	140 U	ug/kg	140
Iodomethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
1,4-Dichlorobenzene (VOC)	-			-			-			-		
Acrylonitrile	100 U	ug/l	100	100 U	ug/l	100	100 U	ug/l	100	140 U	ug/kg	140
Dibromomethane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7

Group IV Sampling Event

Lab Sample Number:	ME817004			ME862005			ME862004			ME836004		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	BPG00501			EPG00101			EPG00301			G4D00101		
Collect Date:	23-SEP-97			30-SEP-97			30-SEP-97			25-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	14 U	ug/kg	14
Ethyl methacrylate	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
1,2,3-Trichloropropane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	7 U	ug/kg	7
Isobutyl alcohol	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200	270 U	ug/kg	270

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME836005		ME836005R		ME836003		ME836001		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	G4D00201		G4D00201R		G4D00301		G4D00401		
Collect Date:	25-SEP-97		25-SEP-97		25-SEP-97		25-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

VOLATILES (SW-846, 8240)

Chloromethane	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Bromomethane	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Vinyl Chloride	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Chloroethane	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Methylene Chloride	4 J	ug/kg	5	5 J	ug/kg	5	6 J	ug/kg	9	7 J	ug/kg	13
Acetone	11 U	ug/kg	11	2 JB	ug/kg	11	15 JB	ug/kg	18	120 B	ug/kg	26
Carbon Disulfide	5 U	ug/kg	5	5 U	ug/kg	5	4 J	ug/kg	9	27	ug/kg	13
1,1-Dichloroethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,1-Dichloroethene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,2-Dichloroethene (total)	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Chloroform	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,2-Dichloroethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
2-Butanone	11 U	ug/kg	11	11 U	ug/kg	11	4 J	ug/kg	18	16 J	ug/kg	26
1,1,1-Trichloroethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Carbon Tetrachloride	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Bromodichloromethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,2-Dichloropropane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
cis-1,3-Dichloropropene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Trichloroethene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Dibromochloromethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,1,2-Trichloroethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Benzene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
trans-1,3-Dichloropropene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Bromoform	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
4-Methyl-2-Pentanone	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
2-Hexanone	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Tetrachloroethene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,1,2,2-Tetrachloroethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Toluene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Chlorobenzene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Ethylbenzene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Styrene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Xylenes (total)	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Dichlorodifluoromethane	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Trichlorofluoromethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,3-Dichlorobenzene (VOC)	-			-			-			-		
Acrolein	110 U	ug/kg	110	110 U	ug/kg	110	180 U	ug/kg	180	260 U	ug/kg	260
Iodomethane	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
1,4-Dichlorobenzene (VOC)	-			-			-			-		
Acrylonitrile	110 U	ug/kg	110	110 U	ug/kg	110	180 U	ug/kg	180	260 U	ug/kg	260
Dibromomethane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13

Group IV Sampling Event

Lab Sample Number:	ME836005			ME836005R			ME836003			ME836001		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	G4D00201			G4D00201R			G4D00301			G4D00401		
Collect Date:	25-SEP-97			25-SEP-97			25-SEP-97			25-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	11 U	ug/kg	11	11 U	ug/kg	11	18 U	ug/kg	18	26 U	ug/kg	26
Ethyl methacrylate	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
1,2,3-Trichloropropane	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/kg	5	5 U	ug/kg	5	9 U	ug/kg	9	13 U	ug/kg	13
Isobutyl alcohol	220 U	ug/kg	220	220 U	ug/kg	220	360 U	ug/kg	360	510 U	ug/kg	510

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME836002	MF071002	ME835006	ME835005							
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT							
Locator	G4D00401D	G4D00501	G4W001	G4W003							
Collect Date:	25-SEP-97	07-NOV-97	26-SEP-97	25-SEP-97							
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

VOLATILES (SW-846, 8240)

Chloromethane	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
Bromomethane	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
Vinyl Chloride	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
Chloroethane	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
Methylene Chloride	12 J	ug/kg	14	2 J	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Acetone	33 B	ug/kg	28	6 J	ug/kg	15	5 JB	ug/l	10	6 JB	ug/l	10
Carbon Disulfide	6 J	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,1-Dichloroethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,1-Dichloroethene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,2-Dichloroethene (total)	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Chloroform	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,2-Dichloroethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
2-Butanone	7 J	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
1,1,1-Trichloroethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Carbon Tetrachloride	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Bromodichloromethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,2-Dichloropropane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
cis-1,3-Dichloropropene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Trichloroethene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Dibromochloromethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,1,2-Trichloroethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Benzene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
trans-1,3-Dichloropropene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Bromoform	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
4-Methyl-2-Pentanone	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
2-Hexanone	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
Tetrachloroethene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,1,2,2-Tetrachloroethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Toluene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Chlorobenzene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Ethylbenzene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Styrene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Xylenes (total)	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
Dichlorodifluoromethane	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
Trichlorofluoromethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5
1,3-Dichlorobenzene (VOC)	-		-	-		-	-		-	-		-
Acrolein	280 U	ug/kg	280	150 U	ug/kg	150	100 U	ug/l	100	100 U	ug/l	100
Iodomethane	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10	10 U	ug/l	10
1,4-Dichlorobenzene (VOC)	-		-	-		-	-		-	-		-
Acrylonitrile	280 U	ug/kg	280	150 U	ug/kg	150	100 U	ug/l	100	100 U	ug/l	100
Dibromomethane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5	5 U	ug/l	5

Group IV Sampling Event

Lab Sample Number:	ME836002		MF071002		ME835006		ME835005		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	G4D00401D		G4D00501		G4W001		G4W003		
Collect Date:	25-SEP-97		07-NOV-97		26-SEP-97		25-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-		
2-Chloroethyl vinyl ether	28 U	ug/kg	28	15 U	ug/kg	15	10 U	ug/l	10
Ethyl methacrylate	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5
1,2,3-Trichloropropane	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5
2-Nitropropane	-			-			-		
trans-1,4-Dichloro-2-butene	14 U	ug/kg	14	8 U	ug/kg	8	5 U	ug/l	5
Isobutyl alcohol	560 U	ug/kg	560	310 U	ug/kg	310	200 U	ug/l	200

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME835003	ME835004	ME780003	ME746008							
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT							
Locator	G4W004	G4W004D	LSG00101	S1600101							
Collect Date:	25-SEP-97	25-SEP-97	18-SEP-97	16-SEP-97							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

VOLATILES (SW-846, 8240)

Chloromethane	10 U	ug/l	10									
Bromomethane	10 U	ug/l	10									
Vinyl Chloride	10 U	ug/l	10									
Chloroethane	10 U	ug/l	10									
Methylene Chloride	5 U	ug/l	5	5 U	ug/l	5	2 J	ug/l	5	5 U	ug/l	5
Acetone	4 JB	ug/l	10	3 JB	ug/l	10	7 JB	ug/l	10	3 JB	ug/l	10
Carbon Disulfide	5 U	ug/l	5									
1,1-Dichloroethane	5 U	ug/l	5									
1,1-Dichloroethene	5 U	ug/l	5									
1,2-Dichloroethene (total)	5 U	ug/l	5									
Chloroform	5 U	ug/l	5									
1,2-Dichloroethane	5 U	ug/l	5									
2-Butanone	10 U	ug/l	10									
1,1,1-Trichloroethane	5 U	ug/l	5									
Carbon Tetrachloride	5 U	ug/l	5									
Bromodichloromethane	5 U	ug/l	5									
1,2-Dichloropropane	5 U	ug/l	5									
cis-1,3-Dichloropropene	5 U	ug/l	5									
Trichloroethene	5 U	ug/l	5									
Dibromochloromethane	5 U	ug/l	5									
1,1,2-Trichloroethane	5 U	ug/l	5									
Benzene	5 U	ug/l	5									
trans-1,3-Dichloropropene	5 U	ug/l	5									
Bromoform	5 U	ug/l	5									
4-Methyl-2-Pentanone	10 U	ug/l	10									
2-Hexanone	10 U	ug/l	10									
Tetrachloroethene	5 U	ug/l	5									
1,1,2,2-Tetrachloroethane	5 U	ug/l	5									
Toluene	5 U	ug/l	5									
Chlorobenzene	5 U	ug/l	5									
Ethylbenzene	5 U	ug/l	5									
Styrene	5 U	ug/l	5									
Xylenes (total)	5 U	ug/l	5	5 U	ug/l	5	2 J	ug/l	5	5 U	ug/l	5
Dichlorodifluoromethane	10 U	ug/l	10									
Trichlorofluoromethane	5 U	ug/l	5									
1,3-Dichlorobenzene (VOC)	-		-	-		-	-		-	-		-
Acrolein	100 U	ug/l	100									
Iodomethane	10 U	ug/l	10									
1,4-Dichlorobenzene (VOC)	-		-	-		-	-		-	-		-
Acrylonitrile	100 U	ug/l	100									
Dibromomethane	5 U	ug/l	5									

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME835003 MAYPORT G4W004 25-SEP-97			ME835004 MAYPORT G4W004D 25-SEP-97			ME780003 MAYPORT LSG00101 18-SEP-97			ME746008 MAYPORT S1G00101 16-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Ethyl methacrylate	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
1,2,3-Trichloropropane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
Isobutyl alcohol	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME780002	ME746007	ME746005	ME746006							
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT							
Locator	S1G00201	S1G00301	S1G00401	S1G00401D							
Collect Date:	18-SEP-97	16-SEP-97	16-SEP-97	16-SEP-97							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

VOLATILES (SW-846, B240)

Chloromethane	10 U	ug/l	10									
Bromomethane	10 U	ug/l	10									
Vinyl Chloride	10 U	ug/l	10									
Chloroethane	10 U	ug/l	10									
Methylene Chloride	5 U	ug/l	5									
Acetone	10 U	ug/l	10	4 JB	ug/l	10	10 U	ug/l	10	4 JB	ug/l	10
Carbon Disulfide	5 U	ug/l	5									
1,1-Dichloroethane	5 U	ug/l	5									
1,1-Dichloroethene	5 U	ug/l	5									
1,2-Dichloroethene (total)	5 U	ug/l	5									
Chloroform	5 U	ug/l	5									
1,2-Dichloroethane	5 U	ug/l	5									
2-Butanone	10 U	ug/l	10									
1,1,1-Trichloroethane	5 U	ug/l	5									
Carbon Tetrachloride	5 U	ug/l	5									
Bromodichloromethane	5 U	ug/l	5									
1,2-Dichloropropane	5 U	ug/l	5									
cis-1,3-Dichloropropene	5 U	ug/l	5									
Trichloroethene	5 U	ug/l	5									
Dibromochloromethane	5 U	ug/l	5									
1,1,2-Trichloroethane	5 U	ug/l	5									
Benzene	5 U	ug/l	5									
trans-1,3-Dichloropropene	5 U	ug/l	5									
Bromoform	5 U	ug/l	5									
4-Methyl-2-Pentanone	10 U	ug/l	10									
2-Hexanone	10 U	ug/l	10									
Tetrachloroethene	5 U	ug/l	5									
1,1,2,2-Tetrachloroethane	5 U	ug/l	5									
Toluene	5 U	ug/l	5									
Chlorobenzene	5 U	ug/l	5									
Ethylbenzene	5 U	ug/l	5									
Styrene	5 U	ug/l	5									
Xylenes (total)	5 U	ug/l	5									
Dichlorodifluoromethane	10 U	ug/l	10									
Trichlorofluoromethane	5 U	ug/l	5									
1,3-Dichlorobenzene (VOC)	-			-			-			-		
Acrolein	100 U	ug/l	100									
Iodomethane	10 U	ug/l	10									
1,4-Dichlorobenzene (VOC)	-			-			-			-		
Acrylonitrile	100 U	ug/l	100									
Dibromomethane	5 U	ug/l	5									

Group IV Sampling Event

Lab Sample Number:	ME780002			ME746007			ME746005			ME746006		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	S1G00201			S1G00301			S1G00401			S1G00401D		
Collect Date:	18-SEP-97			16-SEP-97			16-SEP-97			16-SEP-97		
	VALUE	QUAL UNITS	DL									
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	10 U	ug/l	10									
Ethyl methacrylate	5 U	ug/l	5									
1,2,3-Trichloropropane	5 U	ug/l	5									
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/l	5									
Isobutyl alcohol	200 U	ug/l	200									

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME746003		ME780007		ME780008		ME780009					
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT					
Locator	S2G00101		S3G00101		S3G00201		S3G00201D					
Collect Date:	16-SEP-97		18-SEP-97		19-SEP-97		19-SEP-97					
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	
VOLATILES (SW-846, 8240)												
Chloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Bromomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Vinyl Chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Methylene Chloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Acetone	2	JB	ug/l	10	5	JB	ug/l	10	10	U	ug/l	10
Carbon Disulfide	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1-Dichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloroethene (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Chloroform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
2-Butanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1,1-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Carbon Tetrachloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Bromodichloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloropropane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
cis-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Trichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Dibromochloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1,2-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Benzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
trans-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Bromoform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
4-Methyl-2-Pentanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Hexanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Tetrachloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1,2,2-Tetrachloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Toluene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Chlorobenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Ethylbenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Styrene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Xylenes (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Dichlorodifluoromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Trichlorofluoromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,3-Dichlorobenzene (VOC)	-			-				-				-
Acrolein	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100
Iodomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,4-Dichlorobenzene (VOC)	-			-				-				-
Acrylonitrile	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100
Dibromomethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5

Group IV Sampling Event

Lab Sample Number:	ME746003		ME780007		ME780008		ME780009		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	S2G00101		S3G00101		S3G00201		S3G00201D		
Collect Date:	16-SEP-97		18-SEP-97		19-SEP-97		19-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-		
2-Chloroethyl vinyl ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Ethyl methacrylate	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
1,2,3-Trichloropropane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
2-Nitropropane	-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
Isobutyl alcohol	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200

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 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME780010		ME746004		ME817002		ME817003		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	S3G00301		S5G00101		S8G00101		S8G00201		
Collect Date:	19-SEP-97		16-SEP-97		23-SEP-97		23-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

VOLATILES (SW-846, 8240)

Chloromethane	10 U	ug/l	10									
Bromomethane	10 U	ug/l	10									
Vinyl Chloride	10 U	ug/l	10									
Chloroethane	10 U	ug/l	10									
Methylene Chloride	1 J	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
Acetone	3 JB	ug/l	10	6 JB	ug/l	10	2 JB	ug/l	10	2 JB	ug/l	10
Carbon Disulfide	5 U	ug/l	5									
1,1-Dichloroethane	5 U	ug/l	5									
1,1-Dichloroethene	5 U	ug/l	5									
1,2-Dichloroethene (total)	5 U	ug/l	5									
Chloroform	5 U	ug/l	5									
1,2-Dichloroethane	5 U	ug/l	5									
2-Butanone	10 U	ug/l	10	2 J	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,1,1-Trichloroethane	5 U	ug/l	5									
Carbon Tetrachloride	5 U	ug/l	5									
Bromodichloromethane	5 U	ug/l	5									
1,2-Dichloropropane	5 U	ug/l	5									
cis-1,3-Dichloropropene	5 U	ug/l	5									
Trichloroethene	5 U	ug/l	5									
Dibromochloromethane	5 U	ug/l	5									
1,1,2-Trichloroethane	5 U	ug/l	5									
Benzene	5 U	ug/l	5									
trans-1,3-Dichloropropene	5 U	ug/l	5									
Bromoform	5 U	ug/l	5									
4-Methyl-2-Pentanone	10 U	ug/l	10									
2-Hexanone	10 U	ug/l	10									
Tetrachloroethene	5 U	ug/l	5									
1,1,2,2-Tetrachloroethane	5 U	ug/l	5									
Toluene	5 U	ug/l	5									
Chlorobenzene	5 U	ug/l	5									
Ethylbenzene	5 U	ug/l	5									
Styrene	5 U	ug/l	5									
Xylenes (total)	5 U	ug/l	5									
Dichlorodifluoromethane	10 U	ug/l	10									
Trichlorofluoromethane	5 U	ug/l	5									
1,3-Dichlorobenzene (VOC)	-			-			-			-		
Acrolein	100 U	ug/l	100									
Iodomethane	10 U	ug/l	10									
1,4-Dichlorobenzene (VOC)	-			-			-			-		
Acrylonitrile	100 U	ug/l	100									
Dibromomethane	5 U	ug/l	5									

Group IV Sampling Event

Lab Sample Number:	ME780010		ME746004		ME817002		ME817003					
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT					
Locator	S3G00301		S5G00101		S8G00101		S8G00201					
Collect Date:	19-SEP-97		16-SEP-97		23-SEP-97		23-SEP-97					
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	
1,2-Dichlorobenzene (VOC)	-		-			-			-			
2-Chloroethyl vinyl ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Ethyl methacrylate	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
1,2,3-Trichloropropane	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
2-Nitropropane	-		-			-			-			
trans-1,4-Dichloro-2-butene	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5	5 U	ug/l	5
Isobutyl alcohol	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200	200 U	ug/l	200

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
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 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME459010	ME459008	ME459009	ME459011
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT
Locator	S9B00104	S9B00204	S9B00204D	S9B00304
Collect Date:	06-AUG-97	06-AUG-97	06-AUG-97	06-AUG-97

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
VOLATILES (SW-846, 8240)																
Chloromethane	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
Bromomethane	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
Vinyl Chloride	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
Chloroethane	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
Methylene Chloride	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Acetone	55	U	ug/kg	10	51	U	ug/kg	10	31	U	ug/kg	11	23	U	ug/kg	12
Carbon Disulfide	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,1-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,1-Dichloroethene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,2-Dichloroethene (total)	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Chloroform	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,2-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
2-Butanone	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
1,1,1-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Carbon Tetrachloride	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Bromodichloromethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,2-Dichloropropane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
cis-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Trichloroethene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Dibromochloromethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,1,2-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Benzene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
trans-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Bromoform	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
4-Methyl-2-Pentanone	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
2-Hexanone	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
Tetrachloroethene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,1,2,2-Tetrachloroethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Toluene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Chlorobenzene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Ethylbenzene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Styrene	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Xylenes (total)	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
Dichlorodifluoromethane	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
Trichlorofluoromethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6
1,3-Dichlorobenzene (VOC)	-			-	-			-	-			-	-			-
Acrolein	100	U	ug/kg	100	100	U	ug/kg	100	110	U	ug/kg	110	120	U	ug/kg	120
Iodomethane	10	U	ug/kg	10	10	U	ug/kg	10	11	U	ug/kg	11	12	U	ug/kg	12
1,4-Dichlorobenzene (VOC)	-			-	-			-	-			-	-			-
Acrylonitrile	100	U	ug/kg	100	100	U	ug/kg	100	110	U	ug/kg	110	120	U	ug/kg	120
Dibromomethane	5	U	ug/kg	5	5	U	ug/kg	5	5	U	ug/kg	5	6	U	ug/kg	6

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME459010 MAYPORT S9B00104 06-AUG-97			ME459008 MAYPORT S9B00204 06-AUG-97			ME459009 MAYPORT S9B00204D 06-AUG-97			ME459011 MAYPORT S9B00304 06-AUG-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
1,2-Dichlorobenzene (VOC)	-			-			-			-		
2-Chloroethyl vinyl ether	10 U	ug/kg	10	10 U	ug/kg	10	11 U	ug/kg	11	12 U	ug/kg	12
Ethyl methacrylate	5 U	ug/kg	5	5 U	ug/kg	5	5 U	ug/kg	5	6 U	ug/kg	6
1,2,3-Trichloropropane	5 U	ug/kg	5	5 U	ug/kg	5	5 U	ug/kg	5	6 U	ug/kg	6
2-Nitropropane	-			-			-			-		
trans-1,4-Dichloro-2-butene	5 U	ug/kg	5	5 U	ug/kg	5	5 U	ug/kg	5	6 U	ug/kg	6
Isobutyl alcohol	210 U	ug/kg	210	210 U	ug/kg	210	210 U	ug/kg	210	240 U	ug/kg	240

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME798004			ME798005			ME798006			ME798003		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	S9G00101			S9G00201			S9G00201D			S9G00301		
Collect Date:	22-SEP-97			23-SEP-97			23-SEP-97			22-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
VOLATILES (SW-846, 8240)												
Chloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Bromomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Vinyl Chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Methylene Chloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Acetone	10	U	ug/l	10	4	JB	ug/l	10	3	JB	ug/l	10
Carbon Disulfide	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1-Dichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloroethene (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Chloroform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
2-Butanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1,1-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Carbon Tetrachloride	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Bromodichloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,2-Dichloropropane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
cis-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Trichloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Dibromochloromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1,2-Trichloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Benzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
trans-1,3-Dichloropropene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Bromoform	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
4-Methyl-2-Pentanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Hexanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Tetrachloroethene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,1,2,2-Tetrachloroethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Toluene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Chlorobenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Ethylbenzene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Styrene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Xylenes (total)	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Dichlorodifluoromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Trichlorofluoromethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
1,3-Dichlorobenzene (VOC)	-			-	-			-	-			-
Acrolein	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100
Iodomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,4-Dichlorobenzene (VOC)	-			-	-			-	-			-
Acrylonitrile	100	U	ug/l	100	100	U	ug/l	100	100	U	ug/l	100
Dibromomethane	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5

Group IV Sampling Event

	ME798004			ME798005			ME798006			ME798003		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Lab Sample Number:	ME798004			ME798005			ME798006			ME798003		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	S9G00101			S9G00201			S9G00201D			S9G00301		
Collect Date:	22-SEP-97			23-SEP-97			23-SEP-97			22-SEP-97		
1,2-Dichlorobenzene (VOC)	-				-				-			
2-Chloroethyl vinyl ether	10 U	ug/l		10	10 U	ug/l		10	10 U	ug/l		10
Ethyl methacrylate	5 U	ug/l		5	5 U	ug/l		5	5 U	ug/l		5
1,2,3-Trichloropropane	5 U	ug/l		5	5 U	ug/l		5	5 U	ug/l		5
2-Nitropropane	-				-				-			
trans-1,4-Dichloro-2-butene	5 U	ug/l		5	5 U	ug/l		5	5 U	ug/l		5
Isobutyl alcohol	200 U	ug/l		200	200 U	ug/l		200	200 U	ug/l		200

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

ATTACHMENT C (Continued)

Semivolatile Organics

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME388008 MAYPORT 10B00107 30-JUL-97			MF449003 MAYPORT 10G00101 27-JAN-98			ME388006 MAYPORT 12B00109 29-JUL-97			ME388007 MAYPORT 12B00209 29-JUL-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
EMIVOLATILES (SW-846,8270)																
N-Nitrosodimethylamine	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Phenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Aniline	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
bis(2-Chloroethyl) ether	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2-Chlorophenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
1,3-Dichlorobenzene (SVOC)	-			-					-			-				
1,4-Dichlorobenzene (SVOC)	-			-					-			-				
Benzyl Alcohol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
1,2-Dichlorobenzene (SVOC)	-			-					-			-				
2-Methylphenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
bis(2-Chloroisopropyl) ether	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
N-Nitroso-Di-n-Propylamine	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Hexachloroethane	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Nitrobenzene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Isophorone	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2-Nitrophenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2,4-Dimethylphenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Benzoic acid	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
bis(2-Chloroethoxy) methane	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
1,2,4-Trichlorobenzene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Naphthalene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
4-Chloroaniline	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Hexachlorobutadiene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
4-Chloro-3-Methylphenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2-Methylnaphthalene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Hexachlorocyclopentadiene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2,4,6-Trichlorophenol	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2,4,5-Trichlorophenol	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
2-Chloronaphthalene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2-Nitroaniline	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
Dimethylphthalate	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Acenaphthylene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2,6-Dinitrotoluene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
3-Nitroaniline	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
Acenaphthene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2,4-Dinitrophenol	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
4-Nitrophenol	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
Dibenzofuran	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
2,4-Dinitrotoluene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Diethylphthalate	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
4-Chlorophenyl-phenylether	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Fluorene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
4-Nitroaniline	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
4,6-Dinitro-2-methylphenol	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
N-Nitrosodiphenylamine (1)	-			-					-			-				
1,2-Diphenylhydrazine	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
4-Bromophenyl-phenylether	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Hexachlorobenzene	360	U	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Pentachlorophenol	1800	U	ug/kg	1800	50	U	ug/l	50	1700	U	ug/kg	1700	2100	U	ug/kg	2100
Phenanthrene	490	J	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440
Anthracene	160	J	ug/kg	360	10	U	ug/l	10	350	U	ug/kg	350	440	U	ug/kg	440

Group IV Sampling Event

Lab Sample Number:	ME388008	MF449003	ME388006	ME388007								
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT								
Locator	10800107	10G00101	12B00109	12B00209								
Collect Date:	30-JUL-97	27-JAN-98	29-JUL-97	29-JUL-97								
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
Di-n-Butylphthalate	96 J	ug/kg	360	1 J	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Fluoranthene	2500	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Pyrene	2000	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Butylbenzylphthalate	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
3,3-Dichlorobenzidine	720 U	ug/kg	720	20 U	ug/l	20	690 U	ug/kg	690	880 U	ug/kg	880
Benzo (a) anthracene	1200	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Chrysene	1200	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
bis(2-Ethylhexyl) phthalate	86 J	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Di-n-octylphthalate	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Benzo (b) fluoranthene	990	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Benzo (k) fluoranthene	800	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Benzo (a) pyrene	880	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Indeno (1,2,3-cd) pyrene	480	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Dibenzo (a,h) anthracene	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Benzo (g,h,i) perylene	500	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
2-Picoline	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
Methyl methanesulfonate	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Ethyl methanesulfonate	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Acetophenone	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
N-Nitrosopiperidine	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
2,6-Dichlorophenol	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
N-Nitroso-di-n-butylamine	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
2,4-Dichlorophenol	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Benzidine	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
1,2,4,5-Tetrachlorobenzene	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
Pentachlorobenzene	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
1-Naphthylamine	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
2-Naphthylamine	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
1-Chloronaphthalene	-			-			-			-		
2,3,4,6-Tetrachlorophenol	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
Phenacetin	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
4-Aminobiphenyl	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
Pentachloronitrobenzene	1800 U	ug/kg	1800	50 U	ug/l	50	1700 U	ug/kg	1700	2100 U	ug/kg	2100
Pronamide	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
p-Dimethylaminoazobenzene	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440
7,12-Dimethylbenz(a)Anthrac	-			-			-			-		
3-Methylcholanthrene	360 U	ug/kg	360	10 U	ug/l	10	350 U	ug/kg	350	440 U	ug/kg	440

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME780005 MAYPORT 12G00101 18-SEP-97			ME780006 MAYPORT 12G00201 18-SEP-97			ME459007 MAYPORT BPB00105 05-AUG-97			ME459006 MAYPORT BPB00205 05-AUG-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
EMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Phenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Aniline	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
bis(2-Chloroethyl) ether	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2-Chlorophenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
1,3-Dichlorobenzene (SVOC)	-			-	-			-	-			-
1,4-Dichlorobenzene (SVOC)	-			-	-			-	-			-
Benzyl Alcohol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
1,2-Dichlorobenzene (SVOC)	-			-	-			-	-			-
2-Methylphenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
bis(2-Chloroisopropyl) ether	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
N-Nitroso-Di-n-Propylamine	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Hexachloroethane	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Nitrobenzene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Isophorone	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2-Nitrophenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2,4-Dimethylphenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Benzoic acid	50	U	ug/l	50	50	U	ug/l	50	1700	U	ug/kg	1700
bis(2-Chloroethoxy) methane	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
1,2,4-Trichlorobenzene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Naphthalene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
4-Chloroaniline	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Hexachlorobutadiene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
4-Chloro-3-Methylphenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2-Methylnaphthalene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Hexachlorocyclopentadiene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2,4,6-Trichlorophenol	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2,4,5-Trichlorophenol	50	U	ug/l	50	50	U	ug/l	50	1700	U	ug/kg	1700
2-Chloronaphthalene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	1700	U	ug/kg	1700
Dimethylphthalate	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Acenaphthylene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2,6-Dinitrotoluene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
3-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	1700	U	ug/kg	1700
Acenaphthene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2,4-Dinitrophenol	50	U	ug/l	50	50	U	ug/l	50	1700	U	ug/kg	1700
4-Nitrophenol	50	U	ug/l	50	50	U	ug/l	50	1700	U	ug/kg	1700
Dibenzofuran	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
2,4-Dinitrotoluene	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
Diethylphthalate	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340
4-Chlorophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10	340	U	ug/kg	340

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME780005 MAYPORT 12G00101 18-SEP-97			ME780006 MAYPORT 12G00201 18-SEP-97			ME459007 MAYPORT BP800105 05-AUG-97			ME459006 MAYPORT BP800205 05-AUG-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
Fluorene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
4-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
4,6-Dinitro-2-methylphenol	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
N-Nitrosodiphenylamine (1)	-			-			-			-		
1,2-Diphenylhydrazine	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
4-Bromophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Hexachlorobenzene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Pentachlorophenol	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Phenanthrene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Anthracene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Di-n-Butylphthalate	3 JB	ug/l	10	3 JB	ug/l	10	140 JB	ug/kg	340	200 JB	ug/kg	340
Fluoranthene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	65 J	ug/kg	340
Pyrene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	61 J	ug/kg	340
Butylbenzylphthalate	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
3,3-Dichlorobenzidine	20 U	ug/l	20	20 U	ug/l	20	690 U	ug/kg	690	690 U	ug/kg	690
Benzo (a) anthracene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Chrysene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
bis(2-Ethylhexyl) phthalate	1 JB	ug/l	10	5 JB	ug/l	10	39 J	ug/kg	340	110 J	ug/kg	340
Di-n-octylphthalate	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Benzo (b) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	44 J	ug/kg	340
Benzo (k) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Benzo (a) pyrene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Indeno (1,2,3-cd) pyrene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Dibenzo (a,h) anthracene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Benzo (g,h,i) perylene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
2-Picoline	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Methyl methanesulfonate	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Ethyl methanesulfonate	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Acetophenone	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
N-Nitrosopiperidine	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
2,6-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
N-Nitroso-di-n-butylamine	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
2,4-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Benzidine	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
1,2,4,5-Tetrachlorobenzene	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Pentachlorobenzene	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
1-Naphthylamine	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
2-Naphthylamine	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
1-Chloronaphthalene	-			-			-			-		
2,3,4,6-Tetrachlorophenol	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
Phenacetin	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
4-Aminobiphenyl	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Pentachloronitrobenzene	50 U	ug/l	50	50 U	ug/l	50	1700 U	ug/kg	1700	1700 U	ug/kg	1700
Pronamide	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
p-Dimethylaminoazobenzene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340
7,12-Dimethylbenz(a)Anthrac	-			-			-			-		
3-Methylcholanthrene	10 U	ug/l	10	10 U	ug/l	10	340 U	ug/kg	340	340 U	ug/kg	340

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME459005 MAYPORT BPB00305 05-AUG-97			ME459005DL MAYPORT BPB00305DL 05-AUG-97			ME459004 MAYPORT BPB00405 05-AUG-97			ME459003 MAYPORT BPB00505 05-AUG-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
EMIVOLATILES (SW-846,8270)																
N-Nitrosodimethylamine	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Phenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Aniline	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
bis(2-Chloroethyl) ether	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2-Chlorophenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
1,3-Dichlorobenzene (SVOC)	-			-			-		-			-			-	
1,4-Dichlorobenzene (SVOC)	-			-			-		-			-			-	
Benzyl Alcohol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
1,2-Dichlorobenzene (SVOC)	-			-			-		-			-			-	
2-Methylphenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
bis(2-Chloroisopropyl) ether	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
N-Nitroso-Di-n-Propylamine	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Hexachloroethane	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Nitrobenzene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Isophorone	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2-Nitrophenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2,4-Dimethylphenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Benzoic acid	3600	U	ug/kg	3600	7100	U	ug/kg	7100	1800	U	ug/kg	1800	1700	U	ug/kg	1700
bis(2-Chloroethoxy) methane	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
1,2,4-Trichlorobenzene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Naphthalene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
4-Chloroaniline	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Hexachlorobutadiene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
4-Chloro-3-Methylphenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2-Methylnaphthalene	10000	E	ug/kg	720	11000	D	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Hexachlorocyclopentadiene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2,4,6-Trichlorophenol	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2,4,5-Trichlorophenol	3600	U	ug/kg	3600	7100	U	ug/kg	7100	1800	U	ug/kg	1800	1700	U	ug/kg	1700
2-Chloronaphthalene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2-Nitroaniline	3600	U	ug/kg	3600	7100	U	ug/kg	7100	1800	U	ug/kg	1800	1700	U	ug/kg	1700
Dimethylphthalate	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Acenaphthylene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2,6-Dinitrotoluene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
3-Nitroaniline	3600	U	ug/kg	3600	7100	U	ug/kg	7100	1800	U	ug/kg	1800	1700	U	ug/kg	1700
Acenaphthene	1300		ug/kg	720	1300	JD	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2,4-Dinitrophenol	3600	U	ug/kg	3600	7100	U	ug/kg	7100	1800	U	ug/kg	1800	1700	U	ug/kg	1700
4-Nitrophenol	3600	U	ug/kg	3600	7100	U	ug/kg	7100	1800	U	ug/kg	1800	1700	U	ug/kg	1700
Dibenzofuran	550	J	ug/kg	720	580	JD	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
2,4-Dinitrotoluene	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
Diethylphthalate	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350
4-Chlorophenyl-phenylether	720	U	ug/kg	720	1400	U	ug/kg	1400	360	U	ug/kg	360	350	U	ug/kg	350

Group IV Sampling Event

Lab Sample Number:	ME459005		ME459005DL		ME459004		ME459003					
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT					
Locator	BPB00305		BPB00305DL		BPB00405		BPB00505					
Collect Date:	05-AUG-97		05-AUG-97		05-AUG-97		05-AUG-97					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
Fluorene	2000	ug/kg	720	1800 D	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
4-Nitroaniline	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
4,6-Dinitro-2-methylphenol	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
N-Nitrosodiphenylamine (1)	-			-			-			-		
1,2-Diphenylhydrazine	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
4-Bromophenyl-phenylether	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Hexachlorobenzene	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Pentachlorophenol	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Phenanthrene	3200	ug/kg	720	3600 D	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Anthracene	940	ug/kg	720	1100 JD	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Di-n-Butylphthalate	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Fluoranthene	4300	ug/kg	720	6100 D	ug/kg	1400	67 J	ug/kg	360	350 U	ug/kg	350
Pyrene	5000	ug/kg	720	5000 D	ug/kg	1400	78 J	ug/kg	360	350 U	ug/kg	350
Butylbenzylphthalate	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
3,3-Dichlorobenzidine	1400 U	ug/kg	1400	2900 U	ug/kg	2900	720 U	ug/kg	720	690 U	ug/kg	690
Benzo (a) anthracene	2100	ug/kg	720	2200 D	ug/kg	1400	81 J	ug/kg	360	350 U	ug/kg	350
Chrysene	2000	ug/kg	720	2100 D	ug/kg	1400	78 J	ug/kg	360	350 U	ug/kg	350
bis(2-Ethylhexyl) phthalate	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Di-n-octylphthalate	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Benzo (b) fluoranthene	1300	ug/kg	720	1300 JD	ug/kg	1400	94 J	ug/kg	360	350 U	ug/kg	350
Benzo (k) fluoranthene	1300	ug/kg	720	1600 D	ug/kg	1400	100 J	ug/kg	360	350 U	ug/kg	350
Benzo (a) pyrene	1100	ug/kg	720	1100 JD	ug/kg	1400	90 J	ug/kg	360	350 U	ug/kg	350
Indeno (1,2,3-cd) pyrene	700 J	ug/kg	720	1400 U	ug/kg	1400	54 J	ug/kg	360	350 U	ug/kg	350
Dibenzo (a,h) anthracene	720 U	ug/kg	720	170 JD	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Benzo (g,h,i) perylene	690 J	ug/kg	720	670 JD	ug/kg	1400	56 J	ug/kg	360	350 U	ug/kg	350
2-Picoline	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Methyl methanesulfonate	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Ethyl methanesulfonate	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Acetophenone	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
N-Nitrosopiperidine	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
2,6-Dichlorophenol	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
N-Nitroso-di-n-butylamine	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
2,4-Dichlorophenol	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Benzdine	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
1,2,4,5-Tetrachlorobenzene	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Pentachlorobenzene	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
1-Naphthylamine	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
2-Naphthylamine	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
1-Chloronaphthalene	-			-			-			-		
2,3,4,6-Tetrachlorophenol	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
Phenacetin	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
4-Aminobiphenyl	3600 U	ug/kg	3600	7200 U	ug/kg	7200	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Pentachloronitrobenzene	3600 U	ug/kg	3600	7100 U	ug/kg	7100	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Pronamide	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
p-Dimethylaminoazobenzene	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350
7,12-Dimethylbenz(a)Anthrac	-			-			-			-		
3-Methylcholanthrene	720 U	ug/kg	720	1400 U	ug/kg	1400	360 U	ug/kg	360	350 U	ug/kg	350

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME817007			ME862002			ME862003			ME817006		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	BPG00101			BPG00201			BPG00201D			BPG00301		
Collect Date:	24-SEP-97			30-SEP-97			30-SEP-97			24-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
EMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Phenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Aniline	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
bis(2-Chloroethyl) ether	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2-Chlorophenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
1,3-Dichlorobenzene (SVOC)	-				-				-			
1,4-Dichlorobenzene (SVOC)	-				-				-			
Benzyl Alcohol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
1,2-Dichlorobenzene (SVOC)	-				-				-			
2-Methylphenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
bis(2-Chloroisopropyl) ether	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
N-Nitroso-Di-n-Propylamine	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Hexachloroethane	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Nitrobenzene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Isophorone	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2-Nitrophenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2,4-Dimethylphenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Benzoic acid	50 U		ug/l	50	50 U		ug/l	50	50 U		ug/l	50
bis(2-Chloroethoxy) methane	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
1,2,4-Trichlorobenzene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Naphthalene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
4-Chloroaniline	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Hexachlorobutadiene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
4-Chloro-3-Methylphenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2-Methylnaphthalene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Hexachlorocyclopentadiene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2,4,6-Trichlorophenol	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2,4,5-Trichlorophenol	50 U		ug/l	50	50 U		ug/l	50	50 U		ug/l	50
2-Chloronaphthalene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2-Nitroaniline	50 U		ug/l	50	50 U		ug/l	50	50 U		ug/l	50
Dimethylphthalate	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Acenaphthylene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2,6-Dinitrotoluene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
3-Nitroaniline	50 U		ug/l	50	50 U		ug/l	50	50 U		ug/l	50
Acenaphthene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2,4-Dinitrophenol	50 U		ug/l	50	50 U		ug/l	50	50 U		ug/l	50
4-Nitrophenol	50 U		ug/l	50	50 U		ug/l	50	50 U		ug/l	50
Dibenzofuran	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
2,4-Dinitrotoluene	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
Diethylphthalate	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10
4-Chlorophenyl-phenylether	10 U		ug/l	10	10 U		ug/l	10	10 U		ug/l	10

Group IV Sampling Event

Lab Sample Number:	ME817007			ME862002			ME862003			ME817006						
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT						
Locator	BPG00101			BPG00201			BPG00201D			BPG00301						
Collect Date:	24-SEP-97			30-SEP-97			30-SEP-97			24-SEP-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
Fluorene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	4	J	ug/l	10
4-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-				-				-				-			
1,2-Diphenylhydrazine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pentachlorophenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Phenanthrene	1	J	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	4	J	ug/l	10
Anthracene	1	J	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-Butylphthalate	2	JB	ug/l	10	2	JB	ug/l	10	2	JB	ug/l	10	1	JB	ug/l	10
Fluoranthene	3	J	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	2	J	ug/l	10
Pyrene	2	J	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	2	J	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3,3-Dichlorobenzidine	20	U	ug/l	20	20	U	ug/l	20	20	U	ug/l	20	20	U	ug/l	20
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	1	JB	ug/l	10	3	JB	ug/l	10	6	J	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Picoline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Methyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Ethyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Acetophenone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitrosopiperidine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,6-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-di-n-butylamine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzidine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pentachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
2-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1-Chloronaphthalene	-				-				-				-			
2,3,4,6-Tetrachlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Phenacetin	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Aminobiphenyl	50	U	ug/l	50	49	U	ug/l	49	49	U	ug/l	49	50	U	ug/l	50
Pentachloronitrobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pronamide	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
p-Dimethylaminoazobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-				-				-				-			
3-Methylcholanthrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME817005 MAYPORT BPG00401 24-SEP-97	DL	ME817004 MAYPORT BPG00501 23-SEP-97	DL	ME862005 MAYPORT EPG00101 30-SEP-97	DL	ME862004 MAYPORT EPG00301 30-SEP-97	DL
	VALUE QUAL UNITS		VALUE QUAL UNITS		VALUE QUAL UNITS		VALUE QUAL UNITS	
EMIVOLATILES (SW-846,8270)								
N-Nitrosodimethylamine	10 U ug/l	10						
Phenol	10 U ug/l	10						
Aniline	10 U ug/l	10						
bis(2-Chloroethyl) ether	10 U ug/l	10						
2-Chlorophenol	10 U ug/l	10						
1,3-Dichlorobenzene (SVOC)	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene (SVOC)	-	-	-	-	-	-	-	-
Benzyl Alcohol	10 U ug/l	10						
1,2-Dichlorobenzene (SVOC)	-	-	-	-	-	-	-	-
2-Methylphenol	10 U ug/l	10						
bis(2-Chloroisopropyl) ether	10 U ug/l	10						
N-Nitroso-Di-n-Propylamine	10 U ug/l	10						
Hexachloroethane	10 U ug/l	10						
Nitrobenzene	10 U ug/l	10						
Isophorone	10 U ug/l	10						
2-Nitrophenol	10 U ug/l	10						
2,4-Dimethylphenol	10 U ug/l	10						
Benzoic acid	50 U ug/l	50						
bis(2-Chloroethoxy) methane	10 U ug/l	10						
1,2,4-Trichlorobenzene	10 U ug/l	10						
Naphthalene	3 J ug/l	10	10 U ug/l	10	10 U ug/l	10	10 U ug/l	10
4-Chloroaniline	10 U ug/l	10						
Hexachlorobutadiene	10 U ug/l	10						
4-Chloro-3-Methylphenol	10 U ug/l	10						
2-Methylnaphthalene	10 U ug/l	10						
Hexachlorocyclopentadiene	10 U ug/l	10						
2,4,6-Trichlorophenol	10 U ug/l	10						
2,4,5-Trichlorophenol	50 U ug/l	50						
2-Chloronaphthalene	10 U ug/l	10						
2-Nitroaniline	50 U ug/l	50						
Dimethylphthalate	10 U ug/l	10						
Acenaphthylene	10 U ug/l	10						
2,6-Dinitrotoluene	10 U ug/l	10						
3-Nitroaniline	50 U ug/l	50						
Acenaphthene	8 J ug/l	10	26 U ug/l	10	10 U ug/l	10	10 U ug/l	10
2,4-Dinitrophenol	50 U ug/l	50						
4-Nitrophenol	50 U ug/l	50						
Dibenzofuran	6 J ug/l	10	3 J ug/l	10	10 U ug/l	10	10 U ug/l	10
2,4-Dinitrotoluene	10 U ug/l	10						
Diethylphthalate	10 U ug/l	10						
4-Chlorophenyl-phenylether	10 U ug/l	10						

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME817005 MAYPORT BPG00401 24-SEP-97			ME817004 MAYPORT BPG00501 23-SEP-97			ME862005 MAYPORT EPG00101 30-SEP-97			ME862004 MAYPORT EPG00301 30-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	8	J	ug/l	10	10		ug/l	10	10	U	ug/l	10
4-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-				-				-			
1,2-Diphenylhydrazine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pentachlorophenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Phenanthrene	9	J	ug/l	10	12		ug/l	10	10	U	ug/l	10
Anthracene	10	U	ug/l	10	3	J	ug/l	10	10	U	ug/l	10
Di-n-Butylphthalate	10	U	ug/l	10	10	U	ug/l	10	2	JB	ug/l	10
Fluoranthene	1	J	ug/l	10	10		ug/l	10	10	U	ug/l	10
Pyrene	10	U	ug/l	10	6	J	ug/l	10	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3,3-Dichlorobenzidine	20	U	ug/l	20	20	U	ug/l	20	20	U	ug/l	20
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Picoline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Methyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Ethyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Acetophenone	15		ug/l	10	1	J	ug/l	10	10	U	ug/l	10
N-Nitrosopiperidine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,6-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-di-n-butylamine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzidine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pentachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
2-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1-Chloronaphthalene	-				-				-			
2,3,4,6-Tetrachlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Phenacetin	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Aminobiphenyl	50	U	ug/l	50	50	U	ug/l	50	49	U	ug/l	49
Pentachloronitrobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pronamide	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
p-Dimethylaminoazobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-				-				-			
3-Methylcholanthrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
J = Estimated Value UJ = Reported Quantitation Limit is Estimated
D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	MF034006		MF034005		MF034004		MF034002					
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT					
Locator	G4D00101		G4D00201		G4D00301		G4D00401					
Collect Date:	04-NOV-97		04-NOV-97		04-NOV-97		04-NOV-97					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
EMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Phenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Aniline	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
bis(2-Chloroethyl) ether	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2-Chlorophenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
1,3-Dichlorobenzene (SVOC)	-			-			-			-		
1,4-Dichlorobenzene (SVOC)	-			-			-			-		
Benzyl Alcohol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
1,2-Dichlorobenzene (SVOC)	-			-			-			-		
2-Methylphenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
bis(2-Chloroisopropyl) ether	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
N-Nitroso-Di-n-Propylamine	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Hexachloroethane	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Nitrobenzene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Isophorone	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2-Nitrophenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2,4-Dimethylphenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Benzoic acid	2300 U	ug/kg	2300	2200 U	ug/kg	2200	3200 U	ug/kg	3200	3300 U	ug/kg	3300
bis(2-Chloroethoxy) methane	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
1,2,4-Trichlorobenzene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Naphthalene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
4-Chloroaniline	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Hexachlorobutadiene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
4-Chloro-3-Methylphenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2-Methylnaphthalene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Hexachlorocyclopentadiene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2,4,6-Trichlorophenol	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2,4,5-Trichlorophenol	2300 U	ug/kg	2300	2200 U	ug/kg	2200	3200 U	ug/kg	3200	3300 U	ug/kg	3300
2-Chloronaphthalene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2-Nitroaniline	2300 U	ug/kg	2300	2200 U	ug/kg	2200	3200 U	ug/kg	3200	3300 U	ug/kg	3300
Dimethylphthalate	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Acenaphthylene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2,6-Dinitrotoluene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
3-Nitroaniline	2300 U	ug/kg	2300	2200 U	ug/kg	2200	3200 U	ug/kg	3200	3300 U	ug/kg	3300
Acenaphthene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2,4-Dinitrophenol	2300 U	ug/kg	2300	2200 U	ug/kg	2200	3200 U	ug/kg	3200	3300 U	ug/kg	3300
4-Nitrophenol	2300 U	ug/kg	2300	2200 U	ug/kg	2200	3200 U	ug/kg	3200	3300 U	ug/kg	3300
Dibenzofuran	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
2,4-Dinitrotoluene	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
Diethylphthalate	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670
4-Chlorophenyl-phenylether	470 U	ug/kg	470	450 U	ug/kg	450	650 U	ug/kg	650	670 U	ug/kg	670

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	MF034006 MAYPORT G4D00101 04-NOV-97			MF034005 MAYPORT G4D00201 04-NOV-97			MF034004 MAYPORT G4D00301 04-NOV-97			MF034002 MAYPORT G4D00401 04-NOV-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
4-Nitroaniline	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
4,6-Dinitro-2-methylphenol	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
N-Nitrosodiphenylamine (1)	-			-	-			-	-			-
1,2-Diphenylhydrazine	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
4-Bromophenyl-phenylether	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Hexachlorobenzene	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Pentachlorophenol	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
Phenanthrene	470	U	ug/kg	470	450	U	ug/kg	450	100	J	ug/kg	650
Anthracene	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Di-n-Butylphthalate	71	JB	ug/kg	470	450	U	ug/kg	450	93	JB	ug/kg	650
Fluoranthene	85	J	ug/kg	470	450	U	ug/kg	450	250	J	ug/kg	650
Pyrene	67	J	ug/kg	470	450	U	ug/kg	450	240	J	ug/kg	650
Butylbenzylphthalate	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
3,3-Dichlorobenzidine	940	U	ug/kg	940	900	U	ug/kg	900	1300	U	ug/kg	1300
Benzo (a) anthracene	470	U	ug/kg	470	450	U	ug/kg	450	100	J	ug/kg	650
Chrysene	86	J	ug/kg	470	450	U	ug/kg	450	180	J	ug/kg	650
bis(2-Ethylhexyl) phthalate	58	J	ug/kg	470	450	U	ug/kg	450	1300	U	ug/kg	650
Di-n-octylphthalate	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Benzo (b) fluoranthene	90	J	ug/kg	470	450	U	ug/kg	450	150	J	ug/kg	650
Benzo (k) fluoranthene	86	J	ug/kg	470	450	U	ug/kg	450	180	J	ug/kg	650
Benzo (a) pyrene	56	J	ug/kg	470	450	U	ug/kg	450	120	J	ug/kg	650
Indeno (1,2,3-cd) pyrene	470	U	ug/kg	470	450	U	ug/kg	450	76	J	ug/kg	650
Dibenzo (a,h) anthracene	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Benzo (g,h,i) perylene	470	U	ug/kg	470	450	U	ug/kg	450	78	J	ug/kg	650
2-Picoline	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
Methyl methanesulfonate	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Ethyl methanesulfonate	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Acetophenone	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
N-Nitrosopiperidine	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
2,6-Dichlorophenol	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
N-Nitroso-di-n-butylamine	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
2,4-Dichlorophenol	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Benidine	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
1,2,4,5-Tetrachlorobenzene	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
Pentachlorobenzene	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
1-Naphthylamine	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
2-Naphthylamine	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
1-Chloronaphthalene	-			-	-			-	-			-
2,3,4,6-Tetrachlorophenol	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
Phenacetin	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
4-Aminobiphenyl	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
Pentachloronitrobenzene	2300	U	ug/kg	2300	2200	U	ug/kg	2200	3200	U	ug/kg	3200
Pronamide	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
p-Dimethylaminoazobenzene	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650
7,12-Dimethylbenz(a)Anthrac	-			-	-			-	-			-
3-Methylcholanthrene	470	U	ug/kg	470	450	U	ug/kg	450	650	U	ug/kg	650

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
J = Estimated Value UJ = Reported Quantitation Limit is Estimated
D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	MF034003 MAYPORT G4D00401D 04-NOV-97			MF071002 MAYPORT G4D00501 07-NOV-97			ME835006 MAYPORT G4W001 26-SEP-97			ME835005 MAYPORT G4W003 25-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
SEMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Phenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Aniline	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroethyl) ether	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2-Chlorophenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
1,3-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
Benzyl Alcohol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
1,2-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
2-Methylphenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroisopropyl) ether	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
N-Nitroso-Di-n-Propylamine	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Hexachloroethane	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Nitrobenzene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Isophorone	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2-Nitrophenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2,4-Dimethylphenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Benzoic acid	3300 U	ug/kg	3300	12000 U	ug/kg	12000	50 U	ug/l	50	50 U	ug/l	50
bis(2-Chloroethoxy) methane	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
1,2,4-Trichlorobenzene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Naphthalene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
4-Chloroaniline	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Hexachlorobutadiene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
4-Chloro-3-Methylphenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2-Methylnaphthalene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Hexachlorocyclopentadiene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2,4,6-Trichlorophenol	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2,4,5-Trichlorophenol	3300 U	ug/kg	3300	12000 U	ug/kg	12000	50 U	ug/l	50	50 U	ug/l	50
2-Chloronaphthalene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2-Nitroaniline	3300 U	ug/kg	3300	12000 U	ug/kg	12000	50 U	ug/l	50	50 U	ug/l	50
Dimethylphthalate	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Acenaphthylene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2,6-Dinitrotoluene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
3-Nitroaniline	3300 U	ug/kg	3300	12000 U	ug/kg	12000	50 U	ug/l	50	50 U	ug/l	50
Acenaphthene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrophenol	3300 U	ug/kg	3300	12000 U	ug/kg	12000	50 U	ug/l	50	50 U	ug/l	50
4-Nitrophenol	3300 U	ug/kg	3300	12000 U	ug/kg	12000	50 U	ug/l	50	50 U	ug/l	50
Dibenzofuran	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrotoluene	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
Diethylphthalate	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10
4-Chlorophenyl-phenylether	670 U	ug/kg	670	2600 U	ug/kg	2600	10 U	ug/l	10	10 U	ug/l	10

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	MF034003 MAYPORT G4D00401D 04-NOV-97			MF071002 MAYPORT G4D00501 07-NOV-97			ME835006 MAYPORT G4W001 26-SEP-97			ME835005 MAYPORT G4W003 25-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
4-Nitroaniline	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-			-				-				
1,2-Diphenylhydrazine	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
4-Bromophenyl-phenylether	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Hexachlorobenzene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Pentachlorophenol	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
Phenanthrene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Anthracene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Di-n-Butylphthalate	75	JB	ug/kg	670	2600	U	ug/kg	2600	2	J	ug/l	10
Fluoranthene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Pyrene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Butylbenzylphthalate	670	U	ug/kg	670	1500	J	ug/kg	2600	10	U	ug/l	10
3,3-Dichlorobenzidine	1300	U	ug/kg	1300	5100	U	ug/kg	5100	20	U	ug/l	20
Benzo (a) anthracene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Chrysene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	180	J	ug/kg	670	2000	J	ug/kg	2600	2	J	ug/l	10
Di-n-octylphthalate	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Benzo (b) fluoranthene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Benzo (k) fluoranthene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Benzo (a) pyrene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	670	U	ug/kg	670	370	J	ug/kg	2600	10	U	ug/l	10
Dibenzo (a,h) anthracene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Benzo (g,h,i) perylene	670	U	ug/kg	670	560	J	ug/kg	2600	10	U	ug/l	10
2-Picoline	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
Methyl methanesulfonate	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Ethyl methanesulfonate	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Acetophenone	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
N-Nitrosopiperidine	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
2,6-Dichlorophenol	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
N-Nitroso-di-n-butylamine	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
2,4-Dichlorophenol	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Benzidine	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
Pentachlorobenzene	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
1-Naphthylamine	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
2-Naphthylamine	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
1-Chloronaphthalene	-			-				-				
2,3,4,6-Tetrachlorophenol	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
Phenacetin	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
4-Aminobiphenyl	3300	U	ug/kg	3300	12000	U	ug/kg	12000	49	U	ug/l	49
Pentachloronitrobenzene	3300	U	ug/kg	3300	12000	U	ug/kg	12000	50	U	ug/l	50
Pronamide	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
p-Dimethylaminoazobenzene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-			-				-				
3-Methylcholanthrene	670	U	ug/kg	670	2600	U	ug/kg	2600	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
J = Estimated Value UJ = Reported Quantitation Limit is Estimated
D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME835003		ME835004		ME388002		ME780003		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	G4W004		G4W004D		LSB00110		LSG00101		
Collect Date:	25-SEP-97		25-SEP-97		29-JUL-97		18-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

SEMIVOLATILES (SW-846,8270)

N-Nitrosodimethylamine	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Phenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Aniline	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
bis(2-Chloroethyl) ether	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2-Chlorophenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
1,3-Dichlorobenzene (SVOC)	-			-			-			-		
1,4-Dichlorobenzene (SVOC)	-			-			-			-		
Benzyl Alcohol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
1,2-Dichlorobenzene (SVOC)	-			-			-			-		
2-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
bis(2-Chloroisopropyl) ether	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
N-Nitroso-Di-n-Propylamine	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Hexachloroethane	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Nitrobenzene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Isophorone	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2-Nitrophenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2,4-Dimethylphenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Benzoic acid	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	50 U	ug/l	50
bis(2-Chloroethoxy) methane	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
1,2,4-Trichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Naphthalene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	6 J	ug/l	10
4-Chloroaniline	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Hexachlorobutadiene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
4-Chloro-3-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2-Methylnaphthalene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	12	ug/l	10
Hexachlorocyclopentadiene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2,4,6-Trichlorophenol	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2,4,5-Trichlorophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	50 U	ug/l	50
2-Chloronaphthalene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	50 U	ug/l	50
Dimethylphthalate	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2,6-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
3-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	50 U	ug/l	50
Acenaphthene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2,4-Dinitrophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	50 U	ug/l	50
4-Nitrophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	50 U	ug/l	50
Dibenzofuran	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
2,4-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
Diethylphthalate	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10
4-Chlorophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	360 U	ug/kg	360	10 U	ug/l	10

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME835003 MAYPORT G4W004 25-SEP-97			ME835004 MAYPORT G4W004D 25-SEP-97			ME388002 MAYPORT LS800110 29-JUL-97			ME780003 MAYPORT LSG00101 18-SEP-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
Fluorene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	1	J	ug/l	10
4-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-				-				-				-			
1,2-Diphenylhydrazine	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Pentachlorophenol	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
Phenanthrene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	2	J	ug/l	10
Anthracene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Di-n-Butylphthalate	10	U	ug/l	10	1	J	ug/l	10	110	J	ug/kg	360	4	JB	ug/l	10
Fluoranthene	10	U	ug/l	10	10	U	ug/l	10	44	J	ug/kg	360	10	U	ug/l	10
Pyrene	10	U	ug/l	10	10	U	ug/l	10	45	J	ug/kg	360	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	41	J	ug/kg	360	10	U	ug/l	10
3,3-Dichlorobenzidine	20	U	ug/l	20	20	U	ug/l	20	720	U	ug/kg	720	20	U	ug/l	20
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	1	J	ug/l	10	1100		ug/kg	360	10	U	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
2-Picoline	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
Methyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Ethyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Acetophenone	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
N-Nitrosopiperidine	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
2,6-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
N-Nitroso-di-n-butylamine	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
2,4-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Benidine	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
Pentachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
1-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
2-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
1-Chloronaphthalene	-				-				-				-			
2,3,4,6-Tetrachlorophenol	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
Phenacetin	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
4-Aminobiphenyl	49	U	ug/l	49	49	U	ug/l	49	1800	U	ug/kg	1800	50	U	ug/l	50
Pentachloronitrobenzene	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800	50	U	ug/l	50
Pronamide	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
p-Dimethylaminoazobenzene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-				-				-				-			
3-Methylcholanthrene	10	U	ug/l	10	10	U	ug/l	10	360	U	ug/kg	360	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME366001		ME366002		ME366001RE		ME366003		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	S1B00103		S1B00103D		S1B00103RE		S1B00203		
Collect Date:	28-JUL-97		28-JUL-97		28-JUL-97		28-JUL-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

EMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Phenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Aniline	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
bis(2-Chloroethyl) ether	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2-Chlorophenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
1,3-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
Benzyl Alcohol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
1,2-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
2-Methylphenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
bis(2-Chloroisopropyl) ether	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
N-Nitroso-Di-n-Propylamine	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Hexachloroethane	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Nitrobenzene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Isophorone	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2-Nitrophenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2,4-Dimethylphenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Benzoic acid	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2200 U	ug/kg	2200
bis(2-Chloroethoxy) methane	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
1,2,4-Trichlorobenzene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Naphthalene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
4-Chloroaniline	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Hexachlorobutadiene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
4-Chloro-3-Methylphenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2-Methylnaphthalene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Hexachlorocyclopentadiene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2,4,6-Trichlorophenol	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2,4,5-Trichlorophenol	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2200 U	ug/kg	2200
2-Chloronaphthalene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2-Nitroaniline	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2200 U	ug/kg	2200
Dimethylphthalate	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Acenaphthylene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2,6-Dinitrotoluene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
3-Nitroaniline	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2200 U	ug/kg	2200
Acenaphthene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2,4-Dinitrophenol	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2200 U	ug/kg	2200
4-Nitrophenol	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2100 U	ug/kg	2100	2200 U	ug/kg	2200
Dibenzofuran	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
2,4-Dinitrotoluene	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
Diethylphthalate	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440
4-Chlorophenyl-phenylether	420 U	ug/kg	420	420 U	ug/kg	420	420 U	ug/kg	420	440 U	ug/kg	440

Group IV Sampling Event

Lab Sample Number:	ME366001	ME366002	ME366001RE	ME366003
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT
Locator	S1800103	S1800103D	S1800103RE	S1800203
Collect Date:	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97

	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
4-Nitroaniline	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
4,6-Dinitro-2-methylphenol	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
N-Nitrosodiphenylamine (1)	-				-				-				-			
1,2-Diphenylhydrazine	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
4-Bromophenyl-phenylether	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Hexachlorobenzene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Pentachlorophenol	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
Phenanthrene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Anthracene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Di-n-Butylphthalate	420	U	ug/kg	420	55 JB	ug/kg	420	98 JB	420	U	ug/kg	420	440	U	ug/kg	440
Fluoranthene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Pyrene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Butylbenzylphthalate	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
3,3-Dichlorobenzidine	840	U	ug/kg	840	840	U	ug/kg	840	840	U	ug/kg	840	890	U	ug/kg	890
Benzo (a) anthracene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Chrysene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
bis(2-Ethylhexyl) phthalate	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Di-n-octylphthalate	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Benzo (b) fluoranthene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Benzo (k) fluoranthene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Benzo (a) pyrene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Indeno (1,2,3-cd) pyrene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Dibenzo (a,h) anthracene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Benzo (g,h,i) perylene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
2-Picoline	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
Methyl methanesulfonate	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Ethyl methanesulfonate	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Acetophenone	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
N-Nitrosopiperidine	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
2,6-Dichlorophenol	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
N-Nitroso-di-n-butylamine	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
2,4-Dichlorophenol	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Benzidine	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
1,2,4,5-Tetrachlorobenzene	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
Pentachlorobenzene	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
1-Naphthylamine	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
2-Naphthylamine	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
1-Chloronaphthalene	-				-				-				-			
2,3,4,6-Tetrachlorophenol	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
Phenacetin	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
4-Aminobiphenyl	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
Pentachloronitrobenzene	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2100	U	ug/kg	2100	2200	U	ug/kg	2200
Pronamide	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
p-Dimethylaminoazobenzene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440
7,12-Dimethylbenz(a)Anthrac	-				-				-				-			
3-Methylcholanthrene	420	U	ug/kg	420	420	U	ug/kg	420	420	U	ug/kg	420	440	U	ug/kg	440

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME366004		ME366006		ME746008		ME780002					
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT					
Locator	S1B00303		S1B00403		S1G00101		S1G00201					
Collect Date:	28-JUL-97		28-JUL-97		16-SEP-97		18-SEP-97					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
EMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Phenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Aniline	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroethyl) ether	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2-Chlorophenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
1,3-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
Benzyl Alcohol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
1,2-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
2-Methylphenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroisopropyl) ether	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
N-Nitroso-Di-n-Propylamine	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Hexachloroethane	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Nitrobenzene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Isophorone	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2-Nitrophenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2,4-Dimethylphenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Benzoic acid	3300 U	ug/kg	3300	1700 U	ug/kg	1700	50 U	ug/l	50	50 U	ug/l	50
bis(2-Chloroethoxy) methane	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
1,2,4-Trichlorobenzene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Naphthalene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
4-Chloroaniline	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Hexachlorobutadiene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
4-Chloro-3-Methylphenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2-Methylnaphthalene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Hexachlorocyclopentadiene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2,4,6-Trichlorophenol	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2,4,5-Trichlorophenol	3300 U	ug/kg	3300	1700 U	ug/kg	1700	50 U	ug/l	50	50 U	ug/l	50
2-Chloronaphthalene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2-Nitroaniline	3300 U	ug/kg	3300	1700 U	ug/kg	1700	50 U	ug/l	50	50 U	ug/l	50
Dimethylphthalate	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Acenaphthylene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2,6-Dinitrotoluene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
3-Nitroaniline	3300 U	ug/kg	3300	1700 U	ug/kg	1700	50 U	ug/l	50	50 U	ug/l	50
Acenaphthene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrophenol	3300 U	ug/kg	3300	1700 U	ug/kg	1700	50 U	ug/l	50	50 U	ug/l	50
4-Nitrophenol	3300 U	ug/kg	3300	1700 U	ug/kg	1700	50 U	ug/l	50	50 U	ug/l	50
Dibenzofuran	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrotoluene	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
Diethylphthalate	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10
4-Chlorophenyl-phenylether	680 U	ug/kg	680	350 U	ug/kg	350	10 U	ug/l	10	10 U	ug/l	10

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME366004 MAYPORT S1800303 28-JUL-97			ME366006 MAYPORT S1800403 28-JUL-97			ME746008 MAYPORT S1600101 16-SEP-97			ME780002 MAYPORT S1600201 18-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
4-Nitroaniline	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-			-				-				
1,2-Diphenylhydrazine	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
4-Bromophenyl-phenylether	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Hexachlorobenzene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Pentachlorophenol	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
Phenanthrene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Anthracene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Di-n-Butylphthalate	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Fluoranthene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Pyrene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Butylbenzylphthalate	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
3,3-Dichlorobenzidine	1400	U	ug/kg	1400	700	U	ug/kg	700	20	U	ug/l	20
Benzo (a) anthracene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Chrysene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	680	U	ug/kg	680	85	JB	ug/kg	350	10	U	ug/l	10
Di-n-octylphthalate	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Benzo (b) fluoranthene	680	U	ug/kg	680	44	J	ug/kg	350	10	U	ug/l	10
Benzo (k) fluoranthene	680	U	ug/kg	680	51	J	ug/kg	350	10	U	ug/l	10
Benzo (a) pyrene	680	U	ug/kg	680	52	J	ug/kg	350	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Dibenzo (a,h) anthracene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Benzo (g,h,i) perylene	680	U	ug/kg	680	52	J	ug/kg	350	10	U	ug/l	10
2-Picoline	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
Methyl methanesulfonate	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Ethyl methanesulfonate	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Acetophenone	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
N-Nitrosopiperidine	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
2,6-Dichlorophenol	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
N-Nitroso-di-n-butylamine	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
2,4-Dichlorophenol	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Benidine	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
Pentachlorobenzene	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
1-Naphthylamine	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
2-Naphthylamine	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
1-Chloronaphthalene	-			-				-				
2,3,4,6-Tetrachlorophenol	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
Phenacetin	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
4-Aminobiphenyl	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
Pentachloronitrobenzene	3300	U	ug/kg	3300	1700	U	ug/kg	1700	50	U	ug/l	50
Pronamide	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
p-Dimethylaminoazobenzene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-			-				-				
3-Methylcholanthrene	680	U	ug/kg	680	350	U	ug/kg	350	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME746007			ME746005			ME746006			ME366005		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	S1G00301			S1G00401			S1G00401D			S2B00102		
Collect Date:	16-SEP-97			16-SEP-97			16-SEP-97			28-JUL-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
EMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Phenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Aniline	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
bis(2-Chloroethyl) ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2-Chlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
1,3-Dichlorobenzene (SVOC)	-			-			-			-		
1,4-Dichlorobenzene (SVOC)	-			-			-			-		
Benzyl Alcohol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
1,2-Dichlorobenzene (SVOC)	-			-			-			-		
2-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
bis(2-Chloroisopropyl) ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
N-Nitroso-Di-n-Propylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Hexachloroethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Nitrobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Isophorone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2-Nitrophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2,4-Dimethylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Benzoic acid	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800
bis(2-Chloroethoxy) methane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
1,2,4-Trichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Naphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
4-Chloroaniline	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Hexachlorobutadiene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
4-Chloro-3-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2-Methylnaphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Hexachlorocyclopentadiene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2,4,6-Trichlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2,4,5-Trichlorophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800
2-Chloronaphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800
Dimethylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2,6-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
3-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800
Acenaphthene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2,4-Dinitrophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800
4-Nitrophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800
Dibenzofuran	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
2,4-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
Diethylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380
4-Chlorophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	380 U	ug/kg	380

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME746007 MAYPORT S1G00301 16-SEP-97			ME746005 MAYPORT S1G00401 16-SEP-97			ME746006 MAYPORT S1G00401D 16-SEP-97			ME366005 MAYPORT S2B00102 28-JUL-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
Fluorene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
4-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
4,6-Dinitro-2-methylphenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
N-Nitrosodiphenylamine (1)	-			-	-			-	-			-	-			-
1,2-Diphenylhydrazine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
4-Bromophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Hexachlorobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Pentachlorophenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
Phenanthrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Di-n-Butylphthalate	2	J	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	51	JB	ug/kg	380
Fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
3,3-Dichlorobenzidine	20	U	ug/l	20	20	U	ug/l	20	20	U	ug/l	20	760	U	ug/kg	760
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Chrysene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
bis(2-Ethylhexyl) phthalate	5	J	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
2-Picoline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
Methyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Ethyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Acetophenone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
N-Nitrosopiperidine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
2,6-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
N-Nitroso-di-n-butylamine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
2,4-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Benzidine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
1,2,4,5-Tetrachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
Pentachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
1-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
2-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
1-Chloronaphthalene	-			-	-			-	-			-	-			-
2,3,4,6-Tetrachlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
Phenacetin	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
4-Aminobiphenyl	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
Pentachloronitrobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50	1800	U	ug/kg	1800
Pronamide	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
p-Dimethylaminoazobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380
7,12-Dimethylbenz(a)Anthrac	-			-	-			-	-			-	-			-
3-Methylcholanthrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	380	U	ug/kg	380

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME746003			ME388003			ME388004			ME388005		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	S2G00101			S3B00106			S3B00206			S3B00206D		
Collect Date:	16-SEP-97			29-JUL-97			29-JUL-97			29-JUL-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
SEMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Phenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Aniline	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
bis(2-Chloroethyl) ether	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2-Chlorophenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
1,3-Dichlorobenzene (SVOC)	-			-			-			-		
1,4-Dichlorobenzene (SVOC)	-			-			-			-		
Benzyl Alcohol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
1,2-Dichlorobenzene (SVOC)	-			-			-			-		
2-Methylphenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
bis(2-Chloroisopropyl) ether	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
N-Nitroso-Di-n-Propylamine	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Hexachloroethane	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Nitrobenzene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Isophorone	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2-Nitrophenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2,4-Dimethylphenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Benzoic acid	50 U	ug/l	50	2000 U	ug/kg	2000	2000 U	ug/kg	2000	2000 U	ug/kg	2000
bis(2-Chloroethoxy) methane	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
1,2,4-Trichlorobenzene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Naphthalene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
4-Chloroaniline	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Hexachlorobutadiene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
4-Chloro-3-Methylphenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2-Methylnaphthalene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Hexachlorocyclopentadiene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2,4,6-Trichlorophenol	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2,4,5-Trichlorophenol	50 U	ug/l	50	2000 U	ug/kg	2000	2000 U	ug/kg	2000	2000 U	ug/kg	2000
2-Chloronaphthalene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2-Nitroaniline	50 U	ug/l	50	2000 U	ug/kg	2000	2000 U	ug/kg	2000	2000 U	ug/kg	2000
Dimethylphthalate	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Acenaphthylene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2,6-Dinitrotoluene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
3-Nitroaniline	50 U	ug/l	50	2000 U	ug/kg	2000	2000 U	ug/kg	2000	2000 U	ug/kg	2000
Acenaphthene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2,4-Dinitrophenol	50 U	ug/l	50	2000 U	ug/kg	2000	2000 U	ug/kg	2000	2000 U	ug/kg	2000
4-Nitrophenol	50 U	ug/l	50	2000 U	ug/kg	2000	2000 U	ug/kg	2000	2000 U	ug/kg	2000
Dibenzofuran	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
2,4-Dinitrotoluene	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
Diethylphthalate	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400
4-Chlorophenyl-phenylether	10 U	ug/l	10	400 U	ug/kg	400	400 U	ug/kg	400	400 U	ug/kg	400

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME746003 MAYPORT S2G00101 16-SEP-97			ME388003 MAYPORT S3800106 29-JUL-97			ME388004 MAYPORT S3800206 29-JUL-97			ME388005 MAYPORT S3800206D 29-JUL-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
4-Nitroaniline	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
4,6-Dinitro-2-methylphenol	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
N-Nitrosodiphenylamine (1)	-			-				-				-
1,2-Diphenylhydrazine	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
4-Bromophenyl-phenylether	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Hexachlorobenzene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Pentachlorophenol	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
Phenanthrene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Anthracene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Di-n-Butylphthalate	10	U	ug/l	10	86	J	ug/kg	400	400	U	ug/kg	400
Fluoranthene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Pyrene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Butylbenzylphthalate	1	J	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
3,3-Dichlorobenzidine	20	U	ug/l	20	800	U	ug/kg	800	800	U	ug/kg	800
Benzo (a) anthracene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Chrysene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	220	J	ug/kg	400	51	J	ug/kg	400
Di-n-octylphthalate	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Benzo (b) fluoranthene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Benzo (k) fluoranthene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Benzo (a) pyrene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Dibenzo (a,h) anthracene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Benzo (g,h,i) perylene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
2-Picoline	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
Methyl methanesulfonate	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Ethyl methanesulfonate	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Acetophenone	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
N-Nitrosopiperidine	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
2,6-Dichlorophenol	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
N-Nitroso-di-n-butylamine	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
2,4-Dichlorophenol	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Benzidine	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
1,2,4,5-Tetrachlorobenzene	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
Pentachlorobenzene	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
1-Naphthylamine	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
2-Naphthylamine	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
1-Chloronaphthalene	-			-				-				-
2,3,4,6-Tetrachlorophenol	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
Phenacetin	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
4-Aminobiphenyl	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
Pentachloronitrobenzene	50	U	ug/l	50	2000	U	ug/kg	2000	2000	U	ug/kg	2000
Pronamide	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
p-Dimethylaminoazobenzene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400
7,12-Dimethylbenz(a)Anthrac	-			-				-				-
3-Methylcholanthrene	10	U	ug/l	10	400	U	ug/kg	400	400	U	ug/kg	400

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME780007		ME780008		ME780009		ME780010					
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT					
Locator	S3G00101		S3G00201		S3G00201D		S3G00301					
Collect Date:	18-SEP-97		19-SEP-97		19-SEP-97		19-SEP-97					
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
SEMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Phenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Aniline	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroethyl) ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Chlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,3-Dichlorobenzene (SVOC)	-			-			-			-		
1,4-Dichlorobenzene (SVOC)	-			-			-			-		
Benzyl Alcohol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,2-Dichlorobenzene (SVOC)	-			-			-			-		
2-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroisopropyl) ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
N-Nitroso-Di-n-Propylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachloroethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Nitrobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Isophorone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Nitrophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4-Dimethylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzoic acid	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
bis(2-Chloroethoxy) methane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,2,4-Trichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Naphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Chloroaniline	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachlorobutadiene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Chloro-3-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Methylnaphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachlorocyclopentadiene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4,6-Trichlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4,5-Trichlorophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
2-Chloronaphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Dimethylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,6-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
3-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Acenaphthene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
4-Nitrophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Dibenzofuran	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Diethylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Chlorophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME780007 MAYPORT S3G00101 18-SEP-97			ME780008 MAYPORT S3G00201 19-SEP-97			ME780009 MAYPORT S3G00201D 19-SEP-97			ME780010 MAYPORT S3G00301 19-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Nitroaniline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-			-				-				
1,2-Diphenylhydrazine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pentachlorophenol	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Phenanthrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-Butylphthalate	4 JB		ug/l	10	3 JB		ug/l	10	2 JB		ug/l	10
Fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3,3-Dichlorobenzidine	20	U	ug/l	20	20	U	ug/l	20	20	U	ug/l	20
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Picoline	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Methyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Ethyl methanesulfonate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Acetophenone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitrosopiperidine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,6-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-di-n-butylamine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dichlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzidine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pentachlorobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
2-Naphthylamine	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
1-Chloronaphthalene	-			-				-				
2,3,4,6-Tetrachlorophenol	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Phenacetin	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Aminobiphenyl	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pentachloronitrobenzene	50	U	ug/l	50	50	U	ug/l	50	50	U	ug/l	50
Pronamide	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
p-Dimethylaminoazobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-			-				-				
3-Methylcholanthrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME366007		ME746004		ME388009		ME422002		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	S5B00103		S5G00101		S8B00104		S8B00204		
Collect Date:	28-JUL-97		16-SEP-97		30-JUL-97		31-JUL-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

SEMIVOLATILES (SW-846,8270)

N-Nitrosodimethylamine	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Phenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Aniline	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
bis(2-Chloroethyl) ether	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2-Chlorophenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
1,3-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
Benzyl Alcohol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
1,2-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
2-Methylphenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
bis(2-Chloroisopropyl) ether	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
N-Nitroso-Di-n-Propylamine	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Hexachloroethane	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Nitrobenzene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Isophorone	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2-Nitrophenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2,4-Dimethylphenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Benzoic acid	1900 U	ug/kg	1900	50 U	ug/l	50	2000 U	ug/kg	2000	1700 U	ug/kg	1700
bis(2-Chloroethoxy) methane	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
1,2,4-Trichlorobenzene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Naphthalene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
4-Chloroaniline	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Hexachlorobutadiene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
4-Chloro-3-Methylphenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2-Methylnaphthalene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Hexachlorocyclopentadiene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2,4,6-Trichlorophenol	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2,4,5-Trichlorophenol	1900 U	ug/kg	1900	50 U	ug/l	50	2000 U	ug/kg	2000	1700 U	ug/kg	1700
2-Chloronaphthalene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2-Nitroaniline	1900 U	ug/kg	1900	50 U	ug/l	50	2000 U	ug/kg	2000	1700 U	ug/kg	1700
Dimethylphthalate	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Acenaphthylene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2,6-Dinitrotoluene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
3-Nitroaniline	1900 U	ug/kg	1900	50 U	ug/l	50	2000 U	ug/kg	2000	1700 U	ug/kg	1700
Acenaphthene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2,4-Dinitrophenol	1900 U	ug/kg	1900	50 U	ug/l	50	2000 U	ug/kg	2000	1700 U	ug/kg	1700
4-Nitrophenol	1900 U	ug/kg	1900	50 U	ug/l	50	2000 U	ug/kg	2000	1700 U	ug/kg	1700
Dibenzofuran	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
2,4-Dinitrotoluene	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
Diethylphthalate	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350
4-Chlorophenyl-phenylether	390 U	ug/kg	390	10 U	ug/l	10	400 U	ug/kg	400	350 U	ug/kg	350

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME366007 MAYPORT S5800103 28-JUL-97			ME746004 MAYPORT S5G00101 16-SEP-97			ME388009 MAYPORT S8800104 30-JUL-97			ME422002 MAYPORT S8800204 31-JUL-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
Fluorene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
4-Nitroaniline	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
4,6-Dinitro-2-methylphenol	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
N-Nitrosodiphenylamine (1)	-			-				-				-				
1,2-Diphenylhydrazine	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
4-Bromophenyl-phenylether	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Hexachlorobenzene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Pentachlorophenol	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
Phenanthrene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Anthracene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Di-n-Butylphthalate	51	JB	ug/kg	390	1	J	ug/l	10	61	J	ug/kg	400	36	JB	ug/kg	350
Fluoranthene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	40	J	ug/kg	350
Pyrene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	40	J	ug/kg	350
Butylbenzylphthalate	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
3,3-Dichlorobenzidine	780	U	ug/kg	780	20	U	ug/l	20	800	U	ug/kg	800	690	U	ug/kg	690
Benzo (a) anthracene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	48	J	ug/kg	350
Chrysene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	62	J	ug/kg	350
bis(2-Ethylhexyl) phthalate	55	JB	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Di-n-octylphthalate	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Benzo (b) fluoranthene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	42	J	ug/kg	350
Benzo (k) fluoranthene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	48	J	ug/kg	350
Benzo (a) pyrene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Indeno (1,2,3-cd) pyrene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Dibenzo (a,h) anthracene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Benzo (g,h,i) perylene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
2-Picoline	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
Methyl methanesulfonate	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Ethyl methanesulfonate	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Acetophenone	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
N-Nitrosopiperidine	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
2,6-Dichlorophenol	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
N-Nitroso-di-n-butylamine	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
2,4-Dichlorophenol	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Benzidine	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
1,2,4,5-Tetrachlorobenzene	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
Pentachlorobenzene	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
1-Naphthylamine	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
2-Naphthylamine	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
1-Chloronaphthalene	-			-				-				-				
2,3,4,6-Tetrachlorophenol	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
Phenacetin	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
4-Aminobiphenyl	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
Pentachloronitrobenzene	1900	U	ug/kg	1900	50	U	ug/l	50	2000	U	ug/kg	2000	1700	U	ug/kg	1700
Pronamide	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
p-Dimethylaminoazobenzene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350
7,12-Dimethylbenz(a)Anthrac	-			-				-				-				
3-Methylcholanthrene	390	U	ug/kg	390	10	U	ug/l	10	400	U	ug/kg	400	350	U	ug/kg	350

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
J = Estimated Value UJ = Reported Quantitation Limit is Estimated
D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME817002 MAYPORT S8G00101 23-SEP-97			ME817003 MAYPORT S8G00201 23-SEP-97			ME459010 MAYPORT S9B00104 06-AUG-97			ME459008 MAYPORT S9B00204 06-AUG-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
SEMIVOLATILES (SW-846,8270)												
N-Nitrosodimethylamine	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Phenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Aniline	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
bis(2-Chloroethyl) ether	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2-Chlorophenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
1,3-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
Benzyl Alcohol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
1,2-Dichlorobenzene (SVOC)	-		-	-		-	-		-	-		-
2-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
bis(2-Chloroisopropyl) ether	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
N-Nitroso-Di-n-Propylamine	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Hexachloroethane	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Nitrobenzene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Isophorone	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2-Nitrophenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,4-Dimethylphenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Benzoic acid	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
bis(2-Chloroethoxy) methane	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
1,2,4-Trichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Naphthalene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
4-Chloroaniline	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Hexachlorobutadiene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
4-Chloro-3-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2-Methylnaphthalene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Hexachlorocyclopentadiene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,4,6-Trichlorophenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,4,5-Trichlorophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
2-Chloronaphthalene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Dimethylphthalate	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,6-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
3-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Acenaphthene	10 U	ug/l	10	7 J	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,4-Dinitrophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
4-Nitrophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Dibenzofuran	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,4-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Diethylphthalate	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
4-Chlorophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350

Group IV Sampling Event

Lab Sample Number:	ME817002	ME817003	ME459010	ME459008								
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT								
Locator	S8G00101	S8G00201	S9B00104	S9B00204								
Collect Date:	23-SEP-97	23-SEP-97	06-AUG-97	06-AUG-97								
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
Fluorene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
4-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
4,6-Dinitro-2-methylphenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
N-Nitrosodiphenylamine (1)	-			-			-			-		
1,2-Diphenylhydrazine	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
4-Bromophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Hexachlorobenzene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Pentachlorophenol	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Phenanthrene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Anthracene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Di-n-Butylphthalate	10 U	ug/l	10	10 U	ug/l	10	190 JB	ug/kg	370	120 JB	ug/kg	350
Fluoranthene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Pyrene	10 U	ug/l	10	10 U	ug/l	10	46 J	ug/kg	370	350 U	ug/kg	350
Butylbenzylphthalate	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
3,3-Dichlorobenzidine	20 U	ug/l	20	20 U	ug/l	20	750 U	ug/kg	750	690 U	ug/kg	690
Benzo (a) anthracene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Chrysene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
bis(2-Ethylhexyl) phthalate	1 J	ug/l	10	10 U	ug/l	10	49 J	ug/kg	370	350 U	ug/kg	350
Di-n-octylphthalate	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Benzo (b) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Benzo (k) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Benzo (a) pyrene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Indeno (1,2,3-cd) pyrene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Dibenzo (a,h) anthracene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Benzo (g,h,i) perylene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2-Picoline	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Methyl methanesulfonate	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Ethyl methanesulfonate	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Acetophenone	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
N-Nitrosopiperidine	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,6-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
N-Nitroso-di-n-butylamine	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
2,4-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Benzidine	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
1,2,4,5-Tetrachlorobenzene	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Pentachlorobenzene	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
1-Naphthylamine	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
2-Naphthylamine	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
1-Chloronaphthalene	-			-			-			-		
2,3,4,6-Tetrachlorophenol	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
Phenacetin	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
4-Aminobiphenyl	50 U	ug/l	50	50 U	ug/l	50	1900 U	ug/kg	1900	1700 U	ug/kg	1700
Pentachloronitrobenzene	50 U	ug/l	50	50 U	ug/l	50	1800 U	ug/kg	1800	1700 U	ug/kg	1700
Pronamide	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
p-Dimethylaminoazobenzene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350
7,12-Dimethylbenz(a)Anthrac	-			-			-			-		
3-Methylcholanthrene	10 U	ug/l	10	10 U	ug/l	10	370 U	ug/kg	370	350 U	ug/kg	350

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
J = Estimated Value UJ = Reported Quantitation Limit is Estimated
D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: Site Locator Collect Date:	ME459009 MAYPORT S9800204D 06-AUG-97			ME459011 MAYPORT S9800304 06-AUG-97			ME798004 MAYPORT S9G00101 22-SEP-97			ME798005 MAYPORT S9G00201 23-SEP-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
SEMIVOLATILES (SW-846,8270)																
N-Nitrosodimethylamine	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Phenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Aniline	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethyl) ether	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2-Chlorophenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
1,3-Dichlorobenzene (SVOC)	-			-	-			-	-			-	-			-
1,4-Dichlorobenzene (SVOC)	-			-	-			-	-			-	-			-
Benzyl Alcohol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
1,2-Dichlorobenzene (SVOC)	-			-	-			-	-			-	-			-
2-Methylphenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroisopropyl) ether	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-Di-n-Propylamine	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Hexachloroethane	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Nitrobenzene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Isophorone	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2-Nitrophenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2,4-Dimethylphenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Benzoic acid	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50	50	U	ug/l	50
bis(2-Chloroethoxy) methane	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
1,2,4-Trichlorobenzene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Naphthalene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
4-Chloroaniline	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobutadiene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
4-Chloro-3-Methylphenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2-Methylnaphthalene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Hexachlorocyclopentadiene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2,4,6-Trichlorophenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2,4,5-Trichlorophenol	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50	50	U	ug/l	50
2-Chloronaphthalene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2-Nitroaniline	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50	50	U	ug/l	50
Dimethylphthalate	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Acenaphthylene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2,6-Dinitrotoluene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
3-Nitroaniline	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50	50	U	ug/l	50
Acenaphthene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrophenol	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50	50	U	ug/l	50
4-Nitrophenol	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50	50	U	ug/l	50
Dibenzofuran	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrotoluene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
Diethylphthalate	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10
4-Chlorophenyl-phenylether	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10	10	U	ug/l	10

Group IV Sampling Event

Lab Sample Number:	ME459009			ME459011			ME798004			ME798005		
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT		
Locator	S9B00204D			S9B00304			S9G00101			S9G00201		
Collect Date:	06-AUG-97			06-AUG-97			22-SEP-97			23-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluorene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
4-Nitroaniline	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
4,6-Dinitro-2-methylphenol	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
N-Nitrosodiphenylamine (1)	-				-				-			
1,2-Diphenylhydrazine	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
4-Bromophenyl-phenylether	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Hexachlorobenzene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Pentachlorophenol	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
Phenanthrene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Anthracene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Di-n-Butylphthalate	230	J	ug/kg	350	280	J	ug/kg	370	2	J	ug/l	10
Fluoranthene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Pyrene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Butylbenzylphthalate	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
3,3-Dichlorobenzidine	690	U	ug/kg	690	750	U	ug/kg	750	20	U	ug/l	20
Benzo (a) anthracene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Chrysene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	350	U	ug/kg	350	370	U	ug/kg	370	1	J	ug/l	10
Di-n-octylphthalate	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Benzo (b) fluoranthene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Benzo (k) fluoranthene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Benzo (a) pyrene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Dibenzo (a,h) anthracene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Benzo (g,h,i) perylene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
2-Picoline	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
Methyl methanesulfonate	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Ethyl methanesulfonate	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Acetophenone	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
N-Nitrosopiperidine	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
2,6-Dichlorophenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
N-Nitroso-di-n-butylamine	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
2,4-Dichlorophenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Benzidine	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
1,2,4,5-Tetrachlorobenzene	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
Pentachlorobenzene	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
1-Naphthylamine	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
2-Naphthylamine	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
1-Chloronaphthalene	-				-				-			
2,3,4,6-Tetrachlorophenol	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
Phenacetin	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
4-Aminobiphenyl	1700	U	ug/kg	1700	1900	U	ug/kg	1900	49	U	ug/l	49
Pentachloronitrobenzene	1700	U	ug/kg	1700	1800	U	ug/kg	1800	50	U	ug/l	50
Pronamide	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
p-Dimethylaminoazobenzene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-				-				-			
3-Methylcholanthrene	350	U	ug/kg	350	370	U	ug/kg	370	10	U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME798006			ME798006R			ME798003		
Site	MAYPORT			MAYPORT			MAYPORT		
Locator	S9G00201D			S9G00201DR			S9G00301		
Collect Date:	23-SEP-97			23-SEP-97			22-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
SEMIVOLATILES (SW-846,8270)									
N-Nitrosodimethylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Phenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Aniline	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroethyl) ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Chlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,3-Dichlorobenzene (SVOC)	-			-			-		
1,4-Dichlorobenzene (SVOC)	-			-			-		
Benzyl Alcohol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,2-Dichlorobenzene (SVOC)	-			-			-		
2-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
bis(2-Chloroisopropyl) ether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
N-Nitroso-Di-n-Propylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachloroethane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Nitrobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Isophorone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Nitrophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4-Dimethylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzoic acid	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
bis(2-Chloroethoxy) methane	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
1,2,4-Trichlorobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Naphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Chloroaniline	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachlorobutadiene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Chloro-3-Methylphenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Methylnaphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachlorocyclopentadiene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4,6-Trichlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4,5-Trichlorophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
2-Chloronaphthalene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Dimethylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Acenaphthylene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,6-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
3-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Acenaphthene	1 J	ug/l	10	1 J	ug/l	10	10 U	ug/l	10
2,4-Dinitrophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
4-Nitrophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Dibenzofuran	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4-Dinitrotoluene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Diethylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Chlorophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10

Group IV Sampling Event

Lab Sample Number:	ME798006	ME798006R	ME798003
Site	MAYPORT	MAYPORT	MAYPORT
Locator	S9G00201D	S9G00201DR	S9G00301
Collect Date:	23-SEP-97	23-SEP-97	22-SEP-97

VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
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Fluorene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Nitroaniline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
4,6-Dinitro-2-methylphenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
N-Nitrosodiphenylamine (1)	-			-			-		
1,2-Diphenylhydrazine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Bromophenyl-phenylether	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Hexachlorobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Pentachlorophenol	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Phenanthrene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Anthracene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Di-n-Butylphthalate	2 JB	ug/l	10	2 JB	ug/l	10	2 JB	ug/l	10
Fluoranthene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Pyrene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Butylbenzylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
3,3-Dichlorobenzidine	20 U	ug/l	20	20 U	ug/l	20	20 U	ug/l	20
Benzo (a) anthracene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Chrysene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
bis(2-Ethylhexyl) phthalate	10 U	ug/l	10	10 U	ug/l	10	1 J	ug/l	10
Di-n-octylphthalate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzo (b) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzo (k) fluoranthene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzo (a) pyrene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Indeno (1,2,3-cd) pyrene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Dibenzo (a,h) anthracene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzo (g,h,i) perylene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2-Picoline	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Methyl methanesulfonate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Ethyl methanesulfonate	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Acetophenone	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
N-Nitrosopiperidine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,6-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
N-Nitroso-di-n-butylamine	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
2,4-Dichlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Benzidine	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
1,2,4,5-Tetrachlorobenzene	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Pentachlorobenzene	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
1-Naphthylamine	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
2-Naphthylamine	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
1-Chloronaphthalene	-			-			-		
2,3,4,6-Tetrachlorophenol	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
Phenacetin	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
4-Aminobiphenyl	49 U	ug/l	49	49 U	ug/l	49	49 U	ug/l	49
Pentachloronitrobenzene	50 U	ug/l	50	50 U	ug/l	50	50 U	ug/l	50
Pronamide	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
p-Dimethylaminoazobenzene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10
7,12-Dimethylbenz(a)Anthrac	-			-			-		
3-Methylcholanthrene	10 U	ug/l	10	10 U	ug/l	10	10 U	ug/l	10

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	MF071002	ME835006	ME835006R	ME835005							
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT							
Locator	G4D00501	G4W001	G4W001	G4W003							
Collect Date:	07-NOV-97	26-SEP-97	26-SEP-97	25-SEP-97							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
PESTICIDES/PCBs (SW-846,8080)											
alpha-BHC	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
beta-BHC	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
delta-BHC	52 U	ug/kg	52	.1 U	ug/l	.1	-		.04 U	ug/l	.04
gamma-BHC (Lindane)	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
Heptachlor	52 U	ug/kg	52	.1 U	ug/l	.1	-		.08 U	ug/l	.08
Aldrin	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
Heptachlor epoxide	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
Endosulfan I	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
Dieldrin	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
4,4-DDE	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
Endrin	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
Endosulfan II	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
4,4-DDD	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
Endosulfan sulfate	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
4,4-DDT	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
Methoxychlor	210 U	ug/kg	210	.4 U	ug/l	.4	-		.08 U	ug/l	.08
Endrin aldehyde	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
Endrin ketone	100 U	ug/kg	100	.2 U	ug/l	.2	-		.04 U	ug/l	.04
Chlordane	6200 U	ug/kg	520	.1 U	ug/l	.1	-		.2 U	ug/l	.2
Chlorobenzilate	1500 U	ug/kg	1500	2.5 U	ug/l	2.5	-		.5 U	ug/l	.5
Diallate	3100 U	ug/kg	3100	5 U	ug/l	5	-		2 U	ug/l	2
Toxaphene	2500 U	ug/kg	2500	5 U	ug/l	5	-		1 U	ug/l	1
Isodrin	52 U	ug/kg	52	.1 U	ug/l	.1	-		.02 U	ug/l	.02
Kepone	310 U	ug/kg	310	-			1 U	ug/l	1		1
Aroclor-1016	2500 U	ug/kg	2500	5 U	ug/l	5	-		1 U	ug/l	1
Aroclor-1221	5200 U	ug/kg	5200	10 U	ug/l	10	-		2 U	ug/l	2
Aroclor-1232	5200 U	ug/kg	5200	10 U	ug/l	10	-		2 U	ug/l	2
Aroclor-1242	2500 U	ug/kg	2500	5 U	ug/l	5	-		1 U	ug/l	1
Aroclor-1248	2500 U	ug/kg	2500	5 U	ug/l	5	-		1 U	ug/l	1
Aroclor-1254	1300 U	ug/kg	1300	2.5 U	ug/l	2.5	-		.5 U	ug/l	.5
Aroclor-1260	1300 U	ug/kg	1300	2.5 U	ug/l	2.5	-		.5 U	ug/l	.5

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME835003			ME835004			ME459010			ME459008						
Site	MAYPORT			MAYPORT			MAYPORT			MAYPORT						
Locator	G4W004			G4W004D			S9B00104			S9B00204						
Collect Date:	25-SEP-97			25-SEP-97			06-AUG-97			06-AUG-97						
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL				
PESTICIDES/PCBs (SW-846,8080)																
alpha-BHC	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
beta-BHC	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
delta-BHC	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
gamma-BHC (Lindane)	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
Heptachlor	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
Aldrin	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
Heptachlor epoxide	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
Endosulfan I	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
Dieldrin	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
4,4-DDE	.02 U		ug/l	.02	.02 U		ug/l	.02	8.7		ug/kg	3.8	.7 U		ug/kg	.7
Endrin	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
Endosulfan II	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
4,4-DDD	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
Endosulfan sulfate	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
4,4-DDT	.04 U		ug/l	.04	.04 U		ug/l	.04	10		ug/kg	7.3	1.4 U		ug/kg	1.4
Methoxychlor	.08 U		ug/l	.08	.08 U		ug/l	.08	15		ug/kg	15	2.8 U		ug/kg	2.8
Endrin aldehyde	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
Endrin ketone	.04 U		ug/l	.04	.04 U		ug/l	.04	7.3 U		ug/kg	7.3	1.4 U		ug/kg	1.4
Chlordane	.2 U		ug/l	.2	.2 U		ug/l	.2	38		ug/kg	38	7 U		ug/kg	7
Chlorobenzilate	.5 U		ug/l	.5	.5 U		ug/l	.5	110		ug/kg	110	21 U		ug/kg	21
Diallate	1 U		ug/l	1	1 U		ug/l	1	220		ug/kg	220	42 U		ug/kg	42
Toxaphene	1 U		ug/l	1	1 U		ug/l	1	180		ug/kg	180	34 U		ug/kg	34
Isodrin	.02 U		ug/l	.02	.02 U		ug/l	.02	3.8 U		ug/kg	3.8	.7 U		ug/kg	.7
Kepone	1 U		ug/l	1	1 U		ug/l	1	220		ug/kg	220	42 U		ug/kg	42
Aroclor-1016	1 U		ug/l	1	1 U		ug/l	1	180		ug/kg	180	34 U		ug/kg	34
Aroclor-1221	2 U		ug/l	2	2 U		ug/l	2	380		ug/kg	380	70 U		ug/kg	70
Aroclor-1232	2 U		ug/l	2	2 U		ug/l	2	380		ug/kg	380	70 U		ug/kg	70
Aroclor-1242	1 U		ug/l	1	1 U		ug/l	1	180		ug/kg	180	34 U		ug/kg	34
Aroclor-1248	1 U		ug/l	1	1 U		ug/l	1	180		ug/kg	180	34 U		ug/kg	34
Aroclor-1254	.5 U		ug/l	.5	.5 U		ug/l	.5	96		ug/kg	96	18 U		ug/kg	18
Aroclor-1260	.5 U		ug/l	.5	.5 U		ug/l	.5	96		ug/kg	96	18 U		ug/kg	18

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Group IV Sampling Event

	Lab Sample Number: ME459009			ME459011			ME798004			ME798005		
	Site MAYPORT			MAYPORT			MAYPORT			MAYPORT		
	Locator S9B00204D			S9B00304			S9G00101			S9G00201		
	Collect Date: 06-AUG-97			06-AUG-97			22-SEP-97			23-SEP-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
ESTICIDES/PCBs (SW-846,8080)												
alpha-BHC	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
beta-BHC	1.4 U		ug/kg	1.4	3.6 U		ug/kg	3.6	.04 U		ug/l	.04
delta-BHC	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
gamma-BHC (Lindane)	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
Heptachlor	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
Aldrin	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
Heptachlor epoxide	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
Endosulfan I	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
Dieldrin	.7 U		ug/kg	.7	1.9 U		ug/kg	1.9	.02 U		ug/l	.02
4,4-DDE	.7 U		ug/kg	.7	11		ug/kg	1.9	.02 U		ug/l	.02
Endrin	1.4 U		ug/kg	1.4	3.6 U		ug/kg	3.6	.04 U		ug/l	.04
Endosulfan II	1.4 U		ug/kg	1.4	3.6 U		ug/kg	3.6	.04 U		ug/l	.04
4,4-DDD	1.4 U		ug/kg	1.4	3.6 U		ug/kg	3.6	.04 U		ug/l	.04
Endosulfan sulfate	1.4 U		ug/kg	1.4	3.6 U		ug/kg	3.6	.04 U		ug/l	.04
4,4-DDT	1.4 U		ug/kg	1.4	25		ug/kg	3.6	.04 U		ug/l	.04
Methoxychlor	2.8 U		ug/kg	2.8	7.6 U		ug/kg	7.6	.08 U		ug/l	.08
Endrin aldehyde	1.4 U		ug/kg	1.4	7.6 U		ug/kg	7.6	.04 U		ug/l	.04
Endrin ketone	1.4 U		ug/kg	1.4	3.6 U		ug/kg	3.6	.04 U		ug/l	.04
Chlordane	7 U		ug/kg	7	19 U		ug/kg	19	.2 U		ug/l	.2
Chlorobenzilate	21 U		ug/kg	21	56 U		ug/kg	56	.5 U		ug/l	.5
Diallate	42 U		ug/kg	42	110 U		ug/kg	110	1 U		ug/l	1
Toxaphene	34 U		ug/kg	34	93 U		ug/kg	93	1 U		ug/l	1
Isodrin	.7 U		ug/kg	.7	3.6 U		ug/kg	3.6	.02 U		ug/l	.02
Kepone	42 U		ug/kg	42	110 U		ug/kg	110	1 U		ug/l	1
Aroclor-1016	34 U		ug/kg	34	93 U		ug/kg	93	1 U		ug/l	1
Aroclor-1221	70 U		ug/kg	70	190 U		ug/kg	190	2 U		ug/l	2
Aroclor-1232	70 U		ug/kg	70	190 U		ug/kg	190	2 U		ug/l	2
Aroclor-1242	34 U		ug/kg	34	93 U		ug/kg	93	1 U		ug/l	1
Aroclor-1248	34 U		ug/kg	34	93 U		ug/kg	93	1 U		ug/l	1
Aroclor-1254	18 U		ug/kg	18	48 U		ug/kg	48	.5 U		ug/l	.5
Aroclor-1260	18 U		ug/kg	18	48 U		ug/kg	48	.5 U		ug/l	.5

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Group IV Sampling Event

Lab Sample Number:	ME798006		ME798003			
Site	MAYPORT		MAYPORT			
Locator	S9G00201D		S9G00301			
Collect Date:	23-SEP-97		22-SEP-97			
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

PESTICIDES/PCBs (SW-846,8080)

alpha-BHC	.02 U	ug/l	.02	.02 U	ug/l	.02
beta-BHC	.04 U	ug/l	.04	.04 U	ug/l	.04
delta-BHC	.02 U	ug/l	.02	.02 U	ug/l	.02
gamma-BHC (Lindane)	.02 U	ug/l	.02	.02 U	ug/l	.02
Heptachlor	.02 U	ug/l	.02	.02 U	ug/l	.02
Aldrin	.02 U	ug/l	.02	.02 U	ug/l	.02
Heptachlor epoxide	.02 U	ug/l	.02	.02 U	ug/l	.02
Endosulfan I	.02 U	ug/l	.02	.02 U	ug/l	.02
Dieldrin	.02 U	ug/l	.02	.02 U	ug/l	.02
4,4-DDE	.02 U	ug/l	.02	.02 U	ug/l	.02
Endrin	.04 U	ug/l	.04	.04 U	ug/l	.04
Endosulfan II	.04 U	ug/l	.04	.04 U	ug/l	.04
4,4-DDD	.04 U	ug/l	.04	.04 U	ug/l	.04
Endosulfan sulfate	.04 U	ug/l	.04	.04 U	ug/l	.04
4,4-DDT	.04 U	ug/l	.04	.04 U	ug/l	.04
Methoxychlor	.08 U	ug/l	.08	.08 U	ug/l	.08
Endrin aldehyde	.04 U	ug/l	.04	.04 U	ug/l	.04
Endrin ketone	.04 U	ug/l	.04	.04 U	ug/l	.04
Chlordane	.2 U	ug/l	.2	.2 U	ug/l	.2
Chlorobenzilate	.5 U	ug/l	.5	.5 U	ug/l	.5
Diallate	1 U	ug/l	1	1 U	ug/l	1
Toxaphene	1 U	ug/l	1	1 U	ug/l	1
Isodrin	.02 U	ug/l	.02	.02 U	ug/l	.02
Kepone	1 U	ug/l	1	1 U	ug/l	1
Aroclor-1016	1 U	ug/l	1	1 U	ug/l	1
Aroclor-1221	2 U	ug/l	2	2 U	ug/l	2
Aroclor-1232	2 U	ug/l	2	2 U	ug/l	2
Aroclor-1242	1 U	ug/l	1	1 U	ug/l	1
Aroclor-1248	1 U	ug/l	1	1 U	ug/l	1
Aroclor-1254	.5 U	ug/l	.5	.5 U	ug/l	.5
Aroclor-1260	.5 U	ug/l	.5	.5 U	ug/l	.5

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ATTACHMENT C (Continued)

Inorganics

Group IV Sampling Event

	Lab Sample Number: MF449003			ME780005			ME780006			ME835006		
	Site MAYPORT			MAYPORT			MAYPORT			MAYPORT		
	Locator 10G00101			12G00101			12G00201			G4W001		
	Collect Date: 27-JAN-98			18-SEP-97			18-SEP-97			26-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
ORGANICS (WATER)	ug/l											
Antimony	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Arsenic	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Barium	25 <	ug/l	25	51.5	ug/l	25	33.6	ug/l	25	25 <	ug/l	25
Beryllium	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4
Cadmium	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Calcium	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Chromium	10 <	ug/l	10	21	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cobalt	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Copper	10 <	ug/l	10	13.6	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cyanide	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Iron	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Lead	3 <	ug/l	3	6.5	ug/l	3	3 <	ug/l	3	7	ug/l	3
Magnesium	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Manganese	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Mercury	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2
Nickel	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20
Selenium	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Silver	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Sodium	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Thallium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Tin	53.6	ug/l	25	43.4	ug/l	25	49.4	ug/l	25	43.3	ug/l	25
Vanadium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Zinc	20 <	ug/l	20	77.3	ug/l	20	20 <	ug/l	20	20 <	ug/l	20

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Group IV Sampling Event

	ME835005			ME835003			ME835004			ME780003		
	Lab Sample Number:	ME835005		ME835003		ME835004		ME780003		ME780003		
	Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		MAYPORT		
	Locator	G4W003		G4W004		G4W004D		LSG00101		LSG00101		
	Collect Date:	25-SEP-97		25-SEP-97		25-SEP-97		18-SEP-97		18-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
MORGANICS (WATER)												
	ug/l											
Antimony	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Arsenic	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Barium	27.1	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	29.7	ug/l	25
Beryllium	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4
Cadmium	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Calcium	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Chromium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cobalt	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Copper	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cyanide	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Iron	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Lead	3 <	ug/l	3	10.3	ug/l	3	4.6	ug/l	3	3 <	ug/l	3
Magnesium	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Manganese	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Mercury	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2
Nickel	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20
Selenium	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Silver	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Sodium	-	ug/l		-	ug/l		-	ug/l		-	ug/l	
Thallium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Tin	52.9	ug/l	25	81.6	ug/l	25	81.7	ug/l	25	28.7	ug/l	25
Vanadium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Zinc	67.9	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20

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Group IV Sampling Event

Lab Sample Number:	ME746008	ME780002	ME780002	MF380002	ME746007						
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT	MAYPORT						
Locator	S1G00101	S1G00201	S1G00201	S1G00201	S1G00301						
Collect Date:	16-SEP-97	18-SEP-97	18-SEP-97	15-JAN-98	16-SEP-97						
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

ORGANICS (WATER)	ug/l											
Antimony	5 <	ug/l	5	5 <	ug/l	5	-	ug/l	5 <	ug/l	5	
Arsenic	5 <	ug/l	5	5 <	ug/l	5	-	ug/l	5 <	ug/l	5	
Barium	25 <	ug/l	25	25.1	ug/l	25	-	ug/l	25 <	ug/l	25	
Beryllium	4 <	ug/l	4	4 <	ug/l	4	-	ug/l	4 <	ug/l	4	
Cadmium	5 <	ug/l	5	5 <	ug/l	5	-	ug/l	5 <	ug/l	5	
Calcium	-	ug/l		-	ug/l		-	ug/l	-	ug/l		
Chromium	10 <	ug/l	10	10 <	ug/l	10	-	ug/l	10 <	ug/l	10	
Cobalt	10 <	ug/l	10	10 <	ug/l	10	-	ug/l	10 <	ug/l	10	
Copper	10 <	ug/l	10	10 <	ug/l	10	-	ug/l	10 <	ug/l	10	
Cyanide	-	ug/l		-	ug/l		-	ug/l	-	ug/l		
Iron	-	ug/l		-	ug/l		-	ug/l	-	ug/l		
Lead	3 <	ug/l	3	3 <	ug/l	3	-	ug/l	3 <	ug/l	3	
Magnesium	-	ug/l		-	ug/l		-	ug/l	-	ug/l		
Manganese	-	ug/l		-	ug/l		-	ug/l	-	ug/l		
Mercury	.2 <	ug/l	.2	.2 <	ug/l	.2	-	ug/l	.2 <	ug/l	.2	
Nickel	20 <	ug/l	20	139	ug/l	20	20 U	ug/l	20 <	ug/l	20	
Selenium	5 <	ug/l	5	5 <	ug/l	5	-	ug/l	5 <	ug/l	5	
Silver	10 <	ug/l	10	10 <	ug/l	10	-	ug/l	10 <	ug/l	10	
Sodium	-	ug/l		-	ug/l		-	ug/l	-	ug/l		
Thallium	10 <	ug/l	10	10 <	ug/l	10	-	ug/l	10 <	ug/l	10	
Tin	65.8	ug/l	25	69.6	ug/l	25	-	ug/l	74.6	ug/l	25	
Vanadium	10 <	ug/l	10	10 <	ug/l	10	-	ug/l	10 <	ug/l	10	
Zinc	20 <	ug/l	20	20 <	ug/l	20	-	ug/l	20 <	ug/l	20	

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 D qualification indicates value is the result of a dilution

Group IV Sampling Event

	ME746005			ME746006			ME746003			ME780007																
	Lab Sample Number:	Site	Locator	Collect Date:	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL													
	ME746005	MAYPORT	S1G00401	16-SEP-97				ME746006	MAYPORT	S1G00401D	16-SEP-97				ME746003	MAYPORT	S2G00101	16-SEP-97			ME780007	MAYPORT	S3G00101	18-SEP-97		
					VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	
NORGANICS (WATER)																										
					ug/l			ug/l			ug/l			ug/l			ug/l			ug/l			ug/l			
Antimony					5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	
Arsenic					5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	
Barium					25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	
Beryllium					4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	
Cadmium					5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	
Calcium					-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		
Chromium					10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	
Cobalt					10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	
Copper					10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	
Cyanide					-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		
Iron					-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		
Lead					3 <	ug/l	3	3 <	ug/l	3	3 <	ug/l	3	3 <	ug/l	3	3 <	ug/l	3	3 <	ug/l	3	3 <	ug/l	3	
Magnesium					-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		
Manganese					-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		
Mercury					.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	
Nickel					20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	
Selenium					5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	
Silver					10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	
Sodium					-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		-	ug/l		
Thallium					10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	
Tin					25	ug/l	25	25 <	ug/l	25	26.5	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	
Vanadium					10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	
Zinc					20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	

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Group IV Sampling Event

	ME780008 MAYPORT S3G00201 19-SEP-97			ME780009 MAYPORT S3G00201D 19-SEP-97			ME780010 MAYPORT S3G00301 19-SEP-97			ME746004 MAYPORT S5G00101 16-SEP-97			
	Lab Sample Number:	Site	Locator	Collect Date:	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
NORGANICS (WATER)				ug/l									
Antimony		5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Arsenic		5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Barium		25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25	99.6	ug/l	25
Beryllium		4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4
Cadmium		5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Calcium		-	ug/l	-	-	ug/l	-	-	ug/l	-	-	ug/l	-
Chromium		10 <	ug/l	10	16.5	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cobalt		10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Copper		10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cyanide		-	ug/l	-	-	ug/l	-	-	ug/l	-	-	ug/l	-
Iron		-	ug/l	-	-	ug/l	-	-	ug/l	-	-	ug/l	-
Lead		3 <	ug/l	3	4.7	ug/l	3	3 <	ug/l	3	10.8	ug/l	3
Magnesium		-	ug/l	-	-	ug/l	-	-	ug/l	-	-	ug/l	-
Manganese		-	ug/l	-	-	ug/l	-	-	ug/l	-	-	ug/l	-
Mercury		.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2
Nickel		20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20
Selenium		5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Silver		10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Sodium		-	ug/l	-	-	ug/l	-	-	ug/l	-	-	ug/l	-
Thallium		10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Tin		28.5	ug/l	25	26.5	ug/l	25	38.2	ug/l	25	52.9	ug/l	25
Vanadium		10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Zinc		20 <	ug/l	20	30	ug/l	20	20 <	ug/l	20	20 <	ug/l	20

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Group IV Sampling Event

Lab Sample Number:	ME798004		ME798005		ME798003
Site	MAYPORT		MAYPORT		MAYPORT
Locator	S9G00101		S9G00201		S9G00301
Collect Date:	22-SEP-97		23-SEP-97		22-SEP-97

	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
NORGANICS (WATER) ug/l									
Antimony	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Arsenic	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Barium	25 <	ug/l	25	25 <	ug/l	25	25 <	ug/l	25
Beryllium	4 <	ug/l	4	4 <	ug/l	4	4 <	ug/l	4
Cadmium	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Calcium	-	ug/l	-	-	ug/l	-	-	ug/l	-
Chromium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cobalt	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Copper	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Cyanide	-	ug/l	-	-	ug/l	-	-	ug/l	-
Iron	-	ug/l	-	-	ug/l	-	-	ug/l	-
Lead	3 <	ug/l	3	3 <	ug/l	3	3 <	ug/l	3
Magnesium	-	ug/l	-	-	ug/l	-	-	ug/l	-
Manganese	-	ug/l	-	-	ug/l	-	-	ug/l	-
Mercury	.2 <	ug/l	.2	.2 <	ug/l	.2	.2 <	ug/l	.2
Nickel	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20
Selenium	5 <	ug/l	5	5 <	ug/l	5	5 <	ug/l	5
Silver	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Sodium	-	ug/l	-	-	ug/l	-	-	ug/l	-
Thallium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Tin	44	ug/l	25	45	ug/l	25	36.8	ug/l	25
Vanadium	10 <	ug/l	10	10 <	ug/l	10	10 <	ug/l	10
Zinc	20 <	ug/l	20	20 <	ug/l	20	20 <	ug/l	20

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Group IV Sampling Event

Lab Sample Number:	ME388008		ME388006		ME388007		ME459007		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	10B00107		12B00109		12B00209		BPB00105		
Collect Date:	30-JUL-97		29-JUL-97		29-JUL-97		05-AUG-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

ORGANICS (SOIL)

mg/kg

Antimony	.54 <	mg/kg	.54	.52 <	mg/kg	.52	.67 <	mg/kg	.67	.52 <	mg/kg	.52
Arsenic	1.2	mg/kg	.54	.52 <	mg/kg	.52	.67 <	mg/kg	.67	.59	mg/kg	.52
Barium	3.3	mg/kg	2.7	4.2	mg/kg	2.6	5.4	mg/kg	3.4	3.5	mg/kg	2.6
Beryllium	.43 <	mg/kg	.43	.42 <	mg/kg	.42	.54 <	mg/kg	.54	.41 <	mg/kg	.41
Cadmium	.54 <	mg/kg	.54	.52 <	mg/kg	.52	.67 <	mg/kg	.67	.52 <	mg/kg	.52
Chromium	4	mg/kg	1.1	1.6	mg/kg	1	7.2	mg/kg	1.3	2.5	mg/kg	1
Cobalt	1.1 <	mg/kg	1.1	1 <	mg/kg	1	1.3 <	mg/kg	1.3	1 <	mg/kg	1
Copper	5.7	mg/kg	1.1	1 <	mg/kg	1	8.5	mg/kg	1.3	1.4	mg/kg	1
Cyanide	-	mg/kg	-									
Lead	6	mg/kg	.32	.64	mg/kg	.31	1.2	mg/kg	.4	1.9	mg/kg	.52
Mercury	.1 <	mg/kg	.1	.1 <	mg/kg	.1	.13 <	mg/kg	.13	.1 <	mg/kg	.1
Nickel	2.3	mg/kg	2.1	2.1 <	mg/kg	2.1	3.4	mg/kg	2.7	2.1 <	mg/kg	2.1
Selenium	.52 <	mg/kg	.52	.52 <	mg/kg	.52	.67 <	mg/kg	.67	2.6 <	mg/kg	2.6
Silver	1.1 <	mg/kg	1.1	1 <	mg/kg	1	1.3 <	mg/kg	1.3	1 <	mg/kg	1
Thallium	.54 <	mg/kg	.54	.52 <	mg/kg	.52	.67 <	mg/kg	.67	2.6 <	mg/kg	2.6
Tin	2.7 <	mg/kg	2.7	2.6 <	mg/kg	2.6	3.4 <	mg/kg	3.4	2.6 <	mg/kg	2.6
Vanadium	2.8	mg/kg	1.1	1 <	mg/kg	1	7.2	mg/kg	1.3	1.5	mg/kg	1
Zinc	11.9	mg/kg	2.1	2.7	mg/kg	2.1	11.2	mg/kg	2.7	4.1	mg/kg	2.1

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Group IV Sampling Event

Lab Sample Number:	ME459006		ME459005		ME459004		ME459003		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	BPB00205		BPB00305		BPB00405		BPB00505		
Collect Date:	05-AUG-97		05-AUG-97		05-AUG-97		05-AUG-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

INORGANICS (SOIL)

mg/kg

Antimony	.51 <	mg/kg	.51	1.3	mg/kg	.54	.54 <	mg/kg	.54	.52 <	mg/kg	.52
Arsenic	.59	mg/kg	.51	.85	mg/kg	.54	.83	mg/kg	.54	.6	mg/kg	.52
Barium	3.3	mg/kg	2.6	30.5	mg/kg	2.7	4.1	mg/kg	2.7	4.7	mg/kg	2.6
Beryllium	.41 <	mg/kg	.41	.43 <	mg/kg	.43	.43 <	mg/kg	.43	.42 <	mg/kg	.42
Cadmium	.51 <	mg/kg	.51	.54 <	mg/kg	.54	.54 <	mg/kg	.54	.52 <	mg/kg	.52
Chromium	3.9	mg/kg	1	6.6	mg/kg	1.1	3.2	mg/kg	1.1	4.6	mg/kg	1
Cobalt	1 <	mg/kg	1	1.1 <	mg/kg	1.1	1.1 <	mg/kg	1.1	1 <	mg/kg	1
Copper	2.7	mg/kg	1	8.8	mg/kg	1.1	3.4	mg/kg	1.1	1.6	mg/kg	1
Cyanide	-	mg/kg	-									
Lead	2.3	mg/kg	.51	23.4	mg/kg	2.7	6.7	mg/kg	.54	1.1	mg/kg	.52
Mercury	.09 <	mg/kg	.09	.11 <	mg/kg	.11	.11 <	mg/kg	.11	.1 <	mg/kg	.1
Nickel	2.1 <	mg/kg	2.1	2.2 <	mg/kg	2.2	2.2 <	mg/kg	2.2	2.1 <	mg/kg	2.1
Selenium	2.6 <	mg/kg	2.6	2.7 <	mg/kg	2.7	2.7 <	mg/kg	2.7	2.6 <	mg/kg	2.6
Silver	1 <	mg/kg	1	1.1 <	mg/kg	1.1	1.1 <	mg/kg	1.1	1 <	mg/kg	1
Thallium	2.6 <	mg/kg	2.6	2.7 <	mg/kg	2.7	2.7 <	mg/kg	2.7	2.6 <	mg/kg	2.6
Tin	2.6 <	mg/kg	2.6	2.7 <	mg/kg	2.7	2.7 <	mg/kg	2.7	2.6 <	mg/kg	2.6
Vanadium	2	mg/kg	1	5.9	mg/kg	1.1	3	mg/kg	1.1	2.4	mg/kg	1
Zinc	8.8	mg/kg	2.1	35.9	mg/kg	2.2	9.9	mg/kg	2.2	4.8	mg/kg	2.1

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Group IV Sampling Event

Lab Sample Number:	ME836004		ME836005		ME836003		ME836001		
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT		
Locator	G4D00101		G4D00201		G4D00301		G4D00401		
Collect Date:	25-SEP-97		25-SEP-97		25-SEP-97		25-SEP-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

ORGANICS (SOIL)

mg/kg

Antimony	.67 <	mg/kg	.67	.55 <	mg/kg	.55	1.2	mg/kg	.9	1.3 <	mg/kg	1.3
Arsenic	.67 <	mg/kg	.67	.55 <	mg/kg	.55	.9 <	mg/kg	.9	6.1	mg/kg	1.3
Barium	3.4 <	mg/kg	3.4	4.5	mg/kg	2.7	6.2	mg/kg	4.5	22.1	mg/kg	6.4
Beryllium	.54 <	mg/kg	.54	.44 <	mg/kg	.44	.72 <	mg/kg	.72	1 <	mg/kg	1
Cadmium	.67 <	mg/kg	.67	.55 <	mg/kg	.55	1.4	mg/kg	.9	1.4	mg/kg	1.3
Chromium	1.8	mg/kg	1.3	3.7	mg/kg	1.1	10.2	mg/kg	1.8	33.1	mg/kg	2.6
Cobalt	1.3 <	mg/kg	1.3	1.1 <	mg/kg	1.1	1.8 <	mg/kg	1.8	3.7	mg/kg	2.6
Copper	1.8	mg/kg	1.3	33.4	mg/kg	1.1	11.2	mg/kg	1.8	17	mg/kg	2.6
Cyanide	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-
Lead	4.5	mg/kg	.4	5.7	mg/kg	.33	18.1	mg/kg	.54	30.2	mg/kg	.77
Mercury	.13 <	mg/kg	.13	.1 <	mg/kg	.1	.16 <	mg/kg	.16	.25 <	mg/kg	.25
Nickel	2.7 <	mg/kg	2.7	2.4	mg/kg	2.2	3.6	mg/kg	3.6	10.9	mg/kg	5.1
Selenium	.67 <	mg/kg	.67	.55 <	mg/kg	.55	.9 <	mg/kg	.9	1.3 <	mg/kg	1.3
Silver	1.3 <	mg/kg	1.3	1.1 <	mg/kg	1.1	1.8 <	mg/kg	1.8	2.6 <	mg/kg	2.6
Thallium	1.3 <	mg/kg	1.3	1.1 <	mg/kg	1.1	1.8 <	mg/kg	1.8	2.6 <	mg/kg	2.6
Tin	3.4 <	mg/kg	3.4	2.7 <	mg/kg	2.7	8.1	mg/kg	4.5	18.1	mg/kg	6.4
Vanadium	1.3 <	mg/kg	1.3	2.3	mg/kg	1.1	10.4	mg/kg	1.8	40.4	mg/kg	2.6
Zinc	5.9	mg/kg	2.7	62.6	mg/kg	2.2	65	mg/kg	3.6	73.1	mg/kg	5.1

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Group IV Sampling Event

Lab Sample Number:	ME836002		MF071002		ME388002		ME388002				
Site	MAYPORT		MAYPORT		MAYPORT		MAYPORT				
Locator	G4D00401D		G4D00501		LSB00110		LSB00110				
Collect Date:	25-SEP-97		07-NOV-97		29-JUL-97		29-JUL-97				
VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

INORGANICS (SOIL)

	mg/kg											
Antimony	1.4 <	mg/kg	1.4	-	mg/kg		.54 U	mg/kg	.54	.54 <	mg/kg	.54
Arsenic	6.8	mg/kg	1.4	8.7	mg/kg	.7	.92	mg/kg	.54	.92	mg/kg	.54
Barium	22.9	mg/kg	6.9	220	mg/kg	3.9	3.8	mg/kg	2.7	3.8	mg/kg	2.7
Beryllium	1.1 <	mg/kg	1.1	.6 <	mg/kg	.6	.43 U	mg/kg	.43	.43 <	mg/kg	.43
Cadmium	2.4	mg/kg	1.4	17	mg/kg	.7	.54 U	mg/kg	.54	.54 <	mg/kg	.54
Chromium	32.7	mg/kg	2.8	171	mg/kg	1.5	2.1	mg/kg	1.1	2.1	mg/kg	1.1
Cobalt	3.5	mg/kg	2.8	1.6	mg/kg	1.5	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1
Copper	23.4	mg/kg	2.8	640	mg/kg	1.5	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1
Cyanide	-	mg/kg		-	mg/kg		-	mg/kg		-	mg/kg	
Lead	48.2	mg/kg	.83	440	mg/kg	231	.7	mg/kg	.32	.7	mg/kg	.32
Mercury	.25 <	mg/kg	.25	1.4	mg/kg	.1	.1 U	mg/kg	.1	.1 <	mg/kg	.1
Nickel	11.1	mg/kg	5.5	17	mg/kg	3.1	2.1 U	mg/kg	2.1	2.1 <	mg/kg	2.1
Selenium	1.4 <	mg/kg	1.4	.7 <	mg/kg	.7	.54 U	mg/kg	.54	.54 <	mg/kg	.54
Silver	2.8 <	mg/kg	2.8	4.6	mg/kg	1.5	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1
Thallium	2.8 <	mg/kg	2.8	.7 <	mg/kg	.7	.54 U	mg/kg	.54	.54 <	mg/kg	.54
Tin	18.8	mg/kg	6.9	43	mg/kg	3.9	2.7 U	mg/kg	2.7	2.7 <	mg/kg	2.7
Vanadium	40.3	mg/kg	2.8	10	mg/kg	1.5	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1
Zinc	110	mg/kg	5.5	628	mg/kg	3.1	4.8	mg/kg	2.1	4.8	mg/kg	2.1

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME366001	ME366001	ME366002	ME366002								
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT								
Locator	S1B00103	S1B00103	S1B00103D	S1B00103D								
Collect Date:	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97								
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

VORGANICS (SOIL)												
	mg/kg				mg/kg				mg/kg			
Antimony	.63	U	mg/kg	.63	.63	<	mg/kg	.63	.64	U	mg/kg	.64
Arsenic	.63	U	mg/kg	.63	.63	<	mg/kg	.63	.86	U	mg/kg	.64
Barium	3.4		mg/kg	3.2	3.4		mg/kg	3.2	3.2	U	mg/kg	3.2
Beryllium	.5	U	mg/kg	.5	.5	<	mg/kg	.5	.51	U	mg/kg	.51
Cadmium	.63	U	mg/kg	.63	.63	<	mg/kg	.63	.64	U	mg/kg	.64
Chromium	3.7		mg/kg	1.3	3.7		mg/kg	1.3	3		mg/kg	1.3
Cobalt	1.3	U	mg/kg	1.3	1.3	<	mg/kg	1.3	1.3	U	mg/kg	1.3
Copper	1.3	U	mg/kg	1.3	1.3	<	mg/kg	1.3	1.3	U	mg/kg	1.3
Cyanide	-		mg/kg	-	-		mg/kg	-	-		mg/kg	-
Lead	.98		mg/kg	.38	.98		mg/kg	.38	1.1		mg/kg	.38
Mercury	.12	U	mg/kg	.12	.12	<	mg/kg	.12	.12	U	mg/kg	.12
Nickel	2.5	U	mg/kg	2.5	2.5	<	mg/kg	2.5	2.5	U	mg/kg	2.5
Selenium	.63	U	mg/kg	.63	.63	<	mg/kg	.63	.64	U	mg/kg	.64
Silver	1.3	U	mg/kg	1.3	1.3	<	mg/kg	1.3	1.3	U	mg/kg	1.3
Thallium	3.2	U	mg/kg	3.2	3.2	<	mg/kg	3.2	3.2	U	mg/kg	3.2
Tin	3.2	U	mg/kg	3.2	3.2	<	mg/kg	3.2	3.2	U	mg/kg	3.2
Vanadium	3.2		mg/kg	1.3	3.2		mg/kg	1.3	2.4		mg/kg	1.3
Zinc	6		mg/kg	2.5	6		mg/kg	2.5	5.1		mg/kg	2.5

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME366003	ME366003	ME366004	ME366004
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT
Locator	S1B00203	S1B00203	S1B00303	S1B00303
Collect Date:	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97
	VALUE QUAL UNITS DL	VALUE QUAL UNITS DL	VALUE QUAL UNITS DL	VALUE QUAL UNITS DL

INORGANICS (SOIL)

mg/kg

Antimony	.67 U	mg/kg	.67	.67 <	mg/kg	.67	1.2	mg/kg	1	1.2	mg/kg	1
Arsenic	.93	mg/kg	.67	.93	mg/kg	.67	3.2	mg/kg	1	3.2	mg/kg	1
Barium	3.3 U	mg/kg	3.3	3.3 <	mg/kg	3.3	29.3	mg/kg	5.1	29.3	mg/kg	5.1
Beryllium	.53 U	mg/kg	.53	.53 <	mg/kg	.53	1	mg/kg	.81	1	mg/kg	.81
Cadmium	.67 U	mg/kg	.67	.67 <	mg/kg	.67	1 U	mg/kg	1	1 <	mg/kg	1
Chromium	2.2	mg/kg	1.3	2.2	mg/kg	1.3	40.4	mg/kg	2	40.4	mg/kg	2
Cobalt	1.3 U	mg/kg	1.3	1.3 <	mg/kg	1.3	5.6	mg/kg	2	5.6	mg/kg	2
Copper	1.3 U	mg/kg	1.3	1.3 <	mg/kg	1.3	9.2	mg/kg	2	9.2	mg/kg	2
Cyanide	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-
Lead	1.2	mg/kg	.4	1.2	mg/kg	.4	15.9	mg/kg	.61	15.9	mg/kg	.61
Mercury	.12 U	mg/kg	.12	.12 <	mg/kg	.12	.19 U	mg/kg	.19	.19 <	mg/kg	.19
Nickel	2.7 U	mg/kg	2.7	2.7 <	mg/kg	2.7	11.6	mg/kg	4.1	11.6	mg/kg	4.1
Selenium	.67 U	mg/kg	.67	.67 <	mg/kg	.67	1.1	mg/kg	1	1.1	mg/kg	1
Silver	1.3 U	mg/kg	1.3	1.3 <	mg/kg	1.3	2 U	mg/kg	2	2 <	mg/kg	2
Thallium	3.3 U	mg/kg	3.3	3.3 <	mg/kg	3.3	5.1 U	mg/kg	5.1	5.1 <	mg/kg	5.1
Tin	3.3 U	mg/kg	3.3	3.3 <	mg/kg	3.3	5.1 U	mg/kg	5.1	5.1 <	mg/kg	5.1
Vanadium	1.6	mg/kg	1.3	1.6	mg/kg	1.3	45.4	mg/kg	2	45.4	mg/kg	2
Zinc	6.5	mg/kg	2.7	6.5	mg/kg	2.7	49.5	mg/kg	4.1	49.5	mg/kg	4.1

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME366006	ME366006	ME366005	ME366005				
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT				
Locator	S1B00403	S1B00403	S2B00102	S2B00102				
Collect Date:	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97				
	VALUE	DL	VALUE	DL	VALUE	DL	VALUE	DL
	QUAL	UNITS	QUAL	UNITS	QUAL	UNITS	QUAL	UNITS

NORGANICS (SOIL)

mg/kg

Antimony	.53 U	mg/kg	.53	.53 <	mg/kg	.53	.57 U	mg/kg	.57	.57 <	mg/kg	.57
Arsenic	.53 U	mg/kg	.53	.53 <	mg/kg	.53	.75	mg/kg	.57	.75	mg/kg	.57
Barium	4.4	mg/kg	2.6	4.4	mg/kg	2.6	7.6	mg/kg	2.8	7.6	mg/kg	2.8
Beryllium	.42 U	mg/kg	.42	.42 <	mg/kg	.42	.45 U	mg/kg	.45	.45 <	mg/kg	.45
Cadmium	.53 U	mg/kg	.53	.53 <	mg/kg	.53	.57 U	mg/kg	.57	.57 <	mg/kg	.57
Chromium	2.8	mg/kg	1.1	2.8	mg/kg	1.1	1.8	mg/kg	1.1	1.8	mg/kg	1.1
Cobalt	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1
Copper	1.6	mg/kg	1.1	1.6	mg/kg	1.1	1.5	mg/kg	1.1	1.5	mg/kg	1.1
Cyanide	-	mg/kg	-									
Lead	2.7	mg/kg	.32	2.7	mg/kg	.32	6.4	mg/kg	.34	6.4	mg/kg	.34
Mercury	.1 U	mg/kg	.1	.1 <	mg/kg	.1	.1 U	mg/kg	.1	.1 <	mg/kg	.1
Nickel	2.1 U	mg/kg	2.1	2.1 <	mg/kg	2.1	2.3 U	mg/kg	2.3	2.3 <	mg/kg	2.3
Selenium	.53 U	mg/kg	.53	.53 <	mg/kg	.53	.57 U	mg/kg	.57	.57 <	mg/kg	.57
Silver	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1	1.1 U	mg/kg	1.1	1.1 <	mg/kg	1.1
Thallium	2.6 U	mg/kg	2.6	2.6 <	mg/kg	2.6	2.8 U	mg/kg	2.8	2.8 <	mg/kg	2.8
Tin	2.6 U	mg/kg	2.6	2.6 <	mg/kg	2.6	2.8 U	mg/kg	2.8	2.8 <	mg/kg	2.8
Vanadium	1.8	mg/kg	1.1	1.8	mg/kg	1.1	4.2	mg/kg	1.1	4.2	mg/kg	1.1
Zinc	11.2	mg/kg	2.1	11.2	mg/kg	2.1	10.7	mg/kg	2.3	10.7	mg/kg	2.3

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME388003	ME388004	ME366007	ME366007							
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT							
Locator	S3B00106	S3B00206	S5B00103	S5B00103							
Collect Date:	29-JUL-97	29-JUL-97	28-JUL-97	28-JUL-97							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

INORGANICS (SOIL)

	mg/kg											
Antimony	.6 <	mg/kg	.6	.6 <	mg/kg	.6	.59 U	mg/kg	.59	.59 <	mg/kg	.59
Arsenic	.88	mg/kg	.6	.77	mg/kg	.6	.59 U	mg/kg	.59	.59 <	mg/kg	.59
Barium	3 <	mg/kg	3	3.8	mg/kg	3	5.4	mg/kg	2.9	5.4	mg/kg	2.9
Beryllium	.48 <	mg/kg	.48	.48 <	mg/kg	.48	.47 U	mg/kg	.47	.47 <	mg/kg	.47
Cadmium	.6 <	mg/kg	.6	.6 <	mg/kg	.6	.59 U	mg/kg	.59	.59 <	mg/kg	.59
Chromium	4.4	mg/kg	1.2	3.7	mg/kg	1.2	2.8	mg/kg	1.2	2.8	mg/kg	1.2
Cobalt	1.2 <	mg/kg	1.2	1.2 <	mg/kg	1.2	1.2 U	mg/kg	1.2	1.2 <	mg/kg	1.2
Copper	1.2 <	mg/kg	1.2	2.2	mg/kg	1.2	1.9	mg/kg	1.2	1.9	mg/kg	1.2
Cyanide	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-
Lead	1.2	mg/kg	.36	2	mg/kg	.36	5.6	mg/kg	.35	5.6	mg/kg	.35
Mercury	.11 <	mg/kg	.11	.12 <	mg/kg	.12	.11 U	mg/kg	.11	.11 <	mg/kg	.11
Nickel	2.4 <	mg/kg	2.4	2.5	mg/kg	2.4	2.3 U	mg/kg	2.3	2.3 <	mg/kg	2.3
Selenium	.6 <	mg/kg	.6	.6 <	mg/kg	.6	.59 U	mg/kg	.59	.59 <	mg/kg	.59
Silver	1.2 <	mg/kg	1.2	1.2 <	mg/kg	1.2	1.2 U	mg/kg	1.2	1.2 <	mg/kg	1.2
Thallium	.6 <	mg/kg	.6	.6 <	mg/kg	.6	2.9 U	mg/kg	2.9	2.9 <	mg/kg	2.9
Tin	3 <	mg/kg	3	3 <	mg/kg	3	2.9 U	mg/kg	2.9	2.9 <	mg/kg	2.9
Vanadium	2.8	mg/kg	1.2	3	mg/kg	1.2	2.7	mg/kg	1.2	2.7	mg/kg	1.2
Zinc	4.9	mg/kg	2.4	8.3	mg/kg	2.4	9.5	mg/kg	2.3	9.5	mg/kg	2.3

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number:	ME388009	ME422002	ME422002	MF380005	ME459008							
Site	MAYPORT	MAYPORT	MAYPORT	MAYPORT	MAYPORT							
Locator	S8800104	S8800204	S8800204	S9800104	S9800204							
Collect Date:	30-JUL-97	31-JUL-97	31-JUL-97	16-JAN-98	06-AUG-97							
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

(INORGANICS (SOIL))

mg/kg

Antimony	.6 <	mg/kg	.6	.52 <	mg/kg	.52	-	mg/kg	.52 <	mg/kg	.52
Arsenic	1.7	mg/kg	.6	.67	mg/kg	.52	.54 U	mg/kg	.52 <	mg/kg	.52
Barium	9.5	mg/kg	3	5.2	mg/kg	2.6	-	mg/kg	2.6 <	mg/kg	2.6
Beryllium	.48 <	mg/kg	.48	.41 <	mg/kg	.41	-	mg/kg	.42 <	mg/kg	.42
Cadmium	.6 <	mg/kg	.6	.52 <	mg/kg	.52	-	mg/kg	.52 <	mg/kg	.52
Chromium	7.2	mg/kg	1.2	2.5	mg/kg	1	-	mg/kg	2.3	mg/kg	1
Cobalt	1.8	mg/kg	1.2	1 <	mg/kg	1	-	mg/kg	1 <	mg/kg	1
Copper	2.7	mg/kg	1.2	1.6	mg/kg	1	-	mg/kg	2.1	mg/kg	1
Cyanide	-	mg/kg	-	-	mg/kg	-	-	mg/kg	-	mg/kg	-
Lead	2.2	mg/kg	.36	2.8	mg/kg	.31	-	mg/kg	1.2	mg/kg	.52
Mercury	.12 <	mg/kg	.12	.1 <	mg/kg	.1	-	mg/kg	.1 <	mg/kg	.1
Nickel	3.2	mg/kg	2.4	2.1 <	mg/kg	2.1	-	mg/kg	2.1 <	mg/kg	2.1
Selenium	.6 <	mg/kg	.6	.52 <	mg/kg	.52	-	mg/kg	2.6 <	mg/kg	2.6
Silver	1.2 <	mg/kg	1.2	1 <	mg/kg	1	-	mg/kg	1 <	mg/kg	1
Thallium	.6 <	mg/kg	.6	.52 <	mg/kg	.52	-	mg/kg	2.6 <	mg/kg	2.6
Tin	3 <	mg/kg	3	2.6 <	mg/kg	2.6	-	mg/kg	2.6 <	mg/kg	2.6
Vanadium	6.7	mg/kg	1.2	1.7	mg/kg	1	-	mg/kg	1.1	mg/kg	1
Zinc	12	mg/kg	2.4	6.3	mg/kg	2.1	-	mg/kg	6.4	mg/kg	2.1

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

Group IV Sampling Event

Lab Sample Number: MF380004
 Site: MAYPORT
 Locator: S9S00101
 Collect Date: 16-JAN-98
 VALUE QUAL UNITS DL

INORGANICS (SOIL)

	mg/kg			
Antimony	-	mg/kg		
Arsenic	.53 U	mg/kg	.53	
Barium	-	mg/kg		
Beryllium	-	mg/kg		
Cadmium	-	mg/kg		
Chromium	-	mg/kg		
Cobalt	-	mg/kg		
Copper	-	mg/kg		
Cyanide	-	mg/kg		
Lead	-	mg/kg		
Mercury	-	mg/kg		
Nickel	-	mg/kg		
Selenium	-	mg/kg		
Silver	-	mg/kg		
Thallium	-	mg/kg		
Tin	-	mg/kg		
Vanadium	-	mg/kg		
Zinc	-	mg/kg		

U = Not Detected R = Result is Rejected and Unusable NJ = Presumptive Evidence at an Estimated Value
 J = Estimated Value UJ = Reported Quantitation Limit is Estimated
 D qualification indicates value is the result of a dilution

ATTACHMENT D

Tables

Table 1
Analytes (Not Validated) Detected in Group IV Surface Water Samples (SWMU 55)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Dup(?)
 ↓ or 05

Sample Location ¹ :	MPT-55-SW01	MPT-55-SW03	MPT-55-SW04	MPT-55-SW04	Florida Surface Water Criteria
Sample Number:	G4D00101	G4D00301	G4D00401	G4D00401	Chapter 62 - 302.50 F.A.C.
Date Sampled:	26-SEP-97	25-SEP-97	25-SEP-97	25-SEP-97	Class III Criteria (Fresh/Marine)
Volatile Organics (µg/l)					
Acetone	5 JB	6 JB	4 JB	3 JB	NA / NA
Semivolatile Organics (µg/l)					
Butylbenzylphthalate	-	4 J B	-	-	< 3 / NA
Di-n-butylphthalate	2 J	2 J	-	1 J	< 3 / NA
bis(2-Ethylhexyl)phthalate	2 J	2 J	-	1 J	< 3 / NA
Inorganics (µg/l)					
Barium	-	-	-	-	NA / NA
Lead	7 M	-	10.3 M	4.6	² 14 / 5.6
Tin	43.3	52.7	81.6	81.7	NA / NA
Zinc	-	67.9 F	-	-	² 35 / 86

¹ = Surface water not present at locations MPT-55-SW02 and MPT-55-SW05, therefore no sample was collected.

² = A value of 100 was assumed for calculating the acute hardness criteria for lead and zinc.

Notes: SWMU = solid waste management unit.
 F.A.C. = Florida Administrative Code.
 µg/l = micrograms per liter.
 - = Analyte, if present, was at a concentration that was less than the detection limit.
 J = estimated value.
 B = analyte detected in laboratory quality control blank.
 NA = no screening criteria available.

Table 2
Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-55-SD01	MPT-55-SD02	MPT-55-SD03	MPT-55-SD04	MPT-55-SD04	MPT-55-SD05
Sample Number:	G4D00101	G4D00201	G4D00301	G4D00401	G4D00401D	G400501
Date Sampled ¹ :	25-SEP-97	25-SEP-97	25-SEP-97	25-SEP-97	25-SEP-97	25-Sept-97
Sample Depth (ft bis):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
<u>Volatile Organics (µg/kg)</u>						
2-Butanone	3 J	–	4 J	16 J	7 J	6 J
Acetone	11 JB	2 JB ²	15 JB	120 B	33 B	–
Carbon disulfide	–	–	4 J	27	6 J	–
Methylene chloride	5 J	4 J/5 J ¹	6 J	7 J	12 J	3 J
Tetrachloroethene	–	–	–	–	–	9
<u>Semivolatile Organics (µg/kg)</u>						
Benzo(a)anthracene	–	–	100 J	–	–	–
Benzo(a)pyrene	56 J	–	120 J	–	–	–
Benzo(b)fluoranthene	90 J	–	150 J	–	–	–
Benzo(g,h,i)perylene	–	–	78 J	–	–	560 J
Benzo(k)fluoranthene	86 J	–	180 J	–	–	–
Chrysene	86 J	–	180 J	–	–	–
Di-n-butylphthalate	71 JB	–	93 JB	530 JB	–	–
Fluoranthene	85 J	–	250 J	94 J	–	–
Indeno(1,2,3-cd)pyrene	–	–	76 J	–	–	370 J
Phenanthrene	–	–	100 J	–	–	–
Pyrene	67 J	–	240 J	72 J	–	–
bis(2-Ethylhexyl)phthalate	58 J	–	1,300	280 J	–	2,000 J
See notes at end of table.						

Table 2 (Continued)
Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-55-SD01	MPT-55-SD02	MPT-55-SD03	MPT-55-SD04	MPT-55-SD04	MPT-55-SD05
Sample Number:	G4D00101	G4D00201	G4D00301	G4D00401	G4D00401D	G400501
Date Sampled ¹ :	25-SEP-97	25-SEP-97	25-SEP-97	25-SEP-97	25-SEP-97	25-Sept-97
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Pesticides (µg/kg)						
Chlordane	--	470	--	--	--	6,200
Heptachlor	--	8.6	--	--	--	--
Inorganics (mg/kg)						
Antimony	--	--	1.2	--	--	7
Arsenic	--	--	--	6.1	6.8	8.7
Barium	--	4.5	6.2	22.1	22.9	220
Cadmium	--	--	1.4	1.4	2.4	17.4
Chromium	1.8	3.7	10.2	33.1	32.7	171
Cobalt	--	--	--	3.7	3.5	1.6
Copper	1.8	33.4	11.2	17	23.4	640
Lead	4.5	5.7	18.1	30.2	48.2	4,400
Mercury	--	--	--	--	--	1.4
Nickel	--	2.4	3.6	10.9	11.1	17.3
Silver	--	--	--	--	--	4.6
Tin	--	--	8.1	18.1	18.8	43.7
Vanadium	--	2.3	10.4	40.4	40.3	10.6
Zinc	5.9	62.6	65	73.1	110	628

See notes at end of table.

Table 2 (Continued)
Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

¹ = Semivolatile organic samples G4D00101, G4D00201, G4D00301, and G4D00401 were collected on November 4, 1997.

² = Analytical result is from a reanalysis.

Notes: SWMU = solid waste management unit.

ft bls = feet below land surface.

$\mu\text{g}/\text{kg}$ = micrograms per kilogram.

mg/kg = milligrams per kilogram.

- = Analyte, if present, was at a concentration that was less than the detection limit.

J = estimated value.

B = analyte detected in laboratory quality control blank.

Table 3
Summary of Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics (µg/kg)</u>						
2-Butanone	3/5	3	11.5*	6	11	G4D00401
Acetone	5/6	2	76.5*	22	11	G4D00401
Carbon disulfide	2/5	4	16.5*	10	5 - 7	G4D00401
Methylene chloride	6/6	3	9.5*	5	N/A	G4D00401D
Tetrachloroethene	1/6	9	9	9	5 - 13.5	G4D00501
<u>Semivolatile Organics (µg/kg)</u>						
Benzo(a)anthracene	1/4	100	100	100	450 - 670	G4D00301
Benzo(a)pyrene	2/4	56	120	88	450 - 670	G4D00301
Benzo(b)fluoranthene	2/4	90	150	120	450 - 670	G4D00301
Benzo(g,h,i)perylene	2/5	78	560	319	450 - 670	G4D00501
Benzo(k)fluoranthene	2/4	86	180	133	450 - 670	G4D00301
Chrysene	2/4	86	180	133	450 - 670	G4D00301
Di-n-butylphthalate	3/4	71	530	231	450 - 450	G4D00401
Fluoranthene	3/4	85	250	143	450 - 450	G4D00301
Indeno(1,2,3-cd)pyrene	2/5	76	370	223	450 - 670	G4D00501
Phenanthrene	1/4	100	100	100	450 - 670	G4D00301
Pyrene	3/4	67	240	126	450 - 450	G4D00301
bis(2-Ethylhexyl)phthalate	4/5	58	2,000	910	450 - 450	G4D00501
<u>Pesticides (µg/kg)</u>						
Chlordane	2/5	470	6,200	3,335	45 - 89.5	G4D00501
Heptachlor	1/4	8.6	8.6	8.6	4.5 - 8.95	G4D00201
See notes at end of table						

Table 3 (Continued)
Summary of Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
Inorganics (mg/kg)						
Antimony	2/5	1.2	7	4.1	0.55 - 1.35	G4D00501
Arsenic	2/5	6.45*	8.7	7.6	0.55 - 0.9	G4D00501
Barium	4/5	4.5	220	63.3	3.4	G4D00501
Cadmium	3/5	1.4	17.4	6.9	0.55 - 0.67	G4D00501
Chromium	5/5	1.8	171	43.9	N/A	G4D00501
Cobalt	2/5	1.6	3.6*	2.6	1.1 - 1.8	G4D00401
Copper	5/5	1.8	640	141.3	N/A	G4D00501
Lead	5/5	4.5	4,400	893.5	N/A	G4D00501
Mercury	1/5	1.4	1.4	1.4	0.1 - 0.25	G4D00501
Nickel	4/5	2.4	17.3	8.6	2.7	G4D00501
Silver	1/5	4.6	4.6	4.6	1.1 - 2.7	G4D00501
Tin	3/5	8.1	43.7	23.4	2.7 - 3.4	G4D00501
Vanadium	4/5	2.3	40.35*	15.9	1.3	G4D00401
Zinc	5/5	5.9	628	170.6	N/A	G4D00501

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed. A sample and duplicate are considered one sample.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method Detection Limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMU = solid waste management unit.
 µg/kg = micrograms per kilogram.
 mg/kg = milligram per kilogram.
 N/A = analyte detected in each sample

Table 4
Comparison of Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Target Cleanup Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Volatile Organics (µg/kg)							
2-Butanone	11.5*	NSC	NSC	3,100,000	0/5	17,000	0/5
Acetone	76.5*	NSC	NSC	780,000	0/6	2,800	0/6
Carbon disulfide	16.5*	NSC	NSC	200,000	0/5	5,600	0/5
Methylene chloride	9.5*	NSC	NSC	16,000	0/6	20	0/6
Tetrachloroethene	9	NSC	NSC	8,900	0/6	30	0/6
Semivolatile Organics (µg/kg)							
Benzo(a)anthracene	100	NSC	NSC	1,400	0/4	3,200	0/4
Benzo(a)pyrene	120	NSC	NSC	100	1/4	800	0/4
Benzo(b)fluoranthene	150	NSC	NSC	1,400	0/4	10,000	0/4
Benzo(g,h,i)perylene	560	NSC	NSC	2,300,000	0/5	32,000,000	0/5
Benzo(k)fluoranthene	180	NSC	NSC	15,000	0/4	25,000	0/4
Chrysene	180	NSC	NSC	140,000	0/4	77,000	0/4
Di-n-butylphthalate	530	NSC	NSC	110,000	0/4	47,000	0/4
Fluoranthene	250	NSC	NSC	2,900,000	0/4	1,200,000	0/4
Indeno(1,2,3-cd)pyrene	370	NSC	NSC	1,500	0/5	28,000	0/5
Phenanthrene	100	NSC	NSC	2,000,000	0/4	250,000	0/4
Pyrene	240	NSC	NSC	2,200,000	0/4	88,000	0/4
bis(2-Ethylhexyl)phthalate	2,000	NSC	NSC	76,000	0/5	3,600,000	0/5
See notes at end of table							

Table 4 (Continued)
Comparison of Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Pesticides (µg/kg)							
Chlordane	6,200	NSC	NSC	3,100	1/5	9,600	0/5
Heptachlor	8.6	NSC	NSC	100	0/4	23,000	0/4
Inorganics (mg/kg)							
Antimony	7	NSC	NSC	26	0/5	5	1/5
Arsenic	9.7	NSC	NSC	0.8	2/5	29	0/5
Barium	220	5.6	3/5	110	1/5	1,600	0/5
Cadmium	17.4	2	2/5	75	0/5	8	1/5
Chromium	171	2.6	4/5	210	0/5	38	1/5
Cobalt	3.6*	NSC	NSC	4,700	0/5	N/A	N/A
Copper	640	2.2	4/5	110	1/5	N/A	N/A
Lead	4,400	NSC	NSC	400	1/5	108	1/5
Mercury	1.4	NSC	NSC	5.4	0/5	2.1	0/5
Nickel	17.3	NSC	NSC	110	0/5	130	0/5
Silver	4.6	NSC	NSC	390	0/5	35	0/5
Tin	43.7	NSC	NSC	44,000	0/5	N/A	N/A
Vanadium	40.35*	4	3/5	15	1/5	6,000	0/5
Zinc	628	2.6	5/5	23,000	0/5	12,000	0/5

SD05



SD04

See notes at end of table.

Table 4 (Continued)
Comparison of Analytes (Not Validated) Detected in Group IV Sediment Samples (SWMU 55)
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method detection Limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ FDEP SCTLs, Contaminant Cleanup Target Levels, Chapter 62-777 Florida Administrative Code (FAC).

⁴ FDEP Soil Leachability Criteria, Contaminant Cleanup Target Levels, Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.
 $\mu\text{g}/\text{kg}$ = micrograms per kilogram.
 mg/kg = milligram per kilogram.
NSC - no background screening concentration. ✓
N/A - no screening criteria under Chapter 62-777 FAC.

Table 5
Analytes (Not Validated) Detected in Subsurface Soil Samples Collected Adjacent to the Sanitary Sewer System (SWMU 53)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-53-MW01S	MPT-53-MW01S	MPT-53-MW02S	MPT-53-MW03S	MPT-53-MW04S	MPT-53-MW05S	MPT-53-MW06S
Sample Number:	S1B00103	S1B00103D	S1B00203	S1B00303	S1B00403	S2B00102	S5B00103
Date Sampled:	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97
Sample Depth (ft bls):	2 to 3	2 to 3	2 to 3	2 to 3	2 to 3	1 to 2	2 to 3
<u>Volatile Organics (µg/kg)</u>							
Acetone	--	--	14	31	--	--	--
<u>Semivolatile Organics (µg/kg)</u>							
Benzo(a)Pyrene	--	--	--	--	52 J	--	--
Benzo(b)fluoranthene	--	--	--	--	44 J	--	--
Benzo(g,h,i)perylene	--	--	--	--	52 J	--	--
Benzo(k)fluoranthene	--	--	--	--	51 J	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	85 JB	--	55 JB
Di-n-butylphthalate	--	55 JB/98 JB ¹	--	--	--	51 JB	51 JB
<u>Inorganics (mg/kg)</u>							
Antimony	--	--	--	1.2	--	--	--
Arsenic	--	0.86	0.93	3.2	--	0.75	--
Barium	3.4	--	--	29.3	4.4	7.6	5.4
Beryllium	--	--	--	1	--	--	--
Chromium	3.7	3	2.2	40.4	2.8	1.8	2.8
Cobalt	--	--	--	5.6	--	--	--
Copper	--	--	--	9.2	1.6	1.5	1.9
Lead	0.98	1.1	1.2	15.9	2.7	6.4	5.6
Nickel	--	--	--	11.6	--	--	--
See notes at end of Table							

Table 5 (Continued)
Analytes (Not Validated) Detected in Subsurface Soil Samples Collected Adjacent to the Sanitary Sewer System (SWMU 53)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-53-MW01S	MPT-53-MW01S	MPT-53-MW02S	MPT-53-MW03S	MPT-53-MW04S	MPT-53-MW05S	MPT-53-MW06S
Sample Number:	S1B00103	S1B00103D	S1B00203	S1B00303	S1B00403	S2B00102	S5B00103
Date Sampled:	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97	28-JUL-97
Sample Depth (ft bls):	2 to 3	2 to 3	2 to 3	2 to 3	2 to 3	1 to 2	2 to 3
Inorganics (Continued) (mg/kg)							
Selenium	--	--	--	1.1	--	--	--
Vanadium	3.2	2.4	1.6	45.4	1.8	4.2	2.7
Zinc	6	5.1	6.5	49.5	11.2	10.7	9.5

¹ - Analytical result is from a reanalysis.

Notes: SWMU = solid waste management unit.
 D = Suffix on Sample Number designates a duplicate sample.
 ft bls = feet below land surface.
 $\mu\text{g}/\text{kg}$ = micrograms per kilogram.
 mg/kg = milligrams per kilogram.
 -- = Analyte, if present, was at a concentration that was less than the detection limit.
 J = estimated value.
 B = analyte detected in laboratory quality control blank.

Table 6
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Adjacent to the Sanitary Sewer System (SWMU 53)

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics</u> µg/kg						
Acetone	2/5	14	31	23	11 - 12.5	S1B00303
<u>Semivolatile Organics</u> µg/kg						
Benzo(a)pyrene	1/7	52	52	52	380 - 680	S1B00403
Benzo(b)fluoranthene	1/7	44	44	44	380 - 680	S1B00403
Benzo(g,h,i)perylene	1/7	52	52	52	380 - 680	S1B00403
Benzo(k)fluoranthene	1/7	51	51	51	380 - 680	S1B00403
Di-n-butylphthalate	4/7	51	132.5*	83	350 - 680	S1B00103D
bis(2-Ethylhexyl)phthalate	2/7	55	85	70	380 - 680	S1B00403
<u>Inorganics</u> mg/kg						
Antimony	1/6	1.2	1.2	1.2	0.53 - 0.67	S1B00303
Arsenic	4/6	0.59*	3.2	1.37	0.53 - 0.59	S1B00303
Barium	5/6	2.5*	29.3	9.8	3.3	S1B00303
Barium	5/6	2.5*	29.3	9.8	3.3	S1B00303
Beryllium	1/6	1	1	1	0.42 - 0.53	S1B00303
Chromium	6/6	1.8	40.4	8.9	N/A	S1B00303
Cobalt	1/6	5.6	5.6	5.6	1.1 - 1.3	S1B00303
Copper	4/6	1.5	9.2	3.6	1.3	S1B00303
Lead	6/6	1.04*	15.9	5.47	N/A	S1B00303
Nickel	1/6	11.6	11.6	11.6	2.1 - 2.7	S1B00303
See notes at end of table						

Table 6
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Adjacent to the Sanitary Sewer System (SWMU 53)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Inorganics Continued</u> (mg/kg)						
Selenium	1/6	1.1	1.1	1.1	0.53 - 0.67	S1B00303
Vanadium	6/6	1.6	45.4	9.8	N/A	S1B00303
Zinc	6/6	5.55*	49.5	15.5	N/A	S1B00303

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed. A sample and duplicate are considered one sample.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method Detection Limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMU = solid waste management unit.
 µg/kg = micrograms per kilogram.
 mg/kg = milligram per kilogram.
 N/A = analyte detected in each sample

Table 7
Comparison of Analytes (Not Validated) Detected in Sanitary Sewer System (SWMU 53) Subsurface Soil Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Volatile Organics (µg/kg)							
Acetone	31	NSC	NSC	5,500,000	0/5	2,800	0/5
Semivolatile Organics (µg/kg)							
Benzo(a)pyrene	52	NSC	NSC	500	0/7	800	0/7
Benzo(b)fluoranthene	44	NSC	NSC	4,800	0/7	10,000	0/7
Benzo(g,h,i)perylene	52	NSC	NSC	41,000,000	0/7	32,000,000	0/7
Benzo(k)fluoranthene	51	NSC	NSC	52,000	0/7	25,000	0/7
Di-n-butylphthalate	132.5*	NSC	NSC	110,000	0/7	47,000	0/7
bis(2-Ethylhexyl)phthalate	85	NSC	NSC	280,000	0/7	3,600,000	0/7
Inorganics (mg/kg)							
Antimony	1.2	NSC	NSC	240	0/6	5	0/6
Arsenic	3.2	0.9	2/6	3.7	0/6	29	0/6
Barium	29.3	7.2	2/6	87,000	0/6	1,600	0/6
Beryllium	1	0.14	1/6	820	0/6	63	0/6
Chromium	40.4	3.4	2/6	420	0/6	38	1/6
Cobalt	5.6	1.04	1/6	110,000	0/6	NA	NA
Copper	9.2	3.6	1/6	78,000	0/6	NA	NA
Lead	15.9	2.8	3/6	920	0/6	108	0/6
Nickel	11.6	NSC	NSC	28,000	0/6	130	0/6

See notes at end of table

*MPT-53-
 MW03S*

Table 7 (Continued)
Comparison of Analytes (Not Validated) Detected in Sanitary Sewer System (SWMU 53) Subsurface Soil Samples to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Inorganics (Continued) (µg/kg)							
Selenium	1.1	NSC	NSC	10,000	0/6	5	0/6
Vanadium	45.4	3.2	2/6	7,400	0/6	6,000	0/6
Zinc	49.5	4.8	6/6	560,000	0/6	12,000	0/6

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method detection Limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ FDEP SCTLs, Contaminant Cleanup Target Levels, Chapter 62-777 Florida Administrative Code (FAC).

⁴ FDEP Soil Leachability Criteria, Contaminant Cleanup Target Levels, Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.
 µg/kg = micrograms per kilogram.
 mg/kg = milligram per kilogram.
 NSC - no background screening concentration.
 N/A - no screening criteria under Chapter 62-777 FAC.

Table 8
Analytes (Not Validated) Detected in Groundwater Samples Collected Adjacent to the Sanitary Sewer System (SWMU 53)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-53-MW01S	MPT-53-MW02S	MPT-53-MW03S	MPT-53-MW04S	MPT-53-MW04S	MPT-53-MW05S	MPT-53-MW06S
Sample Number:	S1G00101	S1G00201	S1G00301	S1G00401	S1G00401D	S2G001001	S5G00101
Date Sampled:	17-SEP-97	18-SEP-97	17-SEP-97	17-SEP-97	17-SEP-97	16-SEP-97	16-SEP-97
<u>Volatile Organics (µg/l)</u>							
2-Butanone	-	-	-	-	-	-	2 J
Acetone	3 JB	-	4 JB	-	4 JB	2 JB	6 JB
<u>Semivolatile Organics (µg/l)</u>							
Di-n-butylphthalate	-	4 JB	2 J	-	-	-	1 J
bis(2-Ethylhexyl)phthalate	-	-	5 J	-	-	1 J	-
<u>Inorganics (µg/l)</u>							
Barium	-	25.1	-	-	-	-	99.6
Lead	-	-	-	-	-	-	10.8
Nickel	-	139/- ¹	-	-	-	-	-
Tin	65.8	69.6	74.6	25	-	26.5	52.9

¹ = Nickel, if present, was not detected in a sample collected January 15, 1998 at concentrations that exceed the detection limit.

Notes: SWMU = solid waste management unit.
 µg/l = micrograms per liter.
 - = Analyte, if present, was at a concentration that was less than the detection limit.
 J = estimated value.
 B = analyte detected in laboratory quality control blank.

Table 9
Summary of Analytes (Not Validated) Detected in Groundwater Samples Collected Adjacent to the Sanitary Sewer System (SWMU 53)

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics (µg/l)</u>						
2-Butanone	1/6	2	2	2	10	S5G00101
Acetone	5/6	2	6	4	10	S5G00101
<u>Semivolatile Organics (µg/l)</u>						
Butylbenzylphthalate	1/6	1	1	1	10	S2G00101
Di-n-butylphthalate	3/6	1	4	2	10	S1G00201
bis(2-Ethylhexyl)phthalate	1/6	5	5	5	10	S1G00301
<u>Inorganics (µg/l)</u>						
Barium	2/6	25.1	99.6	62.4	25	S5G00101
Lead	1/6	10.8	10.8	10.8	3	S5G00101
Nickel	1/8	139	139	139	20	S1G00201
Tin	6/6	18.75*	74.6	51.4	N/A	S1G00301

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMU = solid waste management unit.
 µg/l = micrograms per liter.
 N/A = analyte detected in each sample

Table 10
Comparison of Analytes (Not Validated) Detected in Sanitary Sewer System (SWMU 53) Groundwater Samples to
Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	Florida Groundwater Guidance Concentration ³	Frequency above Florida Groundwater Guidance Concentration
<u>Volatile Organics (µg/l)</u>					
2-Butanone	2	NSC	N/A	4,200	0/6
Acetone	6	16	0/6	700	0/6
<u>Semivolatile Organics (µg/l)</u>					
Butylbenzylphthalate	1	NSC	N/A	140	0/6
Di-n-butylphthalate	4	NSC	N/A	700	0/6
bis(2-Ethylhexyl)phthalate	5	6	0/6	6	0/6
<u>Inorganics (µg/l)</u>					
Barium	99.6	39.94	1/6	2,000	0/6
Lead	10.8	10	1/6	15	0/6
Nickel	139	NSC	N/A	100	1/8
Tin	74.6	NSC	N/A	4,200	0/6

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ Florida Groundwater Guidance Concentrations are from Chapter 62-550.310 and .320 Florida Administrative Code (FAC) and Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.

µg/l = micrograms per liter.

NSC - no background screening concentration.

N/A - no screening criteria under either Chapter 62-550, or Chapter 62-777 FAC.

Table 11
Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Sample Location:	MPT-47-MW01S	MPT-47-MW02S	MPT-47-MW02S	MPT-47-MW03S	MPT-47-MW03S
Sample Number:	BPB00105	BPB00205	BPB00205DL	BPB00305	BPB00305DL
Date Sampled:	05-AUG-97	05-AUG-97	05-AUG-97	05-AUG-97	05-AUG-97
Sample Depth (ft bls):	4 to 5	4 to 5	4 to 5	4 to 5	4 to 5
Volatile Organics (µg/kg)					
Acetone	50	330 E	1,200 D	920	NA
Methylene chloride	-	17	-	-	NA
Semivolatile Organics (µg/kg)					
2-Methylnaphthalene	-	-	NA	10,000 E	11,000 D
Acenaphthene	-	-	NA	1,300	1,300 JD
Anthracene	-	-	NA	940	1,100 JD
Benzo(a)anthracene	-	-	NA	2,100	2,200 D
Benzo(a)pyrene	-	-	NA	1,100	1,100 JD
Benzo(b)fluoranthene	-	44 J	NA	1,300	1,300 JD
Benzo(g,h,i)perylene	-	-	NA	690 J	670 JD
Benzo(k)fluoranthene	-	-	NA	1,300	1,600 D
Butylbenzylphthalate	-	-	NA	-	-
Chrysene	-	-	NA	2,000	2,100 D
Dibenz(a,h)anthracene	-	-	NA	-	170 JD
Dibenzofuran	-	-	NA	550 J	580 JD
Di-n-butylphthalate	140 JB	200 JB	NA	-	-
Fluoranthene	-	65 J	NA	4,300	6,100 D
Fluorene	-	-	NA	2,000	1,800 D
Indeno(1,2,3-cd)pyrene	-	-	NA	700 J	-
Phenanthrene	-	-	NA	3,200	3,600 D
Pyrene	-	61 J	NA	5,000	5,000 D
bis(2-Ethylhexyl)phthalate	39 J	110 J	NA	-	-
Inorganics (mg/kg)					
Antimony	-	-	NA	1.3	NA
Arsenic	0.59	0.59	NA	0.85	NA
Barium	3.5	3.3	NA	30.5	NA
Chromium	2.5	3.9	NA	6.6	NA
Cobalt	-	-	NA	-	NA
Copper	1.4	2.7	NA	8.8	NA
Lead	1.9	2.3	NA	23.4	NA
Nickel	-	-	NA	-	NA
Vanadium	1.5	2	NA	5.9	NA
Zinc	4.1	8.8	NA	35.9	NA

See notes at end of table.

Table 11 (Continued)
Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Sample Location:	MPT-47-MW03S	MPT-47-MW04S	MPT-47-MW04S	MPT-47-MW05S	MPT-47-MW06S
Sample Number:	BPB00305R	BPB00405	BPB00405DL	BPB00505	S8B00104
Date Sampled:	05-AUG-97	05-AUG-97	05-AUG-97	05-AUG-97	30-JUL-97
Sample Depth (ft bls):	4 to 5	4 to 5	4 to 5	4 to 5	3 to 4
Volatile Organics (µg/kg)					
Acetone	600	330 E	850 D	-	-
Methylene chloride	-	-	-	-	-
Semivolatile Organics (µg/kg)					
2-Methylnaphthalene	NA	-	-	-	-
Acenaphthene	NA	-	-	-	-
Anthracene	NA	-	-	-	-
Benzo(a)anthracene	NA	81 J	-	-	-
Benzo(a)pyrene	NA	90 J	-	-	-
Benzo(b)fluoranthene	NA	94 J	-	-	-
Benzo(g,h,i)perylene	NA	56 J	-	-	-
Benzo(k)fluoranthene	NA	100 J	-	-	-
Butylbenzylphthalate	NA	-	-	-	-
Chrysene	NA	78 J	-	-	-
Dibenz(a,h)anthracene	NA	-	-	-	-
Dibenzofuran	NA	-	-	-	-
Di-n-butylphthalate	NA	-	-	-	61 J
Fluoranthene	NA	67 J	-	-	-
Fluorene	NA	-	-	-	-
Indeno(1,2,3-cd)pyrene	NA	54 J	-	-	-
Phenanthrene	NA	-	-	-	-
Pyrene	NA	78 J	-	-	-
bis(2-Ethylhexyl)phthalate	NA	-	-	-	-
Inorganics (mg/kg)					
Antimony	NA	-	-	-	-
Arsenic	NA	0.83	-	0.60	1.7
Barium	NA	4.1	-	4.7	9.5
Chromium	NA	3.2	-	4.6	7.2
Cobalt	NA	-	-	-	1.8
Copper	NA	3.4	-	1.6	2.7
Lead	NA	6.7	-	1.1	2.2
Nickel	NA	-	-	-	3.2
Vanadium	NA	3	-	2.4	6.7
Zinc	NA	9.9	-	4.8	12

See notes at end of table.

Table 11 (Continued)
Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Sample Location:	MPT-47-MW07S	MPT-47-MW08S	MPT-47-MW09S	MPT-47-MW10S	MPT-47-MW11S
Sample Number:	S8B00204	LSB00110	12B00109	12B00209	10B00107
Date Sampled:	31-JUL-97	29-JUL-97	29-JUL-97	29-JUL-97	30-JUL-97
Sample Depth (ft bls):	3 to 4	9 to 10	8 to 9	8 to 9	6 to 7
Volatile Organics (µg/kg)					
Acetone	24	14	26	34	-
Methylene chloride	16	-	-	13	-
Semivolatile Organics (µg/kg)					
2-Methylnaphthalene	-	-	-	-	-
Acenaphthene	-	-	-	-	-
Anthracene	-	-	-	-	160 J
Benzo(a)anthracene	48 J	-	-	-	1200
Benzo(a)pyrene	-	-	-	-	880
Benzo(b)fluoranthene	42 J	-	-	-	990
Benzo(g,h,i)perylene	-	-	-	-	500
Benzo(k)fluoranthene	48 J	-	-	-	800
Butylbenzylphthalate	-	41 J	-	-	-
Chrysene	62 J	-	-	-	1,200
Dibenz(a,h)anthracene	-	-	-	-	-
Dibenzofuran	-	-	-	-	-
Di-n-butylphthalate	36 JB	110 J	-	-	96 J
Fluoranthene	40 J	44 J	-	-	2,500
Fluorene	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	-	-	-	-	480
Phenanthrene	-	-	-	-	490
Pyrene	40 J	45 J	-	-	2,000
bis(2-Ethylhexyl)phthalate	-	1,100	-	-	86
Inorganics (mg/kg)					
Antimony	-	-	-	-	-
Arsenic	0.67	0.92	-	-	1.2
Barium	5.2	3.8	4.2	5.4	3.3
Chromium	2.5	2.1	1.6	7.2	4
Cobalt	-	-	-	-	-
Copper	1.6	-	-	8.5	5.7
Lead	2.8	0.7	0.64	1.2	6
Nickel	-	-	-	3.4	2.3
Vanadium	1.7	-	-	7.2	2.8
Zinc	6.3	4.8	2.7	11.2	11.9

See notes at end of table.

Table 11 (Continued)
Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Notes: DL = dilution sample.
R = re-extracted sample.
ft bls = feet below land surface.
 $\mu\text{g}/\text{kg}$ = micrograms per kilogram.
 mg/kg = milligrams per kilogram.
- = Analyte, if present, was at a concentration less than the detection limit.
NA = not analyzed.
J = estimated value.
B = analyte detected in field blank.
E = estimated value, out of range.
D = dilution qualifier.

Table 12
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47

Group IV Sampling Event
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
Volatile Organics (µg/kg)						
Acetone	9/12	14	920	336	11 - 12	BPB00305
Methylene chloride	3/12	13	16.25*	15	5 - 27	BPB00205
Semivolatile Organics (µg/kg)						
2-Methylnaphthalene	1/11	10,500*	10,500*	10,500	340 - 440	BPB00305DL
Acenaphthene	1/11	1,300*	1,300*	1,300	340 - 440	BPB00305
Anthracene	2/11	160	1,020*	590	340 - 440	BPB00305DL
Benzo(a)anthracene	4/11	48	2,150*	870	340 - 440	BPB00305DL
Benzo(a)pyrene	3/11	90	1,100*	690	340 - 440	BPB00305
Benzo(b)fluoranthene	5/11	42	1,300*	494	340 - 440	BPB00305
Benzo(g,h,i)perylene	3/11	56	680*	412	340 - 440	BPB00305
Benzo(k)fluoranthene	4/11	48	1,450*	600	340 - 440	BPB00305DL
Butylbenzylphthalate	1/11	41	41	41	340 - 1,060	LSB00110
Chrysene	4/11	62	2,050*	848	340 - 440	BPB00305DL
Di-n-butylphthalate	6/11	36	200	107	350 - 1,060	BPB00205
Dibenz(a,h)anthracene	1/11	265*	265*	265	340 - 440	BPB00305DL
Dibenzofuran	1/11	565*	565*	565	340 - 440	BPB00305DL
Fluoranthene	6/11	40	5,200*	1,319	340 - 440	BPB00305DL
See notes at end of table						

**Table 12 (Continued)
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47**

Group IV Sampling Event
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Semivolatile Organics (Continued) (µg/kg)</u>						
Fluorene	1/11	1,900*	1,900*	1,900	340 - 440	BPB00305
Indeno(1,2,3-cd)pyrene	3/11	54	700*	411	340 - 440	BPB00305
Phenanthrene	2/11	490	3,400*	1,945	340 - 440	BPB00305DL
Pyrene	6/11	40	5,000*	1,204	340 - 440	BPB00305
bis(2-Ethylhexyl)phthalate	4/11	39	1,100	334	350 - 1,060	LSB00110
<u>Inorganics (mg/kg)</u>						
Antimony	1/11	1.3	1.3	1.3	0.51 - 0.67	BPB00305
Arsenic	9/11	0.59	1.7	0.88	0.52 - 0.67	S8B00104
Barium	11/11	3.3	30.5	7	N/A	BPB00305
Chromium	11/11	1.6	7.2	4.1	N/A	12B00209
Cobalt	1/11	1.8	1.8	1.8	1 - 1.3	S8B00104
Copper	9/11	1.4	8.8	4	1 - 1.1	BPB00305
Lead	11/11	0.64	23.4	4.45	N/A	BPB00305
Nickel	3/11	2.3	3.4	3	2.1 - 2.2	12B00209
Vanadium	9/11	1.5	7.2	3.7	1 - 1.1	12B00209
Zinc	11/11	2.7	35.9	10.2	N/A	BPB00305

See notes at end of table.

Table 12 (Continued)
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected at Solid Waste Management Unit 47

Group IV Sampling Event
U.S. Naval Station
Mayport, Florida

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed. A sample and duplicate are considered one sample.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method Detection Limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: $\mu\text{g}/\text{kg}$ = micrograms per kilogram.
 mg/kg = milligram per kilogram.
N/A = analyte detected in each sample.

Table 13
Comparison of Analytes (Not Validated) Detected in SWMU 47 Subsurface Soil Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
<u>Volatile Organics</u> (µg/kg)							
Acetone	920	NSC	NSC	5,500,000	0/12	2,800	0/12
Methylene chloride	16.25*	NSC	NSC	23,000	0/12	20	1/12
<u>Semivolatile Organics</u> (µg/kg)							
2-Methylnaphthalene	10,500*	NSC	NSC	560,000	0/11	6,100	1/11
Acenaphthene	1,300*	NSC	NSC	18,000,000	0/11	2,100	0/11
Anthracene	1,020*	NSC	NSC	260,000,000	0/11	2,500,000	0/11
Benzo(a)anthracene	2,150*	NSC	NSC	5,000	0/11	3,200	0/11
Benzo(a)pyrene	1,100*	NSC	NSC	500	2/11	800	2/11
Benzo(b)fluoranthene	1,300*	NSC	NSC	4,800	0/11	10,000	0/11
Benzo(g,h,i)perylene	680*	NSC	NSC	41,000,000	0/11	32,000,000	0/11
Benzo(k)fluoranthene	1,450*	NSC	NSC	52,000	0/11	25,000	0/11
Butylbenzylphthalate	41	NSC	NSC	890,000	0/11	310,000	0/11
Chrysene	2,050*	NSC	NSC	450,000	0/11	77,000	0/11
Di-n-butylphthalate	200	NSC	NSC	110,000	0/11	47,000	0/11
Dibenz(a,h)anthracene	265*	NSC	NSC	5,000,000	0/11	30,000	0/11
Dibenzofuran	565*	NSC	NSC	15,000	0/11	15,000	0/11
Fluoranthene	5,200*	NSC	NSC	48,000,000	0/11	1,200,000	0/11
Fluorene	1,900*	NSC	NSC	28,000,000	0/11	16,000	0/11
Indeno(1,2,3-cd)pyrene	700*	NSC	NSC	5,300	0/11	28,000	0/11
Phenanthrene	3,400*	NSC	NSC	30,000,000	0/11	250,000	0/11
See notes at end of table							

Table 13 (Continued)
Comparison of Analytes (Not Validated) Detected in SWMU 47 Subsurface Soil Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Semivolatile Organics (Continued) (µg/kg)							
Pyrene	5,000*	NSC	NSC	37,000,000	0/11	88,000	0/11
bis(2-Ethylhexyl)phthalate	1,100	NSC	NSC	280,000	0/11	3,600,000	0/11
Inorganics (mg/kg)							
Antimony	1.3	NSC	NSC	240	0/11	5	0/11
Arsenic	1.7	0.9	3/11	3.7	0/11	29	0/11
Barium	30.5	7.2	2/11	87,000	0/11	1,600	0/11
Chromium	7.2	3.4	6/11	420	0/11	38	0/11
Cobalt	1.8	1.04	1/11	110,000	0/11	N/A	N/A
Copper	8.8	3.6	3/11	78,000	0/11	N/A	N/A
Lead	23.4	2.8	3/11	920	0/11	108	0/11
Nickel	3.4	NSC	NSC	28,000	0/11	130	0/11
Vanadium	7.2	3.2	3/11	7,400	0/11	6,000	0/11
Zinc	35.9	4.8	7/11	560,000	0/11	12,000	0/11

See notes at end of table

Table 13 (Continued)
Comparison of Analytes (Not Validated) Detected in SWMU 47 Subsurface Soil Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method detection Limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ FDEP SCTLs, Contaminant Cleanup Target Levels, Chapter 62-777 Florida Administrative Code (FAC).

⁴ FDEP Soil Leachability Criteria, Contaminant Cleanup Target Levels, Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.
 $\mu\text{g}/\text{kg}$ = micrograms per kilogram.
 mg/kg = milligram per kilogram.
NSC - no background screening concentration.
N/A - no screening criteria under Chapter 62-777 FAC.

Table 14
Analytes (Not Validated) Detected in Groundwater Samples at Solid Waste Management Unit 47

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-BP-MW01S	MPT-BP-MW02S	MPT-BP-MW02S	MPT-BP-MW03S	MPT-BP-MW04S
Sample Number:	BPG00101	BPG00201	BPG00201D	BPG00301	BPG00401
Date Sampled:	24-SEP-97	30-SEP-97	30-SEP-97	24-SEP-97	24-SEP-97
<u>Volatile Organics (µg/l)</u>					
1,2-Dichloroethene (Total)	-	-	-	-	-
Acetone	9 JB	-	-	10 B	40 JB
Ethylbenzene	-	-	-	-	8 J
Methylene chloride	-	1 JB	1 JB	-	-
Xylenes	-	-	-	-	-
<u>Semivolatile Organics (µg/l)</u>					
2-Methylnaphthalene	-	-	-	-	10
Acenaphthene	10	-	-	4 J	8 J
Acetophenone	-	-	-	-	15
Anthracene	1 J	-	-	-	-
Dibenzofuran	-	-	-	2 J	6 J
Di-n-butylphthalate	2 JB	2 JB	2 JB	1 JB	-
Fluoranthene	3 J	-	-	2 J	1 J
Fluorene	-	-	-	4 J	8 J
Naphthalene	-	-	-	-	3 J
Phenanthrene	1 J	-	-	4 J	9 J
Phenol	-	-	-	4 J	-
Pyrene	2 J	-	-	2 J	-
bis(2-Ethylhexyl)phthalate	-	1 JB	3 JB	6 J	-
<u>Inorganics (µg/l)</u>					
Arsenic	11.1	-	-	-	-
Barium	30.5	-	-	83.6	29.9
Chromium	-	-	-	-	-
Copper	-	-	-	-	-
Lead	-	-	-	4.9	13.9
Tin	28.4	47.7	50.8	39.9	28.1
Zinc	-	-	-	-	-

See notes at end of table.

Table 14 (Continued)
Analytes (Not Validated) Detected in Groundwater Samples at Solid Waste Management Unit 47

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-BP-MW05S	MPT-BP-MW06S	MPT-BP-MW07S	MPT-BP-MW08S	MPT-BP-MW09S
Sample Number:	BPG00501	S8G00101	S8G00201	LSG00101	12G00101
Date Sampled:	23-SEP-97	23-SEP-97	23-SEP-97	18-SEP-97	18-SEP-97
<u>Volatile Organics</u> (µg/L)					
1,2-Dichloroethene	-	-	-	-	-
Acetone	-	2 JB	2 JB	7 JB	17 B
Ethylbenzene	-	-	-	-	-
Methylene chloride	-	-	-	2 JB	-
Xylenes	-	-	-	2 J	-
<u>Semivolatile Organics</u> (µg/L)					
2-Methylnaphthalene	-	-	-	12	-
Acenaphthene	26	-	7 J	-	-
Acetophenone	1 J	-	-	-	-
Anthracene	3 J	-	-	-	-
Dibenzofuran	3 J	-	-	-	-
Di-n-butylphthalate	-	-	-	4 JB	3 JB
Fluoranthene	10	-	-	-	-
Fluorene	10	-	-	1 J	-
Naphthalene	-	-	-	6 J	-
Phenanthrene	12	-	-	2 J	-
Phenol	-	-	-	-	-
Pyrene	6 J	-	-	-	-
bis(2-Ethylhexyl)phthalate	-	1 J	-	-	1 JB
<u>Inorganics</u> (µg/L)					
Arsenic	-	5.7	-	-	-
Barium	-	34	-	29.7	51.5
Chromium	-	-	-	-	21
Copper	-	-	-	-	13.6
Lead	-	-	-	-	6.5
Tin	37.3	-	77.8	28.7	43.4
Zinc	-	-	-	-	77.3
See notes at end of table.					

**Table 14 (Continued)
Analytes (Not Validated) Detected in Groundwater
Samples at Solid Waste Management Unit 47**

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Sample Location:	MPT-BP-MW10S	MPT-BP-MW11S
Sample Number:	12G0201	10G00101
Date Sampled:	18-SEP-97	27-SEP-97

<u>Volatile Organics (µg/l)</u>		
1,2-Dichloroethene		2 J
Acetone	4 JB	-
Ethylbenzene	-	-
Methylene chloride	-	-
Xylenes	-	-
<u>Semivolatile Organics (µg/l)</u>		
2-Methylnaphthalene	-	-
Acenaphthene	-	-
Acetophenone	-	-
Anthracene	-	-
Dibenzofuran	-	-
Di-n-butylphthalate	3 JB	1 J
Fluoranthene	-	-
Fluorene	-	-
Naphthalene	-	-
Phenanthrene	-	-
Phenol	-	-
Pyrene	-	-
bis(2-Ethylhexyl)phthalate	5 JB	-
<u>Inorganics (µg/l)</u>		
Arsenic	-	-
Barium	33.6	-
Chromium	-	-
Copper	-	-
Lead	-	-
Tin	49.4	53.6
Zinc	-	-

*Thallium
Not listed
Selenium*

Notes: ft bls = feet below land surface.
D = Suffix on Sample Number designates a duplicate sample.
µg/l = micrograms per liter.
- = Analyte, if present was at a concentration that was less than the detection limit.
J = estimated value.
B = analyte detected in field blank.

Table 15
Summary of Analytes (Not Validated) Detected in Groundwater Samples Collected at
Solid Waste Management Unit 47

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
Volatile Organics (µg/l)						
1,2-Dichloroethene (total)	1/11	2	2	2	5 - 25	10G00101
Acetone	8/11	2	40	11	10	BPG00401
Ethylbenzene	1/11	8	8	8	5	BPG00401
Methylene chloride	2/11	1*	2	2	5 - 25	LSG00101
Xylenes (total)	1/11	2	2	2	5 - 25	LSG00101
Semivolatile Organics (µg/l)						
2-Methylnaphthalene	2/11	10	12	11	10	LSG00101
Acenaphthene	5/11	4	26	11	10	BPG00501
Acetophenone	2/11	1	15	8	10	BPG00401
Anthracene	2/11	1	3	2	10	BPG00501
Di-n-butylphthalate	7/11	1	4	2	10	LSG00101
Dibenzofuran	3/11	2	6	4	10	BPG00401
Fluoranthene	4/11	1	10	4	10	BPG00501
Fluorene	4/11	1	10	6	10	BPG00501
Naphthalene	2/11	3	6	5	10	LSG00101
Phenanthrene	5/11	1	12	6	10	BPG00501
Phenol	1/11	4	4	4	10	BPG00301
Pyrene	3/11	2	6	3	10	BPG00501
bis(2-Ethylhexyl)phthalate	5/11	1	6	3	10	BPG00301
See notes at end of table						

Table 15
Summary of Analytes (Not Validated) Detected in Groundwater Samples Collected at
Solid Waste Management Unit 47

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Inorganics (µg/l)</u>						
Antimony	1/11	5	5	5	5	10G00101
Arsenic	3/11	5	11.1	7.3	5	BPG00101
Barium	8/11	25	83.6	39.7	25	BPG00301
Beryllium	1/11	4	4	4	4	10G00101
Cadmium	1/11	5	5	5	5	10G00101
Chromium	2/11	10	21	16	10	12G00101
Cobalt	1/11	10	10	10	10	10G00101
Copper	2/11	10	13.6	11.8	10	12G00101
Lead	4/11	3	13.9	7.1	3	BPG00401
Mercury	1/11	0.2	0.2	0.2	0.2	10G00101
Nickel	1/11	20	20	20	20	10G00101
Selenium	1/11	5	5	5	5	10G00101
Silver	1/11	10	10	10	10	10G00101
Thallium	1/11	10	10	10	10	10G00101
Tin	10/11	28.1	77.8	43.6	25	S8G00201
Vanadium	1/11	10	10	10	10	10G00101
Zinc	2/11	20	77.3	48.7	20	12G00101

115
 115
 115

See notes at end of table

Table 15
Summary of Analytes (Not Validated) Detected in Groundwater Samples Collected at
Solid Waste Management Unit 47

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
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¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMU = solid waste management unit.
 µg/l = micrograms per liter.
 N/A = analyte detected in each sample

Table 16
Comparison of Analytes (Not Validated) Detected in SWMU 47 Groundwater Samples to
Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	Florida Groundwater Guidance Concentration ³	Frequency above Florida Groundwater Guidance Concentration
<u>Volatile Organics (µg/L)</u>					
1,2-Dichloroethene (total)	2	NSC	NSC	63	0/11
Acetone	40	16	2/11	700	0/11
Ethylbenzene	8	NSC	NSC	30	0/11
Methylene chloride	2	NSC	NSC	5	0/11
Xylenes (total)	2	NSC	NSC	20	0/11
<u>Semivolatile Organics (µg/L)</u>					
2-Methylnaphthalene	12	NSC	NSC	20	0/11
Acenaphthene	26	NSC	NSC	20	1/11
Acetophenone	15	NSC	NSC	700	0/11
Anthracene	3	NSC	NSC	2,100	0/11
Di-n-butylphthalate	4	NSC	NSC	700	0/11
Dibenzofuran	6	NSC	NSC	28	0/11
Fluoranthene	10	NSC	NSC	280	0/11
Fluorene	10	NSC	NSC	280	0/11
Naphthalene	6	NSC	NSC	20	0/11
Phenanthrene	12	NSC	NSC	210	0/11
Phenol	4	NSC	NSC	10	0/11
Pyrene	6	NSC	NSC	210	0/11
bis(2-Ethylhexyl)phthalate	6	6	0/11	6	0/11
See notes at end of table					

Table 16 (Continued)
Comparison of Analytes (Not Validated) Detected in SWMU 47 Groundwater Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	Florida Groundwater Guidance Concentration ³	Frequency above Florida Groundwater Guidance Concentration
<u>Inorganics (µg/L)</u>					
Antimony	5	NSC	NSC	6	0/11
Arsenic	11.1	16.6	0/11	50	0/11
Barium	83.6	39.94	2/11	2,000	0/11
Beryllium	4	NSC	NSC	4	0/11
Cadmium	5	NSC	NSC	5	0/11
Chromium	21	7.4	2/11 ?	100	0/11
Cobalt	10	NSC	NSC	420	0/11
Copper	13.6	2.8	2/11	1,000	0/11
Lead	13.9	10	1/11	15	0/11
Mercury	0.2	0.2	0/11	2	0/11
Nickel	20	NSC	NSC	100	0/11
Selenium	5	4.58	1/11	50	0/11
Silver	10	2.8	1/11	100	0/11
Thallium	10	NSC	NSC	2	1/11
Tin	77.8	NSC	NSC	4,200	0/11
Vanadium	10	11	0/11	49	0/11
Zinc	77.3	40.2	1/11	5,000	0/11
See notes at end of table					

Table 16 (Continued)
Comparison of Analytes (Not Validated) Detected in SWMU 47 Groundwater Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	Florida Groundwater Guidance Concentration ³	Frequency above Florida Groundwater Guidance Concentration
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¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ Florida Groundwater Guidance Concentrations are from Chapter 62-550.310 and .320 Florida Administrative Code (FAC) and Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.

µg/l = micrograms per liter.

NSC - no background screening concentration.

N/A - no screening criteria under either Chapter 62-550, or Chapter 62-777 FAC.

Table 17
Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Near Public Works Building 38

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Sample Location:	MPT-PW-MW01S	MPT-PW-MW02S	MPT-PW-MW02S	MPT-PW-MW03S
Sample Number:	S9B00104	S9B00204	S9B00204D	S9B00304
Date Sampled:	06-AUG-97	06-AUG-97	06-AUG-97	06-AUG-97
Sample Depth (ft bis):	3 to 4	3 to 4	3 to 4	3 to 4
Volatile Organics (µg/kg)				
Acetone	55	51	31	23
Semivolatile Organics (µg/kg)				
Di-n-butylphthalate	190 JB	120 JB	230 JB	280 JB
Pyrene	46 J	-	-	-
bis(2-Ethylhexyl)phthalate	49 J	-	-	-
Pesticides (µg/kg)				
4,4'-DDE	8.7	-	-	11
4,4'-DDT	10	-	-	25
Inorganics (mg/kg)				
Antimony	0.62	-	-	-
Arsenic	9.4 ¹	-	-	0.78
Barium	777	-	2.8	6
Beryllium	1.5	-	-	-
Cadmium	4.3	-	-	-
Chromium	66.6	2.3	2.2	5.7
Cobalt	44.6 ²	-	-	-
Copper	10.3	2.1	1.6	4.1
Lead	35	1.2	0.98	17.3
Nickel	20.5	-	-	-
Vanadium	94.5 ²	1.1	1.1	3.7
Zinc	178 ²	6.4 ²	6.9	9 ²

¹ = A surface and subsurface soil sample collected on January 16, 1998, Arsenic, if present, was not detected at concentrations that exceed the detection limit (0.54 milligrams per kilogram (mg/kg)).

- Notes:
- ft bis = feet below land surface.
 - D = Suffix on Sample Number designates a duplicate sample.
 - µg/kg = micrograms per kilogram.
 - = Analyte, if present, was at a concentration that was less than the detection limit.
 - J = estimated value.
 - B = analyte detected in field blank.
 - DDT = dichlorodiphenyltrichloroethane.
 - DDE = dichlorodiphenyldichloroethylene.

Table 18
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Near Building 38

Group IV Sampling Event
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics (µg/kg)</u>						
Acetone	3/3	23	55	40	N/A	S9B00104
<u>Semivolatile Organics (µg/kg)</u>						
Di-n-butylphthalate	3/3	175*	280	215	N/A	S9B00304
Pyrene	1/3	46	46	46	350 - 370	S9B00104
bis(2-Ethylhexyl)phthalate	1/3	49	49	49	350 - 370	S9B00104
<u>Pesticides (µg/kg)</u>						
4,4'-DDE	2/3	8.7	11	9.9	0.7	S9B00304
4,4'-DDT	2/3	10	25	18	1.4	S9B00304
<u>Inorganics (mg/kg)</u>						
Antimony	1/3	0.62	0.62	0.62	0.52 - 0.56	S9B00104
Arsenic	2/5	0.78	9.4	5.09	0.52 - 0.54	S9B00104
Barium	3/3	2.05*	777	261.7	N/A	S9B00104
Beryllium	1/3	1.5	1.5	1.5	0.42 - 0.45	S9B00104
Cadmium	1/3	4.3	4.3	4.3	0.52 - 0.56	S9B00104
Chromium	3/3	2.25*	66.6	24.8	N/A	S9B00104
Cobalt	1/3	44.6	44.6	44.6	1 - 1.1	S9B00104
Copper	3/3	1.85*	10.3	5.4	N/A	S9B00104
Lead	3/3	1.09*	35	17.8	N/A	S9B00104
Nickel	1/3	20.5	20.5	20.5	2.1 - 2.2	S9B00104
See notes at end of table						

**Table 18 (Continued)
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Near Building 38**

Group IV Sampling Event
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
Inorganics (Continued) (mg/kg)						
Vanadium	3/3	1.1*	94.5	33.1	N/A	S9B00104
Zinc	3/3	6.65*	178	64.6	N/A	S9B00104

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed. A sample and duplicate are considered one sample.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method Detection Limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: $\mu\text{g}/\text{kg}$ = micrograms per kilogram.
 mg/kg = milligram per kilogram.
 N/A = analyte detected in each sample.
 DDT = dichlorodiphenyltrichloroethane
 DDE = dichlorodiphenyldichloroethylene

Table 19
Comparison of Analytes (Not Validated) Detected in Building 38 Subsurface Soil Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
<u>Volatile Organics (µg/kg)</u>							
Acetone	55	NSC	NSC	5,500,000	0/3	2,800	0/3
<u>Semivolatile Organics (µg/kg)</u>							
Di-n-butylphthalate	280	NSC	NSC	110,000	0/3	47,000	0/3
Pyrene	46	NSC	NSC	37,000,000	0/3	88,000	0/3
bis(2-Ethylhexyl)phthalate	49	NSC	NSC	280,000	0/3	3,600,000	0/3
<u>Pesticides (µg/kg)</u>							
4,4'-DDE	11	NSC	NSC	13,000	0/3	18,000	0/3
4,4'-DDT	25	NSC	NSC	13,000	0/3	11,000	0/3
<u>Inorganics (mg/kg)</u>							
Antimony	0.62	NSC	NSC	240	0/3	5	0/3
Arsenic	9.4	0.9	1/5	3.7	1/5	29	0/5
Barium	777	7.2	1/3	87,000	0/3	1,600	0/3
Beryllium	1.5	0.14	1/3	820	0/3	63	0/3
Cadmium	4.3	NSC	NSC	1,300	0/3	8	0/3
Chromium	66.6	3.4	2/3	420	0/3	38	1/3
Cobalt	44.6	1.04	1/3	110,000	0/3	N/A	N/A
Copper	10.3	3.6	2/3	78,000	0/3	N/A	N/A
Lead	35	2.8	2/3	920	0/3	108	0/3
Nickel	20.5	NSC	NSC	28,000	0/3	130	0/3
See notes at end of table							

Table 19 (Continued)
Comparison of Analytes (Not Validated) Detected in Building 38 Subsurface Soil Samples
to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Inorganics (mg/kg)							
Vanadium	94.5	3.2	2/3	7,400	0/3	6,000	0/3
Zinc	178	4.8	3/3	560,000	0/3	12,000	0/3

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method detection Limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ FDEP SCTLs, Contaminant Cleanup Target Levels, Chapter 62-777 Florida Administrative Code (FAC).

⁴ FDEP Soil Leachability Criteria, Contaminant Cleanup Target Levels, Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.
 µg/kg = micrograms per kilogram.
 mg/kg = milligram per kilogram.
 NSC - no background screening concentration.
 N/A - no screening criteria under Chapter 62-777 FAC.
 DDT = dichlorodiphenyltrichloroethane.
 DDE = dichlorodiphenyldichloroethylene.

Table 21
Summary of Analytes (Not Validated) Detected in Groundwater Samples Collected Adjacent
to Public Works Building 38

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics (µg/l)</u>						
Acetone	2/3	3.5*	4	4	10	S9G00301
Methylene chloride	1/3	2	2	2	5	S9G00301
<u>Semivolatile Organics (µg/l)</u>						
Acenaphthene	2/4	1	3*	2	10	S9G00201D
Di-n-butylphthalate	4/4	2	2	2	N/A	S9G00101
bis(2-Ethylhexyl)phthalate	3/4	1	4*	2	10	S9G00201
<u>Inorganics (µg/l)</u>						
Tin	3/3	36.8	47*	42.6	N/A	S9G00201D

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: µg/l = micrograms per liter.
 N/A = analyte detected in each sample

<p align="center">Table 22 Comparison of Analytes (Not Validated) Detected in Building 38 Groundwater Samples to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations</p> <p align="center">Group IV Sampling Event U. S. Naval Station Mayport, Florida</p>					
Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	Florida Groundwater Guidance Concentration ³	Frequency above Florida Groundwater Guidance Concentration
<u>Volatile Organics (µg/L)</u>					
Acetone	4	16	0/3	700	0/3
Methylene chloride	2	NSC	NSC	5	0/3
<u>Semivolatile Organics (µg/L)</u>					
Acenaphthene	3*	NSC	NSC	20	0/4
Di-n-butylphthalate	2	NSC	NSC	700	0/4
bis(2-Ethylhexyl)phthalate	4*	6	1/4	6	1/4
<u>Inorganics (µg/L)</u>					
Tin	47*	NSC	NSC	4,200	0/3
¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate. ² The background screening concentration is twice the mean of detected concentrations for inorganic analytes. ³ Florida Groundwater Guidance Concentrations are from Chapter 62-550.310 and .320 Florida Administrative Code (FAC) and Chapter 62-777 FAC.					
Notes: µg/L = micrograms per liter. NSC - no background screening concentration.					

Table 23
Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Near the Former Shore Intermediate Maintenance Activity

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Sample Location:	MPT-SI-MW01S	MPT-SI-MW02S	MPT-SI-MW02S
Sample Number:	S3B00106	S3B00206	S3B00206D
Date Sampled:	29-JUL-97	29-JUL-97	29-JUL-97
Sample Depth (ft bls):	5 to 6	5 to 6	5 to 6
Volatile Organics (µg/kg)			
Methylene chloride	-	9	-
Semivolatile Organics (µg/kg)			
Di-n-butylphthalate	86 J	-	-
bis(2-Ethylhexyl)phthalate	220 J	51 J	-
Inorganics (mg/kg)			
Arsenic	0.88	0.77	0.64
Barium	-	3.8	4.3
Chromium	4.4	3.7	5.3
Copper	-	2.2	2
Lead	1.2	2	4.6
Nickel	-	2.5	-
Vanadium	2.8	3	4.6
Zinc	4.9	8.3	10.7
Notes: ft bls = feet below land surface. D = Suffix on Sample Number designates a duplicate sample. µg/kg = micrograms per kilogram. mg/kg = milligrams per kilogram. - = Analyte, if present, was at a concentration that was less than the detection limit. J = estimated value.			

Table 24
Summary of Analytes (Not Validated) Detected in Subsurface Soil Samples
Collected Near the Former Shore Intermediate Maintenance Activity

Group IV Sampling Event
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics (µg/kg)</u>						
Methylene chloride	1/2	6*	6*	6	6	S3B00206
<u>Semivolatile Organics (µg/kg)</u>						
Di-n-butylphthalate	1/2	86	86	86	400	S3B00106
bis(2-Ethylhexyl)phthalate	2/2	125.5*	220	173	N/A	S3B00106
<u>Inorganics (mg/kg)</u>						
Arsenic	2/2	0.705*	0.88	0.79	N/A	S3B00106
Barium	1/2	4.05*	4.05*	4.1	3	S3B00206D
Chromium	2/2	4.4	4.5*	4.5	N/A	S3B00206D
Copper	1/2	2.1*	2.1*	2.1	1.2	S3B00206
Lead	2/2	1.2	3.3*	2.3	N/A	S3B00206D
Nickel	1/2	1.85*	1.85*	1.9	2.4	S3B00206
Vanadium	2/2	2.8	3.8*	3.3	N/A	S3B00206D
Zinc	2/2	4.9	9.5*	7.2	N/A	S3B00206D

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed. A sample and duplicate are considered one sample.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method Detection Limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: µg/kg = micrograms per kilogram.
mg/kg = milligram per kilogram.
N/A = analyte detected in each sample.

Table 25
Comparison of Analytes (Not Validated) Detected in Shore Intermediate Maintenance Activity Subsurface Soil Samples to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	FDEP Residential Soil Cleanup Target Level (SCTL) ³	Frequency above the FDEP SCTL	FDEP Soil Leachability Criteria ⁴	Frequency Above FDEP Soil Leachability Criteria
Volatile Organics (µg/kg)							
Methylene chloride	6*	NSC	NSC	23,000	0/2	20	0/2
Semivolatile Organics (µg/kg)							
Di-n-butylphthalate	86	NSC	NSC	110,000	0/2	47,000	0/2
bis(2-Ethylhexyl)phthalate	220	NSC	NSC	280,000	0/2	3,600,000	0/2
Inorganics (mg/kg)							
Arsenic	0.88	0.9	0/2	3.7	0/2	29	0/2
Barium	4.05*	7.2	0/2	87,000	0/2	1,600	0/2
Chromium	4.5*	3.4	2/2	420	0/2	38	0/2
Copper	2.1*	3.6	0/2	78,000	0/2	N/A	N/A
Lead	3.3*	2.8	1/2	920	0/2	108	0/2
Nickel	1.85*	NSC	NSC	28,000	0/2	130	0/2
Vanadium	3.8*	3.2	1/2	7,400	0/2	6,000	0/2
Zinc	9.5*	4.8	2/2	560,000	0/2	12,000	0/2

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the Method detection Limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ FDEP SCTLs, Contaminant Cleanup Target Levels, Chapter 62-777 Florida Administrative Code (FAC).

⁴ FDEP Soil Leachability Criteria, Contaminant Cleanup Target Levels, Chapter 62-777 FAC.

Notes: SWMU = solid waste management unit.

µg/kg = micrograms per kilogram.

mg/kg = milligram per kilogram.

NSC - no background screening concentration.

N/A - no screening criteria under Chapter 62-777 FAC.

Table 26
Analytes (Not Validated) Detected in Groundwater Samples Collected
Near the Former Shore Intermediate Maintenance Activity

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Sample Location:	MPT-SI-MW01S	MPT-SI-MW02S	MPT-SI-MW02S	MPT-SI-MW03S
Sample Number:	S3G00101	S3G00201	S3G00201D	S3G00301
Date Sampled:	18-SEP-97	19-SEP-97	19-SEP-97	19-SEP-97
<u>Volatile Organics (µg/l)</u>				
Acetone	5 JB	-	-	3 JB
Methylene chloride	-	-	-	1 J
<u>Semivolatile Organics (µg/l)</u>				
Di-n-butylphthalate	4 JB	3 JB	2 JB	1 JB
<u>Inorganic (µg/l)</u>				
Chromium	-	-	16.5	-
Lead	-	-	4.7	-
Tin	-	28.5	26.5	38.2
Zinc	-	-	30	-
Notes: ft bis = feet below land surface. D = Suffix on Sample Number designates a duplicate sample. µg/l = micrograms per liter. - = Analyte, if present, was at a concentration that was less than the detection limit. J = estimated value. B = analyte detected in field blank.				

Table 27
Summary of Analytes (Not Validated) Detected in Groundwater Samples Collected at the
Shore Intermediate Maintenance Activity

Group IV Sampling Event
U. S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection ¹	Minimum Detected Concentration ²	Maximum Detected Concentration ²	Mean of Detected Concentrations ³	Range of Reporting Limits for Nondetects	Sample with Maximum Detected Concentration
<u>Volatile Organics (µg/l)</u>						
Acetone	2/3	3	5	4	10	S3G00101
Methylene chloride	1/3	1	1	1	5	S3G00301
<u>Semivolatile Organics (µg/l)</u>						
Di-n-butylphthalate	3/3	1	4	3	N/A	S3G00101
<u>Inorganics (µg/l)</u>						
Chromium	1/3	10.75*	10.75*	10.8	10	S3G00201D
Lead	1/3	3.1*	3.1*	3.1	3	S3G00201D
Tin	2/3	27.5*	38.2	32.9	25	S3G00301
Zinc	1/3	20*	20*	20	20	S3G00201D

¹ Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed.

² A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

³ The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: µg/l = micrograms per liter.

N/A = analyte detected in each sample

Table 28
Comparison of Analytes (Not Validated) Detected in Shore Intermediate Maintenance Activity Groundwater Samples to Background Screening and Florida Department of Environmental Protection (FDEP) Guidance Concentrations

Group IV Sampling Event
 U. S. Naval Station
 Mayport, Florida

Analyte	Maximum Detected Concentration ¹	Background Screening Concentration ²	Frequency Above Background Screening Concentration	Florida Groundwater Guidance Concentration ³	Frequency above Florida Groundwater Guidance Concentration
<u>Volatile Organics (µg/L)</u>					
Acetone	5	16	0/3	700	0/3
Methylene chloride	1	NSC	NSC	5	0/3
<u>Semivolatile Organics (µg/L)</u>					
Di-n-butylphthalate	4	NSC	NSC	700	0/3
<u>Inorganics (µg/L)</u>					
Chromium	10.75*	7.4	1/3	100	0/3
Lead	3.1*	10	0/3	15	0/3
Tin	38.2	NSC	NSC	4,200	0/3
Zinc	20*	40.2	0/3	5,000	0/3

¹ A value indicated by an asterisk (*) is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the method detection limit is used as a surrogate.

² The background screening concentration is twice the mean of detected concentrations for inorganic analytes.

³ Florida Groundwater Guidance Concentrations are from Chapter 62-550.310 and .320 Florida Administrative Code (FAC) and Chapter 62-777 FAC.

Notes: µg/L = micrograms per liter.
 NSC - no background screening concentration.

APPENDIX C

GROUNDWATER MONITORING REPORT FOR OCTOBER 2000

GROUND-WATER MONITORING REPORT

**MAYPORT NAVAL STATION
ALPHA-DELTA PIERS**

MAYPORT, FLORIDA

PREPARED FOR

**UNITED STATES NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON, SOUTH CAROLINA**

PREPARED BY

**U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
SAVANNAH, GEORGIA**

OCTOBER 2000

INTRODUCTION

This ground-water monitoring report of selected monitoring wells on Alpha-Delta Piers at Mayport Naval Station, Mayport, Florida is a result of a request by the Florida Department of Environmental Protection (FDEP) that the Southern Division, Naval Facilities Engineering Command (NAVFACENGCOM) Charleston, South Carolina perform supplemental sampling at the site. This sampling is being performed as part of the Remedial Action Plan (RAP) phase at the site.

BACKGROUND

In 1985, it was discovered that a diesel fuel marine (DFM) pipeline that passes through the Alpha-Delta Piers area was broken and that more than 500 gallons of fuel had been lost. The pipeline was repaired and the source of contamination abated. Free product and water were recovered at the time of the pipeline repair; however, the amount of free product recovered is unknown. In 1989, free product and water were removed from a manhole located near the pipeline break. In the spring of 1992, petroleum contaminated soils were removed during the installation of a new water line at the site.

A Contamination Assessment Report (CAR) for the site was prepared and submitted by ABB Environmental Services Inc. in November 1992. After submittal of a CAR Addendum, ABB submitted a Remedial Action Plan (RAP) in December 1993. A revised RAP was submitted and approved by FDEP in August 1994.

In accordance with the approved RAP, a monitoring program was conducted from June 1996 through October 1997. Two monitoring wells, MPT-1406-6 and MPT-1406-16, and two utility manholes were monitored for LNAPL. Also, two rounds of quarterly ground-water samples were collected in September and December of 1996.

LNAPL has been present in the utility manhole north of monitoring well MPT-1406-16 and in MPT-1406-16 since the startup of site assessment activities at Alpha-Delta Piers. In two quarterly sampling events in 1996 (September and December), well MPT-1406-3 indicated naphthalene, and MPT-1406-4 indicated benzene, acenaphthene, and naphthalene.

SUMMARY OF GROUND-WATER MONITORING AND ANALYSIS

This report covers a sampling event at Alpha-Delta Piers, which occurred on 12 October 2000. All wells sampled were checked for free product petroleum using an oil/water interface probe. Monitoring wells MPT-1406-4, MPT-1406-5, MPT-1406-6, MPT-1406-9, MPT-1406-15, and MPT-1406-23D were sampled. All wells sampled were purged of a minimum of three volumes using a Teflon bailer. Well purging continued until field parameters (pH, specific conductance, and temperature) stabilized. Field water quality parameters for all wells sampled are contained in table 2 (attachment 4). Ground-water samples were collected using a Teflon bailer and placed in appropriate containers. The samples were properly preserved, stored on ice, and delivered to the laboratory for analysis.

All monitor well samples were analyzed for EPA Methods 8260B, 8270C, and Florida petroleum residual organics (FL PRO). Chain of custody was maintained on the samples throughout the sampling period. Sampling procedures were conducted according to U.S. Army Corps of Engineers, Savannah District's FDEP-approved Comprehensive Quality Assurance Plan No. 910026G. Laboratory analyses were performed according to the laboratory's FDEP-approved Generic Quality Assurance Plan.

In an attempt to obtain lower detection limits, EPA methods 8260B and 8270C were substituted for EPA methods 624 and 625 on this sampling event.

A summary of Laboratory analytical results of the samples from wells is shown in table 1 (attachment 1) and on the data summary map (attachment 2). Well MPT-1406-16 was not sampled since it contained 1.24 feet of free product.

Two wells, MPT-1406-4 and MPT-1406-6, indicated FL PRO above reporting limits at 2.0 ug/l, and 0.9 ug/l respectively.

Two wells indicated PAH compounds above reporting limits. MPT-1406-4 indicated acenaphthene at 58.7 ug/l, fluoranthene at 10.9 ug/l, fluorene at 45.1 ug/l, naphthalene at 258 ug/l, phenanthrene at 25.2 ug/l and pyrene at 5.47 ug/l. MPT-1406-15 indicated acenaphthene at 13.2 ug/l. Acenaphthene and naphthalene in MPT-1406-4 exceed the regulatory limit of 20 ug/l for these chemicals.

MPT-1406-4 was the only well to exhibit VOCs above reporting limits with benzene at 3.25 ug/l, ethylbenzene at 5.5 ug/l, toluene at 3.28 ug/l, and xylenes at 8.3 ug/l. The benzene in this well is above the regulatory limit of 1 ug/l.

As noted on table 1, the reporting limit for 1,2-dibromoethane (EDB) of 1.0 ug/l for all samples is above the regulatory limit of 0.02 ug/l.

Field water quality parameters are listed in table 2 (attachment 4), and laboratory analytical data are contained in attachment 5.

FREE PRODUCT MONITORING AND REMOVAL

Naval Station (NAVSTA) Mayport is conducting free product monitoring and removal on monitoring wells MPT-1406-6 and MPT-1406-16 on a monthly basis and on the utility manholes on a quarterly basis (see NAVSTA letters in attachment 3). Since product monitoring began in May 1998, a total of 11 gallons have been recovered.

SUMMARY AND CONCLUSIONS

These latest analytical results are remarkably similar to previous samplings, with the exception of benzene. Where earlier samplings have not indicated benzene, this latest event indicates an occurrence in well MPT-1406-4 of 3.25 ug/l. Other than the apparent show of benzene, the changes do not appear to be significant for the volatile organic, PAH, or TRPH analyses performed. The results do not appear to indicate that the area of ground-water contamination has expanded.

The measurement of free product petroleum in monitoring well MPT-1406-16 during sampling events and the monthly product recovery from MPT-1406-16 and the utility manholes/sumps indicates, as in the past, that the accumulation of product in wells is variable and is probably influenced by rainfall events as well as by pumping and removal.

LIST OF ATTACHMENTS

- ATTACHMENT 1 - TABLE 1 - SUMMARY OF GROUND-WATER ANALYTICAL RESULTS FOR 12 OCTOBER 2000 SAMPLING EVENT
- ATTACHMENT 2 - DATA SUMMARY MAP OF MONITORING WELL ANALYTICAL RESULTS
- ATTACHMENT 3 – NAVSTA MAYPORT FREE PRODUCT MONITORING REPORTS
- ATTACHMENT 4 - TABLE 2 - FIELD WATER QUALITY PARAMETERS
- ATTACHMENT 5 - LABORATORY ANALYTICAL RESULTS (12 OCTOBER 2000)

ATTACHMENT 1

TABLE 1 - SUMMARY OF GROUND-WATER ANALYTICAL RESULTS (12 OCTOBER 2000)

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

ALPHA-DELTA PIERS

MAYPORT NAVAL STATION
MAYPORT FLORIDA

12 October 2000

MONITOR WELL NUMBER

PARAMETER	MPT 1406-4-7-00	MPT 1406-4-7-00 DUPLICATE	MPT 1406-5-7-00	MPT 1406-6-7-00	MPT 1406-9-7-00	MPT 1406-15-7-00	MPT 1406-16-7-00	MPT 1406-23D-7-00	RINSATE BLANK	TRIP BLANK	Cleanup Target Level or MCL
Florida PRO											
Petroleum Residual Organics, mg/l	2.06	1.99	< 0.20	0.90	< 0.20	< 0.20	*	< 0.20	< 0.20	NA	5 mg/l
Extractable Organics (8270C)											
Acenaphthene, ug/l	53.2	58.7	< 3.00	< 3.00	< 3.00	13.2	*	< 3.00	< 3.00	NA	20 ug/l
Acenaphthylene, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	210 ug/l
Anthracene, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	2100 ug/l
Benzo (a) anthracene, ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	*	< 0.20	< 0.20	NA	0.2 ug/l
Benzo (a) pyrene, ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	*	< 0.20	< 0.20	NA	0.2 mg/l
Benzo (b) fluoranthene, ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	*	< 0.20	< 0.20	NA	0.2 ug/l
Benzo (g,h,i) perylene, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	210 ug/l
Benzo (k) fluoranthene, ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	*	< 0.50	< 0.50	NA	0.5 ug/l
Chrysene, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	5 ug/l
Dibenzo(a,h) anthracene, ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	*	< 0.20	< 0.20	NA	0.2 ug/l
Fluoranthene, ug/l	10.9	6.57	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	280 ug/l
Fluorene, ug/l	45.1	41.9	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	280 ug/l
Indeno(1,2,3-cd)pyrene, ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	*	< 0.20	< 0.20	NA	0.2 ug/l
Naphthalene, ug/l	236	258	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	20 ug/l
Phenanthrene, ug/l	25.2	17.2	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	210 ug/l
Pyrene, ug/l	5.47	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	NA	210 ug/l
Volatile Organics (8260B)											
Acetone, ug/l	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	*	< 20.0	< 20.0	< 20.0	
Acetonitrile, ug/l	< 5.00	< 5.00	< 5.00	< 1.00	< 5.00	< 5.00	*	< 1.00	< 1.00	< 1.00	
Acrolein, ug/l	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	*	<10.00	<10.00	<10.00	
Acrylonitrile, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	< 5.00	
Allyl chloride, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Benzene, ug/l	3.25	3.25	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	1 ug/l
Bromochloromethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	

TABLE 1

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

ALPHA-DELTA PIERS

MAYPORT NAVAL STATION

MAYPORT FLORIDA

12 October 2000

MONITOR WELL NUMBER

PARAMETER	MPT 1406-4-7-00	MPT 1406-4-7-00 DUPLICATE	MPT 1406-5-7-00	MPT 1406-6-7-00	MPT 1406-9-7-00	MPT 1406-15-7-00	MPT 1406-16-7-00	MPT 1406-23D-7-00	RINSATE BLANK	TRIP BLANK	Cleanup Target Level or MCL
Bromoform, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Bromomethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
2-Butanone, ug/l	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	*	<10.00	<10.00	<10.00	
Carbon Disulfide, ug/l	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	*	< 2.00	< 2.00	< 2.00	
Carbon Tetrachloride, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Chlorobenzene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Chloroethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Chloroform, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Chloromethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Chloroprene, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	< 5.00	
1,2-Dibromo-3-chloropropane, ug/l	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	*	< 2.00	< 2.00	< 2.00	
Dibromochloromethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,2-Dibromoethane, ug/l **	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	0.02 ug/l
Dibromoethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
trans-1,4-Dichloro-2-butene, ug/l	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	*	< 2.00	< 2.00	< 2.00	
1,2-Dichlorobenzene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,3-Dichlorobenzene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,4-Dichlorobenzene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Dichlorodifluoromethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,1-Dichloroethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,2-Dichloroethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	3 ug/l
1,1-Dichloroethene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
cis-1,2-Dichloroethene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Trans-1,2-Dichloroethene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,2-Dichloropropane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,3-Dichloropropane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
2,2-Dichloropropane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,1-Dichloropropene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

ALPHA-DELTA PIERS

MAYPORT NAVAL STATION

MAYPORT FLORIDA

12 October 2000

MONITOR WELL NUMBER

PARAMETER	MPT 1406-4-7-00	MPT 1406-4-7-00 DUPLICATE	MPT 1406-5-7-00	MPT 1406-6-7-00	MPT 1406-9-7-00	MPT 1406-15-7-00	MPT 1406-16-7-00	MPT 1406-23D-7-00	RINSATE BLANK	TRIP BLANK	Cleanup Target Level or MCL
Cis-1,3-Dichloropropene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Trans-1,3-Dichloropropene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Ethylbenzene, ug/l	5.43	5.5	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	30 ug/l
Ethyl Methacrylate, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Hexachloroethane, ug/l	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 2.00	*	< 2.00	< 2.00	< 2.00	
Hexachlorobutadiene, ug/l	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	*	< 10.00	< 10.00	< 10.00	
2-Hexanone, ug/l	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	*	< 10.00	< 10.00	< 10.00	
Iodomethane, ug/l	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	*	< 2.00	< 2.00	< 2.00	
Isobutyl Alcohol, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 1.00	< 5.00	
Methacrylonitrile, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 5.00	*	< 5.00	< 1.00	< 5.00	
Methyl Methacrylate	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
4-Methyl-2-Pentanone	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	*	< 10.00	< 10.00	< 10.00	
Methylene Chloride, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	< 5.00	
Propionitrile, ug/l	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	*	< 5.00	< 5.00	< 5.00	
Styrene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,1,2,2-Tetrachloroethane, ug/l	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	*	< 0.200	< 0.200	< 0.200	
Tetrachloroethene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Toluene, ug/l	3.28	3.02	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	40 ug/l
1,2,4-Trichlorobenzene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,1,1-Trichloroethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,1,2-Trichloroethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Trichloroethene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
1,2,3-Trichloropropane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Vinyl Acetate, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Vinyl Chloride, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Xylenes, ug/l	8.3	8.2	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	20 ug/l
Bromodichloromethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
o-xylene, ug/l	4.1	4.0	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

ALPHA-DELTA PIERS

MAYPORT NAVAL STATION
MAYPORT FLORIDA

12 October 2000

MONITOR WELL NUMBER

PARAMETER	MPT 1406-4-7-00	MPT 1406-4-7-00 DUPLICATE	MPT 1406-5-7-00	MPT 1406-6-7-00	MPT 1406-9-7-00	MPT 1406-15-7-00	MPT 1406-16-7-00	MPT 1406-23D-7-00	RINSATE BLANK	TRIP BLANK	Cleanup Target Level or MCL
m,p-xylene, ug/l	4.3	4.2	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
p-xylene, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	
Trichlorofluoromethane, ug/l	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	*	< 1.00	< 1.00	< 1.00	

Notes: - NA = Not Analyzed

- * Well contained 1.24' of free product petroleum - not sampled.
- ** Detection limit exceeds regulatory limit.
- Shaded value indicates regulatory limit exceeded.

ATTACHMENT 2

DATA SUMMARY MAP OF MONITORING WELL ANALYTICAL RESULTS

ATTACHMENT 3

NAVSTA MAYPORT FREE PRODUCT MONITORING REPORTS



DEPARTMENT OF THE NAVY

NAVAL STATION
MAYPORT, FLORIDA 32228-0112

IN REPLY REFER TO:

5090.16

Ser N4E446 2,000

OCT 16 2000

Mr. Jim Cason
Technical Review Section
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Cason:

SUBJECT: QUARTERLY FREE PRODUCT MONITORING OF ALPHA-DELTA PIERS,
NAVAL STATION MAYPORT

Naval Station (NAVSTA) Mayport submits the quarterly Free Product Recovery Alpha-Delta Piers monitoring and recovery results as an enclosure. During the fourth quarter of fiscal year 2000 monitoring, 0.003 gallons of product were recovered from well MPT-1406-16. The utility manholes were not checked during this quarter. Since monitoring began in May 1998, a total of 11.027 gallons of product has been recovered.

NAVSTA Mayport requests authorization to stop monitoring well MPT-1406-6. This well has shown no product since monitoring began in 1998.

If you have any questions, my point of contact is Mr. Randy Bishop, N4E4, at 904-270-6730 x203.

Sincerely,

CHERYL L. MITCHELL
Director, Environmental Division
By direction of the
Commanding Officer

Enclosure (1)

Copy to: (w/o encl)
Commander, Navy Region Southeast (N46E)
Southern Division, Naval Facilities Engineering Command (Code
1848)

ATTACHMENT 4

TABLE 2 - FIELD WATER QUALITY PARAMETERS (12 OCTOBER 2000)

TABLE 2
FIELD WATER QUALITY PARAMETERS
ALPHA-DELTA PIERS
MAYPORT NAVAL STATION
MAYPORT, FLORIDA
12 OCTOBER 2000

Well No.	pH	Specific Conductance (umhos/cm)	Temperature (Degrees Celsius)
MPT-1406-4	7.13	1584	33.4
MPT-1406-5	7.36	918	27.8
MPT-1406-6	7.12	831	27.5
MPT-1406-9	7.40	1030	26.5
MPT-1406-15	7.41	724	28.1
MPT-1406-16	NS	NS	NS
MPT-1406-23D	7.32	810	25.0

Note: Well MPT-1406-16 not sampled due to 1.24' of free product petroleum.

ATTACHMENT 5

LABORATORY ANALYTICAL RESULTS (12 OCTOBER 2000)

TestAmerica

INCORPORATED

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: MPT-1406-230-10-00
Lab Number: 00-F21213
Date Collected: 10/12/00
Time Collected: 13:25
Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	< 0.20	U,J1	mg/l	0.20	1	10/19/00	12:56	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	< 3.00	U	ug/l	3.00	1	10/17/00	16:41	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	16:41	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	16:41	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	16:41	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	16:41	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	16:41	JLS	8270C	3451
Fluoranthene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Fluorene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	16:41	JLS	8270C	3451
Naphthalene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Phenanthrene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	16:41	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	12:09	CTH	8260B	3083
Acetonitrile	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	12:09	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	12:09	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	12:09	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	12:09	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dilution Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	12:09	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	12:09	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	12:09	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Hexachloroethane	< 1.00	U	ug/l	2.00	1	10/16/00	12:09	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	12:09	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	12:09	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	12:09	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	12:09	CTH	8260B	3083
Methacrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	12:09	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	12:09	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	12:09	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	12:09	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	12:09	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:09	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	81 #	82.0 - 142
FL PRO: Pentacosane	89	50.0 - 140
VOA: 1,2-Dichloroethane-d4	96	82.0 - 130
VOA: Toluene-d8	108	84.0 - 119
VOA: 4-Bromofluorobenzene	99	84.0 - 121
VOA: Dibromofluoromethane	105	82.0 - 136
8270C: Nitrobenzene-d5	59	35.0 - 114
8270C: 2-Fluorobiphenyl	58	43.0 - 116
8270C: Terphenyl-d14	88	16.0 - 122

J1 - Surrogate recovery limits have been exceeded.
For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
For 8270C insufficient sample for MSD. LCS/LCSD substituted.
For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By:



Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Test America

INCORPORATED

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: MPT-1406-6-10-00
Lab Number: 00-F21214
Date Collected: 10/12/00
Time Collected: 13:56
Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	0.90		mg/l	0.20	1	10/19/00	13:28	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	< 3.00	U	ug/l	3.00	1	10/17/00	17:19	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	17:19	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	17:19	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	17:19	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	17:19	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	17:19	JLS	8270C	3451
Fluoranthene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Fluorene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	17:19	JLS	8270C	3451
Naphthalene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Phenanthrene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	17:19	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	12:35	CTH	8260B	3083
Acetonitrile	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	12:35	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	12:35	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	12:35	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	12:35	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	12:35	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	12:35	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	12:35	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Hexachloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	12:35	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	12:35	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	12:35	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	12:35	CTH	8260B	3083
Methacrylonitrile	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	12:35	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	12:35	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	12:35	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	12:35	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	12:35	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	96	82.0 - 142
FL PRO: Pentacosane	101	50.0 - 140
VOA: 1,2-Dichloroethane-d4	97	82.0 - 130
VOA: Toluene-d8	110	84.0 - 119
VOA: 4-Bromofluorobenzene	99	84.0 - 121
VOA: Dibromofluoromethane	105	82.0 - 136
8270C: Nitrobenzene-d5	45	35.0 - 114
8270C: 2-Fluorobiphenyl	44	43.0 - 116
8270C: Terphenyl-d14	61	16.0 - 122

For Florida Pro insufficient sample for MS/MSD. LCS/LSCD substituted.
For 8270C insufficient sample for MSD. LCS/LCSD substituted.
For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By:



Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Test America

INCORPORATED

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: MPT-1406-9-10-00
Lab Number: 00-F21215
Date Collected: 10/12/00
Time Collected: 14:32
Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	< 0.20	U,J1	mg/l	0.20	1	10/19/00	14:00	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	< 3.00	U	ug/l	3.00	1	10/17/00	17:58	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	17:58	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	17:58	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	17:58	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	17:58	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	17:58	JLS	8270C	3451
Fluoranthene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Fluorene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	17:58	JLS	8270C	3451
Naphthalene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Phenanthrene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	17:58	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	13:00	CTH	8260B	3083
Acetonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	13:00	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:00	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	13:00	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	13:00	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	13:00	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Hexachloroethane	< 2.00	U	ug/l	2.00	1	10/16/00	13:00	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	13:00	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:00	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	13:00	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
Methacrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:00	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:00	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	13:00	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:00	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	77 #	82.0 - 142
FL PRO: Pentacosane	80	50.0 - 140
VOA: 1,2-Dichloroethane-d4	99	82.0 - 130
VOA: Toluene-d8	110	84.0 - 119
VOA: 4-Bromofluorobenzene	98	84.0 - 121
VOA: Dibromofluoromethane	106	82.0 - 136
8270C: Nitrobenzene-d5	49	35.0 - 114
8270C: 2-Fluorobiphenyl	49	43.0 - 116
8270C: Terphenyl-d14	87	16.0 - 122

J1 - Surrogate recovery limits have been exceeded.
For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
For 8270C insufficient sample for MSD. LCS/LCSD substituted.
For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By: 
Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: MPT-1406-4-10-00
Lab Number: 00-F21216
Date Collected: 10/12/00
Time Collected: 15:05
Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	2.06		mg/l	0.20	1	10/19/00	14:32	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	53.20	J1	ug/l	3.00	1	10/18/00	9:19	JLS	8270C	3451
Acenaphthylene	< 5.00	U,J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Anthracene	< 5.00	U,J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U,J1	ug/l	0.20	1	10/18/00	9:19	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U,J1	ug/l	0.20	1	10/18/00	9:19	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U,J1	ug/l	0.20	1	10/18/00	9:19	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U,J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U,J1	ug/l	0.50	1	10/18/00	9:19	JLS	8270C	3451
Chrysene	< 5.00	U,J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U,J1	ug/l	0.20	1	10/18/00	9:19	JLS	8270C	3451
Fluoranthene	10.90	J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Fluorene	45.10	J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U,J1	ug/l	0.20	1	10/18/00	9:19	JLS	8270C	3451
Naphthalene	236.0	J1	ug/l	5.00	1	10/18/00	15:05	JLS	8270C	3451
Phenanthrene	25.20	J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
Pyrene	5.47	J1	ug/l	5.00	1	10/18/00	9:19	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	13:26	CTH	8260B	3083
Acetonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:26	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	13:26	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:26	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Benzene	3.25		ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:26	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	13:26	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	13:26	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	13:26	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	13:26	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Ethylbenzene	5.43		ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Hexachloroethane	< 2.00	U	ug/l	2.00	1	10/16/00	13:26	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	13:26	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:26	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	13:26	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	13:26	CTH	8260B	3083
Methacrylonitrile	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:26	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	13:26	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:26	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	13:26	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Toluene	3.28		ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Xylenes	8.30		ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	4.10	I	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
m,p-Xylene	4.30		ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:26	CTH	8260B	3083

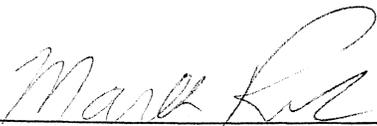
Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	89	82.0 - 142
FL PRO: Pentacosane	91	50.0 - 140
VOA: 1,2-Dichloroethane-d4	97	82.0 - 130
VOA: Toluene-d8	107	84.0 - 119
VOA: 4-Bromofluorobenzene	98	84.0 - 121
VOA: Dibromofluoromethane	104	82.0 - 136
8270C: Nitrobenzene-d5	40	35.0 - 114
8270C: 2-Fluorobiphenyl	39 #	43.0 - 116
8270C: Terphenyl-d14	74	16.0 - 122

J1 - Surrogate recovery limits have been exceeded.
For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
For 8270C insufficient sample for MSD. LCS/LCSD substituted.
For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By:



Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: MPT-1406-15-10-00
Lab Number: 00-F21217
Date Collected: 10/12/00
Time Collected: 15:37
Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	< 0.20	U	mg/l	0.20	1	10/19/00	15:04	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	13.20		ug/l	3.00	1	10/17/00	19:16	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	19:16	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	19:16	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	19:16	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	19:16	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	19:16	JLS	8270C	3451
Fluoranthene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Fluorene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	19:16	JLS	8270C	3451
Naphthalene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Phenanthrene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	19:16	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	13:51	CTH	8260B	3083
Acetonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	13:51	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:51	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	13:51	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	13:51	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	13:51	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Hexachloroethane	< 2.00	U	ug/l	2.00	1	10/16/00	13:51	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	13:51	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:51	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	13:51	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
Methacrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	13:51	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	13:51	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	13:51	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	13:51	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	82	82.0 - 142
FL PRO: Pentacosane	93	50.0 - 140
VOA: 1,2-Dichloroethane-d4	97	82.0 - 130
VOA: Toluene-d8	108	84.0 - 119
VOA: 4-Bromofluorobenzene	97	84.0 - 121
VOA: Dibromofluoromethane	104	82.0 - 136
8270C: Nitrobenzene-d5	67	35.0 - 114
8270C: 2-Fluorobiphenyl	68	43.0 - 116
8270C: Terphenyl-d14	64	16.0 - 122

For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
 For 8270C insufficient sample for MSD. LCS/LCSD substituted.
 For 8260B insufficient sample for MS/MSD, LCS/LCSD substituted.

Approved By: _____

Mark Rusler
 Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
 100 WEST OGLETHORPE AVE.
 SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
 Project: ALPHA DELTA PIER
 Sample ID: MPT-1406-5-10-00
 Lab Number: 00-F21218
 Date Collected: 10/12/00
 Time Collected: 17:30
 Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	< 0.20	U, J1	mg/l	0.20	1	10/19/00	15:36	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	< 3.00	U	ug/l	3.00	1	10/17/00	19:55	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	19:55	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	19:55	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	19:55	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	19:55	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	19:55	JLS	8270C	3451
Fluoranthene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Fluorene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	19:55	JLS	8270C	3451
Naphthalene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Phenanthrene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	19:55	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	14:43	CTH	8260B	3083
Acetonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	14:43	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	14:43	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	14:43	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	14:43	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	14:43	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	14:43	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	14:43	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	14:43	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Hexachloroethane	< 2.00	U	ug/l	2.00	1	10/16/00	14:43	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	14:43	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	14:43	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	14:43	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	14:43	CTH	8260B	3083
Methacrylonitrile	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	14:43	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	14:43	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	14:43	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	14:43	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	14:43	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	80 #	82.0 - 142
FL PRO: Pentacosane	86	50.0 - 140
VOA: 1,2-Dichloroethane-d4	105	82.0 - 130
VOA: Toluene-d8	109	84.0 - 119
VOA: 4-Bromofluorobenzene	98	84.0 - 121
VOA: Dibromofluoromethane	106	82.0 - 136
8270C: Nitrobenzene-d5	64	35.0 - 114
8270C: 2-Fluorobiphenyl	64	43.0 - 116
8270C: Terphenyl-d14	72	16.0 - 122

J1 - Surrogate recovery limits have been exceeded.
 For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
 For 8270C insufficient sample for MSD. LCS/LCSD substituted.
 For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By: 

Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
 100 WEST OGLETHORPE AVE.
 SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
 Project: ALPHA DELTA PIER
 Sample ID: MPT-1406-DUP1-10-00
 Lab Number: 00-F21219
 Date Collected: 10/12/00
 Time Collected: 12:10
 Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	1.99	J1	mg/l	0.20	1	10/19/00	16:08	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	58.70		ug/l	3.00	1	10/17/00	20:33	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	20:33	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	20:33	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	20:33	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	20:33	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	20:33	JLS	8270C	3451
Fluoranthene	6.57		ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Fluorene	41.90		ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	20:33	JLS	8270C	3451
Naphthalene	258.0		ug/l	5.00	1	10/18/00	15:44	JLS	8270C	3451
Phenanthrene	17.20		ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	20:33	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	15:10	CTH	8260B	3083
Acetonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	15:10	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Benzene	3.25		ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	15:10	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	15:10	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	15:10	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	15:10	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Ethylbenzene	5.50		ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Hexachloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	15:10	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	15:10	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	15:10	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
Methacrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	15:10	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	15:10	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	15:10	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Toluene	3.02		ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Xylenes	8.20		ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083

LABORATORY REPORT CONTINUED

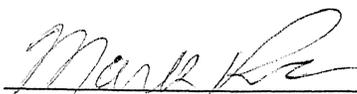
Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	4.00	I	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
m,p-Xylene	4.20		ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:10	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	79 #	82.0 - 142
FL PRO: Pentacosane	85	50.0 - 140
VOA: 1,2-Dichloroethane-d4	95	82.0 - 130
VOA: Toluene-d8	108	84.0 - 119
VOA: 4-Bromofluorobenzene	98	84.0 - 121
VOA: Dibromofluoromethane	104	82.0 - 136
8270C: Nitrobenzene-d5	46	35.0 - 114
8270C: 2-Fluorobiphenyl	45	43.0 - 116
8270C: Terphenyl-d14	38	16.0 - 122

J1 - Surrogate recovery limits have been exceeded.
For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
For 8270C insufficient sample for MSD. LCS/LCSD substituted.
For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

TestAmerica

INCORPORATED

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

ATTN: Mark Harvison

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: MPT-1406-BLK1-10-00
Lab Number: 00-F21220
Date Collected: 10/12/00
Time Collected: 17:45
Date Received: 10/13/00

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Florida Pro	< 0.20	U	mg/l	0.20	1	10/19/00	17:12	GB	FL PRO	3589
EXTRACTABLE ORGANICS										
Acenaphthene	< 3.00	U	ug/l	3.00	1	10/17/00	22:06	JLS	8270C	3451
Acenaphthylene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Anthracene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Benzo(a)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	22:06	JLS	8270C	3451
Benzo(a)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	22:06	JLS	8270C	3451
Benzo(b)fluoranthene	< 0.20	U	ug/l	0.20	1	10/17/00	22:06	JLS	8270C	3451
Benzo(g,h,i)perylene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Benzo(k)fluoranthene	< 0.50	U	ug/l	0.50	1	10/17/00	22:06	JLS	8270C	3451
Chrysene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Dibenz(a,h)anthracene	< 0.20	U	ug/l	0.20	1	10/17/00	22:06	JLS	8270C	3451
Fluoranthene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Fluorene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Indeno(1,2,3-cd)pyrene	< 0.20	U	ug/l	0.20	1	10/17/00	22:06	JLS	8270C	3451
Naphthalene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Phenanthrene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
Pyrene	< 5.00	U	ug/l	5.00	1	10/17/00	22:06	JLS	8270C	3451
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	15:35	CTH	8260B	3083
Acetonitrile	< 1.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	15:35	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	15:35	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	15:35	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Chloroprene	< 1.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	15:35	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	15:35	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Hexachloroethane	< 1.00	U	ug/l	2.00	1	10/16/00	15:35	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	15:35	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	15:35	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	15:35	CTH	8260B	3083
Isobutyl alcohol	< 1.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
Methacrylonitrile	< 1.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l		1	10/16/00	15:35	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	15:35	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
Propionitrile	< 1.00	U	ug/l	5.00	1	10/16/00	15:35	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	15:35	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	15:35	CTH	8260B	3083

Sample Extraction Data

Parameter	Wt/Vol		Date	Analyst	Method
	Extracted	Extract Vol			
BNA's	1000 ml	1.0 ml	10/16/00	KWV	3520

Surrogate	% Recovery	Target Range
FL PRO: o-Terphenyl	82	82.0 - 142
FL PRO: Pentacosane	84	50.0 - 140
VOA: 1,2-Dichloroethane-d4	97	82.0 - 130
VOA: Toluene-d8	109	84.0 - 119
VOA: 4-Bromofluorobenzene	99	84.0 - 121
VOA: Dibromofluoromethane	105	82.0 - 136
8270C: Nitrobenzene-d5	54	35.0 - 114
8270C: 2-Fluorobiphenyl	54	43.0 - 116
8270C: Terphenyl-d14	84	16.0 - 122

For Florida Pro insufficient sample for MS/MSD. LCS/LCSD substituted.
 For 8270C insufficient sample for MSD. LCS/LCSD substituted.
 For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

Approved By: Mark Rusler
 Mark Rusler, Director of Technical Services
 K.R. Vault, Client Services Manager
 Elizabeth A. Rich, Q.A. Officer

Test America

INCORPORATED

October 23, 2000

CLIENT: USACE-SAVANNAH DISTRICT
100 WEST OGLETHORPE AVE.
SAVANNAH, GA 31402

Order Number: 7091
Project: ALPHA DELTA PIER
Sample ID: TRIP BLANK
Lab Number: 00-F21221
Date Received: 10/13/00

ATTN: Mark Harvison

LABORATORY REPORT

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	< 20.0	U	ug/l	20.0	1	10/16/00	16:01	CTH	8260B	3083
Acetonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
Acrolein	< 10.0	U	ug/l	10.0	1	10/16/00	16:01	CTH	8260B	3083
Acrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
Allyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Benzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Bromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Bromoform	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Bromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
2-Butanone	< 10.0	U	ug/l	10.0	1	10/16/00	16:01	CTH	8260B	3083
Carbon disulfide	< 2.00	U	ug/l	2.00	1	10/16/00	16:01	CTH	8260B	3083
Carbon tetrachloride	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Chlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Chloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Chloroform	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Chloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Chloroprene	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
1,2-Dibromo-3-chloropropane	< 2.00	U	ug/l	2.00	1	10/16/00	16:01	CTH	8260B	3083
Dibromochloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,2-Dibromoethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Dibromomethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
trans-1,4-Dichloro-2-butene	< 2.00	U	ug/l	2.00	1	10/16/00	16:01	CTH	8260B	3083
1,2-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,3-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,4-Dichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Dichlorodifluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,1-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,2-Dichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,1-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
cis-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
trans-1,2-Dichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,3-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
2,2-Dichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,1-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
cis-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
trans-1,3-Dichloropropene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083

LABORATORY REPORT CONTINUED

Analyte	Result	Q	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Ethylbenzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Ethyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Hexachloroethane	< 2.00	U	ug/l	2.00	1	10/16/00	16:01	CTH	8260B	3083
Hexachlorobutadiene	< 10.0	U	ug/l	10.0	1	10/16/00	16:01	CTH	8260B	3083
2-Hexanone	< 10.0	U	ug/l	10.0	1	10/16/00	16:01	CTH	8260B	3083
Iodomethane	< 2.00	U	ug/l	2.00	1	10/16/00	16:01	CTH	8260B	3083
Isobutyl alcohol	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
Methacrylonitrile	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
Methyl methacrylate	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
4-Methyl-2-pentanone	< 10.0	U	ug/l	10.0	1	10/16/00	16:01	CTH	8260B	3083
Methylene chloride	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
Propionitrile	< 5.00	U	ug/l	5.00	1	10/16/00	16:01	CTH	8260B	3083
Styrene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,1,2,2-Tetrachloroethane	< 0.200	U	ug/l	0.200	1	10/16/00	16:01	CTH	8260B	3083
Tetrachloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Toluene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,2,4-Trichlorobenzene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,1,1-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,1,2-Trichloroethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Trichloroethene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
1,2,3-Trichloropropane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Vinyl acetate	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Vinyl chloride	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Xylenes	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Bromodichloromethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
o-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
m,p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
p-Xylene	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083
Trichlorofluoromethane	< 1.00	U	ug/l	1.00	1	10/16/00	16:01	CTH	8260B	3083

Surrogate	% Recovery	Target Range
VOA: 1,2-Dichloroethane-d4	97	82.0 - 130
VOA: Toluene-d8	107	84.0 - 119
VOA: 4-Bromofluorobenzene	98	84.0 - 121
VOA: Dibromofluoromethane	104	82.0 - 136

For 8260B insufficient sample for MS/MSD. LCS/LCSD substituted.

October 23, 2000
CLIENT: USACE-SAVANNAH DISTRICT

Page 27

Sample ID: TRIP BLANK
Order No.: 7091
Lab No.: 00-F21221

LABORATORY REPORT CONTINUED

Approved By: 

Mark Rusler, Director of Technical Services
K.R. Vault, Client Services Manager
Elizabeth A. Rich, Q.A. Officer

Florida Certification Number: E83012 / CQAP990129

PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	Units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Batch	Sample Spiked
Florida Pro	mg/l	< 0.20	0.73	0.85	85.88	41.0 - 101	3589	00-LCS
Acenaphthene	ug/l	< 3.00	35.06	50.00	70.12	47.0 - 145	3451	00-LCS
Acenaphthene	ug/l	53.20	122.3	60.00	115.17	47.0 - 145	3451	00-F21216
Acenaphthene	ug/l	< 3.00	63.00	100.0	63.00	47.0 - 145	3451	00-F21214
Pyrene	ug/l	< 5.00	40.30	50.00	80.60	52.0 - 115	3451	00-LCS
Pyrene	ug/l	5.47	64.03	60.00	97.60	52.0 - 115	3451	00-F21216
Pyrene	ug/l	< 5.00	98.00	100.0	98.00	52.0 - 115	3451	00-F21214
Benzene	ug/l	< 1.00	64.0	50.0	128.00	37.0 - 151	3083	00-LCS
Chlorobenzene	ug/l	< 1.00	56.0	50.0	112.00	37.0 - 160	3083	00-LCS
1,1-Dichloroethene	ug/l	< 1.00	62.0	50.0	124.00	0.0 - 234	3083	00-LCS
Toluene	ug/l	< 1.00	64.0	50.0	128.00	47.0 - 150	3083	00-LCS
Trichloroethene	ug/l	< 1.00	62.0	50.0	124.00	71.0 - 157	3083	00-LCS

Matrix Spike Duplicate

Analyte	Units	Orig. Val.	Duplicate	RPD	Limit	QC Batch	Sample Duplicated
Florida Pro	mg/l	0.73	0.85	15.19	20.0	3589	00-LCSD
Acenaphthene	ug/l	35.06	37.60	6.99	50.0	3451	00-LCSD
Pyrene	ug/l	40.30	51.48	24.36	50.0	3451	00-LCSD
Benzene	ug/l	64.0	65.0	1.55	30.0	3083	00-LCSD
Chlorobenzene	ug/l	56.0	59.0	5.22	30.0	3083	00-LCSD
1,1-Dichloroethene	ug/l	62.0	63.0	1.60	30.0	3083	00-LCSD
Toluene	ug/l	64.0	65.0	1.55	30.0	3083	00-LCSD
Trichloroethene	ug/l	62.0	64.0	3.17	30.0	3083	00-LCSD

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Florida Pro	< 0.20	mg/l	3589
Acenaphthene	< 3.00	ug/l	3451
Acenaphthylene	< 5.00	ug/l	3451
Anthracene	< 5.00	ug/l	3451
Benzo(a)anthracene	< 0.20	ug/l	3451
Benzo(a)pyrene	< 0.20	ug/l	3451
Benzo(b)fluoranthene	< 0.20	ug/l	3451
Benzo(g,h,i)perylene	< 5.00	ug/l	3451
Benzo(k)fluoranthene	< 0.50	ug/l	3451
Chrysene	< 5.00	ug/l	3451
Dibenz(a,h)anthracene	< 0.20	ug/l	3451

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Fluoranthene	< 5.00	ug/l	3451
Fluorene	< 5.00	ug/l	3451
Indeno(1,2,3-cd)pyrene	< 0.20	ug/l	3451
Naphthalene	< 5.00	ug/l	3451
Phenanthrene	< 5.00	ug/l	3451
Pyrene	< 5.00	ug/l	3451
Acetone	< 20.0	ug/l	3083
Acetonitrile	< 1.00	ug/l	3083
Acrolein	< 10.0	ug/l	3083
Acrylonitrile	< 5.00	ug/l	3083
Allyl chloride	< 1.00	ug/l	3083
Benzene	< 1.00	ug/l	3083
Bromochloromethane	< 1.00	ug/l	3083
Bromoform	< 1.00	ug/l	3083
Bromomethane	< 1.00	ug/l	3083
2-Butanone	< 10.0	ug/l	3083
Carbon disulfide	< 2.00	ug/l	3083
Carbon tetrachloride	< 1.00	ug/l	3083
Chlorobenzene	< 1.00	ug/l	3083
Chloroethane	< 1.00	ug/l	3083
Chloroform	1.55	ug/l	3083
Chloromethane	< 1.00	ug/l	3083
Chloroprene	< 1.00	ug/l	3083
1,2-Dibromo-3-chloropropane	< 2.00	ug/l	3083
Dibromochloromethane	< 1.00	ug/l	3083
1,2-Dibromoethane	< 1.00	ug/l	3083
Dibromomethane	< 1.00	ug/l	3083
trans-1,4-Dichloro-2-butene	< 2.00	ug/l	3083
1,2-Dichlorobenzene	< 1.00	ug/l	3083
1,3-Dichlorobenzene	< 1.00	ug/l	3083
1,4-Dichlorobenzene	< 1.00	ug/l	3083
Dichlorodifluoromethane	< 1.00	ug/l	3083
1,1-Dichloroethane	< 1.00	ug/l	3083
1,2-Dichloroethane	< 1.00	ug/l	3083
1,1-Dichloroethene	< 1.00	ug/l	3083
cis-1,2-Dichloroethene	< 1.00	ug/l	3083
trans-1,2-Dichloroethene	< 1.00	ug/l	3083
1,2-Dichloropropane	< 1.00	ug/l	3083
1,3-Dichloropropane	< 1.00	ug/l	3083
2,2-Dichloropropane	< 1.00	ug/l	3083
1,1-Dichloropropene	< 1.00	ug/l	3083

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
-----	-----	-----	-----
cis-1,3-Dichloropropene	< 1.00	ug/l	3083
trans-1,3-Dichloropropene	< 1.00	ug/l	3083
Ethylbenzene	< 1.00	ug/l	3083
Ethyl methacrylate	< 1.00	ug/l	3083
Hexachloroethane	< 1.00	ug/l	3083
Hexachlorobutadiene	< 10.0	ug/l	3083
2-Hexanone	< 10.0	ug/l	3083
Iodomethane	< 2.00	ug/l	3083
Isobutyl alcohol	< 1.00	ug/l	3083
Methacrylonitrile	< 1.00	ug/l	3083
Methyl methacrylate	< 1.00	ug/l	3083
4-Methyl-2-pentanone	< 10.0	ug/l	3083
Methylene chloride	< 5.00	ug/l	3083
Propionitrile	< 1.00	ug/l	3083
Styrene	< 1.00	ug/l	3083
1,1,2,2-Tetrachloroethane	< 1.00	ug/l	3083
Tetrachloroethene	< 1.00	ug/l	3083
Toluene	< 1.00	ug/l	3083
1,2,4-Trichlorobenzene	< 1.00	ug/l	3083
1,1,1-Trichloroethane	< 1.00	ug/l	3083
1,1,2-Trichloroethane	< 1.00	ug/l	3083
Trichloroethene	< 1.00	ug/l	3083
1,2,3-Trichloropropane	< 1.00	ug/l	3083
Vinyl acetate	< 1.00	ug/l	3083
Vinyl chloride	< 1.00	ug/l	3083
Xylenes	< 1.00	ug/l	3083
Bromodichloromethane	< 1.00	ug/l	3083
o-Xylene	< 1.00	ug/l	3083
m,p-Xylene	< 1.00	ug/l	3083
p-Xylene	< 1.00	ug/l	3083
Trichlorofluoromethane	< 1.00	ug/l	3083

TestAmerica

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 [800] 765-0980 • [615] 726-0177 • Fax [615] 726-3404

2 of 2 8B-037802

ANALYSIS REQUEST

Company _____ Client Number _____
 Address _____
 City _____ St _____ Zip _____
 Sampler Sign/Print *[Signature]*
 Project Name ALPHA DELTA PIER /Proj. # _____
 Facility Location (City, St) JACKSONVILLE FLA
 Project Manager MARK HANVISON
 PO Number 800 0156 /Fac./Site I.D. _____
 Phone Number _____ Fax Number _____

B.C. # <small>(Lab Use Only)</small>		# CONTAINERS	Matrix							Method Preserved				Sampling			
Field Sample ID	SAI Lab# <small>(Lab Use Only)</small>		WATER	SOIL	AIR	SLUDGE	PRODUCT	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	IOE	UNPRESERVED	OTHER (SPECIFY)	DATE	TIME
<u>Trip Basin</u>	<u>F21221</u>	<u>3</u>	<u>X</u>										<u>X</u>				

Type	G= Grab	C= Composite	D= Discrete
BTEX	MTBE <input type="checkbox"/>	602 <input type="checkbox"/>	IPE <input type="checkbox"/>
		8021 <input type="checkbox"/>	Other <input type="checkbox"/>
GRO	OA-1 <input type="checkbox"/>		
TPH	Low <input type="checkbox"/>	MASS	VPH <input type="checkbox"/>
			Other <input type="checkbox"/>
DRO	OA-2 <input type="checkbox"/>		TPH High <input type="checkbox"/>
TN	EPH <input type="checkbox"/>		MASSEPH <input type="checkbox"/>
			Other <input type="checkbox"/>
TPH	418.1 <input type="checkbox"/>		TX 1005 <input type="checkbox"/>
			Other <input type="checkbox"/>
Oil and Grease	413.1 <input type="checkbox"/>		1664 <input type="checkbox"/>
			9070/1 <input type="checkbox"/>
			Other <input type="checkbox"/>
EDB	504.1 <input type="checkbox"/>		601 <input type="checkbox"/>
			8021 <input type="checkbox"/>
			Other <input type="checkbox"/>
Purgeable Halocarbons	601 <input type="checkbox"/>		8021 <input type="checkbox"/>
Purgeable Aromatics	602 <input type="checkbox"/>		8021 <input type="checkbox"/>
Lead	6010 <input type="checkbox"/>		200.7 <input type="checkbox"/>
			Other <input type="checkbox"/>
PAH (GC, GC/MS)	610 <input type="checkbox"/>		625 <input type="checkbox"/>
			8100 <input type="checkbox"/>
			8270 <input type="checkbox"/>
PAH (HPLC)	610 <input type="checkbox"/>		8310 <input type="checkbox"/>
Metals	PP <input type="checkbox"/>		RCRA <input type="checkbox"/>
			TAL <input type="checkbox"/>
VOA	624 <input type="checkbox"/>		8260 <input type="checkbox"/>
Extractables	625 <input type="checkbox"/>		8270 <input type="checkbox"/>
PCB's	8081 <input type="checkbox"/>		8082 <input type="checkbox"/>
Pesticides, Organochlorine	608 <input type="checkbox"/>		8081 <input type="checkbox"/>
Pesticides, Organophosphorus	614 <input type="checkbox"/>		8141 <input type="checkbox"/>
Herbicides	2,4-D, 2,4,5-TP <input type="checkbox"/>		Full List <input type="checkbox"/>
TCLP	Metals <input type="checkbox"/>		VOA <input type="checkbox"/>
	Lead <input type="checkbox"/>		SVOA <input type="checkbox"/>
			P/H <input type="checkbox"/>
			Full <input type="checkbox"/>
Reactivity	<input type="checkbox"/>		Corrosivity <input type="checkbox"/>
			Ignitability <input type="checkbox"/>
Flash Point	Closed Cup <input type="checkbox"/>		Open Cup <input type="checkbox"/>
TOC	415.1 <input type="checkbox"/>		9060 <input type="checkbox"/>
			Other <input type="checkbox"/>

TAT
 Standard
 3-Day
 2-Day
 Next Day
 Other: _____

SPECIAL DETECTION LIMITS

SPECIAL REPORTING REQUIREMENTS

REMARKS MEET FLA REQUIREMENTS.

SAI PROJECT or QUOTE NUMBER
 (to insure correct Analysis and Billing)

Temperature Received 3C
 Airbill Number _____

CUSTODY RECORD	Relinquished by Sampler:	Date	Time	Received by:	Date	Time
	<i>[Signature]</i>	<u>10/13/00</u>	<u>10:50</u>	<i>[Signature]</i>	<u>10-13-00</u>	<u>9:50</u>
	Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Laboratory	Date	Time	

APPENDIX D

MONITORING WELL AND SOIL BORING SURVEY DATA

**U. S. NAVAL STATION MAYPORT, FLORIDA
GROUP 4, SWMU,s 47, 53, 55 & FOXTROT PEIR
MONITORING WELLS & SOIL BORINGS**

March 28, 2001

NAME	NORTHING	EASTING	TOC(88)	GRD(88)	TOC(29)	GRD(29)
MPT-47-DPW01S	2,202,608.67	527,359.10	6.72	7.04	7.83	8.15
MPT-47-DPW02S	2,202,503.60	527,388.17	6.83	7.06	7.94	8.17
MPT-47-DPW03S	2,202,216.26	527,470.56	6.92	7.06	8.03	8.17
MPT-47-DPW04S	2,201,831.41	527,578.84	7.08	7.33	8.19	8.44
MPT-47-DPW05S	2,205,131.57	525,600.87	7.30	7.51	8.41	8.62
MPT-47-DPW06S	2,205,098.34	525,726.75	6.87	7.18	7.98	8.29
MPT-47-DPW07S	2,205,064.53	525,896.03	7.41	7.55	8.52	8.66
MPT-47-DPW08S	2,205,034.07	526,021.77	7.29	7.58	8.40	8.69
MPT-47-DPW09S	2,205,053.60	526,211.82	10.31	10.61	11.42	11.72
MPT-47-DPW10S	2,205,029.32	526,339.94	10.43	10.73	11.54	11.84
MPT-47-DPW11S	2,204,978.96	526,563.40	10.35	10.72	11.46	11.83
MPT-47-DPW12S	2,204,952.36	526,672.96	10.30	10.76	11.41	11.87
MPT-47-DPW13S	2,204,765.32	527,436.00	10.03	10.32	11.14	11.43
MPT-47-DPW14S	2,204,718.40	527,613.02	9.96	10.31	11.07	11.42
MPT-47-DPW15S	2,204,689.38	527,730.72	9.80	10.21	10.91	11.32
MPT-47-DPW16S	2,204,649.47	527,918.40	9.92	10.17	11.03	11.28
MPT-47-DPW17S	2,202,304.92	526,170.26	7.56	7.83	8.67	8.94
MPT-47-DPW18S	2,202,672.47	527,704.51	8.00	8.27	9.11	9.38
MPT-47-DPW19S	2,203,026.08	528,016.09	7.19	7.35	8.30	8.46
MPT-47-DPW20S	2,205,504.02	525,888.70	11.17	11.42	12.28	12.53
MPT-53-DPW01S	2,199,876.38	527,895.11	4.93	5.31	6.04	6.42
MPT-53-DPW02S	2,199,850.23	529,145.51	3.25	3.35	4.36	4.46
MPT-53-DPW03S	2,201,495.28	523,792.72	7.85	8.22	8.96	9.33
MPT-55-SS01-01	2,202,191.94	528,985.02		9.93		11.04
MPT-55-SS02-01	2,202,192.86	529,052.35		9.30		10.41
MPT-55-SS04-01	2,203,246.31	529,152.65		6.93		8.04
MPT-55-SS05-01	2,201,169.20	529,209.67		4.40		5.51
MPT-55-SS06-01	2,201,134.84	527,453.23		4.94		6.05
MPT-55-SS07-01	2,201,260.16	526,599.98		3.83		4.94
MPT-55-SS08-01	2,203,573.45	531,261.31		5.74		6.85
MPT-55-SS09-01	2203007.29312	527,920.84		2.65		3.76
MPT-55-SW/SD01	2,200,955.25	529,197.81		4.32		5.43
MPT-55-SW/SD02-01	2,202,178.72	527,612.00		3.08		4.19
MPT-55-SW/SD03-01	2,202,835.61	527,499.88		3.08		4.19
MPT-FP-DPW01D	2,203,049.51	527,668.70	7.60	7.78	8.71	8.89
MPT-FP-DPW01I	2,203,049.33	527,666.70	7.59	7.78	8.70	8.89
MPT-FP-DPW01S	2,203,048.34	527,665.66	7.61	7.78	8.72	8.89
MPT-G4-B02	2,202,433.83	526,363.68		6.03		7.14
MPT-G4-B03	2,202,418.08	526,368.18		6.08		7.19
MPT-G4-B04	2,202,675.90	526,012.94		5.77		6.88
MPT-G4-B05	2,202,736.38	525,847.50		5.46		6.57
MPT-G4-B06	2,201,242.90	526,192.48		7.51		8.62
MPT-G4-B07	2,201,254.16	527,648.69		7.38		8.49

MPT-G4-B08	2,201,816.00	525,786.16		5.22		6.33
MPT-G4-B09	2,205,299.72	525,909.46		11.34		12.45
MPT-G4-B18	2,204,812.76	527,228.51		8.88		9.99
MPT-G4-B19	2,205,119.67	526,714.59		11.41		12.52
MPT-G4-B20	2,204,991.73	527,256.40		10.23		11.34
MPT-G4-B26	2,202,925.97	525,545.73		6.85		7.96
MPT-G4-B27	2,203,038.64	525,171.29		6.96		8.07
MPT-G4-B28	2,203,023.98	528,014.75		7.49		8.60
MPT-G4-B30	2,203,017.75	528,349.51		9.77		10.88
MPT-G4-B31	2,203,031.15	528,803.64		11.06		12.17
MPT-G4-B32	2,203,029.35	528,627.66		9.45		10.56
MPT-G4-B33	2,202,866.55	527,489.73		7.18		8.29
MPT-G4-B34	2,201,611.99	527,643.26		7.14		8.25
MPT-G4-B35	2,202,090.53	527,506.47		7.31		8.42
MPT-G4-B40	2,201,611.48	527,654.35		6.88		7.99
MPT-G4-B41	2,199,901.37	527,099.48		7.37		8.48
MPT-G4-B42	2,199,895.42	527,457.24		7.02		8.13
MPT-G4-B46	2,199,848.52	529,188.78		2.75		3.86
MPT-G4-B47	2,199,861.68	528,757.14		2.63		3.74
MPT-G4-B48	2,199,854.19	529,011.62		2.94		4.05
MPT-G4-B49	2,199,850.08	529,170.86		3.24		4.35
MPT-G4-B50	2,201,553.63	523,848.69		8.76		9.87
MPT-G4-B51	2,201,616.68	523,907.32		8.72		9.83
MPT-G4-B52	2,201,749.27	524,030.89		8.95		10.06
MPT-G4-B53	2,201,888.63	524,160.69		9.89		11.00
MPT-G4-B54	2,201,678.64	524,107.55		9.86		10.97
MPT-G4-B55	2,202,011.88	524,553.02		8.24		9.35
MPT-G4-B56	2,201,592.64	524,610.99		7.60		8.71
MPT-G4-B57	2,201,339.86	524,536.01		6.17		7.28
MPT-G4-B58	2,201,034.10	524,097.74		5.59		6.70
MPT-G4-B59	2,201,383.23	523,674.67		7.58		8.69
MPT-G4-B60	2,201,668.71	523,850.85		7.89		9.00
MPT-G4-B61	2,203,019.97	528,021.70		7.82		8.93
MPT-G4-B62	2,203,013.39	528,023.56		8.03		9.14
MPT-G4-B63	2,203,028.42	528,023.73		7.43		8.54
MPT-G4-B64	2,203,021.42	528,008.79		7.41		8.52
MPT-G4-B66	2,201,630.33	527,716.65		7.28		8.39
MPT-G4-B67	2,201,788.99	527,718.11		6.56		7.67

NOTES

COORDINATE VALUES ARE FLORIDA STATE PLANE, EAST ZONE, NORTH AMERICAN DATUM OF 1983, 1990 ADJUSTMENT (NAD 83/90)

ELEVATIONS ARE MEAN SEA LEVEL, AND ARE GIVEN IN BOTH NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD 88), AND NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29)

REVISED 4/4/01

APPENDIX E
VALIDATED LABORATORY DATA

TO: T. HANSEN – PAGE 2
DATE: FEBRUARY 21, 2001

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Aluminum	33.7 µg/L	168.5 µg/L
Barium	0.5 µg/L	2.5 µg/L
Beryllium	0.4 µg/L	2.0 µg/L
Calcium ⁽¹⁾	72.5 µg/L	362.5 µg/L
Cadmium	0.3 µg/L	1.5 µg/L
Cobalt	1.1 µg/L	5.5 µg/L
Copper ⁽¹⁾	1.8 µg/L	9.0 µg/L
Iron	20.3 µg/L	101.5 µg/L
Magnesium	43.7 µg/L	218.5 µg/L
Manganese ⁽¹⁾	0.72 µg/L	3.6 µg/L
Potassium	239 µg/L	1195 µg/L
Silver	1.2 µg/L	6.0 µg/L
Zinc ⁽¹⁾	2.9 µg/L	14.5 µg/L

⁽¹⁾ Maximum concentration present in a laboratory preparation blank.

An action level of 5X the maximum concentration were used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination. Positive results less than the blank action levels for aluminum, beryllium, cadmium, cobalt, copper and zinc were qualified, "U", as a result of blank contamination and should not be considered present. No qualification action was required for the remaining analytes since all results were either nondetected or greater than the action level.

Matrix Spike and Matrix Spike Duplicate Results

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Percent Recoveries (%Rs) were < 75% quality control limit for cyanide. All nondetected and positive results reported for cyanide were qualified as estimated, "UJ" and "J", respectively.

Field Duplicate Results

Field duplicate imprecision was noted for potassium and cyanide. All positive results reported for potassium and cyanide were qualified as estimated, "J".

ICP Serial Dilution Results

The ICP Serial Dilution Percent Difference (%D) exceeded the 10% quality control limit for potassium. All results for potassium were qualified as estimated, "J". A direction of bias could not be determined.

TO: T. HANSEN – PAGE 3
DATE: FEBRUARY 21, 2001

Notes

One continuing calibration verification (CCV) percent recovery for mercury was > 120% quality control limit. This CCV did not bracket any samples from this SDG; therefore, validation action was not required.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

Other Factors Affecting Data Quality: Cyanide was qualified due to matrix spike and matrix spike duplicate noncompliance. Potassium was qualified due to ICP serial dilution noncompliance. Cyanide and potassium were qualified due to field duplicate imprecision.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Erin M. Faust
Environmental Scientist



TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW01	MPT-47-GW-DPW02	MPT-47-GW-DPW03	MPT-47-GW-DPW04
SAMPLE DATE:	12/21/00	12/22/00	12/22/00	12/22/00
LABORATORY ID:	A0L110140001	A0L110140002	A0L110140003	A0L110140004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	47.0	U	A	36.6	U	A	31.4	U	A	35.0	U	A
ANTIMONY	3.1	U		3.1	U		3.1	U		3.1	U	
ARSENIC	3.3			3.2	U		3.2	U		3.2	U	
BARIUM	10.7			11.9			6.8			6.9		
BERYLLIUM	0.10	U	A	0.17	U	A	0.09	U	A	0.09	U	A
CADMIUM	0.25	U		0.25	U		0.49	U	A	0.35	U	A
CALCIUM	94700			169000			130000			85000		
CHROMIUM	1.1	U		1.1	U		1.1	U		1.4		
COBALT	0.83	U		0.83	U		0.83	U		0.83	U	
COPPER	1.7	U	A	2.4	U	A	2.2	U	A	2.1	U	A
IRON	949			7900			5350			13100		
LEAD	1.9	U		1.9	U		1.9	U		1.9	U	
MAGNESIUM	5380			5450			11500			5250		
MANGANESE	55.1			102			223			248		
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
MOLYBDENUM	5.4			3.9	U		4.5			3.9	U	
NICKEL	2.0	U		2.0	U		2.0	U		2.0	U	
POTASSIUM	3050	J	IG	6410	J	IG	6810	J	IG	2820	J	IG
SELENIUM	4.0	U		4.0	U		4.0	U		4.0	U	
SILVER	1.1	U		1.1	U		1.1	U		1.1	U	
SODIUM	21900			16700			20700			17300		
THALLIUM	6.8	U		7.4			6.8	U		6.8	U	
TIN	4.9	U		4.9	U		4.9	U		4.9	U	
VANADIUM	1.3			0.85	J	K	0.76	UJ	K	0.76	U	
ZINC	21.8			9.8	U	A	13.0	U	A	9.5	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP032

SAMPLE NUMBER:	MPT-47-GW-DPW07	MPT-47-GW-DPW08	MPT-47-GW-DPW10	MPT-47-GW-DPW11
SAMPLE DATE:	12/22/00	12/22/00	12/21/00	12/21/00
LABORATORY ID:	A0L110140005	A0L110140006	A0L120135005	A0L120135004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	28.2	U	A	20.5	U	A	25.2	U	A	37.0	U	A
ANTIMONY	3.1	U		3.1	U		3.1	U		3.1	U	
ARSENIC	18.3			3.2	U		6.2			4.6		
BARIUM	10.8			10.8			14.1			9.9		
BERYLLIUM	0.12	U	A	0.09	U	A	0.15	U	A	0.26	U	A
CADMIUM	0.35	U	A	0.25	U		0.25	U	A	0.25	U	
CALCIUM	82400			94400			147000			93500		
CHROMIUM	1.2			1.1	U		1.1	U		1.3		
COBALT	0.83	U		0.83	U		0.83	U		0.87	U	A
COPPER	2.4	U	A	2.0	U	A	2.2	U	A	2.4	U	A
IRON	905			2450			4610			1360		
LEAD	1.9	U		1.9	U		1.9	U		1.9	U	
MAGNESIUM	21100			16400			7570			9050		
MANGANESE	90.2			98.0			124			40.7		
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
MOLYBDENUM	5.9			7.3			15.4			11.7		
NICKEL	2.0	U		2.0	U		2.0	U		2.0	U	
POTASSIUM	11800	J	IG	7500	J	IG	7560	J	IG	9570	J	IG
SELENIUM	4.0	U		4.3			4.0	U		4.0	U	
SILVER	1.1	U		1.1	U		1.1	U		1.1	U	
SODIUM	55300			27200			13400			23400		
THALLIUM	6.8	U		6.8	U		6.8	U		6.8	U	
TIN	4.9	U		4.9	U		4.9	U		4.9	U	
VANADIUM	0.76	U		0.76	U		0.76	U		0.76	U	
ZINC	5.1	U	A	3.7	U	A	14.0	U	A	2.3	U	A

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	A0L120135003	A0L120135002	A0L120135001	A0L150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	26.4	U	A	27.8	U	A	19.9	U	A	33.9	U	A
ANTIMONY	3.1	U		3.1	U		3.1	U		3.1	U	
ARSENIC	6.8			3.2	U		3.2	U		16.4		
BARIUM	8.9			14.1			13.5			12.0		
BERYLLIUM	0.08	U	A	0.08	U		0.08	U		0.09	U	A
CADMIUM	0.25	U		0.25	U		0.25	U		0.25	U	
CALCIUM	89000			118000			163000			126000		
CHROMIUM	1.1	U		1.1	U		1.1	U		1.2		
COBALT	0.83	U		0.83	U		0.83	U		0.83	U	
COPPER	1.8	U	A	2.4	U	A	2.2	U	A	2.3	U	A
IRON	2010			3440			4390			3490		
LEAD	1.9	U		1.9	U		1.9	U		1.9	U	
MAGNESIUM	7060			47800			31000			18300		
MANGANESE	157			186			315			107		
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
MOLYBDENUM	12.1			3.9	U		20.7			3.9	U	
NICKEL	2.0	U		2.0	U		2.0	U		2.0	U	
POTASSIUM	11200	J	IG	37700	J	IG	31500	J	IG	3350	J	IG
SELENIUM	4.0	U		4.0	U		4.0	U		4.1		
SILVER	1.1	U		1.1	U		1.1	U		1.1	U	
SODIUM	27400			176000			80700			33300		
THALLIUM	6.8	U		6.8	U		6.8	U		6.8	U	
TIN	4.9	U										
VANADIUM	0.76	U		0.76	U		0.76	U		2.3		
ZINC	1.2	U		2.7	U	A	3.8	U	A	6.7	U	A

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW18	MPT-47-GW-DPW19	MPT-47-GW-DU01	MPT-53-GW-DPW01
SAMPLE DATE:	12/29/00	01/03/01	01/03/01	12/29/00
LABORATORY ID:	AOL150102001	AOL150102002	AOL150102006	AOL150102005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW17	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	47.4	U	A	30.5	U	A	53.0	U	A	59.4	U	A
ANTIMONY	4.2			3.1	U		3.1	U		3.1	U	
ARSENIC	3.2			3.2	U		16.9			3.2	U	
BARIUM	60.7			2.8			11.3			7.5		
BERYLLIUM	0.11	U	A	0.08	U	A	0.08	U	A	0.12	U	A
CADMIUM	0.25	U		0.25	U		0.25	U		0.25	U	
CALCIUM	191000			87100			118000			128000		
CHROMIUM	1.1	U		1.1	U		1.1	U		3.0		
COBALT	0.83	U		0.83	U		0.83	U		0.83	U	
COPPER	2.8	U	A	1.8	U	A	3.1	U	A	2.3	U	A
IRON	148			1780			3030			717		
LEAD	1.9	U		1.9	U		1.9	U		1.9	U	
MAGNESIUM	37200			5790			18700			35500		
MANGANESE	183			107			93.9			131		
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
MOLYBDENUM	19.2			3.9	U		3.9	U		3.9	U	
NICKEL	4.3			2.0	U		2.0	U		2.0	U	
POTASSIUM	22700	J	IG	2200	J	IG	15900	J	IG	11100	J	IG
SELENIUM	4.0	U		4.0	U		4.0	U		4.0	U	
SILVER	1.1	U		1.1	U		1.1	U		1.1	U	
SODIUM	36200			24200			35900			80200		
THALLIUM	6.8	U		6.8	U		6.8	U		6.8	U	
TIN	4.9	U										
VANADIUM	23.5			0.79			2.9			1.7		
ZINC	20.5			9.0	U	A	7.1	U	A	4.6	U	A

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER: MPT-53-GW-DPW03
 SAMPLE DATE: 01/02/01
 LABORATORY ID: A0L150102004
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF:

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	77.5	U	A									
ANTIMONY	3.1	U										
ARSENIC	3.2	U										
BARIUM	11.4											
BERYLLIUM	0.10	U	A									
CADMIUM	0.25	U										
CALCIUM	85500											
CHROMIUM	1.6											
COBALT	0.83	U										
COPPER	2.0	U	A									
IRON	234											
LEAD	1.9	U										
MAGNESIUM	26800											
MANGANESE	67.8											
MERCURY	0.10	U										
MOLYBDENUM	3.9	U										
NICKEL	2.0	U										
POTASSIUM	15000	J	IG									
SELENIUM	4.0	U										
SILVER	1.1	U										
SODIUM	76400											
THALLIUM	6.8	U										
TIN	4.9	U										
VANADIUM	0.76	U										
ZINC	14.7											

CTO091-NS MAYPORT

WATER DATA

QUANTERRA

SDG: MP032

SAMPLE NUMBER:

MPT-47-GW-DPW01

MPT-47-GW-DPW02

MPT-47-GW-DPW03

MPT-47-GW-DPW04

SAMPLE DATE:

12/21/00

12/22/00

12/22/00

12/22/00

LABORATORY ID:

A0L110140001

A0L110140002

A0L110140003

A0L110140004

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

0.0 %

0.0 %

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	12.1	J	DG	6.4	J	DG	7.7	J	DG	17.9	J	DG

**CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW07	MPT-47-GW-DPW08	MPT-47-GW-DPW10	MPT-47-GW-DPW11
SAMPLE DATE:	12/22/00	12/22/00	12/21/00	12/21/00
LABORATORY ID:	A0L110140005	A0L110140006	A0L120135005	A0L120135004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	22.3	J	DG	19.7	J	DG	18.6	J	DG	17.6	J	DG

**CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	A0L120135003	A0L120135002	A0L120135001	A0L150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	5.0	J	DG	12.0	J	DG	29.0	J	DG	3.3	UJ	D

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DU01	MPT-47-GW-DPW18	MPT-47-GW-DPW19	MPT-53-GW-DPW01
SAMPLE DATE:	01/03/01	12/29/00	01/03/01	12/29/00
LABORATORY ID:	A0L150102006	A0L150102001	A0L150102002	A0L150102005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:	MPT-47-GW-DPW17			

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	19.6	J	DG	13.9	J	DG	8.4	J	DG	3.3	UJ	D

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ7RE Client ID: MPT-47-GW-DPW01
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	47.0	B	1	ICPST	12/20/00	22:46
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	22:46
Arsenic	189.04	3.2	10.0	3.3	B	1	ICPST	12/20/00	22:46
Barium	493.41	0.15	200	10.7	B	1	ICPST	12/20/00	22:46
Beryllium	313.04	0.080	5.0	0.10	B	1	ICPST	12/20/00	22:46
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/20/00	22:46
Calcium	317.93	7.7	5000	94700		1	ICPST	12/20/00	22:46
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/20/00	22:46
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	22:46
Copper	324.75	1.3	25.0	1.7	B	1	ICPST	12/20/00	22:46
Iron	271.44	16.0	100	949		1	ICPST	12/20/00	22:46
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	22:46
Magnesium	279.08	14.2	5000	5380		1	ICPST	12/20/00	22:46
Manganese	257.61	0.15	15.0	55.1		1	ICPST	12/20/00	22:46
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	13:55
Molybdenum	202.03	3.9	40.0	5.4	B	1	ICPST	12/20/00	22:46
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	22:46
Potassium	766.49	19.5	5000	3050	BL	1	ICPST	12/20/00	22:46
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/20/00	22:46
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	22:46
Sodium	330.23	244	5000	21900		1	ICPST	12/20/00	22:46
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/20/00	22:46
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	22:46
Vanadium	292.40	0.76	7.0	1.3	B	1	ICPST	12/20/00	22:46
Zinc	213.86	1.2	20.0	21.8		1	ICPST	12/20/00	22:46

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ7RV Client ID: MPT-47-GW-DPW02
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	36.6	B	1	ICPST	12/20/00	23:34
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	23:34
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/20/00	23:34
Barium	493.41	0.15	200	11.9	B	1	ICPST	12/20/00	23:34
Beryllium	313.04	0.080	5.0	0.17	B	1	ICPST	12/20/00	23:34
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/20/00	23:34
Calcium	317.93	7.7	5000	169000		1	ICPST	12/20/00	23:34
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:34
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	23:34
Copper	324.75	1.3	25.0	2.4	B	1	ICPST	12/20/00	23:34
Iron	271.44	16.0	100	7900		1	ICPST	12/20/00	23:34
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	23:34
Magnesium	279.08	14.2	5000	5450		1	ICPST	12/20/00	23:34
Manganese	257.61	0.15	15.0	102		1	ICPST	12/20/00	23:34
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:02
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/20/00	23:34
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	23:34
Potassium	766.49	19.5	5000	6410	L	1	ICPST	12/20/00	23:34
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/20/00	23:34
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:34
Sodium	330.23	244	5000	16700		1	ICPST	12/20/00	23:34
Thallium	190.86	6.8	10.0	7.4	B	1	ICPST	12/20/00	23:34
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	23:34
Vanadium	292.40	0.76	7.0	0.85	B	1	ICPST	12/20/00	23:34
Zinc	213.86	1.2	20.0	9.8	B	1	ICPST	12/20/00	23:34

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ7RW Client ID: MPT-47-GW-DPW03
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	31.4	B	1	ICPST	12/20/00	23:39
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	23:39
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/20/00	23:39
Barium	493.41	0.15	200	6.8	B	1	ICPST	12/20/00	23:39
Beryllium	313.04	0.080	5.0	0.087	B	1	ICPST	12/20/00	23:39
Cadmium	226.50	0.25	2.0	0.49	B	1	ICPST	12/20/00	23:39
Calcium	317.93	7.7	5000	130000		1	ICPST	12/20/00	23:39
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:39
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	23:39
Copper	324.75	1.3	25.0	2.2	B	1	ICPST	12/20/00	23:39
Iron	271.44	16.0	100	5350		1	ICPST	12/20/00	23:39
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	23:39
Magnesium	279.08	14.2	5000	11500		1	ICPST	12/20/00	23:39
Manganese	257.61	0.15	15.0	223		1	ICPST	12/20/00	23:39
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:03
Molybdenum	202.03	3.9	40.0	4.5	B	1	ICPST	12/20/00	23:39
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	23:39
Potassium	766.49	19.5	5000	6810	L	1	ICPST	12/20/00	23:39
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/20/00	23:39
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:39
Sodium	330.23	244	5000	20700		1	ICPST	12/20/00	23:39
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/20/00	23:39
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	23:39
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/20/00	23:39
Zinc	213.86	1.2	20.0	13.0	B	1	ICPST	12/20/00	23:39

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ7RX Client ID: MPT-47-GW-DPW04
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	35.0	B	1	ICPST	12/20/00	23:44
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	23:44
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/20/00	23:44
Barium	493.41	0.15	200	6.9	B	1	ICPST	12/20/00	23:44
Beryllium	313.04	0.080	5.0	0.089	B	1	ICPST	12/20/00	23:44
Cadmium	226.50	0.25	2.0	0.35	B	1	ICPST	12/20/00	23:44
Calcium	317.93	7.7	5000	85000		1	ICPST	12/20/00	23:44
Chromium	267.72	1.1	5.0	1.4	B	1	ICPST	12/20/00	23:44
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	23:44
Copper	324.75	1.3	25.0	2.1	B	1	ICPST	12/20/00	23:44
Iron	271.44	16.0	100	13100		1	ICPST	12/20/00	23:44
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	23:44
Magnesium	279.08	14.2	5000	5250		1	ICPST	12/20/00	23:44
Manganese	257.61	0.15	15.0	248		1	ICPST	12/20/00	23:44
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:04
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/20/00	23:44
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	23:44
Potassium	766.49	19.5	5000	2820	BL	1	ICPST	12/20/00	23:44
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/20/00	23:44
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:44
Sodium	330.23	244	5000	17300		1	ICPST	12/20/00	23:44
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/20/00	23:44
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	23:44
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/20/00	23:44
Zinc	213.86	1.2	20.0	9.5	B	1	ICPST	12/20/00	23:44

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ7R7 Client ID: MPT-47-GW-DPW07
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	28.2	B	1	ICPST	12/20/00	23:49
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	23:49
Arsenic	189.04	3.2	10.0	18.3		1	ICPST	12/20/00	23:49
Barium	493.41	0.15	200	10.8	B	1	ICPST	12/20/00	23:49
Beryllium	313.04	0.080	5.0	0.12	B	1	ICPST	12/20/00	23:49
Cadmium	226.50	0.25	2.0	0.35	B	1	ICPST	12/20/00	23:49
Calcium	317.93	7.7	5000	82400		1	ICPST	12/20/00	23:49
Chromium	267.72	1.1	5.0	1.2	B	1	ICPST	12/20/00	23:49
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	23:49
Copper	324.75	1.3	25.0	2.4	B	1	ICPST	12/20/00	23:49
Iron	271.44	16.0	100	905		1	ICPST	12/20/00	23:49
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	23:49
Magnesium	279.08	14.2	5000	21100		1	ICPST	12/20/00	23:49
Manganese	257.61	0.15	15.0	90.2		1	ICPST	12/20/00	23:49
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:05
Molybdenum	202.03	3.9	40.0	5.9	B	1	ICPST	12/20/00	23:49
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	23:49
Potassium	766.49	19.5	5000	11800	L	1	ICPST	12/20/00	23:49
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/20/00	23:49
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:49
Sodium	330.23	244	5000	55300		1	ICPST	12/20/00	23:49
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/20/00	23:49
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	23:49
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/20/00	23:49
Zinc	213.86	1.2	20.0	5.1	B	1	ICPST	12/20/00	23:49

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ7IH Client ID: MPT-47-GW-DPW08
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	20.5	B	1	ICPST	12/20/00	23:54
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	23:54
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/20/00	23:54
Barium	493.41	0.15	200	10.8	B	1	ICPST	12/20/00	23:54
Beryllium	313.04	0.080	5.0	0.091	B	1	ICPST	12/20/00	23:54
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/20/00	23:54
Calcium	317.93	7.7	5000	94400		1	ICPST	12/20/00	23:54
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:54
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	23:54
Copper	324.75	1.3	25.0	2.0	B	1	ICPST	12/20/00	23:54
Iron	271.44	16.0	100	2450		1	ICPST	12/20/00	23:54
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	23:54
Magnesium	279.08	14.2	5000	16400		1	ICPST	12/20/00	23:54
Manganese	257.61	0.15	15.0	98.0		1	ICPST	12/20/00	23:54
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:07
Molybdenum	202.03	3.9	40.0	7.3	B	1	ICPST	12/20/00	23:54
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	23:54
Potassium	766.49	19.5	5000	7500	L	1	ICPST	12/20/00	23:54
Selenium	196.03	4.0	5.0	4.3	B	1	ICPST	12/20/00	23:54
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:54
Sodium	330.23	244	5000	27200		1	ICPST	12/20/00	23:54
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/20/00	23:54
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	23:54
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/20/00	23:54
Zinc	213.86	1.2	20.0	3.7	B	1	ICPST	12/20/00	23:54

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ84T Client ID: MPT-47-GW-DPW10
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	25.2	B	1	ICPST	12/21/00	0:31
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:31
Arsenic	189.04	3.2	10.0	6.2	B	1	ICPST	12/21/00	0:31
Barium	493.41	0.15	200	14.1	B	1	ICPST	12/21/00	0:31
Beryllium	313.04	0.080	5.0	0.15	B	1	ICPST	12/21/00	0:31
Cadmium	226.50	0.25	2.0	0.25	B	1	ICPST	12/21/00	0:31
Calcium	317.93	7.7	5000	147000		1	ICPST	12/21/00	0:31
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:31
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:31
Copper	324.75	1.3	25.0	2.2	B	1	ICPST	12/21/00	0:31
Iron	271.44	16.0	100	4610		1	ICPST	12/21/00	0:31
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:31
Magnesium	279.08	14.2	5000	7570		1	ICPST	12/21/00	0:31
Manganese	257.61	0.15	15.0	124		1	ICPST	12/21/00	0:31
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:15
Molybdenum	202.03	3.9	40.0	15.4	B	1	ICPST	12/21/00	0:31
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:31
Potassium	766.49	19.5	5000	7560	L	1	ICPST	12/21/00	0:31
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:31
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:31
Sodium	330.23	244	5000	13400		1	ICPST	12/21/00	0:31
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:31
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:31
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/21/00	0:31
Zinc	213.86	1.2	20.0	14.0	B	1	ICPST	12/21/00	0:31

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ84Q Client ID: MPT-47-GW-DPW11
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	37.0	B	1	ICPST	12/21/00	0:26
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:26
Arsenic	189.04	3.2	10.0	4.6	B	1	ICPST	12/21/00	0:26
Barium	493.41	0.15	200	9.9	B	1	ICPST	12/21/00	0:26
Beryllium	313.04	0.080	5.0	0.26	B	1	ICPST	12/21/00	0:26
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:26
Calcium	317.93	7.7	5000	93500		1	ICPST	12/21/00	0:26
Chromium	267.72	1.1	5.0	1.3	B	1	ICPST	12/21/00	0:26
Cobalt	228.62	0.83	7.0	0.87	B	1	ICPST	12/21/00	0:26
Copper	324.75	1.3	25.0	2.4	B	1	ICPST	12/21/00	0:26
Iron	271.44	16.0	100	1360		1	ICPST	12/21/00	0:26
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:26
Magnesium	279.08	14.2	5000	9050		1	ICPST	12/21/00	0:26
Manganese	257.61	0.15	15.0	40.7		1	ICPST	12/21/00	0:26
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:14
Molybdenum	202.03	3.9	40.0	11.7	B	1	ICPST	12/21/00	0:26
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:26
Potassium	766.49	19.5	5000	9570	L	1	ICPST	12/21/00	0:26
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:26
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:26
Sodium	330.23	244	5000	23400		1	ICPST	12/21/00	0:26
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:26
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:26
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/21/00	0:26
Zinc	213.86	1.2	20.0	2.3	B	1	ICPST	12/21/00	0:26

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ84P Client ID: MPT-47-GW-DPW12
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	26.4	B	1	ICPST	12/21/00	0:08
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:08
Arsenic	189.04	3.2	10.0	6.8	B	1	ICPST	12/21/00	0:08
Barium	493.41	0.15	200	8.9	B	1	ICPST	12/21/00	0:08
Beryllium	313.04	0.080	5.0	0.084	B	1	ICPST	12/21/00	0:08
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:08
Calcium	317.93	7.7	5000	89000		1	ICPST	12/21/00	0:08
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:08
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:08
Copper	324.75	1.3	25.0	1.8	B	1	ICPST	12/21/00	0:08
Iron	271.44	16.0	100	2010		1	ICPST	12/21/00	0:08
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:08
Magnesium	279.08	14.2	5000	7060		1	ICPST	12/21/00	0:08
Manganese	257.61	0.15	15.0	157		1	ICPST	12/21/00	0:08
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:10
Molybdenum	202.03	3.9	40.0	12.1	B	1	ICPST	12/21/00	0:08
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:08
Potassium	766.49	19.5	5000	11200	L	1	ICPST	12/21/00	0:08
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:08
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:08
Sodium	330.23	244	5000	27400		1	ICPST	12/21/00	0:08
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:08
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:08
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/21/00	0:08
Zinc	213.86	1.2	20.0	1.2	U	1	ICPST	12/21/00	0:08

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ84N Client ID: MPT-47-GW-DPW15
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	27.8	B	1	ICPST	12/21/00	0:03
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:03
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/21/00	0:03
Barium	493.41	0.15	200	14.1	B	1	ICPST	12/21/00	0:03
Beryllium	313.04	0.080	5.0	0.080	U	1	ICPST	12/21/00	0:03
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:03
Calcium	317.93	7.7	5000	118000		1	ICPST	12/21/00	0:03
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:03
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:03
Copper	324.75	1.3	25.0	2.4	B	1	ICPST	12/21/00	0:03
Iron	271.44	16.0	100	3440		1	ICPST	12/21/00	0:03
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:03
Magnesium	279.08	14.2	5000	47800		1	ICPST	12/21/00	0:03
Manganese	257.61	0.15	15.0	186		1	ICPST	12/21/00	0:03
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:09
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/21/00	0:03
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:03
Potassium	766.49	19.5	5000	37700	L	1	ICPST	12/21/00	0:03
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:03
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:03
Sodium	330.23	244	5000	176000		1	ICPST	12/21/00	0:03
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:03
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:03
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/21/00	0:03
Zinc	213.86	1.2	20.0	2.7	B	1	ICPST	12/21/00	0:03

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQ84D Client ID: MPT-47-GW-DPW16
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	19.9	B	1	ICPST	12/20/00	23:59
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/20/00	23:59
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/20/00	23:59
Barium	493.41	0.15	200	13.5	B	1	ICPST	12/20/00	23:59
Beryllium	313.04	0.080	5.0	0.080	U	1	ICPST	12/20/00	23:59
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/20/00	23:59
Calcium	317.93	7.7	5000	163000		1	ICPST	12/20/00	23:59
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:59
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/20/00	23:59
Copper	324.75	1.3	25.0	2.2	B	1	ICPST	12/20/00	23:59
Iron	271.44	16.0	100	4390		1	ICPST	12/20/00	23:59
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/20/00	23:59
Magnesium	279.08	14.2	5000	31000		1	ICPST	12/20/00	23:59
Manganese	257.61	0.15	15.0	315		1	ICPST	12/20/00	23:59
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:08
Molybdenum	202.03	3.9	40.0	20.7	B	1	ICPST	12/20/00	23:59
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/20/00	23:59
Potassium	766.49	19.5	5000	31500	L	1	ICPST	12/20/00	23:59
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/20/00	23:59
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/20/00	23:59
Sodium	330.23	244	5000	80700		1	ICPST	12/20/00	23:59
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/20/00	23:59
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/20/00	23:59
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/20/00	23:59
Zinc	213.86	1.2	20.0	3.8	B	1	ICPST	12/20/00	23:59

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRGAN Client ID: MPT-47-GW-DPW17
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	33.9	B	1	ICPST	12/21/00	0:46
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:46
Arsenic	189.04	3.2	10.0	16.4		1	ICPST	12/21/00	0:46
Barium	493.41	0.15	200	12.0	B	1	ICPST	12/21/00	0:46
Beryllium	313.04	0.080	5.0	0.086	B	1	ICPST	12/21/00	0:46
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:46
Calcium	317.93	7.7	5000	126000		1	ICPST	12/21/00	0:46
Chromium	267.72	1.1	5.0	1.2	B	1	ICPST	12/21/00	0:46
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:46
Copper	324.75	1.3	25.0	2.3	B	1	ICPST	12/21/00	0:46
Iron	271.44	16.0	100	3490		1	ICPST	12/21/00	0:46
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:46
Magnesium	279.08	14.2	5000	18300		1	ICPST	12/21/00	0:46
Manganese	257.61	0.15	15.0	107		1	ICPST	12/21/00	0:46
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:19
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/21/00	0:46
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:46
Potassium	766.49	19.5	5000	3350	BL	1	ICPST	12/21/00	0:46
Selenium	196.03	4.0	5.0	4.1	B	1	ICPST	12/21/00	0:46
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:46
Sodium	330.23	244	5000	33300		1	ICPST	12/21/00	0:46
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:46
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:46
Vanadium	292.40	0.76	7.0	2.3	B	1	ICPST	12/21/00	0:46
Zinc	213.86	1.2	20.0	6.7	B	1	ICPST	12/21/00	0:46

Comments:

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRGAF Client ID: MPT-47-GW-DPW18
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	47.4	B	1	ICPST	12/21/00	0:35
Antimony	206.84	3.1	10.0	4.2	B	1	ICPST	12/21/00	0:35
Arsenic	189.04	3.2	10.0	3.2	B	1	ICPST	12/21/00	0:35
Barium	493.41	0.15	200	60.7	B	1	ICPST	12/21/00	0:35
Beryllium	313.04	0.080	5.0	0.11	B	1	ICPST	12/21/00	0:35
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:35
Calcium	317.93	7.7	5000	191000		1	ICPST	12/21/00	0:35
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:35
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:35
Copper	324.75	1.3	25.0	2.8	B	1	ICPST	12/21/00	0:35
Iron	271.44	16.0	100	148		1	ICPST	12/21/00	0:35
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:35
Magnesium	279.08	14.2	5000	37200		1	ICPST	12/21/00	0:35
Manganese	257.61	0.15	15.0	183		1	ICPST	12/21/00	0:35
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:16
Molybdenum	202.03	3.9	40.0	19.2	B	1	ICPST	12/21/00	0:35
Nickel	231.60	2.0	40.0	4.3	B	1	ICPST	12/21/00	0:35
Potassium	766.49	19.5	5000	22700	L	1	ICPST	12/21/00	0:35
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:35
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:35
Sodium	330.23	244	5000	36200		1	ICPST	12/21/00	0:35
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:35
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:35
Vanadium	292.40	0.76	7.0	23.5		1	ICPST	12/21/00	0:35
Zinc	213.86	1.2	20.0	20.5		1	ICPST	12/21/00	0:35

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRGAK Client ID: MPT-47-GW-DPW19
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	30.5	B	1	ICPST	12/21/00	0:40
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:40
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/21/00	0:40
Barium	493.41	0.15	200	2.8	B	1	ICPST	12/21/00	0:40
Beryllium	313.04	0.080	5.0	0.082	B	1	ICPST	12/21/00	0:40
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:40
Calcium	317.93	7.7	5000	87100		1	ICPST	12/21/00	0:40
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:40
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:40
Copper	324.75	1.3	25.0	1.8	B	1	ICPST	12/21/00	0:40
Iron	271.44	16.0	100	1780		1	ICPST	12/21/00	0:40
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:40
Magnesium	279.08	14.2	5000	5790		1	ICPST	12/21/00	0:40
Manganese	257.61	0.15	15.0	107		1	ICPST	12/21/00	0:40
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:18
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/21/00	0:40
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:40
Potassium	766.49	19.5	5000	2200	BL	1	ICPST	12/21/00	0:40
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:40
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:40
Sodium	330.23	244	5000	24200		1	ICPST	12/21/00	0:40
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:40
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:40
Vanadium	292.40	0.76	7.0	0.79	B	1	ICPST	12/21/00	0:40
Zinc	213.86	1.2	20.0	9.0	B	1	ICPST	12/21/00	0:40

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRGAW Client ID: MPT-47-GW-DU01
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	53.0	B	1	ICPST	12/21/00	1:00
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	1:00
Arsenic	189.04	3.2	10.0	16.9		1	ICPST	12/21/00	1:00
Barium	493.41	0.15	200	11.3	B	1	ICPST	12/21/00	1:00
Beryllium	313.04	0.080	5.0	0.080	U	1	ICPST	12/21/00	1:00
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	1:00
Calcium	317.93	7.7	5000	118000		1	ICPST	12/21/00	1:00
Chromium	267.72	1.1	5.0	1.1	U	1	ICPST	12/21/00	1:00
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	1:00
Copper	324.75	1.3	25.0	3.1	B	1	ICPST	12/21/00	1:00
Iron	271.44	16.0	100	3030		1	ICPST	12/21/00	1:00
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	1:00
Magnesium	279.08	14.2	5000	18700		1	ICPST	12/21/00	1:00
Manganese	257.61	0.15	15.0	93.9		1	ICPST	12/21/00	1:00
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:22
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/21/00	1:00
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	1:00
Potassium	766.49	19.5	5000	15900	L	1	ICPST	12/21/00	1:00
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	1:00
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	1:00
Sodium	330.23	244	5000	35900		1	ICPST	12/21/00	1:00
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	1:00
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	1:00
Vanadium	292.40	0.76	7.0	2.9	B	1	ICPST	12/21/00	1:00
Zinc	213.86	1.2	20.0	7.1	B	1	ICPST	12/21/00	1:00

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRGAV Client ID: MPT-53-GW-DPW01
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	59.4	B	1	ICPST	12/21/00	0:55
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:55
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/21/00	0:55
Barium	493.41	0.15	200	7.5	B	1	ICPST	12/21/00	0:55
Beryllium	313.04	0.080	5.0	0.12	B	1	ICPST	12/21/00	0:55
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:55
Calcium	317.93	7.7	5000	128000		1	ICPST	12/21/00	0:55
Chromium	267.72	1.1	5.0	3.0	B	1	ICPST	12/21/00	0:55
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:55
Copper	324.75	1.3	25.0	2.3	B	1	ICPST	12/21/00	0:55
Iron	271.44	16.0	100	717		1	ICPST	12/21/00	0:55
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:55
Magnesium	279.08	14.2	5000	35500		1	ICPST	12/21/00	0:55
Manganese	257.61	0.15	15.0	131		1	ICPST	12/21/00	0:55
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:21
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/21/00	0:55
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:55
Potassium	766.49	19.5	5000	11100	L	1	ICPST	12/21/00	0:55
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:55
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:55
Sodium	330.23	244	5000	80200		1	ICPST	12/21/00	0:55
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:55
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:55
Vanadium	292.40	0.76	7.0	1.7	B	1	ICPST	12/21/00	0:55
Zinc	213.86	1.2	20.0	4.6	B	1	ICPST	12/21/00	0:55

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRGAP Client ID: MPT-53-GW-DPW03
 Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	77.5	B	1	ICPST	12/21/00	0:50
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	12/21/00	0:50
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/21/00	0:50
Barium	493.41	0.15	200	11.4	B	1	ICPST	12/21/00	0:50
Beryllium	313.04	0.080	5.0	0.10	B	1	ICPST	12/21/00	0:50
Cadmium	226.50	0.25	2.0	0.25	U	1	ICPST	12/21/00	0:50
Calcium	317.93	7.7	5000	85500		1	ICPST	12/21/00	0:50
Chromium	267.72	1.1	5.0	1.6	B	1	ICPST	12/21/00	0:50
Cobalt	228.62	0.83	7.0	0.83	U	1	ICPST	12/21/00	0:50
Copper	324.75	1.3	25.0	2.0	B	1	ICPST	12/21/00	0:50
Iron	271.44	16.0	100	234		1	ICPST	12/21/00	0:50
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/21/00	0:50
Magnesium	279.08	14.2	5000	26800		1	ICPST	12/21/00	0:50
Manganese	257.61	0.15	15.0	67.8		1	ICPST	12/21/00	0:50
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	14:20
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/21/00	0:50
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/21/00	0:50
Potassium	766.49	19.5	5000	15000	L	1	ICPST	12/21/00	0:50
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/21/00	0:50
Silver	328.07	1.1	5.0	1.1	U	1	ICPST	12/21/00	0:50
Sodium	330.23	244	5000	76400		1	ICPST	12/21/00	0:50
Thallium	190.86	6.8	10.0	6.8	U	1	ICPST	12/21/00	0:50
Tin	189.99	4.9	50.0	4.9	U	1	ICPST	12/21/00	0:50
Vanadium	292.40	0.76	7.0	0.76	U	1	ICPST	12/21/00	0:50
Zinc	213.86	1.2	20.0	14.7	B	1	ICPST	12/21/00	0:50

Comments: _____

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW01

General Chemistry

Lot-Sample #....: AOL110140-001 Work Order #....: DQ7RE Matrix.....: WG
Date Sampled....: 12/08/00 Date Received...: 12/09/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	12.1	10.0	ug/L	SW846 9012A	12/20/00	0355439
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW02

General Chemistry

Lot-Sample #....: AOL110140-002

Work Order #....: DQ7RV

Matrix.....: WG

Date Sampled....: 12/08/00

Date Received...: 12/09/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	6.4 B	10.0	ug/L	SW846 9012A	12/20/00	0355439
	MDL.....: 3.3					

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

TKTRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW03

General Chemistry

Lot-Sample #...: AOL110140-003 Work Order #...: DQ7RW Matrix.....: WG
Date Sampled...: 12/08/00 Date Received...: 12/09/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	7.7 B	10.0	ug/L	SW846 9012A	12/20/00	0355439
	MDL.....: 3.3					

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW04

General Chemistry

Lot-Sample #....: AOL110140-004 Work Order #....: DQ7RX Matrix.....: WG
Date Sampled....: 12/08/00 Date Received...: 12/09/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	17.9	10.0	ug/L	SW846 9012A	12/20/00	0355439
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DEW07

General Chemistry

Lot-Sample #....: AOL110140-005 Work Order #....: DQ7R7 Matrix.....: WG
Date Sampled....: 12/08/00 Date Received...: 12/09/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	22.3	10.0	ug/L	SW846 9012A	12/20/00	0355439
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DFW08

General Chemistry

Lot-Sample #....: AOL110140-006 Work Order #....: DQ7TH Matrix.....: WG
Date Sampled....: 12/08/00 Date Received...: 12/09/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	19.7	10.0	ug/L	SW846 9012A	12/20/00	0355439
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW16

General Chemistry

Lot-Sample #...: AOL120135-001
Date Sampled...: 12/11/00

Work Order #...: DQ84D
Date Received...: 12/12/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	29.0	10.0	ug/L	SW846 9012A	12/21/00	0356540
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW15

General Chemistry

Lot-Sample #....: AOL120135-002
Date Sampled....: 12/11/00

Work Order #....: DQ84N
Date Received...: 12/12/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	12.0	10.0	ug/L	SW846 9012A	12/21/00	0356540
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW12

General Chemistry

Lot-Sample #....: AOL120135-003
Date Sampled....: 12/11/00

Work Order #....: DQ84P
Date Received...: 12/12/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	5.0 B	10.0	ug/L	SW846 9012A	12/21/00	0356540
	MDL.....: 3.3					

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW11

General Chemistry

Lot-Sample #....: AOL120135-004 Work Order #....: DQ84Q Matrix.....: WG
Date Sampled....: 12/11/00 Date Received...: 12/12/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	17.6	10.0	ug/L	SW846 9012A	12/21/00	0356540
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW10

General Chemistry

Lot-Sample #....: AOL120135-005 Work Order #....: DQ84T Matrix.....: WG
Date Sampled....: 12/11/00 Date Received...: 12/12/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	18.6	10.0	ug/L	SW846 9012A	12/21/00	0356540
	MDL.....: 3.3					

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW18

General Chemistry

Lot-Sample #....: AOL150102-001
Date Sampled....: 12/13/00

Work Order #....: DRGAF
Date Received...: 12/14/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	13.9	10.0	ug/L	SW846 9012A	12/26/00	0361317
		MDL.....: 3.3				

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW19

General Chemistry

Lot-Sample #....: AOL150102-002
Date Sampled....: 12/13/00

Work Order #....: DRGAK
Date Received...: 12/14/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	8.4 B	10.0	ug/L	SW846 9012A	12/26/00	0361317
	MDL.....: 3.3					

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW17

General Chemistry

Lot-Sample #....: AOL150102-003
Date Sampled....: 12/13/00

Work Order #....: DRGAN
Date Received...: 12/14/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/26/00	0361317
		MDL.....: 3.3				

TETRA TECH NUS, INC.

Client Sample ID: MPT-53-GW-DPW03

General Chemistry

Lot-Sample #....: AOL150102-004
Date Sampled....: 12/13/00

Work Order #....: DRGAP
Date Received...: 12/14/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	5.4 B	10.0	ug/L	SW846 9012A	12/26/00	0361317
	MDL.....: 3.3					

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NUS, INC.

Client Sample ID: MPT-53-GW-DPW01

General Chemistry

Lot-Sample #....: AOL150102-005 Work Order #....: DRGAV Matrix.....: WG
Date Sampled....: 12/13/00 Date Received...: 12/14/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/26/00	0361317
		MDL.....: 3.3				

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DU01

General Chemistry

Lot-Sample #....: AOL150102-006 Work Order #....: DRGAW Matrix.....: WG
Date Sampled....: 12/13/00 Date Received...: 12/14/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	19.6	10.0	ug/L	SW846 9012A	12/26/00	0361317
	MDL.....: 3.3					

APPENDIX C
SUPPORT DOCUMENTATION

STL North Canton



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER

PAGE 1 OF 1

PROJECT NO: NO123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Quanterra/STL Denise Pohl					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson				ADDRESS 4101 Shuffel Dr NW							
		CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE N Canton, OH							
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS						COMMENTS	
						5035/8260-VOC	HCl	G	G	P	P		P
						8270 - SVOC	-	HNO ₃	HNO ₃	NaOH	HNO ₃	HNO ₃	
						6910 - Metals	Tin						
						9010 - Cyanide							
						7470 - Mercury							
						7480 - Molybdenum							
12-8	1051	MPT-47-GW-DPW01	GW	G	7	X	X	X	X	X	X	X	Cool to 4°C
	1040	MPT-47-GW-DPW02			7	X	X	X	X	X	X	X	
	1200	MPT-47-GW-DPW03			7	X	X	X	X	X	X	X	
	1201	MPT-47-GW-DPW04			7	X	X	X	X	X	X	X	
	1335	MPT-47-GW-DPW07			7	X	X	X	X	X	X	X	
	1345	MPT-47-GW-DPW08			7	X	X	X	X	X	X	X	
		TB1208001	W		2	X							
1. RELINQUISHED BY		DATE 12-8-00	TIME 1100	1. RECEIVED BY				DATE 12/9/00	TIME 945				
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY,				DATE	TIME				
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME				
COMMENTS 1.390.8°C													



PROJECT NO: 10123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER T. Hansey (850) 385-9899	LABORATORY NAME AND CONTACT: STL-Quanterra
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson 604 281-0400	ADDRESS 4101 Shuffel Dr NW
		CARRIERWAYBILL NUMBER Fed Ex	CITY, STATE N. Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (G)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)						PRESERVATIVE USED	COMMENTS	
						Appix VOCs	Appix SVOCs	Appix PAHs	TiN	Molybdenum	Cyanide			HCl
12/11	0945	MPT-47-GW-DPW16	GW	G	7	X	X	X	X	X	X			Cool to 4°C
12/11	1100	MPT-47-GW-DPW15	↓	↓	7	X	X	X	X	X	X			
12/11	1155	MPT-47-GW-DPW12	↓	↓	7	X	X	X	X	X	X			
12/11	1345	MPT-47-GW-DPW11	↓	↓	7	X	X	X	X	X	X			
12/11	1440	MPT-47-GW-DPW10	↓	↓	7	X	X	X	X	X	X			
		TB1211001			2	X								

1. RELINQUISHED BY 	DATE 12-11-00	TIME 1700	1. RECEIVED BY 	DATE 12/12/00	TIME 9:35
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 1.3, 1.2°C



PROJECT NO: NO123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen (904) 385 9879	LABORATORY NAME AND CONTACT: Quanterra - STL Denise Boh
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 2810400	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N. Canton, OH

STANDARD TAT
 RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS							COMMENTS	
						5035/5020 VOC	8270 - VOC	6010 - SVOC	HCl	G	G	P		P
12/12	1030	MPT-47-GW-DPW18	GW	G	7	X	X	X	X	X	X	X	X	Cool to 4°C
	1035	MPT-47-GW-DPW19			7	X	X	X	X	X	X	X		
	1145	MPT-47-GW-DPW17			7	X	X	X	X	X	X	X		
	1335	MPT-53-GW-DPW03			7	X	X	X	X	X	X	X		
	1430	MPT-53-GW-DPW01			7	X	X	X	X	X	X	X		
	0000	MPT-47-GW-DW01			7	X	X	X	X	X	X	X		
		TB1213001			2	X								

1. RELINQUISHED BY 	DATE 12/13/00	TIME 1700	1. RECEIVED BY 	DATE 12-14-00	TIME 10:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

MP032

HOLDING TIME

01/19/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	M	12/11/00	12/19/00	12/20/00	8	1	9
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	OS	12/08/00	12/12/00	12/21/00	4	9	13
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	OS	12/11/00	12/12/00	12/22/00	1	10	11
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	OS	12/13/00	12/15/00	01/03/01	2	19	21
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	OS	12/13/00	12/15/00	12/29/00	2	14	16
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	OS	12/13/00	12/15/00	01/03/01	2	19	21
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	OS	12/13/00	12/15/00	01/02/01	2	18	20
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	OS	12/13/00	12/15/00	12/29/00	2	14	16
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	OS	12/13/00	12/15/00	01/02/01	2	18	20
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	OV	12/11/00	12/16/00	12/16/00	5	0	5
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	TB1208001	A0L110140007	TRIP BLANK	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	TB1211001	A0L120135006	TRIP BLANK	MP032	OV	12/11/00	12/16/00	12/16/00	5	0	5
UG/L	TB1213001	A0L150102007	TRIP BLANK	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6

ANALYTICAL METHODS SUMMARY

AOL150102

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

AOL110140

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DQ7RE	001	MPT-47-GW-DPW01	12/08/00	10:51
DQ7RV	002	MPT-47-GW-DPW02	12/08/00	10:40
DQ7RW	003	MPT-47-GW-DPW03	12/08/00	12:00
DQ7RX	004	MPT-47-GW-DPW04	12/08/00	12:01
DQ7R7	005	MPT-47-GW-DPW07	12/08/00	13:35
DQ7TH	006	MPT-47-GW-DPW08	12/08/00	13:45
DQ7TM	007	TB1208001	12/08/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

AOL120135

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DQ84D	001	MPT-47-GW-DPW16	12/11/00	09:45
DQ84N	002	MPT-47-GW-DPW15	12/11/00	11:00
DQ84P	003	MPT-47-GW-DPW12	12/11/00	11:55
DQ84Q	004	MPT-47-GW-DPW11	12/11/00	13:45
DQ84T	005	MPT-47-GW-DPW10	12/11/00	14:40
DQ84V	006	TB1211001	12/11/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

AOL150102

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DRGAF	001	MPT-47-GW-DPW18	12/13/00	10:30
DRGAK	002	MPT-47-GW-DPW19	12/13/00	10:35
DRGAN	003	MPT-47-GW-DPW17	12/13/00	11:45
DRGAP	004	MPT-53-GW-DPW03	12/13/00	13:35
DRGAV	005	MPT-53-GW-DPW01	12/13/00	14:30
DRGAW	006	MPT-47-GW-DU01	12/13/00	
DRGAS	007	TB1213001	12/13/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: hg11219c.prn

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	Ck2CCV 12/19/00 1 3:02 PM		Ck2CCV 12/19/00 2 3:18 PM		Ck2CCV 12/19/00 3 3:33 PM		Ck2CCV 12/19/00 4 3:50 PM		Ck2CCV 12/19/00 5 4:06 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.58	111.6	5.51	110.3	5.43	108.6	6.41	128.2	5.45	109.0

→
OK - Sampled not
Dracheted by
this CCV.
EUF 1-2200

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 12/19/00 10:40 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219c.pm

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 12/19/00 3:00 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i51220a2.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 12/20/00 6:23 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	19.9	U								
Antimony	206.838	10	3.1	U								
Arsenic	189.042	10	3.2	U								
Barium	493.409	200	0.3	B								
Beryllium	313.042	5	0.3	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	11.3	B								
Chromium	267.716	5	1.1	U								
Cobalt	228.616	7	0.8	U								
Copper	324.753	25	1.3	U								
Iron	271.441	100	16.0	U								
Lead	220.353	3	1.9	U								
Magnesium	279.078	5000	19.3	B								
Manganese	257.61	15	0.4	B								
Molybdenum	202.03	40	3.9	U								
Nickel	231.604	40	2.0	U								
Potassium	766.491	5000	232.0	B								
Selenium	196.026	5	4.0	U								
Silver	328.068	5	1.1	U								
Sodium	330.232	5000	244.0	U								
Thallium	190.864	10	6.8	U								
Tin	189.989	50	4.9	U								
Vanadium	292.402	7	0.8	U								
Zinc	213.856	20	1.2	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/19/00 10:43 AM		Ck1CCB 12/19/00 10:59 AM		Ck1CCB 12/19/00 11:14 AM		Ck1CCB 12/19/00 11:28 AM		Ck1CCB 12/19/00 11:43 AM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/19/00 11:58 AM		Ck1CCB 12/19/00 12:14 PM		Ck1CCB 12/19/00 12:17 PM		Ck1CCB 12/19/00 1:42 PM		Ck1CCB 12/19/00 1:58 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/19/00 2:13 PM		Ck1CCB 12/19/00 2:27 PM		Found	O	Found	O
			Found	O	Found	O					Found	O
Mercury	253.7	0.2	0.1	U	-0.1	B				

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219c.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/19/00 3:04 PM		Ck1CCB 12/19/00 3:19 PM		Ck1CCB 12/19/00 3:35 PM		Ck1CCB 12/19/00 3:52 PM		Ck1CCB 12/19/00 4:07 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11219c.pn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/19/00 4:20 PM								
			Found	O	Found	O	Found	O	Found	O	
Mercury	253.7	0.2	0.1	U							

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i51220a2.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/20/00 6:51 PM		CCB 12/20/00 7:55 PM		CCB 12/20/00 8:58 PM		CCB 12/20/00 9:59 PM		CCB 12/20/00 11:03 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	33.7	B	19.9	U	19.9	U	19.9	U	19.9	U
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Barium	493.409	200	0.4	B	0.2	B	0.3	B	0.4	B	0.3	B
Beryllium	313.042	5	0.4	B	0.3	B	0.3	B	0.3	B	0.3	B
Cadmium	226.502	2	0.3	B	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	32.5	B	10.3	B	17.0	B	20.3	B	8.7	B
Chromium	267.716	5	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Cobalt	228.616	7	1.1	B	0.8	U	0.8	U	0.8	U	0.8	U
Copper	324.753	25	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Iron	271.441	100	20.3	B	16.0	U	16.0	U	16.0	U	16.0	U
Lead	220.353	3	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Magnesium	279.078	5000	43.7	B	17.4	B	14.2	U	18.1	B	14.2	U
Manganese	257.61	15	0.4	B	0.3	B	0.4	B	0.5	B	0.3	B
Molybdenum	202.03	40	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U
Nickel	231.604	40	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Potassium	766.491	5000	227.0	B	220.0	B	217.0	B	239.0	B	219.0	B
Selenium	196.026	5	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Silver	328.068	5	1.2	B	1.1	U	1.1	U	1.1	U	1.1	U
Sodium	330.232	5000	244.0	U	244.0	U	244.0	U	244.0	U	244.0	U
Thallium	190.864	10	6.8	U	6.8	U	6.8	U	6.8	U	6.8	U
Tin	189.989	50	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U
Vanadium	292.402	7	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Zinc	213.856	20	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i51220a2.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/20/00 11:18 PM		CCB 12/21/00 12:21 AM		CCB 12/21/00 1:23 AM		Found	O
			Found	O	Found	O	Found	O		
Aluminum	308.215	200	19.9	U	19.9	U	19.9	U		
Antimony	206.838	10	3.1	U	3.1	U	3.1	U		
Arsenic	189.042	10	3.2	U	3.2	U	3.2	U		
Barium	493.409	200	0.4	B	0.3	B	0.5	B		
Beryllium	313.042	5	0.4	B	0.3	B	0.4	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U		
Calcium	317.933	5000	8.5	B	16.6	B	11.8	B		
Chromium	267.716	5	1.1	U	1.1	U	1.1	U		
Cobalt	228.616	7	1.0	B	0.8	U	1.0	B		
Copper	324.753	25	1.3	U	1.3	U	1.3	U		
Iron	271.441	100	16.0	U	16.0	U	16.0	U		
Lead	220.353	3	1.9	U	1.9	U	1.9	U		
Magnesium	279.078	5000	16.3	B	14.2	U	15.7	B		
Manganese	257.61	15	0.3	B	0.3	B	0.4	B		
Molybdenum	202.03	40	3.9	U	3.9	U	3.9	U		
Nickel	231.604	40	2.0	U	2.0	U	2.0	U		
Potassium	766.491	5000	231.0	B	224.0	B	230.0	B		
Selenium	196.026	5	4.0	U	4.0	U	4.0	U		
Silver	328.068	5	1.2	B	1.1	U	1.2	B		
Sodium	330.232	5000	244.0	U	244.0	U	244.0	U		
Thallium	190.864	10	6.8	U	6.8	U	6.8	U		
Tin	189.989	50	4.9	U	4.9	U	4.9	U		
Vanadium	292.402	7	0.8	U	0.8	U	0.8	U		
Zinc	213.856	20	1.2	U	1.2	U	1.2	U		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DRMDLB

Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	19.9	200	24.3	B	1	ICPST	12/20/00	22:35
Antimony	206.838	3.1	10.0	3.1	U	1	ICPST	12/20/00	22:35
Arsenic	189.042	3.2	10.0	3.2	U	1	ICPST	12/20/00	22:35
Barium	493.409	0.15	200	0.26	B	1	ICPST	12/20/00	22:35
Beryllium	313.042	0.080	5.0	0.13	B	1	ICPST	12/20/00	22:35
Cadmium	226.502	0.25	2.0	0.25	U	1	ICPST	12/20/00	22:35
Calcium	317.933	7.7	5000	72.5	B	1	ICPST	12/20/00	22:35
Chromium	267.716	1.1	5.0	1.1	U	1	ICPST	12/20/00	22:35
Cobalt	228.616	0.83	7.0	0.83	U	1	ICPST	12/20/00	22:35
Copper	324.753	1.3	25.0	1.8	B	1	ICPST	12/20/00	22:35
Iron	271.441	16.0	100	20.2	B	1	ICPST	12/20/00	22:35
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	12/20/00	22:35
Magnesium	279.078	14.2	5000	14.2	U	1	ICPST	12/20/00	22:35
Manganese	257.61	0.15	15.0	0.72	B	1	ICPST	12/20/00	22:35
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/19/00	13:52
Molybdenum	202.03	3.9	40.0	3.9	U	1	ICPST	12/20/00	22:35
Nickel	231.604	2.0	40.0	2.0	U	1	ICPST	12/20/00	22:35
Potassium	766.491	19.5	5000	214	B	1	ICPST	12/20/00	22:35
Selenium	196.026	4.0	5.0	4.0	U	1	ICPST	12/20/00	22:35
Silver	328.068	1.1	5.0	1.1	U	1	ICPST	12/20/00	22:35
Sodium	330.232	244	5000	-300	B	1	ICPST	12/20/00	22:35
Thallium	190.864	6.8	10.0	6.8	U	1	ICPST	12/20/00	22:35
Tin	189.989	4.9	50.0	4.9	U	1	ICPST	12/20/00	22:35
Vanadium	292.402	0.76	7.0	0.76	U	1	ICPST	12/20/00	22:35
Zinc	213.856	1.2	20.0	2.9	B	1	ICPST	12/20/00	22:35

Comments: _____

Version 4.10.5

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

METHOD BLANK REPORT

General Chemistry

Client Lot #....: AOL110140

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Cyanide	ND	Work Order #: DRTEK1AA 10.0	ug/L	MB Lot-Sample #: SW846 9012A	AOL200000-439 12/20/00	0355439

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOL120135

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DRWNF1AA		MB Lot-Sample #:	AOL210000-540	
		10.0	ug/L	SW846 9012A	12/21/00	0356540
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0L150102

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DR1HQ1AA 10.0	ug/L	MB Lot-Sample #: SW846 9012A	A0L260000-317 12/26/00	0361317
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0L120135

Matrix.....: WG

Date Sampled...: 12/11/00 09:45 Date Received...: 12/12/00

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total			WO#:	DQ84D1CA-MS/DQ84D1CC-MSD	MS Lot-Sample #:	A0L120135-001	
	50	(25 - 134)			SW846 9012A	12/21/00	0356540
	69	(25 - 134)	15	(0-99)	SW846 9012A	12/21/00	0356540

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0L150102

Matrix.....: WATER

Date Sampled...: 12/13/00 11:35 Date Received...: 12/14/00

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total			WO#: DRD4W1A7-MS/DRD4W1A8-MSD			MS Lot-Sample #: A0L140141-013	
	58	(25 - 134)			SW846 9012A	12/26/00	0361317
	59	(25 - 134)	1.3	(0-99)	SW846 9012A	12/26/00	0361317
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DQ7REL

Original Sample ID: DQ7RE Client ID: MPT-47-GW-DPW01

Matrix: Water Units: ug/L Prep Date: 12/19/00 Prep Batch: 0354096

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	47.0	B	99.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Antimony	206.838	3.1	U	15.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Arsenic	189.042	3.3	B	16.0	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Barium	493.409	10.7	B	10.9	B	2.0	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Beryllium	313.042	0.10	B	0.40	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Cadmium	226.502	0.25	U	1.3	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Calcium	317.933	94700		89800		5.2	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Chromium	267.716	1.1	U	5.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Cobalt	228.616	0.83	U	4.2	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Copper	324.753	1.7	B	6.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Iron	271.441	949		929		2.0	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Lead	220.353	1.9	U	9.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Magnesium	279.078	5380		5000	B	6.9	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Manganese	257.61	55.1		52.6	B	4.4	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Molybdenum	202.03	5.4	B	19.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Nickel	231.604	2.0	U	10.0	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Potassium	766.491	3050	B	3550	B L	16.4	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Selenium	196.026	4.0	U	20.0	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Silver	328.068	1.1	U	5.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Sodium	330.232	21900		21300	B	2.9	1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Thallium	190.864	6.8	U	34.0	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Tin	189.989	4.9	U	24.5	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Vanadium	292.402	1.3	B	3.8	U		1	5	ICPST	12/20/00	22:46	12/20/00	22:51
Zinc	213.856	21.8		34.0	B		1	5	ICPST	12/20/00	22:46	12/20/00	22:51

Comments: _____

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	10/12/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	19.9	9/8/00
Antimony	206.84	10	3.1	9/8/00
Arsenic	189.04	10	3.2	9/8/00
Barium	493.41	200	0.15	9/8/00
Beryllium	313.04	5	0.080	9/8/00
Cadmium	226.50	2	0.25	9/8/00
Calcium	317.93	5000	7.7	9/8/00
Chromium	267.72	5	1.1	9/8/00
Cobalt	228.62	7	0.83	9/8/00
Copper	324.75	25	1.3	9/8/00
Iron	271.44	100	16.0	9/8/00
Lead	220.35	3	1.9	9/8/00
Magnesium	279.08	5000	14.2	9/8/00
Manganese	257.61	15	0.15	9/8/00
Molybdenum	202.03	40	3.9	9/8/00
Nickel	231.60	40	2.0	9/8/00
Potassium	766.49	5000	19.5	9/8/00
Selenium	196.03	5	4.0	9/8/00
Silver	328.07	5	1.1	9/8/00
Sodium	330.23	5000	244	9/8/00
Thallium	190.86	10	6.8	9/8/00
Tin	189.99	50	4.9	9/8/00
Vanadium	292.40	7	0.76	9/8/00
Zinc	213.86	20	1.2	9/8/00

BATCH NUMBER: 0354096

PREP DATE: 12/19/00
DUE DATE 12/27/00

INITIALS: WPM

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
AOL110140	DQ7RE	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/27/00			
	DQ7RES		_____g	_____g	_____g	_____g
	DQ7RED		_____g	_____g	_____g	_____g
AOL110140	DQ7RV	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/27/00			
AOL110140	DQ7RW	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/27/00			
AOL110140	DQ7RX	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/27/00			
AOL110140	DQ7R7	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/27/00			
AOL110140	DQ7TH	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/27/00			
AOL120135	DQ84D	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/29/00			
AOL120135	DQ84N	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/29/00			
AOL120135	DQ84P	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/29/00			
AOL120135	DQ84Q	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/29/00			
AOL120135	DQ84T	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		12/29/00			
AOL150102	DRGAF	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
AOL150102	DRGAK	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
AOL150102	DRGAN	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			

DO NOT
UPLOAD
Save 14R.
Client 375241
SDG-MPO32

BATCH NUMBER: 0354096

PREP DATE: 12/19/00
DUE DATE 12/27/00

INITIALS: WPM

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
A0L150102	DRGAP	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
A0L150102	DRGAV	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
A0L150102	DRGAW	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
A0L190000	DRMDL	01	X _____g	X _____g	_____g	_____g
WATER	DUE DATE:		0/00/00			
	DRMDLC		_____g	_____g	_____g	_____g

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH
 MS/MSD AND PDS ON BATCH
 CURVE PREPPED FOR HG
 CORRECT SPIKES ADDED
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: ICP is a total recov. prep
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY JK

ICP ELEMENTS WITHIN THE BATCH:

	AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	KX	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	
MS/MSD 1:						ICP - 1		ICP - 2A		GFAA		HG		ODD									
<u>DQ7RE</u>																							
MS/MSD 2:						ICP - 1		ICP - 2		GFAA		HG		ODD									
MS/MSD 3:						ICP - 1		ICP - 2		GFAA		HG		ODD									
CHECK :						ICP - 1		ICP - 2A		GFAA		HG		ODD									
<u>DRMDL</u>																							
CHECK DUP:						ICP - 1		ICP - 2		GFAA		HG		ODD									
STANDARD NUMBERS						<u>0L1277</u>		<u>0K1241</u>					<u>0L1327</u>									<u>0L1326</u>	

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg11219b.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Repl		12/19/00	10:31
Std2Repl		12/19/00	10:32
Std3Repl		12/19/00	10:33
Std4Repl		12/19/00	10:35
Std5Repl		12/19/00	10:36
Std6Repl		12/19/00	10:37
Ck5ICV		12/19/00	10:39
Ck4ICB		12/19/00	10:40
Ck3CRA		12/19/00	10:41
Ck2CCV		12/19/00	10:42
Ck1CCB		12/19/00	10:43
ZZZZZ		12/19/00	10:45
ZZZZZ		12/19/00	10:46
ZZZZZ		12/19/00	10:47
ZZZZZ		12/19/00	10:48
ZZZZZ		12/19/00	10:50
ZZZZZ		12/19/00	10:51
ZZZZZ		12/19/00	10:52
ZZZZZ		12/19/00	10:54
ZZZZZ		12/19/00	10:55
ZZZZZ		12/19/00	10:56
Ck2CCV		12/19/00	10:57
Ck1CCB		12/19/00	10:59
ZZZZZ		12/19/00	11:00
ZZZZZ		12/19/00	11:02
ZZZZZ		12/19/00	11:03
ZZZZZ		12/19/00	11:05
ZZZZZ		12/19/00	11:06
ZZZZZ		12/19/00	11:07
ZZZZZ		12/19/00	11:08
ZZZZZ		12/19/00	11:09
ZZZZZ		12/19/00	11:10
ZZZZZ		12/19/00	11:12
Ck2CCV		12/19/00	11:13
Ck1CCB		12/19/00	11:14
ZZZZZ		12/19/00	11:15
ZZZZZ		12/19/00	11:16
ZZZZZ		12/19/00	11:17
ZZZZZ		12/19/00	11:18

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: hg11219b.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZ		12/19/00	11:20
ZZZZZ		12/19/00	11:21
ZZZZZ		12/19/00	11:22
ZZZZZ		12/19/00	11:23
ZZZZZ		12/19/00	11:25
ZZZZZ		12/19/00	11:26
C2CCV		12/19/00	11:27
C1CCB		12/19/00	11:28
ZZZZZ		12/19/00	11:30
ZZZZZ		12/19/00	11:31
ZZZZZ		12/19/00	11:32
ZZZZZ		12/19/00	11:33
ZZZZZ		12/19/00	11:35
ZZZZZ		12/19/00	11:36
ZZZZZ		12/19/00	11:37
ZZZZZ		12/19/00	11:38
ZZZZZ		12/19/00	11:39
ZZZZZ		12/19/00	11:41
C2CCV		12/19/00	11:42
C1CCB		12/19/00	11:43
ZZZZZ		12/19/00	11:44
ZZZZZ		12/19/00	11:45
ZZZZZ		12/19/00	11:46
ZZZZZ		12/19/00	11:48
ZZZZZ		12/19/00	11:49
ZZZZZ		12/19/00	11:50
ZZZZZ		12/19/00	11:51
ZZZZZ		12/19/00	11:52
ZZZZZ		12/19/00	11:54
ZZZZZ		12/19/00	11:56
C2CCV		12/19/00	11:57
C1CCB		12/19/00	11:58
ZZZZZ		12/19/00	12:00
ZZZZZ		12/19/00	12:01
ZZZZZ		12/19/00	12:02
ZZZZZ		12/19/00	12:03
ZZZZZ		12/19/00	12:04
ZZZZZ		12/19/00	12:05
ZZZZZ		12/19/00	12:07

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg11219b.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		12/19/00	12:08
ZZZZZZ		12/19/00	12:09
ZZZZZZ		12/19/00	12:10
Ck2CCV		12/19/00	12:12
Ck1CCB		12/19/00	12:14
ZZZZZZ		12/19/00	12:15
Ck2CCV		12/19/00	12:16
Ck1CCB		12/19/00	12:17
Ck2CCV		12/19/00	13:41
Ck1CCB		12/19/00	13:42
ZZZZZZ		12/19/00	13:43
ZZZZZZ		12/19/00	13:45
ZZZZZZ		12/19/00	13:46
ZZZZZZ		12/19/00	13:47
ZZZZZZ		12/19/00	13:48
ZZZZZZ		12/19/00	13:50
ZZZZZZ		12/19/00	13:51
DRMDLB		12/19/00	13:52
ZZZZZZ		12/19/00	13:53
DQ7RE	MPT-47-GW-DPW01	12/19/00	13:55
Ck2CCV		12/19/00	13:56
Ck1CCB		12/19/00	13:58
DQ7RES	MPT-47-GW-DPW01S	12/19/00	14:00
DQ7RED	MPT-47-GW-DPW01D	12/19/00	14:01
DQ7RV	MPT-47-GW-DPW02	12/19/00	14:02
DQ7RW	MPT-47-GW-DPW03	12/19/00	14:03
DQ7RX	MPT-47-GW-DPW04	12/19/00	14:04
DQ7R7	MPT-47-GW-DPW07	12/19/00	14:05
DQ7TH	MPT-47-GW-DPW08	12/19/00	14:07
DQ84D	MPT-47-GW-DPW16	12/19/00	14:08
DQ84N	MPT-47-GW-DPW15	12/19/00	14:09
DQ84P	MPT-47-GW-DPW12	12/19/00	14:10
Ck2CCV		12/19/00	14:12
Ck1CCB		12/19/00	14:13
DQ84Q	MPT-47-GW-DPW11	12/19/00	14:14
DQ84T	MPT-47-GW-DPW10	12/19/00	14:15
DRGAF	MPT-47-GW-DPW18	12/19/00	14:16
DRGAK	MPT-47-GW-DPW19	12/19/00	14:18
DRGAN	MPT-47-GW-DPW17	12/19/00	14:19

STL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg11219b.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
DRGAP	MPT-53-GW-DPW03	12/19/00	14:20
DRGAV	MPT-53-GW-DPW01	12/19/00	14:21
DRGAW	MPT-47-GW-DU01	12/19/00	14:22
ZZZZZZ		12/19/00	14:23
ZZZZZZ		12/19/00	14:24
Ck2CCV		12/19/00	14:26
Ck1CCB		12/19/00	14:27

STL North Canton

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg11219c.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Repl		12/19/00	14:51
Std2Repl		12/19/00	14:52
Std3Repl		12/19/00	14:54
Std4Repl		12/19/00	14:55
Std5Repl		12/19/00	14:56
Std6Repl		12/19/00	14:58
Ck5ICV		12/19/00	14:59
Ck4ICB		12/19/00	15:00
Ck3CRA		12/19/00	15:01
Ck2CCV		12/19/00	15:02
Ck1CCB		12/19/00	15:04
|||||		12/19/00	15:05
|||||		12/19/00	15:06
|||||		12/19/00	15:08
|||||		12/19/00	15:09
|||||		12/19/00	15:10
|||||		12/19/00	15:11
|||||		12/19/00	15:13
|||||		12/19/00	15:14
|||||		12/19/00	15:15
|||||		12/19/00	15:17
Ck2CCV		12/19/00	15:18
Ck1CCB		12/19/00	15:19
|||||		12/19/00	15:20
|||||		12/19/00	15:21
|||||		12/19/00	15:23
|||||		12/19/00	15:24
|||||		12/19/00	15:25
|||||		12/19/00	15:26
|||||		12/19/00	15:27
|||||		12/19/00	15:29
|||||		12/19/00	15:30
|||||		12/19/00	15:32
Ck2CCV		12/19/00	15:33
Ck1CCB		12/19/00	15:35
|||||		12/19/00	15:36
|||||		12/19/00	15:37
|||||		12/19/00	15:38
|||||		12/19/00	15:40

STL NORTH Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg11219c.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		12/19/00	15:41
ZZZZZZ		12/19/00	15:43
ZZZZZZ		12/19/00	15:44
ZZZZZZ		12/19/00	15:46
ZZZZZZ		12/19/00	15:47
ZZZZZZ		12/19/00	15:49
Ck2CCV		12/19/00	15:50
Ck1CCB		12/19/00	15:52
ZZZZZZ		12/19/00	15:53
ZZZZZZ		12/19/00	15:54
ZZZZZZ		12/19/00	15:55
ZZZZZZ		12/19/00	15:57
ZZZZZZ		12/19/00	15:58
ZZZZZZ		12/19/00	16:00
ZZZZZZ		12/19/00	16:01
ZZZZZZ		12/19/00	16:02
ZZZZZZ		12/19/00	16:03
ZZZZZZ		12/19/00	16:04
Ck2CCV		12/19/00	16:06
Ck1CCB		12/19/00	16:07
ZZZZZZ		12/19/00	16:08
ZZZZZZ		12/19/00	16:10
ZZZZZZ		12/19/00	16:11
ZZZZZZ		12/19/00	16:12
ZZZZZZ		12/19/00	16:13
DRMDLC		12/19/00	16:14
ZZZZZZ		12/19/00	16:16
ZZZZZZ		12/19/00	16:17
Ck2CCV		12/19/00	16:18
Ck1CCB		12/19/00	16:20

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i51220a2.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1-Blank		12/20/00	18:03
CALSTD		12/20/00	18:08
CAL 2		12/20/00	18:13
ICV		12/20/00	18:17
ICB		12/20/00	18:23
CRI		12/20/00	18:28
ICSA		12/20/00	18:34
ICSAB		12/20/00	18:39
CCV		12/20/00	18:45
CCB		12/20/00	18:51
TTTTTT		12/20/00	18:56
TTTTTT		12/20/00	19:01
TTTTTT		12/20/00	19:06
TTTTTT		12/20/00	19:11
TTTTTT		12/20/00	19:16
TTTTTT		12/20/00	19:22
TTTTTT		12/20/00	19:27
TTTTTT		12/20/00	19:32
TTTTTT		12/20/00	19:38
TTTTTT		12/20/00	19:42
CCV		12/20/00	19:49
CCB		12/20/00	19:55
TTTTTT		12/20/00	20:00
TTTTTT		12/20/00	20:05
TTTTTT		12/20/00	20:10
TTTTTT		12/20/00	20:15
TTTTTT		12/20/00	20:21
TTTTTT		12/20/00	20:26
TTTTTT		12/20/00	20:31
TTTTTT		12/20/00	20:36
TTTTTT		12/20/00	20:41
TTTTTT		12/20/00	20:46
CCV		12/20/00	20:52
CCB		12/20/00	20:58
TTTTTT		12/20/00	21:03
TTTTTT		12/20/00	21:08
TTTTTT		12/20/00	21:13
TTTTTT		12/20/00	21:17
TTTTTT		12/20/00	21:22

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: i51220a2.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		12/20/00	21:27
ZZZZZZ		12/20/00	21:32
ZZZZZZ		12/20/00	21:37
ZZZZZZ		12/20/00	21:42
ZZZZZZ		12/20/00	21:47
CCV		12/20/00	21:53
CCB		12/20/00	21:59
ZZZZZZ		12/20/00	22:04
ZZZZZZ		12/20/00	22:09
ZZZZZZ		12/20/00	22:14
ZZZZZZ		12/20/00	22:20
ZZZZZZ		12/20/00	22:25
ZZZZZZ		12/20/00	22:30
DRMDLB		12/20/00	22:35
DRMDLC		12/20/00	22:40
DQ7RE	MPT-47-GW-DPW01	12/20/00	22:46
DQ7REL	MPT-47-GW-DPW01	12/20/00	22:51
CCV		12/20/00	22:57
CCB		12/20/00	23:03
CCV		12/20/00	23:12
CCB		12/20/00	23:18
DQ7RES	MPT-47-GW-DPW01S	12/20/00	23:23
DQ7RED	MPT-47-GW-DPW01D	12/20/00	23:28
DQ7RV	MPT-47-GW-DPW02	12/20/00	23:34
DQ7RW	MPT-47-GW-DPW03	12/20/00	23:39
DQ7RX	MPT-47-GW-DPW04	12/20/00	23:44
DQ7R7	MPT-47-GW-DPW07	12/20/00	23:49
DQ7TH	MPT-47-GW-DPW08	12/20/00	23:54
DQ84D	MPT-47-GW-DPW16	12/20/00	23:59
DQ84N	MPT-47-GW-DPW15	12/21/00	0:03
DQ84P	MPT-47-GW-DPW12	12/21/00	0:08
CCV		12/21/00	0:15
CCB		12/21/00	0:21
DQ84Q	MPT-47-GW-DPW11	12/21/00	0:26
DQ84T	MPT-47-GW-DPW10	12/21/00	0:31
DRGAF	MPT-47-GW-DPW18	12/21/00	0:35
DRGAK	MPT-47-GW-DPW19	12/21/00	0:40
DRGAN	MPT-47-GW-DPW17	12/21/00	0:46
DRGAP	MPT-53-GW-DPW03	12/21/00	0:50

Metals Data Reporting Form

Instrument RunlogInstrument: ICPSTChart Number: i51220a2.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
DRGAV	MPT-53-GW-DPW01	12/21/00	0:55
DRGAW	MPT-47-GW-DU01	12/21/00	1:00
<i>ZZZZZ</i>		12/21/00	1:06
<i>ZZZZZ</i>		12/21/00	1:11
CCV		12/21/00	1:17
CCB		12/21/00	1:23

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run	: 001221A	Name of Analysis	: CN-NON-CLP-3.ANL
Date of Report	: 12/21/00	System No.	: 2
Date of Run	: 12/21/00	Type of System	: TRAACS
Operator	: DNM	Start/Stop time	: 18:33 - 19:56
Comment	: CYANIDE ANALYSIS		

Channel	:	1
Method	:	CN-NON-CLP-
Unit	:	mg/L
Calibr. Fit	:	Linear
Corr. Coeff.	:	1.0000 ✓
Base	:	51
Gain	:	80
Sensitivity	:	0.0934
Sample Limit 1	:	
Sample Limit 2	:	

Pk	Cup	Sample Id	Conc
0	0	B Baseline	-0.0007
1	1	P Primer	0.2009
2	1	C 0.2000	0.2000
3	2	C 0.1000	0.1000
4	3	C 0.0500	0.0500
5	4	C 0.0250	0.0247
6	5	C 0.0100	0.0104
7	6	C 0.0050	0.0049
8	1	H1 High	0.1994
9	0	L1 Low	0.0001
10	0	L1 Low	0.0001
11	2	D Drift	0.0989
12	2	QC1 ICV	0.1059/100 = 106%
13	7	QC2 ICB	0.0039 ✓
14	5	QC100.01	0.0098 ✓
15	8	QC3 PREP BLANK	0.0013 ✓
16	9	QC4 LCS CI ⁻	0.0012 ✓
17	10	S LCS 10K 99108 TV=0.473	0.0486x10 = 0.486/0.473 = 105%
18	11	S DQ6WP CL	2.9 ng/L 0.0985
19	12	S DQ6XQ CL	10.7 0.0621
20	13	S DQ6XX CL	13.0 0.0989
21	14	S DQ6XX MS CL	47.0 0.1263
22	15	S DQ6XX MSD CL	50.0 0.1410
23	16	S DQ60D CL	8.9 0.0509
24	17	S DQ60H CL	8.5 0.0404
25	18	S DQ60L CL	5.9 0.3218 - dil

26	19	S	DQ9CD	CL	0.3184	-dil
27	2	QC1	CCV		0.1039	0.1 = 104%
28	7	QC2	CCB		0.0054	
29	20	S	DQ9C8	CL	0.3220	29.1 mg/L } dil
30	21	S	DQ9DF	CL	0.3186	15.9 } dil
31	22	S	DQ9DK	CL	0.0007R	1.9
32	23	S	DQ9DN	CL	0.0944R	60.2
33	24	S	DRA09	CL	0.1973	12.4
34	25	S	DRA2D	CL	0.3202	10.3
35	26	S	DRA2E	CL	0.3188	11.2
36	27	S	DRA2F	CL	0.3188	101.5 } dil
37	28	S	DRA2K	CL	0.3189	17.7
38	29	S	DRA2W	CL	0.0557R	2.5
39	2	QC1	CCV		0.1058	0.1 = 106%
40	7	QC2	CCB		0.0083	
41	30	S	DRA22	CL	0.0030	13.7 mg/L = 0.0107
42	31	S	DRGTN	CL	0.0020	ND
43	32	S	DRGVH	CL	0.1346	89 mg/L
44	2	QC1	CCV		0.1006	0.1 = 101%
45	7	QC2	CCB		0.0040	
46	33	S	BLK		0.0020	
47	34	S	LCS10X	99108 TV = 0.473	0.0488	X10 = 0.488 / 0.473 = 103%
48	35	S	DRE1F		0.0008	
49	36	S	DRE28		0.0025	
50	37	S	DRA09		0.0124	
51	38	S	DRA2D		0.0103	
52	39	S	DRA2E		0.0112	
53	40	S	DRA2F		0.1015	
54	41	S	DRA2K		0.0177	
55	42	S	DRHCN		0.0044	
56	43	S	DQ84D	MPT-47-GW-DPW6	0.0290	CN = 0.0290 mg/L x 1000 ug / 1 mg = 29.0 ug/L
57	44	S	DQ84D	MS	0.0488	
58	2	QC1	CCV		0.1030	0.1 = 103%
59	7	QC2	CCB		0.0092	
60	45	S	DQ84D	MSD	0.0567	
61	46	S	DQ84N		0.0120	
62	47	S	DQ84P		0.0050	
63	48	S	DQ84Q		0.0176	
64	49	S	DQ84T		0.0186	
65	50	S	DQ897		0.0018	
66	51	S	DQ898		0.0029	
67	52	S	DQ9C8		0.0291	
68	53	S	DQ9DF		0.0154	
69	54	S	DQ9DK		0.0018	
70	2	QC1	CCV		0.1012	0.1 = 101%
71	7	QC2	CCB		0.0041	
72	55	S	DQ9XF		0.0339	
73	56	S	DQ9XL		0.0021	
74	2	QC1	CCV		0.1026	0.1 = 103%
75	7	QC2	CCB		0.0032	
76	57	S	BLK		0.0002	
77	58	S	LCS10X	99108 TV = 0.473	0.0497	X10 = 0.497 / 0.473 = 105%
78	59	S	0.025		0.0230	0.025 = 92%

FIELD DUPLICATE PRECISION

ANALYTE	MPT-47-GW-DPW17	MPT-47-GW-DU01	RPD
Aluminum	33.9U	53.0U	#VALUE!
Antimony	31.0 31.0	31.0 31.0	#VALUE!
Arsenic	16.4	16.9	3.00
Barium	12	11.3	6.01
Beryllium	0.09U	0.08U	#VALUE!
Cadmium	0.25U	0.25U	#VALUE!
Calcium	126000	118000	6.56
Chromium	1.2	1.1U	#VALUE!
Cobalt	0.83U	0.83U	#VALUE!
Copper	2.3U	3.1U	#VALUE!
Iron	3490	3030	14.11
Lead	1.9U	1.9U	#VALUE!
Magnesium	18300	18700	2.16
Manganese	107	93.9	13.04
Mercury	0.10U	0.10U	#VALUE!
Molybdenum	3.9U	3.9U	#VALUE!
Nickel	2.0U	2.0U	#VALUE!
Potassium	3350	15900	130.39
Selenium	4.1	4.0U	#VALUE!
Silver	1.1U	1.1U	#VALUE!
Sodium	33300	35900	7.51
Thallium	6.8U	6.8U	#VALUE!
Tin	4.9U	4.9U	#VALUE!
Vanadium	2.3	2.9	23.08
Zinc	6.7U	7.1U	#VALUE!
Cyanide	3.3U	19.6	#VALUE!

72XCRDL

difference > 2XCRDL

OK - results are <5X CRDL and the difference between the results are <2X CRDL

dichloro-2-butene. No qualifiers were assigned on this basis since this compound was not detected in the reported results and the exceedances were less than 50%.

Initial and/or continuing calibration relative response factors (RRFs) fell below the 0.05 quality control limit for acrolein, acetonitrile, propionitrile, and isobutanol. Nondetected results for all aforementioned compounds were rejected, UR, in all samples.

A continuing calibration percent difference (%D) exceeded the 25% quality control limit on 12/19/00 for 1,4-dichloro-2-butene. Nondetected results were qualified as estimated, UJ, in the associated samples.

The following compounds were detected in the laboratory method blanks:

<u>Compound</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Acetone	1.6 µg/L	16 µg/L
Methylene Chloride	0.6 µg/L	6.0 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for acetone and methylene chloride below the blank action level were qualified as nondetected, U.

Semivolatiles

Initial calibration percent relative standard deviations (%RSDs) exceeded the 30% quality control limit on A4HP7 for 1,3,5-trinitrobenzene, 4-nitroquinoline-1-oxide and Dinoseb on 12/13/00. No qualifiers were assigned on this basis since these compounds were not detected in the samples and the exceedances were less than 50%.

A continuing calibration %D exceeded the 25% quality control limit on 12/21/00 on A4HP7 for 1,3,5-trinitrobenzene. Nondetected results were qualified as estimated, UJ, in samples MPT-47-GW-DPW01, MPT-47-GW-DPW10, MPT-47-GW-DPW11, MPT-47-GW-DPW12, and MPT-47-GW-DPW16.

Continuing calibration %Ds exceeded the 25% quality control limit on 12/22/00 on A4HP7 for Dinoseb, 1,3,5-trinitrobenzene, p-phenylenediamine, and 4-aminobiphenyl. Nondetected results were qualified as estimated, UJ, in samples MPT-47-GW-DPW02, MPT-47-GW-DPW03, MPT-47-GW-DPW04, MPT-47-GW-DPW07, MPT-47-GW-DPW08, and MPT-47-GW-DPW15.

A continuing calibration RRF fell below the 0.05 quality control limit on 12/29/00 on A4HP7 for 4-Nitroquinoline-1-oxide. The nondetected result was rejected, UR in samples MPT-47-GW-DPW18 and MPT-53-GW-DPW01.

Continuing calibration %Ds exceeded the 25% quality control limit on 12/29/00 on A4HP7 for 2,4-dinitrophenol, 4-nitroquinone-1-oxide, 1,3,5-trinitrobenzene, p-phenylenediamine, 4-aminobiphenyl, aramite, chlorobenzilate, and 1,4-dioxane. Nondetected results were qualified as estimated, UJ, in samples MPT-47-GW-DPW18 and MPT-53-GW-DPW01. No further qualifiers were applied to 4-nitroquinone-1-oxide since the nondetected result was previously rejected.

Initial calibration %RSDs exceeded the 30% quality control limits on 01/02/01 for 2,4-dinitrophenol, 4-nitroquinone-1-oxide, Dinoseb, and 1,3,5-trinitrobenzene. No qualifiers were assigned on this basis since the compounds were not detected in the samples and the exceedance was less than 50%.

Continuing calibration %Ds exceeded the 25% quality control limit on 01/02/01 on A4HP7 for 1,3,5-trinitrobenzene, N-Nitrosomethylethylamine, N-Nitrosopyrrolidine, a,a-dimethyl-phenethylamine, p-phenylenediamine, and pentachloronitrobenzene. Nondetected results were qualified as estimated, UJ, in samples MPT-47-GW-DPW17, MPT-47-GW-DPW19, MPT-47-GW-DU01, MPT-53-GW-DPW03.

The following compounds were detected in the laboratory method blanks:

<u>Compound</u>	<u>Maximum Concentration</u>	<u>Blank Action Level</u>
Bis(2-ethylhexyl)phthalate	3.0 µg/L	30 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for bis(2-ethylhexyl)phthalate below the blank action level were qualified as nondetected, U.

Blank spike recoveries fell below 10% for hexachlorocyclopentadiene. Nondetected results were rejected, UR, in all samples.

Blank spike recoveries were below the quality control limits for diethyl phthalate and dimethyl phthalate. No qualifications were assigned on this basis.

Blank spike recoveries were outside the quality control limits for 1,2-dichlorobenzene and dimethyl phthalate. No qualifications were assigned on this basis.

The Matrix Spike (MS) / Matrix Spike Duplicate (MSD) has a % recovery below 10% for hexachlorocyclopentadiene and dimethyl phthalate. Nondetected results for hexachlorocyclopentadiene were rejected, UR in sample, MPT-47-GW-DPW01. No qualifications were made for dimethyl phthalate since it was compliant in the MS and both blank spikes.

RPDs were outside quality control limits in the MPT-47-GW-DPW01 matrix spike duplicate for butyl benzyl phthalate, di-n-butyl phthalate, diethyl phthalate, and dimethyl phthalate. No qualifiers were assigned on this basis since recoveries were compliant in the matrix spike.

Additional Comments:

Positive results below the reporting limit (RL) were qualified as estimated, J, due to uncertainty near the detection limit.

The semivolatile fraction of sample MPT-47-GW-DPW02 was analyzed and reported at a 2.5X dilution factor due to matrix interference. This accounts for the elevated reporting limits for this sample.

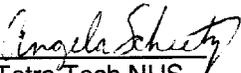
EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds exceeded the initial and/or continuing calibration %D and RRF criteria. Several target compounds were detected in the laboratory and field quality control blanks.

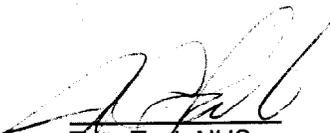
Other Factors Affecting Data Quality: Blank spike and/or matrix spike recoveries of hexachlorocyclopentadiene fell below 10%.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS

Angela Scheetz
Chemist/Data Validator


TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A – Qualified Analytical Results
- Appendix B – Results as Reported by the Laboratory
- Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW01
12/21/00
AOL110140001
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW02
12/22/00
AOL110140002
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW03
12/22/00
AOL110140003
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW04
12/22/00
AOL110140004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	A	10	U		10	U	A	10	U	A
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		0.13	J	P	1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW01	MPT-47-GW-DPW02	MPT-47-GW-DPW03	MPT-47-GW-DPW04
SAMPLE DATE:	12/21/00	12/22/00	12/22/00	12/22/00
LABORATORY ID:	AOL110140001	AOL110140002	AOL110140003	AOL110140004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	1	U	A	1	U	A	1	U	A
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW07
12/22/00
AOL110140005
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW08
12/22/00
AOL110140006
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW10
12/21/00
AOL120135005
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW11
12/21/00
AOL120135004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		0.11	J	P
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	A	10	U	A	10	U	A	10	U	A
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.11	J	P

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW07	MPT-47-GW-DPW08	MPT-47-GW-DPW10	MPT-47-GW-DPW11
SAMPLE DATE:	12/22/00	12/22/00	12/21/00	12/21/00
LABORATORY ID:	AOL110140005	AOL110140006	AOL120135005	AOL120135004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	1	U	A	1	U	A	1	U	A
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	AOL120135003	AOL120135002	AOL120135001	AOL150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1.8			0.67	J	P	1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	A	10	U	A	10	U	A	10	U	A
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		0.34	J	P	1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		1.8			0.67			0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW12
12/21/00
AOL120135003
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW15
12/22/00
AOL120135002
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW16
12/21/00
AOL120135001
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW17
01/03/01
AOL150102003
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	1	U	A	1	U	A	1	U	A
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	UJ	C
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1.4			0.16	J	P	1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW18	MPT-47-GW-DPW19	MPT-47-GW-DU01	MPT-53-GW-DPW01
SAMPLE DATE:	12/29/00	01/03/01	01/03/01	12/29/00
LABORATORY ID:	AOL150102001	AOL150102002	AOL150102006	AOL150102005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW17	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	A	10	U	A	10	U	A	10	U	A
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	0.2	J	P	1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW18
12/29/00
AOL150102001
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW19
01/03/01
AOL150102002
NORMAL
0.0 %
UG/L

MPT-47-GW-DU01
01/03/01
AOL150102006
NORMAL
0.0 %
UG/L
MPT-47-GW-DPW17

MPT-53-GW-DPW01
12/29/00
AOL150102005
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U	A	1	U	A	1	U	
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CT0091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-53-GW-DPW03
01/02/01
AOL150102004
NORMAL
0.0 %
UG/L

TB1208001
12/08/00
AOL110140007
TRIP BLANK
0.0 %
UG/L

TB1211001
12/11/00
AOL120135006
TRIP BLANK
0.0 %
UG/L

TB1213001
12/13/00
AOL150102007
TRIP BLANK
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	A	1.2	J	P	1.2	J	P	1.4	J	P
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-53-GW-DPW03
01/02/01
AOL150102004
NORMAL
0.0 %
UG/L

TB1208001
12/08/00
AOL110140007
TRIP BLANK
0.0 %
UG/L

TB1211001
12/11/00
AOL120135006
TRIP BLANK
0.0 %
UG/L

TB1213001
12/13/00
AOL150102007
TRIP BLANK
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	0.54	J	P	0.6	J	P	1	U	
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	UJ	C	1	U		1	U		1	UJ	C
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW01	MPT-47-GW-DPW02	MPT-47-GW-DPW03	MPT-47-GW-DPW04
SAMPLE DATE:	12/21/00	12/22/00	12/22/00	12/22/00
LABORATORY ID:	AOL110140001	AOL110140002	AOL110140003	AOL110140004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U		25	U		10	U		10	U	
1,2,4-TRICHLOROBENZENE	10	U		25	U		10	U		10	U	
1,2-DICHLOROBENZENE	10	U		25	U		10	U		10	U	
1,3,5-TRINITROBENZENE	10	UJ	C	25	UJ	C	10	UJ	C	10	UJ	C
1,3-DICHLOROBENZENE	10	U		25	U		10	U		10	U	
1,3-DINITROBENZENE	10	U		25	U		10	U		10	U	
1,4-DICHLOROBENZENE	10	U		25	U		10	U		10	U	
1,4-DIOXANE	10	U		25	U		10	U		10	U	
1,4-NAPHTHOQUINONE	10	U		25	U		10	U		10	U	
1-NAPHTHYLAMINE	10	U		25	U		10	U		10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U		25	U		10	U		10	U	
2,3,4,6-TETRACHLOROPHENOL	10	U		25	U		10	U		10	U	
2,4,5-TRICHLOROPHENOL	10	U		25	U		10	U		10	U	
2,4,6-TRICHLOROPHENOL	10	U		25	U		10	U		10	U	
2,4-DICHLOROPHENOL	10	U		25	U		10	U		10	U	
2,4-DIMETHYLPHENOL	10	U		25	U		10	U		10	U	
2,4-DINITROPHENOL	25	U		62	U		25	U		25	U	
2,4-DINITROTOLUENE	10	U		25	U		10	U		10	U	
2,6-DICHLOROPHENOL	10	U		25	U		10	U		10	U	
2,6-DINITROTOLUENE	10	U		25	U		10	U		10	U	
2-ACETYLAMINOFUORENE	10	U		25	U		10	U		10	U	
2-CHLORONAPHTHALENE	10	U		25	U		10	U		10	U	
2-CHLOROPHENOL	10	U		25	U		10	U		10	U	
2-METHYLNAPHTHALENE	10	U		25	U		10	U		10	U	
2-METHYLPHENOL	10	U		25	U		10	U		10	U	
2-NAPHTHYLAMINE	10	U		25	U		10	U		10	U	
2-NITROANILINE	25	U		62	U		25	U		25	U	
2-NITROPHENOL	10	U		25	U		10	U		10	U	
2-PICOLINE	10	U		25	U		10	U		10	U	
2-SEC-BUTYL-4,6-DINITROPHENOL	20	U		50	UJ	C	20	UJ	C	20	UJ	C
3,3'-DICHLOROBENZIDINE	10	U		25	U		10	U		10	U	
3,3'-DIMETHYLBENZIDINE	10	U		25	U		10	U		10	U	
3-METHYLCHOLANTHRENE	10	U		25	U		10	U		10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW01	MPT-47-GW-DPW02	MPT-47-GW-DPW03	MPT-47-GW-DPW04
SAMPLE DATE:	12/21/00	12/22/00	12/22/00	12/22/00
LABORATORY ID:	AOL110140001	AOL110140002	AOL110140003	AOL110140004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLPHENOL	10	U		25	U		10	U		10	U	
3-NITROANILINE	25	U		62	U		25	U		25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U		62	U		25	U		25	U	
4-AMINOBIIPHENYL	10	U		25	UJ	C	10	UJ	C	10	UJ	C
4-BROMOPHENYL PHENYL ETHER	10	U		25	U		10	U		10	U	
4-CHLORO-3-METHYLPHENOL	10	U		25	U		10	U		10	U	
4-CHLOROANILINE	10	U		25	U		10	U		10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U		25	U		10	U		10	U	
4-METHYLPHENOL	10	U		25	U		10	U		10	U	
4-NITROANILINE	25	U		62	U		25	U		25	U	
4-NITROPHENOL	25	U		62	U		25	U		25	U	
4-NITROQUINOLINE-1-OXIDE	10	U		25	U		10	U		10	U	
5-NITRO-O-TOLUIDINE	10	U		25	U		10	U		10	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U		25	U		10	U		10	U	
A,A-DIMETHYLPHENETHYLAMINE	50	U		120	U		50	U		50	U	
ACENAPHTHENE	10	U		25	U		10	U		10	U	
ACENAPHTHYLENE	10	U		25	U		10	U		10	U	
ACETOPHENONE	10	U		25	U		10	U		10	U	
ANILINE	10	U		25	U		10	U		10	U	
ANTHRACENE	10	U		25	U		10	U		10	U	
ARAMITE	10	U		25	U		10	U		10	U	
BENZO(A)ANTHRACENE	10	U		25	U		10	U		10	U	
BENZO(A)PYRENE	10	U		25	U		10	U		10	U	
BENZO(B)FLUORANTHENE	10	U		25	U		10	U		10	U	
BENZO(G,H,I)PERYLENE	10	U		25	U		10	U		10	U	
BENZO(K)FLUORANTHENE	10	U		25	U		10	U		10	U	
BENZYL ALCOHOL	10	U		25	U		10	U		10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U		25	U		10	U		10	U	
BIS(2-CHLOROETHYL)ETHER	10	U		25	U		10	U		10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		12	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U		25	U		10	U		10	U	
CARBAZOLE	10	U		25	U		10	U		10	U	
CHLOROBENZILATE	10	U		25	U		10	U		10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW01
12/21/00
AOL110140001
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW02
12/22/00
AOL110140002
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW03
12/22/00
AOL110140003
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW04
12/22/00
AOL110140004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHRYSENE	10	U		25	U		10	U		10	U	
DI-N-BUTYL PHTHALATE	10	U		25	U		10	U		10	U	
DI-N-OCTYL PHTHALATE	10	U		25	U		10	U		10	U	
DIALATE	20	U		50	U		20	U		20	U	
DIBENZO(A,H)ANTHRACENE	10	U		25	U		10	U		10	U	
DIBENZOFURAN	10	U		25	U		10	U		10	U	
DIETHYL PHTHALATE	10	U		25	U		10	U		10	U	
DIMETHYL PHTHALATE	10	U		25	U		10	U		10	U	
DIPHENYLAMINE	10	U		25	U		10	U		10	U	
ETHYL METHANESULFONATE	10	U		25	U		10	U		10	U	
FLUORANTHENE	10	U		25	U		10	U		10	U	
FLUORENE	10	U		25	U		10	U		10	U	
HEXACHLOROBENZENE	10	U		25	U		10	U		10	U	
HEXACHLOROBUTADIENE	10	U		25	U		10	U		10	U	
HEXACHLOROCYCLOPENTADIENE	10	UR	ED	25	UR	E	10	UR	E	10	UR	E
HEXACHLOROETHANE	10	U		25	U		10	U		10	U	
HEXACHLOROPROPENE	10	U		25	U		10	U		10	U	
INDENO(1,2,3-CD)PYRENE	10	U		25	U		10	U		10	U	
ISOPHORONE	10	U		25	U		10	U		10	U	
ISOSAFROLE	10	U		25	U		10	U		10	U	
METHAPYRILENE	10	U		25	U		10	U		10	U	
METHYL METHANESULFONATE	10	U		25	U		10	U		10	U	
N-NITROSO-DI-N-BUTYLAMINE	10	U		25	U		10	U		10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U		25	U		10	U		10	U	
N-NITROSODIETHYLAMINE	10	U		25	U		10	U		10	U	
N-NITROSODIMETHYLAMINE	10	U		25	U		10	U		10	U	
N-NITROSODIPHENYLAMINE	10	U		25	U		10	U		10	U	
N-NITROSOMETHYLETHYLAMINE	10	U		25	U		10	U		10	U	
N-NITROSOMORPHOLINE	10	U		25	U		10	U		10	U	
N-NITROSOPIPERIDINE	10	U		25	U		10	U		10	U	
N-NITROSOPYRROLIDINE	10	U		25	U		10	U		10	U	
NAPHTHALENE	10	U		25	U		10	U		10	U	
NITROBENZENE	10	U		25	U		10	U		10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW01	MPT-47-GW-DPW02	MPT-47-GW-DPW03	MPT-47-GW-DPW04
SAMPLE DATE:	12/21/00	12/22/00	12/22/00	12/22/00
LABORATORY ID:	AOL110140001	AOL110140002	AOL110140003	AOL110140004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	10	U		25	U		10	U		10	U	
P-DIMETHYLAMINOAZOBENZENE	10	U		25	U		10	U		10	U	
P-PHENYLENEDIAMINE	10	U		25	UJ	C	10	UJ	C	10	UJ	C
PENTACHLOROBENZENE	10	U		25	U		10	U		10	U	
PENTACHLOROETHANE	50	U		120	U		50	U		50	U	
PENTACHLORONITROBENZENE	10	U		25	U		10	U		10	U	
PENTACHLOROPHENOL	10	U		25	U		10	U		10	U	
PHENACETIN	10	U		25	U		10	U		10	U	
PHENANTHRENE	10	U		25	U		10	U		10	U	
PHENOL	10	U		25	U		10	U		10	U	
PRONAMIDE	10	U		25	U		10	U		10	U	
PYRENE	10	U		25	U		10	U		10	U	
PYRIDINE	10	U		25	U		10	U		10	U	
SAFROLE	10	U		25	U		10	U		10	U	
SULFOTEP	50	U		120	U		50	U		50	U	
THIONAZIN	50	U		120	U		50	U		50	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW07	MPT-47-GW-DPW08	MPT-47-GW-DPW10	MPT-47-GW-DPW11
SAMPLE DATE:	12/22/00	12/22/00	12/21/00	12/21/00
LABORATORY ID:	AOL110140005	AOL110140006	AOL120135005	AOL120135004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	UJ	C									
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
2-SEC-BUTYL-4,6-DINITROPHENOL	20	UJ	C	20	UJ	C	20	U		20	U	
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW07
12/22/00
AOL110140005
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW08
12/22/00
AOL110140006
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW10
12/21/00
AOL120135005
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW11
12/21/00
AOL120135004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	UJ	C	10	UJ	C	10	U		10	U	
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	2.9	J	P	10	U		10	U		10	U	
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		9.1	U	A
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW07	MPT-47-GW-DPW08	MPT-47-GW-DPW10	MPT-47-GW-DPW11
SAMPLE DATE:	12/22/00	12/22/00	12/21/00	12/21/00
LABORATORY ID:	AOL110140005	AOL110140006	AOL120135005	AOL120135004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	1.4	J	P	10	U		10	U		10	U	
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW07
12/22/00
A0L110140005
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW08
12/22/00
A0L110140006
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW10
12/21/00
A0L120135005
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW11
12/21/00
A0L120135004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C	10	UJ	C	10	U		10	U	
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEP	50	U										
THIONAZIN	50	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	AOL120135003	AOL120135002	AOL120135001	AOL150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	UJ	C									
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
2-SEC-BUTYL-4,6-DINITROPHENOL	20	U		20	UJ	C	20	U		20	U	
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	AOL120135003	AOL120135002	AOL120135001	AOL150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	U		10	UJ	C	10	U		10	U	
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U		50	U		50	U		50	UJ	C
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	AOL120135003	AOL120135002	AOL120135001	AOL150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLORO BENZENE	10	U										
HEXACHLORO BUTADIENE	10	U										
HEXACHLORO CYCLOPENTADIENE	10	UR	E									
HEXACHLORO ETHANE	10	U										
HEXACHLORO PROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U		10	U		10	U		10	UJ	C
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U		10	U		10	U		10	UJ	C
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW12	MPT-47-GW-DPW15	MPT-47-GW-DPW16	MPT-47-GW-DPW17
SAMPLE DATE:	12/21/00	12/22/00	12/21/00	01/03/01
LABORATORY ID:	A0L120135003	A0L120135002	A0L120135001	A0L150102003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U		10	UJ	C	10	U		10	UJ	C
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U		10	U		10	U		10	UJ	C
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEP	50	U										
THIONAZIN	50	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW18	MPT-47-GW-DPW19	MPT-47-GW-DU01	MPT-53-GW-DPW01
SAMPLE DATE:	12/29/00	01/03/01	01/03/01	12/29/00
LABORATORY ID:	AOL150102001	AOL150102002	AOL150102006	AOL150102005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW17	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	UJ	C									
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	UJ	C	10	U		10	U		10	UJ	C
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	UJ	C	25	U		25	U		25	UJ	C
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U		5.2	J	P	10	U		10	U	
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
2-SEC-BUTYL-4,6-DINITROPHENOL	20	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:	MPT-47-GW-DPW18	MPT-47-GW-DPW19	MPT-47-GW-DU01	MPT-53-GW-DPW01
SAMPLE DATE:	12/29/00	01/03/01	01/03/01	12/29/00
LABORATORY ID:	AOL150102001	AOL150102002	AOL150102006	AOL150102005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW17	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	UJ	C	10	U		10	U		10	UJ	C
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C	10	U		10	U		10	UR	C
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U		50	UJ	C	50	UJ	C	50	U	
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	UJ	C	10	U		10	U		10	UJ	C
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	UJ	C	10	U		10	U		10	UJ	C

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW18
12/29/00
AOL150102001
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW19
01/03/01
AOL150102002
NORMAL
0.0 %
UG/L

MPT-47-GW-DU01
01/03/01
AOL150102006
NORMAL
0.0 %
UG/L
MPT-47-GW-DPW17

MPT-53-GW-DPW01
12/29/00
AOL150102005
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U		10	UJ	C	10	UJ	C	10	U	
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U		10	UJ	C	10	UJ	C	10	U	
NAPHTHALENE	10	U		2.2	J	P	10	U		10	U	
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-47-GW-DPW18
12/29/00
AOL150102001
NORMAL
0.0 %
UG/L

MPT-47-GW-DPW19
01/03/01
AOL150102002
NORMAL
0.0 %
UG/L

MPT-47-GW-DU01
01/03/01
AOL150102006
NORMAL
0.0 %
UG/L
MPT-47-GW-DPW17

MPT-53-GW-DPW01
12/29/00
AOL150102005
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C									
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U		10	UJ	C	10	UJ	C	10	U	
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U		10	U		1.9	J	P	10	U	
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEP	50	U										
THIONAZIN	50	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER: MPT-53-GW-DPW03
 SAMPLE DATE: 01/02/01
 LABORATORY ID: AOL150102004
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF:

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	UJ	C									
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
2-SEC-BUTYL-4,6-DINITROPHENOL	20	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-53-GW-DPW03
01/02/01
A0L150102004
NORMAL
0.0 %
UG/L

//

100.0 %

//

100.0 %

//

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U										
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP032

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 UNITS:
 FIELD DUPLICATE OF:

MPT-53-GW-DPW03
 01/02/01
 A0L150102004
 NORMAL
 0.0 %
 UG/L

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	UJ	C									
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	UJ	C									
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP032**

SAMPLE NUMBER: MPT-53-GW-DPW03
 SAMPLE DATE: 01/02/01
 LABORATORY ID: AOL150102004
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF:

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C									
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	UJ	C									
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEP	50	U										
THIONAZIN	50	U										

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RE1A6

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.6	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RE1A6

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.75		J
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RE1A6

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RV1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.13	N
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RVLAH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DFW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.95	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RVIAH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.6	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.64		J
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q	U
		(ug/L or ug/kg)	ug/L		
1634-04-4	Methyl tert-butyl ether (MTB)	5.0			

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	4.4	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.79		J
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7R71AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.8	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7R71AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.89	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7R71AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	□

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7TH1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.1	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7TH1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.87	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032
Matrix: (soil/water) WG Lab Sample ID: AOL110140 006
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/09/00
Work Order: DQ7TH1AH Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/15/00
Moisture %:

Client Sample Id: MPT-47-GW-DPW08 QC Batch: 0353302

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP092

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84T1AH

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/16/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.4	J B
75-05-8	Acetonitrile	20	□
107-02-8	Acrolein	10	□
107-13-1	Acrylonitrile	10	□
71-43-2	Benzene	1.0	□
75-27-4	Bromodichloromethane	1.0	□
75-25-2	Bromoform	1.0	□
74-83-9	Bromomethane	2.0	□
75-15-0	Carbon disulfide	1.0	□
56-23-5	Carbon tetrachloride	1.0	□
108-90-7	Chlorobenzene	1.0	□
126-99-8	Chloroprene	1.0	□
124-48-1	Dibromochloromethane	1.0	□
96-12-8	1,2-Dibromo-3-chloropropane	1.0	□
75-00-3	Chloroethane	1.0	□
110-75-8	2-Chloroethyl vinyl ether	1.0	□
67-66-3	Chloroform	1.0	□
74-87-3	Chloromethane	1.0	□
107-05-1	Allyl chloride	1.0	□
74-95-3	Dibromomethane	1.0	□
110-57-6	trans-1,4-Dichloro-2-butene	1.0	□
75-71-8	Dichlorodifluoromethane	1.0	□
75-34-3	1,1-Dichloroethane	1.0	□
107-06-2	1,2-Dichloroethane	1.0	□
75-35-4	1,1-Dichloroethene	1.0	□
156-59-2	cis-1,2-Dichloroethene	0.50	□
156-60-5	trans-1,2-Dichloroethene	0.50	□
540-59-0	1,2-Dichloroethene (total)	1.0	□

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84T1AH

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/16/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.50		J
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84T1AH

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/16/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L120135 004

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
 Work Order: DQ84Q1AH Date Extracted: 12/15/00
 Dilution factor: 1 Date Analyzed: 12/15/00
 Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.7	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.11	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	0.11	J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84Q1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.90	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032
Matrix: (soil/water) WG Lab Sample ID: AOL120135 004
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
Work Order: DQ84Q1AH Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/15/00
Moisture %:

Client Sample Id: MPT-47-GW-DPW11 QC Batch: 0353302

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84P1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analysed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.4	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84P1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.41	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84PLAH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L120135 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
 Work Order: DQ84N1AH Date Extracted: 12/15/00
 Dilution factor: 1 Date Analyzed: 12/15/00
 Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.2	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.34	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.8	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.8	

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84N1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.37		J
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.4		
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84N1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 001

Method: SW846 8260E

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84D1A6

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW16

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.5	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.67	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	0.67	J

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84D1A6

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.42	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	0.16	J
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84D1A6

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NOS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAN1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.5	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP032

Matrix: (soil/water) WG

Lab Sample ID:A0L150102 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAN1A7

Date Extracted:12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.28	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAN1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAF1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW18

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	4.4	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.20	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAF1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAF1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAK1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.1	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAK1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	
100-41-4	Ethylbenzene	1.0	
97-63-2	Ethyl methacrylate	1.0	
75-69-4	Trichlorofluoromethane	2.0	
591-78-6	2-Hexanone	10	
74-88-4	Iodomethane	1.0	
78-83-1	Isobutyl alcohol	50	
126-98-7	Methacrylonitrile	1.0	
75-09-2	Methylene chloride	0.27	J
80-62-6	Methyl methacrylate	1.0	
107-12-0	Propionitrile	4.0	
100-42-5	Styrene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	
127-18-4	Tetrachloroethene	1.0	
108-88-3	Toluene	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	
79-01-6	Trichloroethene	1.0	
96-18-4	1,2,3-Trichloropropane	1.0	
108-05-4	Vinyl acetate	1.0	
75-01-4	Vinyl chloride	1.0	
1330-20-7	Xylenes (total)	1.0	
106-93-4	1,2-Dibromoethane (EDB)	1.0	
78-93-3	2-Butanone (MEK)	10	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAKLA7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAV1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	8.3	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAVIA7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAV1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAP1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.0	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAP1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.38	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAP1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL150102 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAW1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.2	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAW1A7

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.33	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP032

Matrix: (soil/water) WG

Lab Sample ID:A0L150102 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGAW1A7

Date Extracted:12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: A0L110140 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7TMLAA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: TB1208001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.2	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: AOL110140 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/09/00

Work Order: DQ7TM1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: TB1208001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: AOL120135 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84V1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/16/00

Moisture %:

QC Batch: 0353302

Client Sample Id: TB1211001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.2	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: AOL120135 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84V1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/16/00

Moisture %:

QC Batch: 0353302

Client Sample Id: TB1211001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		Q
10061-01-5	cis-1,3-Dichloropropene	1.0		Q
10061-02-6	trans-1,3-Dichloropropene	1.0		Q
100-41-4	Ethylbenzene	1.0		Q
97-63-2	Ethyl methacrylate	1.0		Q
75-69-4	Trichlorofluoromethane	2.0		Q
591-78-6	2-Hexanone	10		Q
74-88-4	Iodomethane	1.0		Q
78-83-1	Isobutyl alcohol	50		Q
126-98-7	Methacrylonitrile	1.0		Q
75-09-2	Methylene chloride	0.60		J
80-62-6	Methyl methacrylate	1.0		Q
107-12-0	Propionitrile	4.0		Q
100-42-5	Styrene	1.0		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0		Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0		Q
127-18-4	Tetrachloroethene	1.0		Q
108-88-3	Toluene	1.0		Q
71-55-6	1,1,1-Trichloroethane	1.0		Q
79-00-5	1,1,2-Trichloroethane	1.0		Q
79-01-6	Trichloroethene	1.0		Q
96-18-4	1,2,3-Trichloropropane	1.0		Q
108-05-4	Vinyl acetate	1.0		Q
75-01-4	Vinyl chloride	1.0		Q
1330-20-7	Xylenes (total)	1.0		Q
106-93-4	1,2-Dibromoethane (EDB)	1.0		Q
78-93-3	2-Butanone (MEK)	10		Q
108-10-1	4-Methyl-2-pentanone (MIBK)	10		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032
Matrix: (soil/water) WQ Lab Sample ID: AOL120135 006
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
Work Order: DQ84V1AA Date Extracted: 12/16/00
Dilution factor: 1 Date Analyzed: 12/16/00
Moisture %:

Client Sample Id: TB1211001 QC Batch: 0353302

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: A0L150102 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGA51AA

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: TB1213001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.4	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: A0L150102 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGA51AA

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: TB1213001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WQ

Lab Sample ID: AOL150102 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/14/00

Work Order: DRGA51AA

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: TB1213001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RE1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RE1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RE1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RE1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RE1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U
65-85-0	Benzoic acid	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RV1AK

Date Extracted: 12/12/00

Dilution factor: 2.5

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	25	U
208-96-8	Acenaphthylene	25	U
98-86-2	Acetophenone	25	U
53-96-3	2-Acetylaminofluorene	25	U
92-67-1	4-Aminobiphenyl	25	U
62-53-3	Aniline	25	U
120-12-7	Anthracene	25	U
56-55-3	Benzo (a) anthracene	25	U
205-99-2	Benzo (b) fluoranthene	25	U
207-08-9	Benzo (k) fluoranthene	25	U
191-24-2	Benzo (ghi) perylene	25	U
50-32-8	Benzo (a) pyrene	25	U
100-51-6	Benzyl alcohol	25	U
111-91-1	bis (2-Chloroethoxy) methane	25	U
111-44-4	bis (2-Chloroethyl) ether	25	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	25	U
117-81-7	bis (2-Ethylhexyl) phthalate	12	U
101-55-3	4-Bromophenyl phenyl ether	25	U
85-68-7	Butyl benzyl phthalate	25	U
106-47-8	4-Chloroaniline	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-58-7	2-Chloronaphthalene	25	U
95-57-8	2-Chlorophenol	25	U
7005-72-3	4-Chlorophenyl phenyl ether	25	U
218-01-9	Chrysene	25	U
2303-16-4	Diallate	50	U
53-70-3	Dibenz (a, h) anthracene	25	U
132-64-9	Dibenzofuran	25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RV1AK

Date Extracted: 12/12/00

Dilution factor: 2.5

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	25	U
95-50-1	1,2-Dichlorobenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
91-94-1	3,3'-Dichlorobenzidine	25	U
120-83-2	2,4-Dichlorophenol	25	U
87-65-0	2,6-Dichlorophenol	25	U
84-66-2	Diethyl phthalate	25	U
297-97-2	Thionazin	120	U
60-11-7	p-Dimethylaminoazobenzene	25	U
57-97-6	7,12-Dimethylbenz(a)anthracene	25	U
119-93-7	3,3'-Dimethylbenzidine	25	U
105-67-9	2,4-Dimethylphenol	25	U
131-11-3	Dimethyl phthalate	25	U
117-84-0	Di-n-octyl phthalate	25	U
99-65-0	1,3-Dinitrobenzene	25	U
534-52-1	4,6-Dinitro-2-methylphenol	62	U
51-28-5	2,4-Dinitrophenol	62	U
121-14-2	2,4-Dinitrotoluene	25	U
606-20-2	2,6-Dinitrotoluene	25	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	50	U
123-91-1	1,4-Dioxane	25	U
122-39-4	Diphenylamine	25	U
62-50-0	Ethyl methanesulfonate	25	U
206-44-0	Fluoranthene	25	U
86-73-7	Fluorene	25	U
118-74-1	Hexachlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RV1AK

Date Extracted: 12/12/00

Dilution factor: 2.5

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	25		U
67-72-1	Hexachloroethane	25		U
1888-71-7	Hexachloropropene	25		U
193-39-5	Indeno(1,2,3-cd)pyrene	25		U
78-59-1	Isophorone	25		U
120-58-1	Isosafrole	25		U
91-80-5	Methapyrilene	25		U
95-53-4	o-Toluidine	25		U
56-49-5	3-Methylcholanthrene	25		U
66-27-3	Methyl methanesulfonate	25		U
91-57-6	2-Methylnaphthalene	25		U
95-48-7	2-Methylphenol	25		U
108-39-4	3-Methylphenol	25		U
106-44-5	4-Methylphenol	25		U
91-20-3	Naphthalene	25		U
130-15-4	1,4-Naphthoquinone	25		U
134-32-7	1-Naphthylamine	25		U
91-59-8	2-Naphthylamine	25		U
88-74-4	2-Nitroaniline	62		U
99-09-2	3-Nitroaniline	62		U
100-01-6	4-Nitroaniline	62		U
98-95-3	Nitrobenzene	25		U
88-75-5	2-Nitrophenol	25		U
100-02-7	4-Nitrophenol	62		U
56-57-5	4-Nitroquinoline-1-oxide	25		U
924-16-3	N-Nitrosodi-n-butylamine	25		U
55-18-5	N-Nitrosodiethylamine	25		U
62-75-9	N-Nitrosodimethylamine	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RV1AK

Date Extracted: 12/12/00

Dilution factor: 2.5

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	25	U
86-30-6	N-Nitrosodiphenylamine	25	U
10595-95-6	N-Nitrosomethylethylamine	25	U
59-89-2	N-Nitrosomorpholine	25	U
100-75-4	N-Nitrosopiperidine	25	U
930-55-2	N-Nitrosopyrrolidine	25	U
99-55-8	5-Nitro-o-toluidine	25	U
608-93-5	Pentachlorobenzene	25	U
76-01-7	Pentachloroethane	120	U
82-68-8	Pentachloronitrobenzene	25	U
87-86-5	Pentachlorophenol	25	U
62-44-2	Phenacetin	25	U
85-01-8	Phenanthrene	25	U
108-95-2	Phenol	25	U
106-50-3	p-Phenylene diamine	25	U
109-06-8	2-Picoline	25	U
23950-58-5	Pronamide	25	U
129-00-0	Pyrene	25	U
110-86-1	Pyridine	25	U
94-59-7	Safrole	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
3689-24-5	Sulfotepp	120	U
120-82-1	1,2,4-Trichlorobenzene	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	25	U
99-35-4	1,3,5-Trinitrobenzene	25	U
86-74-8	Carbazole	25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RV1AK

Date Extracted: 12/12/00

Dilution factor: 2.5

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate		25	U
122-09-8	a, a-Dimethylphenethylamine		120	U
140-57-8	Aramite		25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL110140 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RW1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7RX1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7R71AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	2.9	J
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7R71AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz (a) anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	1.4	J
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7R71AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7R71AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7R71AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7TH1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7TH1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q	
		(ug/L or ug/kg)	ug/L		
84-74-2	Di-n-butyl phthalate	10			U
95-50-1	1,2-Dichlorobenzene	10			U
541-73-1	1,3-Dichlorobenzene	10			U
106-46-7	1,4-Dichlorobenzene	10			U
91-94-1	3,3'-Dichlorobenzidine	10			U
120-83-2	2,4-Dichlorophenol	10			U
87-65-0	2,6-Dichlorophenol	10			U
84-66-2	Diethyl phthalate	10			U
297-97-2	Thionazin	50			U
60-11-7	p-Dimethylaminoazobenzene	10			U
57-97-6	7,12-Dimethylbenz(a)anthracene	10			U
119-93-7	3,3'-Dimethylbenzidine	10			U
105-67-9	2,4-Dimethylphenol	10			U
131-11-3	Dimethyl phthalate	10			U
117-84-0	Di-n-octyl phthalate	10			U
99-65-0	1,3-Dinitrobenzene	10			U
534-52-1	4,6-Dinitro-2-methylphenol	25			U
51-28-5	2,4-Dinitrophenol	25			U
121-14-2	2,4-Dinitrotoluene	10			U
606-20-2	2,6-Dinitrotoluene	10			U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20			U
123-91-1	1,4-Dioxane	10			U
122-39-4	Diphenylamine	10			U
62-50-0	Ethyl methanesulfonate	10			U
206-44-0	Fluoranthene	10			U
86-73-7	Fluorene	10			U
118-74-1	Hexachlorobenzene	10			U
87-68-3	Hexachlorobutadiene	10			U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: AOL110140 006

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/09/00

Work Order: DQ7TH1AK Date Extracted: 12/12/00

Dilution factor: 1 Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L110140 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7TH1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L110140 006

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/09/00

Work Order: DQ7TH1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L	Q
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032
 Matrix: (soil/water) WG Lab Sample ID: A0L120135 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/12/00
 Work Order: DQ84T1AK Date Extracted: 12/12/00
 Dilution factor: 1 Date Analyzed: 12/21/00
 Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L120135 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/12/00
 Work Order: DQ84T1AK Date Extracted: 12/12/00
 Dilution factor: 1 Date Analyzed: 12/21/00
 Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L120135 005

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/12/00

Work Order: DQ84T1AK Date Extracted: 12/12/00

Dilution factor: 1 Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84T1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L120135 005

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/12/00

Work Order: DQ84T1AK Date Extracted: 12/12/00

Dilution factor: 1 Date Analyzed: 12/21/00

Moisture %: QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84Q1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	9.1	
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84Q1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84Q1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84Q1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84Q1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84P1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallylate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84P1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84PLAK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84P1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84P1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW12

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84N1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84N1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84N1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84N1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84N1AK

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: AOL120135 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84D1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84D1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84D1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84D1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/12/00

Work Order: DQ84D1AA

Date Extracted: 12/12/00

Dilution factor: 1

Date Analyzed: 12/21/00

Moisture %:

QC Batch: 0347316

Client Sample Id: MPT-47-GW-DPW16

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAN1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: AOL150102 003

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGANIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAN1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L150102 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/14/00
 Work Order: DRGAN1AJ Date Extracted: 12/15/00
 Dilution factor: 1 Date Analyzed: 01/03/01
 Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L150102 003

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGANIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW17

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAF1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAF1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAF1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAF1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAF1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW18

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAK1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAKIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAKIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	5.2	J
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	2.2	J
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAK1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAK1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAWIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAWLAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAW1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L150102 006
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/14/00
 Work Order: DRGAWIAJ Date Extracted: 12/15/00
 Dilution factor: 1 Date Analyzed: 01/02/01
 Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	1.9	J
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAW1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032
 Matrix: (soil/water) WG Lab Sample ID: A0L150102 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 12/14/00
 Work Order: DRGAVIAJ Date Extracted: 12/15/00
 Dilution factor: 1 Date Analyzed: 12/29/00
 Moisture %:
 QC Batch: 0350314
 Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WG Lab Sample ID: A0L150102 005

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/14/00

Work Order: DRGAVIAJ Date Extracted: 12/15/00

Dilution factor: 1 Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAVIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAVIAJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032
Matrix: (soil/water) WG Lab Sample ID: A0L150102 005
Method: SW846 8270C
Base/Neutrals and Acids (8270C)
Sample WT/Vol: 1000 / mL Date Received: 12/14/00
Work Order: DRGAVIAJ Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/29/00
Moisture %:
QC Batch: 0350314
Client Sample Id: MPT-53-GW-DPW01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAP1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAP1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAP1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAP1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAP1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-53-GW-DPW03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L	Q
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

APPENDIX C

SUPPORT DOCUMENTATION

MP032

HOLDING TIME

01/19/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	CN	12/08/00	12/20/00	12/20/00	12	0	12
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	CN	12/11/00	12/21/00	12/21/00	10	0	10
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	CN	12/13/00	12/26/00	12/26/00	13	0	13
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	HG	12/08/00	12/19/00	12/19/00	11	0	11
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	HG	12/11/00	12/19/00	12/19/00	8	0	8
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	HG	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	M	12/08/00	12/19/00	12/20/00	11	1	12
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	M	12/11/00	12/19/00	12/21/00	8	2	10
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	M	12/11/00	12/19/00	12/20/00	8	1	9
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	M	12/13/00	12/19/00	12/21/00	6	2	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	OS	12/08/00	12/12/00	12/21/00	4	9	13
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	OS	12/08/00	12/12/00	12/22/00	4	10	14
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	OS	12/11/00	12/12/00	12/22/00	1	10	11
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	OS	12/11/00	12/12/00	12/21/00	1	9	10
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	OS	12/13/00	12/15/00	01/03/01	2	19	21
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	OS	12/13/00	12/15/00	12/29/00	2	14	16
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	OS	12/13/00	12/15/00	01/03/01	2	19	21
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	OS	12/13/00	12/15/00	01/02/01	2	18	20
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	OS	12/13/00	12/15/00	12/29/00	2	14	16
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	OS	12/13/00	12/15/00	01/02/01	2	18	20
UG/L	MPT-47-GW-DPW01	A0L110140001	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW02	A0L110140002	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW03	A0L110140003	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW04	A0L110140004	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW07	A0L110140005	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW08	A0L110140006	NORMAL	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	MPT-47-GW-DPW10	A0L120135005	NORMAL	MP032	OV	12/11/00	12/16/00	12/16/00	5	0	5
UG/L	MPT-47-GW-DPW11	A0L120135004	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4
UG/L	MPT-47-GW-DPW12	A0L120135003	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4
UG/L	MPT-47-GW-DPW15	A0L120135002	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-GW-DPW16	A0L120135001	NORMAL	MP032	OV	12/11/00	12/15/00	12/15/00	4	0	4
UG/L	MPT-47-GW-DPW17	A0L150102003	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW18	A0L150102001	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DPW19	A0L150102002	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-47-GW-DU01	A0L150102006	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW01	A0L150102005	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	MPT-53-GW-DPW03	A0L150102004	NORMAL	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6
UG/L	TB1208001	A0L110140007	TRIP BLANK	MP032	OV	12/08/00	12/15/00	12/15/00	7	0	7
UG/L	TB1211001	A0L120135006	TRIP BLANK	MP032	OV	12/11/00	12/16/00	12/16/00	5	0	5
UG/L	TB1213001	A0L150102007	TRIP BLANK	MP032	OV	12/13/00	12/19/00	12/19/00	6	0	6



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER

PAGE 1 OF 1

PROJECT NO: NO123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen	LABORATORY NAME AND CONTACT: Quanterra/STL Denise Pohl
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)													COMMENTS	
						PRESERVATIVE USED														
						TYPE OF ANALYSIS														
						5035/8260-VOC	8270-SvOC	6910-Metals	Tin	9010-Cyanide	7470-Mercury	7480-Molybdenum	HCl	-	HNO ₃	HNO ₃	NaOH	HNO ₃	HNO ₃	
12-8	1051	MPT-47-GW-DPW01	GW	G	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cool to 4°C
	1040	MPT-47-GW-DPW02	|	|	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1200	MPT-47-GW-DPW03	|	|	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1201	MPT-47-GW-DPW04	|	|	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1335	MPT-47-GW-DPW07	|	|	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1345	MPT-47-GW-DPW08	↓	↓	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		TB1208001	W		2	X														

1. RELINQUISHED BY 	DATE 12-8-00	TIME 1700	1. RECEIVED BY 	DATE 12/9/00	TIME 9:45
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: **1.390.8°C**



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER

PAGE ___ OF ___

PROJECT NO: NO123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen (904) 385 9879	LABORATORY NAME AND CONTACT: Quanterra - STL Denise Boh
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N. Canton, OH

STANDARD TAT RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS												COMMENTS						
						5035/820 VOC	8270 - VOC	6010 - SVOC	HCl	G	G	9010 - HNO ₃	P	P	7470 - Cyanide	7480 - Mercury	HNO ₃		P	P				
12/17	1030	MPT-47-GW-DPW18	GW	G	7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cool to 4°C
	1035	MPT-47-GW-DPW19			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1145	MPT-47-GW-DPW17			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1335	MPT-53-GW-DPW03			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	1430	MPT-53-GW-DPW01			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	0000	MPT-47-GW-DW01			7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		TB1213001			2	X																		

1. RELINQUISHED BY 	DATE 12/13/00	TIME 1700	1. RECEIVED BY 	DATE 12/14/00	TIME 10:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

Field Duplicate Summary				
	Analyte			
		MPT-47-GW-DU01	MPT-47-GW-DPW17	
Volatile		ND	ND	
Semivolatile	Phenol	1.9 J	10 U	NC

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: A0L180000 302
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
Work Order: DRLAP1AA Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/15/00
Moisture %: NA

QC Batch: 0353302

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.6	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: AOL180000 302
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
Work Order: DRLAP1AA Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/15/00
Moisture %: NA

QC Batch: 0353302

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: A0L180000 302
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/12/00
Work Order: DRLAP1AA Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/15/00
Moisture %: NA

QC Batch: 0353302

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: A0L200000 285
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/15/00
Work Order: DRQGW1AA Date Extracted: 12/19/00
Dilution factor: 1 Date Analyzed: 12/19/00
Moisture %: NA

QC Batch: 0355285

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: A0L200000 285
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/15/00
Work Order: DRQGWIAA Date Extracted: 12/19/00
Dilution factor: 1 Date Analyzed: 12/19/00
Moisture %: NA

QC Batch: 0355285

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\8260LLUX11.m
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\UXJ828.D
 Level 2: \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\UXJ827.D
 Level 3: \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\UXJ826.D
 Level 4: \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\UXJ825.D
 Level 5: \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\UXJ824.D

Compound	5.000	25.000	50.000	100.000	200.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.18305	0.23525	0.24139	0.22567	0.21940	0.22095	10.330
9 Chloromethane	0.26007	0.26656	0.27618	0.24361	0.24375	0.25793	5.516
10 Vinyl Chloride	0.23035	0.24958	0.26702	0.24654	0.24924	0.24857	5.238
11 Bromomethane	0.17934	0.19060	0.19625	0.19090	0.12906	0.17719	15.569
12 Chloroethane	0.15577	0.16899	0.17709	0.16413	0.14847	0.16289	6.857
13 Trichlorofluoromethane	0.25219	0.30243	0.34142	0.33603	0.33958	0.31436	12.172
14 Dichlorofluoromethane	0.35154	0.37658	0.39729	0.42448	0.40812	0.39160	7.242
15 Acrolein	0.02147	0.02256	0.02490	0.02486	0.02504	0.02377	6.933
16 Acetone	0.12051	0.07778	0.07996	0.06972	0.06772	0.08314	25.890
17 1,1-Dichloroethane	0.18961	0.20318	0.21326	0.19242	0.20668	0.20103	4.916
18 Freon-113	0.18688	0.17568	0.21742	0.20571	0.21379	0.19990	8.983
19 Iodomethane	0.36670	0.36836	0.39529	0.36170	0.37109	0.37263	3.522
20 Carbon Disulfide	0.62231	0.64591	0.67877	0.63199	0.66620	0.64904	3.608
21 Methylene Chloride	0.22595	0.22194	0.23182	0.20952	0.22169	0.22212	3.644
22 Acetonitrile	0.02578	0.02577	0.02633	0.02495	0.02665	0.02590	2.504
23 Acrylonitrile	0.07808	0.08306	0.09072	0.08021	0.08417	0.08325	5.783
24 Methyl tert-butyl ether	0.62821	0.64170	0.70671	0.64915	0.68806	0.66277	5.001
25 trans-1,2-Dichloroethene	0.21550	0.22754	0.23469	0.21938	0.23866	0.22716	4.322
26 Hexane	0.04472	0.04613	0.05892	0.05745	0.06037	0.05352	13.969
27 Vinyl acetate	0.16720	0.17560	0.19056	0.18456	0.19516	0.18262	6.189
28 1,1-Dichloroethane	0.33920	0.36297	0.38424	0.35292	0.38361	0.36459	5.366
29 tert-Butyl Alcohol	0.01837	0.01615	0.02213	0.01659	0.01624	0.01790	14.156
30 2-Butanone	0.09148	0.08643	0.09999	0.08889	0.08826	0.09101	5.866
M 31 1,2-Dichloroethene (total)	0.22607	0.23464	0.23900	0.22245	0.24101	0.23263	3.476
32 cis-1,2-dichloroethene	0.23663	0.24173	0.24331	0.22552	0.24337	0.23811	3.174
33 2,2-Dichloropropane	0.30098	0.32346	0.34974	0.32383	0.34805	0.32921	6.142

NA

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\8260LLUX11.m
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.11728	0.12502	0.12998	0.12006	0.12516	0.12350	4.000
35 Chloroform	0.33930	0.36365	0.37054	0.34778	0.37162	0.35858	4.011
36 Tetrahydrofuran	0.05676	0.05495	0.06252	0.05335	0.05502	0.05652	6.306
37 1,1,1-Trichloroethane	0.33388	0.34441	0.36977	0.33825	0.35845	0.34895	4.265
38 1,1-Dichloropropene	0.26970	0.27711	0.29320	0.27861	0.29278	0.28228	3.664
39 Carbon Tetrachloride	0.27846	0.30670	0.31305	0.29277	0.30825	0.29985	4.714
40 1,2-Dichloroethane	0.27443	0.29215	0.31031	0.28679	0.29917	0.29257	4.590
41 Benzene	0.89097	0.87862	0.91478	0.84654	0.89285	0.88475	2.827
42 Trichloroethene	0.26331	0.26154	0.26483	0.24960	0.26177	0.26021	2.335
43 1,2-Dichloropropane	0.20269	0.20428	0.21502	0.20183	0.21200	0.20717	2.875
44 1,4-Dioxane	0.00198	0.00207	0.00229	0.00213	0.00196	0.00209	6.461
45 Dibromomethane	0.12879	0.12423	0.13182	0.12615	0.12816	0.12783	2.238
46 Bromodichloromethane	0.24060	0.26059	0.26610	0.24911	0.26296	0.25587	4.174
47 2-Chloroethyl vinyl ether	0.10548	0.11995	0.12975	0.12210	0.12203	0.11986	7.398
48 cis-1,3-Dichloropropene	0.30781	0.32404	0.34011	0.33281	0.35267	0.33149	5.094
49 4-Methyl-2-pentanone	0.17790	0.18234	0.20781	0.18480	0.18221	0.18701	6.357
50 Toluene	1.20413	1.26556	1.33196	1.23425	1.31904	1.27099	4.287
51 trans-1,3-Dichloropropene	0.38166	0.39353	0.43406	0.39897	0.43310	0.40826	5.865
52 Ethyl Methacrylate	0.29379	0.33421	0.36515	0.33337	0.35639	0.33658	8.212
53 1,1,2-Trichloroethane	0.22418	0.24758	0.26266	0.23620	0.24750	0.24362	5.899
54 1,3-Dichloropropane	0.42650	0.42952	0.46487	0.41922	0.44562	0.43714	4.177
55 Tetrachloroethene	0.28444	0.28887	0.30095	0.27320	0.29163	0.28782	3.531
56 2-Hexanone	0.15976	0.16687	0.19367	0.16770	0.16484	0.17057	7.785
57 Dibromochloromethane	0.25046	0.25597	0.27398	0.25288	0.26934	0.26052	4.023
58 1,2-Dibromoethane	0.24635	0.25711	0.27086	0.24100	0.25308	0.25368	4.502
59 Chlorobenzene	0.83520	0.88262	0.91175	0.82547	0.88639	0.86828	4.212
60 1,1,1,2-Tetrachloroethane	0.28846	0.30045	0.32061	0.28808	0.31106	0.30173	4.709
61 Ethylbenzene	0.43668	0.47951	0.50931	0.45301	0.49224	0.47415	6.188
62 m + p-Xylene	0.52612	0.58331	0.61694	0.56164	0.60512	0.57862	6.254
M 63 Xylenes (total)	0.52837	0.57951	0.61499	0.56175	0.60827	0.57858	6.118
64 Xylene-o	0.53288	0.57191	0.61107	0.56196	0.61459	0.57848	5.964
65 Styrene	0.87946	0.95397	1.02609	0.94568	1.03771	0.96858	6.684
66 Bromoform	0.15330	0.15497	0.17412	0.15632	0.16999	0.16174	5.928

NA

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\A3UX11.I\J01213A.B\8260LLUX11.M
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
67 Isopropylbenzene	1.28650	1.45212	1.56364	1.43505	1.57582	1.46263	8.010
68 1,1,2,2-Tetrachloroethane	0.53355	0.50423	0.55338	0.48672	0.50351	0.51628	5.177
69 1,4-Dichloro-2-butene	0.07031	0.07153	0.09118	0.11114	0.14246	0.09732	31.086
70 1,2,3-Trichloropropane	0.17973	0.18476	0.20212	0.17471	0.17877	0.18402	5.833
71 Bromobenzene	0.63232	0.62287	0.65820	0.61010	0.63905	0.63251	2.848
72 n-Propylbenzene	0.64114	0.69885	0.74734	0.68555	0.72753	0.70008	5.834
73 2-Chlorotoluene	0.57356	0.58851	0.62047	0.56872	0.60274	0.59080	3.604
74 1,3,5-Trimethylbenzene	1.80962	1.94945	2.11855	1.99130	2.10828	1.99544	6.366
75 4-Chlorotoluene	0.59370	0.59608	0.64793	0.60526	0.63847	0.61429	4.507
76 tert-Butylbenzene	1.59551	1.80308	1.95982	1.85534	1.96342	1.83544	8.211
77 1,2,4-Trimethylbenzene	1.94477	2.07624	2.20949	2.06243	2.19295	2.09717	5.150
78 sec-Butylbenzene	2.33268	2.43702	2.65185	2.49225	2.66490	2.51574	5.658
79 4-Isopropyltoluene	1.99085	2.20214	2.42448	2.25478	2.42693	2.25984	8.000
80 1,3-Dichlorobenzene	1.27270	1.28616	1.33749	1.22294	1.30679	1.28521	3.309
81 1,4-Dichlorobenzene	1.39032	1.30833	1.38948	1.27810	1.34407	1.34206	3.690
82 n-Butylbenzene	1.87213	1.92008	2.11743	1.97094	2.09246	1.99461	5.363
83 1,2-Dichlorobenzene	1.24128	1.24997	1.32951	1.22797	1.30114	1.26997	3.411
84 1,2-Dibromo-3-chloropropane	0.11336	0.13109	0.14531	0.12666	0.13142	0.12957	8.839
85 1,2,4-Trichlorobenzene	1.04359	1.07919	1.15866	1.05607	1.14012	1.09553	4.676
86 Hexachlorobutadiene	0.46207	0.44380	0.47610	0.44156	0.46762	0.45823	3.289
87 Naphthalene	2.11966	2.30014	2.65394	2.30387	2.48419	2.37236	8.576
88 1,2,3-Trichlorobenzene	0.95835	1.00672	1.06210	0.95621	1.03275	1.00323	4.615
89 Ethyl Ether	0.16885	0.17704	0.17531	0.18809	0.17662	0.17718	3.912
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.11029	0.11676	0.12259	0.12913	0.12250	0.12025	5.891
92 Isopropyl Ether	0.18678	0.20405	0.21221	0.22695	0.22004	0.21001	7.408
93 2-Chloro-1,3-butadiene	0.30798	0.33345	0.34378	0.36727	0.36037	0.34257	6.859
94 Propionitrile	0.02972	0.02634	0.02821	0.02874	0.03085	0.02877	5.884
95 Ethyl Acetate	0.17650	0.16119	0.16968	0.17920	0.18981	0.17528	6.105
96 Methacrylonitrile	0.11310	0.12046	0.11975	0.12953	0.13410	0.12339	6.781
97 Isobutanol	0.00586	0.00588	0.00649	0.00733	0.00856	0.00682	16.696 <-
98 Cyclohexane	0.31654	0.30690	0.38624	0.36725	0.38434	0.35226	10.755
99 n-Butanol	0.00444	0.00454	0.00467	0.00565	0.00666	0.00519	18.357 <-

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\A3UX11.I\J01213A.B\8260LLUX11.M
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
100 Methyl Methacrylate	0.14878	0.15731	0.16276	0.17315	0.18356	0.16511	8.228
101 2-Nitropropane	0.03216	0.03390	0.03524	0.03757	0.04076	0.03553	9.314
102 Chloropicrin	++++	++++	++++	++++	++++	++++	NA
103 Cyclohexanone	0.03080	0.02974	0.03171	0.03523	0.03714	0.03292	9.509
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	NA
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	<-
134 Thiophene	++++	++++	++++	++++	++++	++++	<-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	<-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	<-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	<-
138 Paraldehyde	++++	++++	++++	++++	++++	++++	<-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	<-
140 1-Chlorohexane	++++	++++	++++	++++	++++	++++	<-
141 1,3,5-Trichlorobenzene	1.17994	1.06840	1.17837	1.09163	1.13836	1.13134	4.455
143 Methyl Acetate	0.17926	0.16917	0.19129	0.17357	0.17098	0.17685	5.047
144 Methylcyclohexane	0.32225	0.33686	0.40699	0.38579	0.40948	0.37227	10.852
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	<-
S 4 Dibromofluoromethane	0.20307	0.20044	0.20710	0.19524	0.20525	0.20222	2.287
S 5 1,2-Dichloroethane-d4	0.22761	0.23795	0.25425	0.24101	0.25030	0.24222	4.344
S 6 Toluene-d8	1.05212	1.05464	1.13198	1.04567	1.11682	1.08025	3.776
S 7 Bromofluorobenzene	0.40677	0.41694	0.43801	0.40861	0.44245	0.42256	3.942

Data File: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\UXJ914.D
 Report Date: 15-Dec-2000 18:31

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 15-DEC-2000 18:15
 Lab File ID: UXJ914.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
\$ 4 Dibromofluoromethane	0.20222	0.20948	0.010	3.6	50.0
\$ 5 1,2-Dichloroethane-d4	0.24222	0.25707	0.010	6.1	50.0
\$ 6 Toluene-d8	1.08025	1.04687	0.010	-3.1	50.0
\$ 7 Bromofluorobenzene	0.42256	0.42448	0.010	0.5	50.0
8 Dichlorodifluoromethane	0.22095	0.20843	0.010	-5.7	50.0
9 Chloromethane	0.25793	0.28079	0.100	8.9	50.0
10 Vinyl Chloride	0.24857	0.26146	0.010	5.2	20.0
11 Bromomethane	0.17719	0.21173	0.010	19.5	50.0
12 Chloroethane	0.16289	0.19250	0.010	18.2	50.0
13 Trichlorofluoromethane	0.31436	0.32340	0.010	2.9	50.0
15 Acrolein	0.02377	0.02533	0.010	6.6	50.0
16 Acetone	0.08314	0.08072	0.010	-2.9	50.0
17 1,1-Dichloroethene	0.20103	0.20919	0.010	4.1	20.0
18 Freon-113	0.19990	0.22103	0.010	10.6	50.0
19 Iodomethane	0.37263	0.41196	0.010	10.6	50.0
20 Carbon Disulfide	0.64904	0.67759	0.010	4.4	50.0
21 Methylene Chloride	0.22212	0.23725	0.010	6.8	50.0
22 Acetonitrile	0.02590	0.02796	0.010	8.0	50.0
23 Acrylonitrile	0.08325	0.09236	0.010	10.9	50.0
24 Methyl tert-butyl ether	0.66277	0.72335	0.010	9.1	50.0
25 trans-1,2-Dichloroethene	0.22716	0.24870	0.010	9.5	50.0
26 Hexane	0.05352	0.05654	0.010	5.7	50.0
27 Vinyl acetate	0.18262	0.17911	0.010	-1.9	50.0
28 1,1-Dichloroethane	0.36459	0.40071	0.100	9.9	50.0
29 tert-Butyl Alcohol	0.01790	0.01900	0.010	6.2	50.0
30 2-Butanone	0.09101	0.09501	0.010	4.4	50.0
M 31 1,2-Dichloroethene (total)	0.23263	0.25112	0.010	7.9	50.0
32 cis-1,2-dichloroethene	0.23811	0.25354	0.010	6.5	50.0
33 2,2-Dichloropropane	0.32921	0.34318	0.010	4.2	50.0
34 Bromochloromethane	0.12350	0.13588	0.010	10.0	50.0
35 Chloroform	0.35858	0.39061	0.010	8.9	20.0
36 Tetrahydrofuran	0.05652	0.06168	0.010	9.1	50.0
37 1,1,1-Trichloroethane	0.34895	0.36985	0.010	6.0	50.0
38 1,1-Dichloropropene	0.28228	0.29399	0.010	4.1	50.0
39 Carbon Tetrachloride	0.29985	0.32539	0.010	8.5	50.0
40 1,2-Dichloroethane	0.29257	0.32021	0.010	9.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 15-DEC-2000 18:15
 Lab File ID: UXJ914.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
41 Benzene	0.88475	0.93124	0.010	5.3	50.0
42 Trichloroethene	0.26021	0.27134	0.010	4.3	50.0
43 1,2-Dichloropropane	0.20717	0.22053	0.010	6.5	20.0
44 1,4-Dioxane	0.00209	0.00227	0.010	8.7	50.0
45 Dibromomethane	0.12783	0.13753	0.010	7.6	50.0
46 Bromodichloromethane	0.25587	0.27749	0.010	8.4	50.0
47 2-Chloroethyl vinyl ether	0.11986	0.12990	0.010	8.4	50.0
48 cis-1,3-Dichloropropene	0.33149	0.35275	0.010	6.4	50.0
49 4-Methyl-2-pentanone	0.18701	0.20675	0.010	10.6	50.0
50 Toluene	1.27099	1.34184	0.010	5.6	20.0
51 trans-1,3-Dichloropropene	0.40826	0.42483	0.010	4.1	50.0
52 Ethyl Methacrylate	0.33658	0.37281	0.010	10.8	50.0
53 1,1,2-Trichloroethane	0.24362	0.26162	0.010	7.4	50.0
54 1,3-Dichloropropane	0.43714	0.46849	0.010	7.2	50.0
55 Tetrachloroethene	0.28782	0.29438	0.010	2.3	50.0
56 2-Hexanone	0.17057	0.18920	0.010	10.9	50.0
57 Dibromochloromethane	0.26052	0.28482	0.010	9.3	50.0
58 1,2-Dibromoethane	0.25368	0.27540	0.010	8.6	50.0
59 Chlorobenzene	0.86828	0.91695	0.300	5.6	50.0
60 1,1,1,2-Tetrachloroethane	0.30173	0.33512	0.010	11.1	50.0
61 Ethylbenzene	0.47415	0.50176	0.010	5.8	20.0
62 m + p-Xylene	0.57862	0.61016	0.010	5.5	50.0
M 63 Xylenes (total)	0.57858	0.61290	0.010	5.9	50.0
64 Xylene-o	0.57848	0.61838	0.010	6.9	50.0
65 Styrene	0.96858	1.02679	0.010	6.0	50.0
66 Bromoform	0.16174	0.18598	0.100	15.0	50.0
67 Isopropylbenzene	1.46263	1.55619	0.010	6.4	50.0
68 1,1,2,2-Tetrachloroethane	0.51628	0.56350	0.300	9.1	50.0
69 1,4-Dichloro-2-butene	0.09732	0.09112	0.010	-6.4	50.0
70 1,2,3-Trichloropropane	0.18402	0.20547	0.010	11.7	50.0
71 Bromobenzene	0.63251	0.66534	0.010	5.2	50.0
72 n-Propylbenzene	0.70008	0.71932	0.010	2.7	50.0
73 2-Chlorotoluene	0.59080	0.61500	0.010	4.1	50.0
74 1,3,5-Trimethylbenzene	1.99544	2.09232	0.010	4.9	50.0
75 4-Chlorotoluene	0.61429	0.64795	0.010	5.5	50.0
76 tert-Butylbenzene	1.83544	1.93237	0.010	5.3	50.0

NA

Data File: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\UXJ914.D
 Report Date: 15-Dec-2000 18:31

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 15-DEC-2000 18:15
 Lab File ID: UXJ914.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
77 1,2,4-Trimethylbenzene	2.09717	2.19399	0.010	4.6	50.0
78 sec-Butylbenzene	2.51574	2.57368	0.010	2.3	50.0
79 4-Isopropyltoluene	2.25984	2.37908	0.010	5.3	50.0
80 1,3-Dichlorobenzene	1.28521	1.32225	0.010	2.9	50.0
81 1,4-Dichlorobenzene	1.34206	1.38315	0.010	3.1	50.0
82 n-Butylbenzene	1.99461	2.02473	0.010	1.5	50.0
83 1,2-Dichlorobenzene	1.26997	1.34865	0.010	6.2	50.0
84 1,2-Dibromo-3-chloropropane	0.12957	0.14636	0.010	13.0	50.0
85 1,2,4-Trichlorobenzene	1.09553	1.11416	0.010	1.7	50.0
86 Hexachlorobutadiene	0.45823	0.44530	0.010	-2.8	50.0
87 Naphthalene	2.37236	2.55433	0.010	7.7	50.0
88 1,2,3-Trichlorobenzene	1.00323	1.03207	0.010	2.9	50.0
98 Cyclohexane	0.35226	0.40159	0.010	14.0	50.0
143 Methyl Acetate	0.17685	0.19635	0.010	11.0	50.0
144 Methylcyclohexane	0.37227	0.41888	0.010	12.5	50.0
141 1,3,5-Trichlorobenzene	1.13134	1.19246	0.010	5.4	50.0

Data File: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\UXJ913.D
 Report Date: 15-Dec-2000 18:08

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 15-DEC-2000 17:52
 Lab File ID: UXJ913.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
14 Dichlorofluoromethane	0.39160	0.42036	0.010	7.3	50.0
89 Ethyl Ether	0.17718	0.18701	0.010	5.5	50.0
91 3-Chloropropene	0.12025	0.12812	0.010	6.5	50.0
92 Isopropyl Ether	0.21001	0.23127	0.010	10.1	50.0
93 2-Chloro-1,3-butadiene	0.34257	0.36265	0.010	5.9	50.0
94 Propionitrile	0.02877	0.03113	0.010	8.2	50.0
95 Ethyl Acetate	0.17528	0.18889	0.010	7.8	50.0
96 Methacrylonitrile	0.12339	0.13024	0.010	5.6	50.0
97 Isobutanol	0.00682	0.00760	0.010	11.3	50.0
99 n-Butanol	0.00519	0.00609	0.010	17.4	50.0
100 Methyl Methacrylate	0.16511	0.18085	0.010	9.5	50.0
101 2-Nitropropane	0.03593	0.04085	0.010	13.7	50.0
103 Cyclohexanone	0.03292	0.02429	0.010	-26.2	50.0

NA

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ993.D
 Report Date: 19-Dec-2000 09:57

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
 Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
4 Dibromofluoromethane	0.20222	0.22034	0.010	9.0	50.0
5 1,2-Dichloroethane-d4	0.24222	0.25592	0.010	5.7	50.0
6 Toluene-d8	1.08025	1.14536	0.010	6.0	50.0
7 Bromofluorobenzene	0.42256	0.44681	0.010	5.7	50.0
8 Dichlorodifluoromethane	0.22095	0.21590	0.010	-2.3	50.0
9 Chloromethane	0.25793	0.26162	0.100	1.4	50.0
10 Vinyl Chloride	0.24857	0.26070	0.010	4.9	20.0
11 Bromomethane	0.17719	0.21192	0.010	19.6	50.0
12 Chloroethane	0.16289	0.18672	0.010	14.6	50.0
13 Trichlorofluoromethane	0.31436	0.33479	0.010	6.5	50.0
15 Acrolein	0.02377	0.02934	0.010	23.5	50.0
16 Acetone	0.08314	0.07968	0.010	-4.2	50.0
17 1,1-Dichloroethene	0.20103	0.21633	0.010	7.6	20.0
18 Freon-113	0.19990	0.25686	0.010	28.5	50.0
19 Iodomethane	0.37263	0.41324	0.010	10.9	50.0
20 Carbon Disulfide	0.64904	0.70846	0.010	9.2	50.0
21 Methylene Chloride	0.22212	0.23378	0.010	5.2	50.0
22 Acetonitrile	0.02590	0.02707	0.010	4.5	50.0
23 Acrylonitrile	0.08325	0.08321	0.010	-0.1	50.0
24 Methyl tert-butyl ether	0.66277	0.63482	0.010	-4.2	50.0
25 trans-1,2-Dichloroethene	0.22716	0.24358	0.010	7.2	50.0
26 Hexane	0.05352	0.06560	0.010	22.6	50.0
27 Vinyl acetate	0.18262	0.17690	0.010	-3.1	50.0
28 1,1-Dichloroethane	0.36459	0.39635	0.100	8.7	50.0
29 tert-Butyl Alcohol	0.01790	0.01589	0.010	-11.2	50.0
30 2-Butanone	0.09101	0.08750	0.010	-3.9	50.0
M 31 1,2-Dichloroethene (total)	0.23263	0.24567	0.010	5.6	50.0
32 cis-1,2-dichloroethene	0.23811	0.24776	0.010	4.1	50.0
33 2,2-Dichloropropane	0.32921	0.35498	0.010	7.8	50.0
34 Bromochloromethane	0.12350	0.13073	0.010	5.9	50.0
35 Chloroform	0.35858	0.39022	0.010	8.8	20.0
36 Tetrahydrofuran	0.05652	0.05668	0.010	0.3	50.0
37 1,1,1-Trichloroethane	0.34895	0.37993	0.010	8.9	50.0
38 1,1-Dichloropropene	0.28228	0.31013	0.010	9.9	50.0
39 Carbon Tetrachloride	0.29985	0.33347	0.010	11.2	50.0
40 1,2-Dichloroethane	0.29257	0.31106	0.010	6.3	50.0

NA
NA

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
 Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RP50	MIN RRF	RD	MAX RD
41 Benzene	0.88475	0.94986	0.010	7.4	50.0
42 Trichloroethene	0.26021	0.27351	0.010	5.1	50.0
43 1,2-Dichloropropane	0.20717	0.22312	0.010	7.7	20.0
44 1,4-Dioxans	0.00209	0.00225	0.010	7.6	50.0
45 Dibromomethane	0.12783	0.13819	0.010	8.1	50.0
46 Bromodichloromethane	0.25587	0.28383	0.010	10.9	50.0
47 2-Chloroethyl vinyl ether	0.11986	0.11290	0.010	-5.8	50.0
48 cis-1,3-Dichloropropene	0.33149	0.35781	0.010	7.9	50.0
49 4-Methyl-2-pentanone	0.18701	0.18013	0.010	-3.7	50.0
50 Toluene	1.27099	1.37059	0.010	7.8	20.0
51 trans-1,3-Dichloropropene	0.40826	0.43081	0.010	5.5	50.0
52 Ethyl Methacrylate	0.33658	0.34406	0.010	2.2	50.0
53 1,1,2-Trichloroethane	0.24362	0.25359	0.010	4.1	50.0
54 1,3-Dichloropropane	0.43714	0.45325	0.010	3.7	50.0
55 Tetrachloroethene	0.28782	0.30760	0.010	6.9	50.0
56 2-Hexanone	0.17057	0.15771	0.010	-7.5	50.0
57 Dibromochloromethane	0.26052	0.29051	0.010	11.5	50.0
58 1,2-Dibromoethane	0.25368	0.25990	0.010	2.5	50.0
59 Chlorobenzene	0.86828	0.92654	0.300	6.7	50.0
60 1,1,1,2-Tetrachloroethane	0.30173	0.33698	0.010	11.7	50.0
61 Ethylbenzene	0.47415	0.50577	0.010	6.7	20.0
62 m + p-Xylene	0.57862	0.62530	0.010	8.1	50.0
M 63 Xylenes (total)	0.57858	0.62542	0.010	8.1	50.0
64 Xylene-o	0.57848	0.62564	0.010	8.2	50.0
65 Styrene	0.96858	1.03671	0.010	7.0	50.0
66 Bromoform	0.16174	0.18627	0.100	15.2	50.0
67 Isopropylbenzene	1.46263	1.58232	0.010	8.2	50.0
68 1,1,2,2-Tetrachloroethane	0.51628	0.51012	0.300	-1.2	50.0
69 1,4-Dichloro-2-butene	0.09732	0.15190	0.010	56.1	50.0
70 1,2,3-Trichloropropane	0.18402	0.17704	0.010	-3.8	50.0
71 Bromobenzene	0.63251	0.64092	0.010	1.3	50.0
72 n-Propylbenzene	0.70008	0.75416	0.010	7.7	50.0
73 2-Chlorotoluene	0.59080	0.62190	0.010	5.3	50.0
74 1,3,5-Trimethylbenzene	1.99544	2.14047	0.010	7.3	50.0
75 4-Chlorotoluene	0.61429	0.65075	0.010	5.9	50.0
76 tert-Butylbenzene	1.83544	1.96608	0.010	7.1	50.0

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ993.D
Report Date: 19-Dec-2000 09:57

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
Analysis Type: WATER Init. Cal. Times: 17:49 13:12
Lab Sample ID: 5ONG-CC Quant Type: ISTD
Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RFSO	MIN RRF	%D	MAX %D
77 1,2,4-Trimethylbenzene	2.09717	2.19959	0.010	4.9	50.0
78 sec-Butylbenzene	2.51574	2.65961	0.010	5.7	50.0
79 4-Isopropyltoluene	2.25984	2.41792	0.010	7.0	50.0
80 1,3-Dichlorobenzene	1.28521	1.31499	0.010	2.3	50.0
81 1,4-Dichlorobenzene	1.34206	1.38840	0.010	3.5	50.0
82 n-Butylbenzene	1.99461	2.09582	0.010	5.1	50.0
83 1,2-Dichlorobenzene	1.26997	1.32014	0.010	3.9	50.0
84 1,2-Dibromo-3-chloropropane	0.12957	0.13171	0.010	1.7	50.0
85 1,2,4-Trichlorobenzene	1.09553	1.07482	0.010	-1.9	50.0
86 Hexachlorobutadiene	0.45823	0.45183	0.010	-1.4	50.0
87 Naphthalene	2.37236	2.21188	0.010	-6.8	50.0
88 1,2,3-Trichlorobenzene	1.00323	0.93675	0.010	-6.6	50.0
98 Cyclohexane	0.35226	0.44080	0.010	25.1	50.0
143 Methyl Acetate	0.17685	0.17512	0.010	-1.0	50.0
144 Methylcyclohexane	0.37227	0.45762	0.010	22.9	50.0
141 1,3,5-Trichlorobenzene	1.13134	1.20769	0.010	6.7	50.0

Data File: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ994.D
 Report Date: 19-Dec-2000 09:47

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:32
 Lab File ID: UXJ994.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	MAX %D	MAX %D
14 Dichlorofluoromethane	0.39160	0.40851	0.010	4.3	50.0
89 Ethyl Ether	0.17718	0.18075	0.010	2.0	50.0
91 3-Chloropropene	0.12025	0.12296	0.010	2.3	50.0
92 Isopropyl Ether	0.21001	0.21626	0.010	3.0	50.0
93 2-Chloro-1,3-butadiene	0.34257	0.35140	0.010	2.6	50.0
94 Propionitrile	0.02877	0.02867	0.010	-0.3	50.0
95 Ethyl Acetate	0.17528	0.18914	0.010	7.9	50.0
96 Methacrylonitrile	0.12339	0.12715	0.010	3.0	50.0
97 Isobutanol	0.00682	0.00714	0.010	4.6	50.0<-
99 n-Butanol	0.00519	0.00588	0.010	13.3	50.0<-
100 Methyl Methacrylate	0.16511	0.16831	0.010	1.9	50.0
101 2-Nitropropane	0.03593	0.03849	0.010	7.1	50.0
103 Cyclohexanone	0.03292	0.03465	0.010	5.2	50.0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L120135 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/12/00

Work Order: DQ84N1AH

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/15/00

Moisture %:

QC Batch: 0353302

Client Sample Id: MPT-47-GW-DPW15

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.2	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.34	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.8	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.8	

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01215B.b\UXJ926.D
 Report Date: 18-Dec-2000 09:51

STL - North Canton

VOLATILE REPORT SW-846 Method

Data file : \\qcanoh04\dd\chem\MSV\a3ux11.i\J01215B.b\UXJ926.D
 Lab Smp Id: DQ84N1AH Client Smp ID: MPT-47-GW-DPW15
 Inj Date : 15-DEC-2000 22:51 Inst ID: a3ux11.i
 Operator : 01715
 Smp Info : DQ84N1AH,5ML/5ML
 Misc Info : J01215B,8260LLUX11,,01715
 Comment :
 Method : \\QCANOH04\dd\chem\MSV\a3ux11.i\J01215B.b\8260LLUX11.m
 Meth Date : 18-Dec-2000 09:45 mccroryj Quant Type: ISTD
 Cal Date : 13-DEC-2000 11:16 Cal File: UXJ824.D
 Als bottle: 42
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+ix.sub
 Target Version: 4.04
 Processing Host: QCANOH05

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.120	5.120	(1.000)	1028768	50.0000	
* 2 Chlorobenzene-d5	117	7.782	7.782	(1.000)	778212	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.019	10.018	(1.000)	490698	50.0000	
\$ 4 Dibromofluoromethane	113	4.552	4.552	(0.889)	217568	52.2904	10.458
\$ 5 1,2-Dichloroethane-d4	65	4.836	4.836	(0.945)	253419	50.8479	10.170
\$ 6 Toluene-d8	98	6.469	6.469	(0.831)	858538	51.0632	10.213
\$ 7 Bromofluorobenzene	95	8.895	8.894	(1.143)	318630	48.4478	9.690
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	1.807	1.795	(0.353)	36069	7.05255	1.410
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.789	2.789	(0.545)	27098	15.8414	3.168
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142						
20 Carbon Disulfide	76						
21 Methylene Chloride	84	3.156	3.155	(0.616)	8348	1.82659	0.3653
22 Acetonitrile	41						
23 Acrylonitrile	53						
24 Methyl tert-butyl ether	73						
25 trans-1,2-Dichloroethene	96						
26 Hexane	86						
27 Vinyl acetate	43						
28 1,1-Dichloroethane	63						
29 tert-Butyl Alcohol	59						
30 2-Butanone	43						
M 31 1,2-Dichloroethene (total)	96				42864	8.74912	1.750
32 cis-1,2-dichloroethene	96	4.185	4.173	(0.817)	42864	8.74912	1.750
33 2,2-Dichloropropane	77						
34 Bromochloromethane	128						
35 Chloroform	83						
36 Tetrahydrofuran	42						
37 1,1,1-Trichloroethane	97						
38 1,1-Dichloropropene	75						
39 Carbon Tetrachloride	117						
40 1,2-Dichloroethane	62						
41 Benzene	78	4.895	4.895	(0.956)	30698	1.68632	0.3373
42 Trichloroethene	130						
43 1,2-Dichloropropane	63						
44 1,4-Dioxane	88						
45 Dibromomethane	93						
46 Bromodichloromethane	83						
47 2-Chloroethyl vinyl ether	63						
48 cis-1,3-Dichloropropene	75						
49 4-Methyl-2-pentanone	43						
50 Toluene	91						
51 trans-1,3-Dichloropropene	75						
52 Ethyl Methacrylate	69						
53 1,1,2-Trichloroethane	97						
54 1,3-Dichloropropane	76						
55 Tetrachloroethene	164						
56 2-Hexanone	43						
57 Dibromochloromethane	129						
58 1,2-Dibromoethane	107						
59 Chlorobenzene	112						
60 1,1,1,2-Tetrachloroethane	131						
61 Ethylbenzene	106						
62 m + p-Xylene	106						
M 63 Xylenes (total)	106						
64 Xylene-o	106						
65 Styrene	104						

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ993.D
 Report Date: 19-Dec-2000 09:57

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
 Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRP	RF50	MIN RRP	%D	MAX %D
\$ 4 Dibromofluoromethane	0.20222	0.22034	0.010	9.0	50.0
\$ 5 1,2-Dichloroethane-d4	0.24222	0.25592	0.010	5.7	50.0
\$ 6 Toluene-d6	1.08025	1.14536	0.010	6.0	50.0
\$ 7 Bromofluorobenzene	0.42256	0.44681	0.010	5.7	50.0
8 Dichlorodifluoromethane	0.22095	0.21590	0.010	-2.3	50.0
9 Chloromethane	0.25793	0.26162	0.100	1.4	50.0
10 Vinyl Chloride	0.24857	0.26070	0.010	4.9	20.0
11 Bromomethane	0.17719	0.21192	0.010	19.6	50.0
12 Chloroethane	0.16289	0.18672	0.010	14.6	50.0
13 Trichlorofluoromethane	0.31436	0.33479	0.010	6.5	50.0
15 Acrolein	0.02377	0.02934	0.010	23.5	50.0
16 Acetone	0.08314	0.07968	0.010	-4.2	50.0
17 1,1-Dichloroethane	0.20103	0.21633	0.010	7.6	20.0
18 Freon-113	0.19990	0.25686	0.010	28.5	50.0
19 Iodomethane	0.37263	0.41324	0.010	10.9	50.0
20 Carbon Disulfide	0.64904	0.70846	0.010	9.2	50.0
21 Methylene Chloride	0.22212	0.23378	0.010	5.2	50.0
22 Acetonitrile	0.02590	0.02707	0.010	4.5	50.0
23 Acrylonitrile	0.08325	0.08321	0.010	-0.1	50.0
24 Methyl tert-butyl ether	0.66277	0.63482	0.010	-4.2	50.0
25 trans-1,2-Dichloroethene	0.22716	0.24358	0.010	7.2	50.0
26 Hexane	0.05352	0.06560	0.010	22.6	50.0
27 Vinyl acetate	0.18262	0.17690	0.010	-3.1	50.0
28 1,1-Dichloroethane	0.36459	0.39635	0.100	8.7	50.0
29 tert-Butyl Alcohol	0.01790	0.01589	0.010	-11.2	50.0
30 2-Butanone	0.09101	0.08750	0.010	-3.9	50.0
M 31 1,2-Dichloroethane (total)	0.23263	0.24567	0.010	5.6	50.0
32 cis-1,2-dichloroethene	0.23811	0.24776	0.010	4.1	50.0
33 2,2-Dichloropropane	0.32921	0.35498	0.010	7.8	50.0
34 Bromochloromethane	0.12350	0.13073	0.010	5.9	50.0
35 Chloroform	0.35858	0.39022	0.010	8.8	20.0
36 Tetrahydrofuran	0.05652	0.05668	0.010	0.3	50.0
37 1,1,1-Trichloroethane	0.34895	0.37993	0.010	8.9	50.0
38 1,1-Dichloropropene	0.28228	0.31013	0.010	9.9	50.0
39 Carbon Tetrachloride	0.29985	0.33347	0.010	11.2	50.0
40 1,2-Dichloroethane	0.29257	0.31106	0.010	6.3	50.0

CLIENT		JOB NUMBER	
SUBJECT <i>Volatile Check Calculation</i>			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE

1,2-Dichloroethene (total)

SDG : MPO32

$$C = \frac{(\text{Area } 1,2\text{-Dichloroethene})(IS)(DF)}{(\text{Area IS})(RRF)(V_0)}$$

$$C = \frac{(42864)(50\mu\text{g})(1)}{(1028768)(0.23263)(5\text{mL})} = 1.79 \frac{\text{ng}}{\text{mL}} = 1.8 \mu\text{g/L}$$

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: A0L150000 314

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/14/00
Work Order: DRHDQ1AA Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/29/00
Moisture %: NA

QC Batch: 0350314

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	3.0	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WATER

Lab Sample ID: A0L150000 314

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRHDQ1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %: NA

QC Batch: 0350314

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP032

Matrix: (soil/water) WATER Lab Sample ID: A0L150000 314
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/14/00
Work Order: DRHDQ1AA Date Extracted: 12/15/00
Dilution factor: 1 Date Analyzed: 12/29/00
Moisture %: NA

QC Batch: 0350314

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WATER

Lab Sample ID: AOL150000 314

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRHDQ1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %: NA

QC Batch: 0350314

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WATER

Lab Sample ID: A0L150000 314

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRHDQ1AA

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 12/29/00

Moisture %: NA

QC Batch: 0350314

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Lot #: A0L120000

WO #: DQ9D21AC

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	36	71	31- 110	
Acenaphthene	50	38	76	39- 118	
2,4-Dinitrotoluene	50	39	78	47- 131	
Pyrene	50	36	73	46- 130	
N-Nitrosodi-n-propylamine	50	37	75	30- 115	
1,4-Dichlorobenzene	50	31	63	28- 110	
Pentachlorophenol	50	43	86	10- 140	
Phenol	50	37	74	10- 131	
2-Chlorophenol	50	38	76	19- 124	
4-Chloro-3-methylphenol	50	39	78	29- 124	
4-Nitrophenol	50	38	75	19- 144	
1,2-Dichlorobenzene	50	33	67	39- 90	
1,3-Dichlorobenzene	50	30	61	34- 85	
2,4,5-Trichlorophenol	50	42	84	41- 125	
4-Methylphenol	100	70	70	29- 144	
4-Nitroaniline	50	23	46	32- 106	
Acenaphthylene	50	36	72	48- 101	
Anthracene	50	39	79	56- 105	
Benzo (a) anthracene	50	37	75	56- 109	
Benzo (a) pyrene	50	38	75	50- 100	
Benzo (b) fluoranthene	50	38	76	52- 108	
Benzo (ghi) perylene	50	42	84	45- 115	
Benzo (k) fluoranthene	50	38	77	53- 112	
bis (2-Chloroethoxy) methan	50	37	74	39- 109	
bis (2-Chloroethyl) ether	50	40	80	45- 103	
2,2'-Oxybis (1-Chloropropa	50	42	84	49- 136	
bis (2-Ethylhexyl) phthala	50	45	90	56- 127	
2,4,6-Trichlorophenol	50	41	82	46- 135	
2,4-Dichlorophenol	50	39	79	48- 101	
2,4-Dimethylphenol	50	12	24	10- 88	
2,4-Dinitrophenol	50	32	63	21- 143	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Lot #: A0L120000

WO #: DQ9D21AC

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	40	81	62 - 114	
2-Chloronaphthalene	50	36	72	51 - 106	
2-Methylnaphthalene	50	36	73	49 - 98	
2-Methylphenol	50	34	68	33 - 115	
2-Nitroaniline	50	37	74	55 - 119	
2-Nitrophenol	50	37	74	43 - 104	
3,3'-Dichlorobenzidine	50	21	41	20 - 76	
3-Nitroaniline	50	30	60	33 - 107	
4,6-Dinitro-2-methylpheno	50	41	82	37 - 137	
4-Bromophenyl phenyl ethe	50	42	84	57 - 114	
4-Chloroaniline	50	27	54	19 - 82	
4-Chlorophenyl phenyl eth	50	39	78	57 - 114	
Butyl benzyl phthalate	50	37	73	53 - 113	
Carbazole	50	35	69	37 - 114	
Chrysene	50	37	74	59 - 112	
Dibenz (a, h) anthracene	50	44	89	50 - 112	
Dibenzofuran	50	36	73	55 - 107	
Diethyl phthalate	50	20	40*	48 - 112	a
Dimethyl phthalate	50	10	21*	46 - 117	a
Di-n-octyl phthalate	50	41	83	49 - 127	
Fluoranthene	50	40	80	53 - 116	
Fluorene	50	38	76	57 - 107	
Hexachlorobenzene	50	44	88	57 - 128	
Hexachlorobutadiene	50	32	64	36 - 116	
Hexachloroethane	50	30	60	30 - 110	
Isophorone	50	38	76	48 - 103	
Naphthalene	50	36	72	46 - 95	
Nitrobenzene	50	39	79	45 - 130	
N-Nitrosodiphenylamine	50	38	76	47 - 112	
Phenanthrene	50	38	76	58 - 110	
Indeno (1,2,3-cd) pyrene	50	44	87	49 - 114	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Lot #: A0L120000

WO #: DQ9D21AC

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	40	79	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a
Benzoic acid	50	40	80	50- 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Lot #: A0L150000

WO #: DRHDQ1AC
BATCH: 0350314

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Acenaphthene	50	46	91	39- 118	
2,4-Dinitrotoluene	50	47	94	47- 131	
Pyrene	50	44	87	46- 130	
1,2,4-Trichlorobenzene	50	46	93	31- 110	
N-Nitrosodi-n-propylamine	50	45	90	30- 115	
1,4-Dichlorobenzene	50	43	86	28- 110	
Pentachlorophenol	50	42	84	10- 140	
Phenol	50	46	92	10- 131	
2-Chlorophenol	50	47	94	19- 124	
4-Chloro-3-methylphenol	50	46	92	29- 124	
4-Nitrophenol	50	48	96	19- 144	
1,2-Dichlorobenzene	50	45	91*	39- 90	a
1,3-Dichlorobenzene	50	42	84	34- 85	
2,4,5-Trichlorophenol	50	48	97	41- 125	
4-Methylphenol	100	90	90	29- 144	
4-Nitroaniline	50	30	60	32- 106	
Acenaphthylene	50	43	87	48- 101	
Anthracene	50	47	94	56- 105	
Benzo (a) anthracene	50	45	91	56- 109	
Benzo (a) pyrene	50	44	87	50- 100	
Benzo (b) fluoranthene	50	45	90	52- 108	
Benzo (ghi) perylene	50	44	89	45- 115	
Benzo (k) fluoranthene	50	45	89	53- 112	
bis (2-Chloroethoxy) methan	50	42	85	39- 109	
bis (2-Chloroethyl) ether	50	49	97	45- 103	
2,2'-Oxybis (1-Chloropropa	50	49	98	49- 136	
bis (2-Ethylhexyl) phthala	50	46	93	56- 127	
2,4,6-Trichlorophenol	50	49	98	46- 135	
2,4-Dichlorophenol	50	47	95	48- 101	
2-Chloronaphthalene	50	45	89	51- 106	
2-Methylnaphthalene	50	44	87	49- 98	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Lot #: AOL150000

WO #: DRHDQ1AC

BATCH: 0350314

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-Dimethylphenol	50	18	36	10 - 88	
2,4-Dinitrophenol	50	42	83	21 - 143	
2,6-Dinitrotoluene	50	48	95	62 - 114	
2-Methylphenol	50	41	82	33 - 115	
2-Nitroaniline	50	48	96	55 - 119	
2-Nitrophenol	50	44	87	43 - 104	
3,3'-Dichlorobenzidine	50	21	42	20 - 76	
3-Nitroaniline	50	35	70	33 - 107	
4,6-Dinitro-2-methylpheno	50	49	99	37 - 137	
4-Bromophenyl phenyl ethe	50	46	93	57 - 114	
4-Chloroaniline	50	36	72	19 - 82	
4-Chlorophenyl phenyl eth	50	47	94	57 - 114	
Butyl benzyl phthalate	50	43	86	53 - 113	
Carbazole	50	40	79	37 - 114	
Chrysene	50	45	90	59 - 112	
Dibenz(a,h)anthracene	50	47	94	50 - 112	
Dibenzofuran	50	44	89	55 - 107	
Diethyl phthalate	50	24	49	48 - 112	
Dimethyl phthalate	50	9.4	19*	46 - 117	a
Di-n-octyl phthalate	50	46	93	49 - 127	
Fluoranthene	50	47	94	53 - 116	
Fluorene	50	46	92	57 - 107	
Hexachlorobenzene	50	47	94	57 - 128	
Hexachlorobutadiene	50	43	86	36 - 116	
Hexachloroethane	50	45	89	30 - 110	
Isophorone	50	43	86	48 - 103	
Naphthalene	50	44	88	46 - 95	
Nitrobenzene	50	45	89	45 - 130	
N-Nitrosodiphenylamine	50	44	87	47 - 112	
Phenanthrene	50	45	90	58 - 110	
Indeno(1,2,3-cd)pyrene	50	44	88	49 - 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Lot #: AOL150000

WO #: DRHDQ1AC

BATCH: 0350314

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	43	86	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a
Benzoic acid	50	52	105	50- 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Matrix Spike ID: MPT-47-GW-DPW01

Lot #: A0L110140

WO #: DQ7RE1A8

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS & REC	LIMITS REC	QUAL
4-Chlorophenyl phenyl eth	100	ND	81	81	55- 110	
Chrysene	100	ND	74	74	54- 115	
Dibenz (a, h) anthracene	100	ND	85	85	49- 110	
Dibenzofuran	100	ND	77	77	53- 104	
Di-n-butyl phthalate	100	ND	72	72	53- 109	
1, 2-Dichlorobenzene	100	ND	73	73	33- 91	
1, 3-Dichlorobenzene	100	ND	68	68	30- 86	
3, 3'-Dichlorobenzidine	100	ND	28	28	10- 71	
2, 4-Dichlorophenol	100	ND	83	83	43- 103	
Diethyl phthalate	100	ND	55	55	36- 117	
2, 4-Dimethylphenol	100	ND	28	28	10- 88	
Dimethyl phthalate	100	ND	42	42	32- 124	
4, 6-Dinitro-2-methylpheno	100	ND	84	84	46- 123	
2, 4-Dinitrophenol	100	ND	81	81	30- 133	
2, 6-Dinitrotoluene	100	ND	85	85	58- 109	
Di-n-octyl phthalate	100	ND	82	82	46- 124	
Fluoranthene	100	ND	78	78	51- 113	
Fluorene	100	ND	77	77	54- 105	
Hexachlorobenzene	100	ND	81	81	36- 132	
Hexachlorobutadiene	100	ND	74	74	18- 116	
Hexachlorocyclopentadiene	100	ND	0.0	0*	10- 45	a
Hexachloroethane	100	ND	72	72	18- 110	
Indeno (1, 2, 3-cd) pyrene	100	ND	78	78	48- 113	
Isophorone	100	ND	74	74	42- 102	
2-Methylnaphthalene	100	ND	75	75	39- 102	
2-Methylphenol	100	ND	73	73	29- 115	
4-Methylphenol	200	ND	150	77	25- 144	
Naphthalene	100	ND	75	75	39- 96	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Matrix Spike ID: MPT-47-GW-DPW01

Lot #: A0L110140

WO #: DQ7RE1A8

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
2-Nitroaniline	100	ND	82	82	44 - 116	
3-Nitroaniline	100	ND	62	62	20 - 102	
4-Nitroaniline	100	ND	51	51	25 - 95	
Nitrobenzene	100	ND	78	78	10 - 211	
2-Nitrophenol	100	ND	77	77	35 - 104	
N-Nitrosodiphenylamine	100	ND	75	75	53 - 99	
Phenanthrene	100	ND	78	78	55 - 109	
2,4,5-Trichlorophenol	100	ND	91	91	24 - 143	
2,4,6-Trichlorophenol	100	ND	86	86	36 - 135	
Benzoic acid	100	ND	110	108	50 - 130	
1,2,4-Trichlorobenzene	100	ND	79	79	22 - 110	
Acenaphthene	100	ND	76	76	26 - 118	
2,4-Dinitrotoluene	100	ND	80	80	31 - 131	
Pyrene	100	ND	73	73	27 - 138	
N-Nitrosodi-n-propylamine	100	ND	77	77	18 - 115	
1,4-Dichlorobenzene	100	ND	71	71	18 - 110	
Pentachlorophenol	100	ND	95	95	10 - 140	
Phenol	100	ND	80	80	10 - 131	
2-Chlorophenol	100	ND	80	80	19 - 124	
4-Chloro-3-methylphenol	100	ND	81	81	21 - 124	
4-Nitrophenol	100	ND	81	81	10 - 145	
Acenaphthylene	100	ND	73	73	48 - 96	
Anthracene	100	ND	77	77	52 - 101	
Benzo(a) anthracene	100	ND	76	76	52 - 110	
Benzo(b) fluoranthene	100	ND	75	75	48 - 107	
Benzo(k) fluoranthene	100	ND	76	76	53 - 109	
Benzo(ghi) perylene	100	ND	81	81	48 - 109	
Benzo(a) pyrene	100	ND	73	73	47 - 98	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Matrix Spike ID: MPT-47-GW-DPW01

Lot #: A0L110140

WO #: DQ7RE1A8

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
bis(2-Chloroethoxy)methan	100	ND	72	72	40 - 101	
bis(2-Chloroethyl) ether	100	ND	82	82	36 - 104	
2,2'-Oxybis(1-Chloropropa	100	ND	83	83	43 - 133	
bis(2-Ethylhexyl) phthala	100	ND	82	82	44 - 133	
4-Bromophenyl phenyl ethe	100	ND	81	81	56 - 110	
Butyl benzyl phthalate	100	ND	74	74	46 - 115	
Carbazole	100	ND	69	69	42 - 115	
4-Chloroaniline	100	ND	59	59	13 - 71	
2-Chloronaphthalene	100	ND	75	75	46 - 104	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 65 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Matrix Spike ID: MPT-47-GW-DPW01

Lot #: A0L110140

WO #: DQ7RE1A9

BATCH: 0347316

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	74	74	6.2	37	22- 110	
Acenaphthene	100	70	70	7.9	35	26- 118	
2,4-Dinitrotoluene	100	75	75	6.8	32	31- 131	
Pyrene	100	74	74	1.2	31	27- 138	
N-Nitrosodi-n-propylamine	100	72	72	7.7	36	18- 115	
1,4-Dichlorobenzene	100	69	69	3.1	36	18- 110	
Pentachlorophenol	100	81	81	16	56	10- 140	
Phenol	100	73	73	8.8	43	10- 131	
2-Chlorophenol	100	73	73	8.7	43	19- 124	
4-Chloro-3-methylphenol	100	77	77	5.1	55	21- 124	
4-Nitrophenol	100	81	81	0.64	34	10- 145	
Acenaphthylene	100	68	68	8.1	21	48- 96	
Anthracene	100	72	72	6.1	18	52- 101	
Benzo(a)anthracene	100	70	70	8.9	16	52- 110	
Benzo(b)fluoranthene	100	71	71	5.2	20	48- 107	
Benzo(k)fluoranthene	100	71	71	6.0	20	53- 109	
Benzo(ghi)perylene	100	69	69	15	17	48- 109	
Benzo(a)pyrene	100	65	65	11	18	47- 98	
bis(2-Chloroethoxy)methan	100	69	69	5.2	40	40- 101	
bis(2-Chloroethyl) ether	100	75	75	9.3	26	36- 104	
2,2'-Oxybis(1-Chloropropa	100	78	78	6.3	25	43- 133	
bis(2-Ethylhexyl) phthala	100	78	78	4.7	23	44- 133	
4-Bromophenyl phenyl ethe	100	77	77	5.9	17	56- 110	
Butyl benzyl phthalate	100	49	49	40	18	46- 115	p
Carbazole	100	64	64	7.4	21	42- 115	
4-Chloroaniline	100	59	58	1.5	41	13- 71	
Dibenz(a,h)anthracene	100	74	74	15	18	49- 110	
Dibenzofuran	100	71	71	7.6	20	53- 104	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Matrix Spike ID: MPT-47-GW-DPW01

Lot #: A0L110140

WO #: DQ7RE1A9

BATCH: 0347316

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
2-Chloronaphthalene	100	71	71	6.0	25	46- 104	
4-Chlorophenyl phenyl eth	100	75	75	8.2	19	55- 110	
Chrysene	100	67	67	9.6	16	54- 115	
Di-n-butyl phthalate	100	40	40*	57	*	17	53- 109 a p
1,2-Dichlorobenzene	100	71	71	3.5	29	33- 91	
1,3-Dichlorobenzene	100	67	67	2.4	31	30- 86	
3,3'-Dichlorobenzidine	100	24	24	14	36	10- 71	
2,4-Dichlorophenol	100	77	77	6.5	26	43- 103	
Diethyl phthalate	100	16	16*	109	*	20	36- 117 a p
2,4-Dimethylphenol	100	36	36	27	28	10- 88	
Dimethyl phthalate	100	6.9	6*	143	*	22	32- 124 a p
4,6-Dinitro-2-methylpheno	100	79	79	7.2	24	46- 123	
2,4-Dinitrophenol	100	73	73	10	32	30- 133	
2,6-Dinitrotoluene	100	79	79	6.2	16	58- 109	
Di-n-octyl phthalate	100	86	86	4.0	22	46- 124	
Fluoranthene	100	72	72	8.9	19	51- 113	
Fluorene	100	72	72	7.5	19	54- 105	
Hexachlorobenzene	100	75	75	7.6	22	36- 132	
Hexachlorobutadiene	100	70	70	5.2	32	18- 116	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10- 45	a
Hexachloroethane	100	70	70	3.3	33	18- 110	
Indeno(1,2,3-cd)pyrene	100	65	65	17	19	48- 113	
Isophorone	100	70	70	5.6	25	42- 102	
2-Methylnaphthalene	100	71	71	5.5	28	39- 102	
2-Methylphenol	100	68	68	7.9	31	29- 115	
4-Methylphenol	200	140	72	6.1	33	25- 144	
Naphthalene	100	71	71	5.6	26	39- 96	
2-Nitroaniline	100	76	76	7.9	17	44- 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP032

Matrix Spike ID: MPT-47-GW-DPW01

Lot #: A0L110140

WO #: DQ7RE1A9

BATCH: 0347316

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	100	61	61	2.4	23	20- 102	
4-Nitroaniline	100	48	48	5.8	26	25- 95	
Nitrobenzene	100	73	73	6.9	50	10- 211	
2-Nitrophenol	100	72	72	6.9	26	35- 104	
N-Nitrosodiphenylamine	100	68	68	11	18	53- 99	
Phenanthrene	100	72	72	8.4	18	55- 109	
2,4,5-Trichlorophenol	100	85	85	7.3	22	24- 143	
2,4,6-Trichlorophenol	100	80	80	6.7	27	36- 135	
Benzoic acid	100	93	93	16	50	50- 130	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 4 out of 65 outside limits

Spike Recovery: 4 out of 65 outside limits

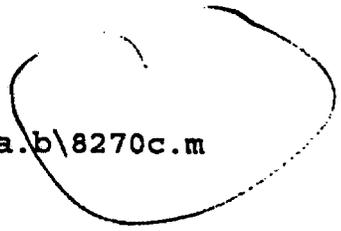
COMMENTS:

Atzide

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 13-DEC-2000 14:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\01213a.b\8270c.m
 Cal Date : 13-Dec-2000 14:58 GruberJ
 Curve Type : Average



Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AL1116.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AML1116.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AM1116.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AMH1116.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AH1116.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AHH1116.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.72561	0.70682	0.88645	0.72002	0.74526	0.80831	0.76541	9.047
7 N-Nitrosomorpholine	0.90758	0.95841	1.08145	1.14155	1.18619	1.14373	1.06982	10.494
8 Ethyl methanesulfonate	1.72474	1.82701	1.99355	2.07921	2.16546	2.10820	1.98303	8.716
9 Pyridine	1.95471	1.87408	2.03976	2.26904	2.32131	2.19655	2.10924	8.538
10 N-Nitrosodimethylamine	1.38501	1.27725	1.38675	1.51812	1.53500	1.47295	1.42918	6.845
11 Ethyl methacrylate	2.14596	1.95673	2.20241	2.23505	2.27173	2.25554	2.17790	5.380
12 3-Chloropropionitrile	0.50888	0.45216	0.50438	0.53851	0.54733	0.56543	0.51945	7.759
13 Malononitrile	1.84410	1.68104	1.91063	1.96661	1.93342	1.93451	1.87838	5.590
14 2-Picoline	1.88293	1.93477	2.11333	2.11296	2.18246	2.22964	2.07601	6.637
15 N-Nitrosomethylethylamine	0.91161	0.93484	0.99486	1.00934	1.03006	1.00891	0.98160	4.805
16 Methyl methanesulfonate	1.77204	1.80535	1.80737	1.98894	2.01806	1.96160	1.89223	5.750
18 1,3-Dichloro-2-propanol	2.11123	2.23671	2.38728	2.58100	2.64296	2.62120	2.43007	9.119
19 N-Nitrosodiethylamine	0.86143	0.89214	0.95981	1.03085	1.06507	1.04743	0.97612	8.749
21 Aniline	2.87086	2.68917	2.95088	3.16610	3.17710	3.21588	3.01167	6.972
22 Phenol	2.47229	2.21714	2.50670	2.63999	2.76072	2.78343	2.56338	8.269
23 bis(2-Chloroethyl)ether	1.81384	1.62759	1.81688	1.95552	1.91227	2.03415	1.86004	7.610
24 2-Chlorophenol	1.38385	1.21567	1.39117	1.44827	1.46854	1.47130	1.39647	6.895
25 Pentachloroethane	0.52865	0.53263	0.60085	0.59998	0.61570	0.62269	0.58342	7.167
26 1,3-Dichlorobenzene	1.62520	1.43741	1.58778	1.67976	1.66873	1.67333	1.61203	5.740
27 1,4-Dichlorobenzene	1.64520	1.44170	1.58596	1.66801	1.70064	1.70221	1.62396	6.099
28 1,2-Dichlorobenzene	1.43748	1.32142	1.48940	1.57548	1.64180	1.67382	1.52323	8.744
29 Benzyl Alcohol	0.69269	0.77721	0.96140	1.02710	1.09130	1.16242	0.95202	19.209
30 2-Methylphenol	1.50887	1.34983	1.50587	1.58830	1.58992	1.61314	1.52599	6.373
31 bis(2-Chloroisopropyl)ether	0.75561	0.66801	0.75541	0.77018	0.77836	0.81289	0.75674	6.386
32 N-Nitroso-di-n-propylamine	1.88782	1.76817	1.99214	2.08105	2.07996	2.11088	1.98667	6.775

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\01213a.b\8270c.m
 Cal Date : 13-Dec-2000 14:58 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.99141	2.73715	3.16058	3.35317	3.43234	3.48645	3.19352	9.060
192 4-Methylphenol	1.48255	1.38732	1.65471	1.76487	1.84243	1.87331	1.66753	11.852
193 3-Methylphenol	1.56802	1.75297	2.00276	2.36010	2.51477	2.48690	2.11425	18.932
34 Hexachloroethane	0.78869	0.68911	0.76796	0.80431	0.79776	0.80309	0.77515	5.705
35 Nitrobenzene	0.79488	0.66589	0.77821	0.78158	0.81046	0.80263	0.77227	6.932
36 N-Nitrosopyrrolidine	0.86129	0.98170	1.12464	1.21962	1.28865	1.23399	1.11832	14.824
37 Acetophenone	2.64633	2.35162	2.71296	2.85750	2.89503	2.92755	2.73183	7.901
39 o-Toluidine	2.76165	3.03862	3.34926	3.79408	3.94513	3.85793	3.45778	14.066
40 N-Nitrosopiperidine	0.18111	0.17946	0.18872	0.20536	0.20879	0.21478	0.19637	7.728
41 Isophorone	1.17939	1.05009	1.22713	1.31543	1.27063	1.26015	1.20047	6.713
42 2-Nitrophenol	0.19617	0.17230	0.20526	0.21000	0.22431	0.22366	0.20528	9.477
43 2,4-Dimethylphenol	0.49191	0.43314	0.48061	0.49757	0.52055	0.51449	0.48971	6.402
44 bis(2-Chloroethoxy)methane	0.60133	0.53391	0.62784	0.62368	0.65008	0.65007	0.61449	7.080
45 O,O,O-Triethyl phosphorothioa	0.20512	0.20556	0.21426	0.23245	0.23328	0.24613	0.22280	7.590
46 2,4-Toluenediamene	0.06369	0.04402	0.04902	0.09035	0.10037	0.09757	0.07417	33.826
47 1,3,5-Trichlorobenzene	0.39567	0.35323	0.40248	0.41316	0.42735	0.42321	0.40252	6.698
48 2,4-Dichlorophenol	0.28959	0.26972	0.31361	0.31704	0.33249	0.32695	0.30823	7.781
49 Benzoic Acid	+++++	0.10616	0.14107	0.13776	0.13479	0.14934	0.13382	12.250
50 1,2,4-Trichlorobenzene	0.38142	0.32274	0.36833	0.37284	0.38270	0.37780	0.36764	6.159
51 Naphthalene	1.14625	1.00824	1.17878	1.20158	1.27740	1.27125	1.18058	8.378
52 4-Chloroaniline	0.42915	0.37488	0.43931	0.45367	0.47292	0.46804	0.43966	8.147
53 a,a-Dimethyl-phenethylamine	0.39292	0.53424	0.50004	0.58345	0.62048	0.63456	0.54428	16.527
54 2,6-Dichlorophenol	0.26056	0.26391	0.28552	0.32320	0.33381	0.34637	0.30223	12.265
55 Hexachloropropene	0.20230	0.21922	0.22497	0.28084	0.28752	0.29991	0.25246	16.487
56 Hexachlorobutadiene	0.27692	0.25255	0.27200	0.27517	0.28577	0.28295	0.27421	4.290
57 1,2,3-Trichlorobenzene	0.38523	0.31943	0.36467	0.36914	0.38354	0.37875	0.36679	6.697
58 N-Nitrosodi-n-butylamine	0.39525	0.40027	0.42940	0.45908	0.46700	0.48114	0.43869	8.199
59 4-Chloro-3-Methylphenol	0.39758	0.37098	0.44502	0.44700	0.47342	0.45925	0.43221	9.115
60 p-Phenylene diamine	0.20097	0.24711	0.25614	0.37569	0.35940	0.37010	0.30157	25.116
61 Saffrole	0.28340	0.27975	0.29552	0.32606	0.33658	0.34410	0.31090	9.045
62 2-Methylnaphthalene	0.74528	0.65665	0.76674	0.77494	0.81734	0.81272	0.76228	7.695
63 1-Methylnaphthalene	0.74518	0.64876	0.75803	0.76139	0.80527	0.81254	0.75519	7.782
64 Hexachlorocyclopentadiene	0.38846	0.41220	0.47614	0.50307	0.54247	0.56169	0.48067	14.443

STL - North Canton

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\01213a.b\8270c.m
 Cal Date : 13-Dec-2000 14:58 GruberJ
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
65 1,2,4,5-Tetrachlorobenzene	0.65005	0.61502	0.65167	0.73326	0.72034	0.74120	0.68526	7.712
66 2,4,6-Trichlorophenol	0.38559	0.34122	0.39107	0.39564	0.39816	0.41006	0.38696	6.165
67 2,4,5-Trichlorophenol	0.33566	0.32618	0.36903	0.40029	0.41609	0.44244	0.38161	12.055
68 1,2,3,5-Tetrachlorobenzene	0.71205	0.59527	0.66872	0.69216	0.70840	0.73470	0.68522	7.184
69 1,4-Dinitrobenzene	0.11404	0.13952	0.17223	0.19402	0.20355	0.20831	0.17194	22.090
70 2-Chloronaphthalene	1.15793	1.04194	1.17883	1.23111	1.30404	1.33545	1.20821	8.832
71 Isosafrole 1	0.13813	0.13663	0.14650	0.15641	0.15303	0.15155	0.14704	5.541
M 188 Isosafrole, Total	1.04843	1.07710	1.18792	1.33084	1.35843	1.39295	1.23261	12.104
72 Isosafrole 2	0.91030	0.94047	1.04142	1.17443	1.20541	1.24140	1.08557	13.044
73 2-Nitroaniline	0.56611	0.53634	0.60275	0.61854	0.64523	0.64737	0.60272	7.344
74 1,2,3,4-Tetrachlorobenzene	0.65895	0.56846	0.61499	0.62760	0.64543	0.65574	0.62853	5.392
75 1,4-Naphthoquinone	0.36507	0.38583	0.41105	0.42949	0.41404	0.42705	0.40542	6.206
76 Dimethylphthalate	1.42810	1.29217	1.42384	1.45477	1.48085	1.51506	1.43247	5.357
77 m-Dinitrobenzene	0.14954	0.16686	0.19533	0.22192	0.21491	0.21774	0.19438	15.424
78 2,6-Dinitrotoluene	0.29957	0.26951	0.30757	0.31985	0.32643	0.33361	0.30942	7.478
79 Acenaphthylene	1.87716	1.72463	1.93981	2.00446	2.10630	2.17213	1.97075	8.193
80 1,2-Dinitrobenzene	0.14462	0.11989	0.14395	0.14772	0.14675	0.15231	0.14254	8.055
81 3-Nitroaniline	0.25252	0.23538	0.27249	0.29681	0.29933	0.29069	0.27453	9.490
82 Acenaphthene	1.15972	1.06752	1.19775	1.20350	1.27076	1.30471	1.20066	6.984
83 2,4-Dinitrophenol	+++++	0.09689	0.14341	0.16206	0.17394	0.18190	0.15164	22.333 <-
84 Pentachlorobenzene	0.51427	0.50704	0.55687	0.58813	0.60231	0.60996	0.56310	7.912
85 4-Nitrophenol	0.16672	0.25472	0.31254	0.33551	0.33310	0.35497	0.29293	24.164
86 Dibenzofuran	1.69270	1.49334	1.67807	1.75697	1.82735	1.88840	1.72281	8.004
87 2,4-Dinitrotoluene	0.40330	0.36198	0.41431	0.41817	0.42488	0.42766	0.40838	5.951
88 2,3,4,6-Tetrachlorophenol	0.25478	0.27543	0.31774	0.34201	0.33540	0.35739	0.31379	12.853
89 1-Naphthylamine	0.86244	0.89437	0.98769	1.15913	1.16504	1.21127	1.04666	14.450
90 Zinophos	0.43029	0.43697	0.46663	0.47478	0.48418	0.48288	0.46262	5.062
91 2,3,5,6-Tetrachlorophenol	0.33479	0.31192	0.38239	0.39216	0.39995	0.41251	0.37212	10.676
92 2-Naphthylamine	0.86425	0.82721	0.93867	1.03388	1.04823	1.06285	0.96252	10.497
93 Diethylphthalate	1.47767	1.28026	1.42712	1.45094	1.47581	1.48494	1.43279	5.425
94 Fluorene	1.41510	1.22789	1.39137	1.43480	1.50297	1.54544	1.41959	7.754
95 4-Chlorophenyl-phenylether	0.77535	0.66909	0.75765	0.77446	0.78445	0.81204	0.76217	6.425
96 4-Nitroaniline	0.21045	0.20647	0.24207	0.27103	0.25470	0.27348	0.24303	11.991

STL - North Canton
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 Cal Date : 13-Dec-2000 14:58 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.23516	0.25127	0.29514	0.31687	0.30202	0.31500	0.28591	12.041
98 4,6-Dinitro-2-methylphenol	0.09919	0.12174	0.15240	0.15968	0.16597	0.16590	0.14415	19.079
99 N-Nitrosodiphenylamine	0.56793	0.51774	0.57693	0.58441	0.61096	0.60587	0.57731	5.815
100 1,2-Diphenylhydrazine	1.57863	1.38584	1.54246	1.50139	1.56009	1.50497	1.51223	4.558
101 Diphenylamine	0.56793	0.51774	0.57693	0.58441	0.61096	0.60587	0.57731	5.815
102 Tetraethyl dithiopyrophosphat	0.12727	0.12068	0.12795	0.13276	0.13710	0.13739	0.13053	4.959
103 Diallate 1	0.97167	1.02792	1.06712	1.18803	1.24985	1.23987	1.12408	10.453
M 189 Diallate, Total	4.35836	4.90270	5.50803	5.53349	5.95129	5.60832	5.31037	10.853
104 Phorate	0.16244	0.17224	0.18315	0.20385	0.21927	0.22080	0.19362	12.734
105 1,3,5-Trinitrobenzene	0.03449	0.04608	0.05623	0.07844	0.08149	0.08487	0.06360	32.994
106 4-Bromophenyl-phenylether	0.25076	0.22252	0.25195	0.25206	0.25962	0.26196	0.24981	5.660
107 Hexachlorobenzene	0.24791	0.22449	0.25250	0.24497	0.25447	0.25752	0.24698	4.819
108 Phenacetin	0.38759	0.40554	0.43364	0.50082	0.49803	0.50143	0.45451	11.455
109 Diallate 2	0.15366	0.14849	0.15179	0.15556	0.15686	0.15851	0.15414	2.361
110 Dimethoate	0.43336	0.43732	0.45497	0.46568	0.46179	0.45557	0.45145	2.914
111 Pentachlorophenol	0.08077	0.09116	0.13067	0.12347	0.14189	0.13991	0.11798	21.932
112 Pentachloronitrobenzene	0.11890	0.12066	0.13139	0.13755	0.13632	0.13725	0.13035	6.521
113 4-Aminobiphenyl	0.50189	0.55096	0.62403	0.74018	0.74808	0.75990	0.65417	17.042
114 Pronamide	0.34798	0.34817	0.36560	0.38622	0.39526	0.39599	0.37320	5.986
115 Phenanthrene	1.23517	1.10164	1.25701	1.27868	1.33304	1.37612	1.26361	7.490
116 Anthracene	1.15173	1.05127	1.19472	1.21414	1.26009	1.26537	1.18955	5.715
117 Dinoseb	0.07957	0.12002	0.16306	0.22006	0.23410	0.23845	0.17588	37.558
118 Disulfoton	0.56870	0.58177	0.62345	0.72472	0.77001	0.77172	0.67339	13.849
119 Carbazole	0.89650	0.81404	0.92375	0.97923	0.98809	1.00207	0.93395	7.648
120 Di-n-Butylphthalate	1.40161	1.28255	1.44114	1.43294	1.48502	1.48588	1.42152	5.302
121 4-Nitroquinoline 1-oxide	0.02997	0.04276	0.06228	0.09304	0.08366	0.08581	0.06625	38.701
122 Methapyrilene	0.26842	0.23990	0.21030	0.22262	0.19858	0.20285	0.22378	11.838
123 Fluoranthene	1.31282	1.19028	1.32735	1.38937	1.36532	1.38690	1.32867	5.614
124 Benzidine	0.31776	0.32465	0.37890	0.49613	0.52210	0.48361	0.42052	21.664
125 Pyrene	2.06368	1.80354	1.98365	1.91291	1.88978	1.93388	1.93124	4.553
126 Aramite 1	0.10312	0.12040	0.11593	0.10716	0.10903	0.11020	0.11097	5.611
M 191 Aramite, Total	0.66388	0.70475	0.84047	0.80768	0.81414	0.77918	0.76835	9.002
127 Aramite 2	0.14189	0.16433	0.15852	0.14513	0.14326	0.15036	0.15058	6.020

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 13-DEC-2000 14:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\01213a.b\8270c.m
 Cal Date : 13-Dec-2000 14:58 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	± RSD
128 p-Dimethylamino azobenzene	0.32201	0.35041	0.35073	0.34863	0.34615	0.36549	0.34723	4.062
129 p-Chlorobenzilate	0.63718	0.74404	0.71435	0.67860	0.68445	0.71297	0.69526	5.314
130 Famphur	0.65239	0.54968	0.44338	0.17412	0.11140	0.09729	0.33804	71.354
131 Butylbenzylphthalate	0.79510	0.71816	0.79061	0.74750	0.74421	0.76212	0.75962	3.874
132 3,3'-Dimethylbenzidine	0.52790	0.48775	0.50817	0.55233	0.50576	0.50384	0.51429	4.397
133 3,3'-Dimethoxybenzidine	0.19887	0.18660	0.22616	0.28454	0.29496	0.27999	0.24518	19.283
134 2-Acetylaminofluorene	0.39299	0.42968	0.49245	0.53314	0.51071	0.48998	0.47483	11.130
135 3,3'-Dichlorobenzidine	0.35485	0.34889	0.38982	0.42012	0.43674	0.43731	0.39796	9.973
136 Benzo(a)Anthracene	1.35397	1.24851	1.39673	1.44218	1.45600	1.45054	1.39132	5.759
137 Chrysene	1.38446	1.16913	1.33559	1.37547	1.38463	1.38292	1.33870	6.363
138 4,4'-Methylene bis(o-chloroan	0.24764	0.21839	0.25367	0.28204	0.28698	0.27965	0.26140	10.140
139 bis(2-ethylhexyl)Phthalate	1.10519	1.00330	1.09644	1.02393	1.07286	1.06787	1.06160	3.791
140 Di-n-octylphthalate	2.57666	2.13967	2.50958	2.34978	2.36583	2.40304	2.39076	6.321
141 Benzo(b)fluoranthene	1.58285	1.37078	1.58075	1.63386	1.64306	1.65036	1.57694	6.684
142 Benzo(k)fluoranthene	1.59135	1.35224	1.53293	1.61650	1.65867	1.64087	1.56543	7.237
143 7,12-dimethylbenz[a]anthracen	0.81347	0.83794	0.70732	1.00869	1.08070	1.15848	0.93443	18.698
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.20381	1.09796	1.26674	1.30148	1.36345	1.36212	1.26593	8.063
148 3-Methylcholanthrene	0.77075	0.78939	0.69073	0.93391	0.97114	0.96598	0.85365	13.901
149 Indeno(1,2,3-cd)pyrene	0.75017	0.73549	0.84060	0.90292	0.98738	0.96246	0.86317	12.309
150 Dibenz(a,h)anthracene	0.73468	0.72566	0.78420	0.85347	0.91937	0.93569	0.82551	11.057
151 Benzo(g,h,i)perylene	0.81676	0.79419	0.86811	0.86818	0.92772	0.91852	0.86558	6.147
199 3-Picoline	1.83121	1.95604	2.06560	2.27820	2.36590	2.36794	2.14415	10.568
200 N,N-Dimethylacetamide	0.63421	0.69708	0.75287	0.81618	0.85919	0.81913	0.76311	11.160
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	1.97828	1.79133	1.94232	1.91049	1.74687	1.72226	1.84859	5.877

STL - North Canton
 INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 13-DEC-2000 14:19
 Quant Method : ISTD
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\01213a.b\8270c.m
 Cal Date : 13-Dec-2000 14:58 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11335	0.10994	0.12854	0.12147	0.12144	0.11911	0.11897	5.538
211 1,1'-Biphenyl	1.62126	1.40328	1.66193	1.72703	1.84487	1.92354	1.69699	10.780
212 Atrazine	0.23840	0.22114	0.24558	0.23896	0.23648	0.20493	0.23092	6.531
213 2-Chloroacetophenone	0.77266	0.81497	0.87528	0.96178	0.99012	1.01705	0.90531	10.993
\$ 154 Nitrobenzene-d5	0.71831	0.63374	0.73511	0.73687	0.75809	0.74585	0.72133	6.220
\$ 155 2-Fluorobiphenyl	1.40226	1.23195	1.35507	1.38404	1.43264	1.45955	1.37758	5.818
\$ 156 Terphenyl-d14	1.35759	1.19666	1.32632	1.29091	1.25353	1.26610	1.28185	4.427
\$ 157 Phenol-d5	1.90986	1.78499	2.03974	2.13495	2.15890	2.15677	2.03087	7.573
\$ 158 2-Fluorophenol	1.33867	1.28070	1.38579	1.57205	1.55941	1.58651	1.45385	9.258
\$ 159 2,4,6-Tribromophenol	0.14718	0.13572	0.14664	0.16033	0.15581	0.15952	0.15087	6.287
\$ 186 2-Chlorophenol-d4	1.27530	1.15215	1.26015	1.35239	1.39166	1.40846	1.30669	7.396
\$ 187 1,2-Dichlorobenzene-d4	0.96584	0.86196	0.94639	1.02640	1.01963	1.03717	0.97623	6.821

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AL1116.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AML1116.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AM1116.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AMH1116.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AH1116.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AHH1116.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.72561	0.70682	0.88645	0.72002	0.74526	0.80831	0.76541	9.047
7 N-Nitrosomorpholine	0.90758	0.95841	1.08145	1.14155	1.18619	1.14373	1.06982	10.494
8 Ethyl methanesulfonate	1.72474	1.82701	1.99355	2.07921	2.16546	2.10820	1.98303	8.716
9 Pyridine	1.49890	1.39737	1.45859	1.73385	1.70886	1.45626	1.54230	9.248
10 N-Nitrosodimethylamine	1.15524	1.15503	1.27605	1.25409	1.39872	1.30952	1.25811	7.453
11 Ethyl methacrylate	2.02430	2.18269	1.96878	2.27515	2.13220	2.25635	2.13991	5.776
12 3-Chloropropionitrile	0.54580	0.47937	0.48567	0.47542	0.53198	0.54075	0.50983	6.468
13 Malononitrile	1.56713	1.57208	1.66215	1.71363	1.81432	1.76211	1.68190	5.981
14 2-Picoline	1.88293	1.93477	2.11333	2.11296	2.18246	2.22964	2.07601	6.637
15 N-Nitrosomethylethylamine	0.91161	0.93484	0.99486	1.00934	1.03006	1.00891	0.98160	4.805
16 Methyl methanesulfonate	1.77204	1.80535	1.80737	1.98894	2.01806	1.96160	1.89223	5.750
18 1,3-Dichloro-2-propanol	2.11123	2.23671	2.38728	2.58100	2.64296	2.62120	2.43007	9.119
19 N-Nitrosodiethylamine	0.86143	0.89214	0.95981	1.03085	1.06507	1.04743	0.97612	8.749
21 Aniline	2.45871	2.34668	2.61199	3.00664	3.17917	3.00048	2.76728	12.282
22 Phenol	2.24210	2.05593	2.29762	2.47032	2.68932	2.60109	2.39273	9.935
23 bis(2-Chloroethyl)ether	1.86513	1.61196	1.83365	1.89158	2.00598	1.95175	1.86001	7.331
24 2-Chlorophenol	1.25672	1.16065	1.28325	1.39687	1.45243	1.38250	1.32207	8.152
25 Pentachloroethane	0.52865	0.53263	0.60085	0.59998	0.61570	0.62269	0.58342	7.167
26 1,3-Dichlorobenzene	1.66645	1.43210	1.57060	1.63199	1.71972	1.62208	1.60716	6.160
27 1,4-Dichlorobenzene	1.63012	1.42530	1.58528	1.63121	1.72792	1.64333	1.60719	6.256
28 1,2-Dichlorobenzene	1.48191	1.28608	1.47303	1.53770	1.66172	1.59657	1.50617	8.579
29 Benzyl Alcohol	0.75659	0.75159	0.89819	1.00194	1.09605	1.07330	0.92961	16.399
30 2-Methylphenol	1.33616	1.23962	1.38312	1.47973	1.55534	1.49056	1.41409	8.222
31 bis(2-Chloroisopropyl)ether	0.74834	0.65995	0.72920	0.73963	0.78864	0.76476	0.73842	5.921
32 N-Nitroso-di-n-propylamine	1.79418	1.65600	1.87558	1.98321	2.07186	2.03593	1.90279	8.350

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
M 195 Cresols, total	2.62917	2.48580	2.83540	3.05967	3.29277	3.17407	2.91282	10.889
192 4-Methylphenol	1.29302	1.24618	1.45228	1.57994	1.73743	1.68351	1.49873	13.542
193 3-Methylphenol	1.56802	1.75297	2.00276	2.36010	2.51477	2.48690	2.11425	18.932
34 Hexachloroethane	0.80981	0.70420	0.77079	0.80185	0.82739	0.77645	0.78175	5.557
35 Nitrobenzene	0.75151	0.69521	0.77645	0.77949	0.80040	0.78303	0.76435	4.884
36 N-Nitrosopyrrolidine	0.86129	0.98170	1.12464	1.21962	1.28865	1.23399	1.11832	14.824
37 Acetophenone	2.51559	2.29468	2.53120	2.68871	2.77507	2.70433	2.58493	6.770
39 o-Toluidine	2.76165	3.03862	3.34926	3.79408	3.94513	3.85793	3.45778	14.066
40 N-Nitrosopiperidine	0.18111	0.17946	0.18872	0.20536	0.20879	0.21478	0.19637	7.728
41 Isophorone	1.21594	1.07815	1.22490	1.21718	1.26832	1.24801	1.20875	5.553
42 2-Nitrophenol	0.17102	0.15660	0.18865	0.19843	0.21162	0.20791	0.18904	11.422
43 2,4-Dimethylphenol	0.45858	0.40731	0.48214	0.49154	0.50742	0.49094	0.47299	7.597
44 bis(2-Chloroethoxy)methane	0.57971	0.52821	0.60303	0.59684	0.62808	0.61385	0.59162	5.925
45 O,O,O-Triethyl phosphorothioa	0.20512	0.20556	0.21426	0.23245	0.23328	0.24613	0.22280	7.590
46 2,4-Toluediamene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.42115	0.35868	0.41221	0.40447	0.43227	0.42437	0.40886	6.461
48 2,4-Dichlorophenol	0.27943	0.25800	0.29224	0.30199	0.31929	0.31304	0.29400	7.722
49 Benzoic Acid	+++++	0.10248	0.12357	0.12060	0.11211	0.12369	0.11649	7.850 <-
50 1,2,4-Trichlorobenzene	0.36881	0.32654	0.36673	0.36715	0.38258	0.37718	0.36483	5.425
51 Naphthalene	1.13856	1.00667	1.15272	1.15542	1.24004	1.22943	1.15381	7.255
52 4-Chloroaniline	0.34246	0.33427	0.39199	0.41702	0.43798	0.41829	0.39034	10.990
53 a,a-Dimethyl-phenethylamine	0.39292	0.53424	0.50004	0.58345	0.62048	0.63456	0.54428	16.527
54 2,6-Dichlorophenol	0.26056	0.26391	0.28552	0.32320	0.33381	0.34637	0.30223	12.265
55 Hexachloropropene	0.20230	0.21922	0.21497	0.28084	0.28752	0.29991	0.25246	16.487
56 Hexachlorobutadiene	0.30369	0.25803	0.28355	0.28912	0.29710	0.28888	0.28673	5.491
57 1,2,3-Trichlorobenzene	0.38318	0.32910	0.36495	0.36812	0.38412	0.37794	0.36790	5.586
58 N-Nitrosodi-n-butylamine	0.39525	0.40027	0.42940	0.45908	0.46700	0.48114	0.43869	8.199
59 4-Chloro-3-Methylphenol	0.36137	0.36798	0.42856	0.43107	0.45409	0.43407	0.41286	9.314
60 p-Phenylene diamine	0.20097	0.24711	0.25614	0.37569	0.35940	0.37010	0.30157	25.116
61 Safrole	0.28340	0.27975	0.29552	0.32606	0.33658	0.34410	0.31090	9.045
62 2-Methylnaphthalene	0.71728	0.65052	0.74440	0.75274	0.79298	0.78519	0.74052	7.030
63 1-Methylnaphthalene	0.73327	0.66554	0.74452	0.76371	0.80169	0.79151	0.75004	6.539
64 Hexachlorocyclopentadiene	0.29060	0.31837	0.40120	0.46297	0.50116	0.50644	0.41345	22.449

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
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 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.65005	0.61502	0.65167	0.73326	0.72034	0.74120	0.68526	7.712
66 2,4,6-Trichlorophenol	0.37495	0.33624	0.39136	0.40010	0.41098	0.41328	0.38782	7.450
67 2,4,5-Trichlorophenol	0.35802	0.30733	0.38563	0.40459	0.42183	0.38867	0.37768	10.718
68 1,2,3,5-Tetrachlorobenzene	0.73992	0.62538	0.68440	0.69892	0.72630	0.72413	0.69984	5.953
69 1,4-Dinitrobenzene	0.11404	0.13952	0.17223	0.19402	0.20355	0.20831	0.17194	22.090
70 2-Chloronaphthalene	1.11367	1.01994	1.14300	1.20964	1.29158	1.28288	1.17679	8.932
71 Isosafrole 1	0.13813	0.13663	0.14650	0.15641	0.15303	0.15153	0.14704	5.541
M 188 Isosafrole, Total	1.04843	1.07710	1.18792	1.33084	1.35843	1.39295	1.23261	12.104
72 Isosafrole 2	0.91030	0.94047	1.04142	1.17443	1.20541	1.24140	1.08557	13.044
73 2-Nitroaniline	0.53853	0.51976	0.58161	0.59988	0.61992	0.54591	0.56760	6.860
74 1,2,3,4-Tetrachlorobenzene	0.65651	0.56239	0.63022	0.65374	0.65325	0.65841	0.63575	5.880
75 1,4-Naphthoquinone	0.36507	0.38583	0.41105	0.42949	0.41404	0.42705	0.40542	6.206
76 Dimethylphthalate	1.43244	1.32285	1.46097	1.42119	1.40937	1.34248	1.39822	3.858
77 m-Dinitrobenzene	0.14954	0.16686	0.19533	0.22192	0.21491	0.21774	0.19438	15.424
78 2,6-Dinitrotoluene	0.30263	0.27364	0.30214	0.30826	0.29496	0.27594	0.29293	5.015
79 Acenaphthylene	1.86691	1.67854	1.87441	1.96957	2.03308	2.00814	1.90511	6.839
80 1,2-Dinitrobenzene	0.13691	0.12891	0.13798	0.13731	0.13801	0.12397	0.13385	4.456
81 3-Nitroaniline	0.22551	0.20925	0.23810	0.24970	0.25850	0.26553	0.24110	8.779
82 Acenaphthene	1.19074	1.07199	1.18993	1.22148	1.28509	1.18062	1.18998	5.828
83 2,4-Dinitrophenol	++++	0.06847	0.10677	0.11507	0.16154	0.14377	0.11912	30.096
84 Pentachlorobenzene	0.51427	0.50704	0.55687	0.58813	0.60231	0.60996	0.56310	7.912
85 4-Nitrophenol	++++	0.22040	0.24927	0.27733	0.29179	0.30596	0.26895	12.754
86 Dibenzofuran	1.54544	1.44532	1.57898	1.67544	1.74374	1.56574	1.59244	6.558
87 2,4-Dinitrotoluene	0.36131	0.36265	0.39297	0.40874	0.39830	0.36543	0.38157	5.468
88 2,3,4,6-Tetrachlorophenol	0.25478	0.27543	0.31774	0.34201	0.33540	0.35739	0.31379	12.853
89 1-Naphthylamine	0.86244	0.89437	0.98769	1.15913	1.16504	1.21127	1.04666	14.450
90 Zinophos	0.43029	0.43697	0.46663	0.47478	0.48418	0.48288	0.46262	5.062
91 2,3,5,6-Tetrachlorophenol	0.27320	0.30723	0.34644	0.36520	0.39534	0.38702	0.34574	13.743
92 2-Naphthylamine	0.86425	0.82721	0.93867	1.03388	1.04823	1.06285	0.96252	10.497
93 Diethylphthalate	1.48757	1.31256	1.38806	1.37476	1.40927	1.37186	1.39068	4.125
94 Fluorene	1.32209	1.20805	1.33435	1.41915	1.39006	1.32919	1.33382	5.450
95 4-Chlorophenyl-phenylether	0.75336	0.66346	0.72958	0.77089	0.73045	0.69384	0.72360	5.426
96 4-Nitroaniline	0.18875	0.16337	0.21249	0.22928	0.25722	0.23555	0.21444	15.839

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.23516	0.25127	0.29514	0.31687	0.30202	0.31500	0.28591	12.041
98 4,6-Dinitro-2-methylphenol	0.09622	0.11825	0.14422	0.13832	0.16931	0.16941	0.13929	20.636
99 N-Nitrosodiphenylamine	0.58079	0.49205	0.55330	0.55806	0.57947	0.57601	0.55661	6.047
100 1,2-Diphenylhydrazine	1.56905	1.34820	1.48082	1.48341	1.54137	1.52161	1.49074	5.206
101 Diphenylamine	0.58079	0.49205	0.55330	0.55806	0.57947	0.57601	0.55661	6.047
102 Tetraethyl dithiopyrophosphat	0.12727	0.12068	0.12795	0.13276	0.13710	0.13739	0.13053	4.959
103 Diallate 1	0.97167	1.02792	1.06712	1.18803	1.24985	1.23987	1.12408	10.453
M 189 Diallate, Total	4.35836	4.90270	5.50803	5.53349	5.95129	5.60832	5.31037	10.853
104 Phorate	0.16244	0.17224	0.18315	0.20385	0.21927	0.22080	0.19362	12.734
105 1,3,5-Trinitrobenzene	0.03449	0.04608	0.05623	0.07844	0.08149	0.08487	0.06360	32.994
106 4-Bromophenyl-phenylether	0.26278	0.22644	0.25301	0.26153	0.26087	0.25572	0.25339	5.417
107 Hexachlorobenzene	0.28700	0.23421	0.27801	0.27914	0.29302	0.28204	0.27557	7.623
108 Phenacetin	0.38759	0.40554	0.43364	0.50082	0.49803	0.50143	0.45451	11.455
109 Diallate 2	0.15366	0.14849	0.15179	0.15556	0.15686	0.15851	0.15414	2.361
110 Dimethoate	0.43336	0.43732	0.45497	0.46568	0.46179	0.45557	0.45145	2.914
111 Pentachlorophenol	+++++	0.08295	0.10977	0.11377	0.14055	0.13731	0.11687	20.018<
112 Pentachloronitrobenzene	0.11890	0.12066	0.13139	0.13755	0.13632	0.13725	0.13035	6.521
113 4-Aminobiphenyl	0.50189	0.55096	0.62403	0.74018	0.74808	0.75990	0.65417	17.042
114 Pronamide	0.34798	0.34817	0.36560	0.38622	0.39526	0.39599	0.37320	5.986
115 Phenanthrene	1.25631	1.08978	1.24837	1.29083	1.42270	1.31049	1.26975	8.521
116 Anthracene	1.16008	1.02113	1.18596	1.19082	1.24991	1.23252	1.17340	6.942
117 Dinoseb	0.07957	0.12002	0.16306	0.22006	0.23410	0.23845	0.17588	37.558
118 Disulfoton	0.56870	0.58177	0.62345	0.72472	0.77001	0.77172	0.67339	13.849
119 Carbazole	0.91281	0.78813	0.92523	0.95104	1.01821	1.01447	0.93498	9.032
120 Di-n-Butylphthalate	1.50943	1.29175	1.47942	1.47103	1.56975	1.56914	1.48175	6.907
121 4-Nitroquinoline 1-oxide	0.02997	0.04276	0.06228	0.09304	0.08366	0.08581	0.06625	38.700
122 Methapyrilene	0.26842	0.23990	0.21030	0.22262	0.19858	0.20285	0.22378	11.838
123 Fluoranthene	1.35908	1.19769	1.40525	1.41788	1.51896	1.46488	1.39396	7.930
124 Benzidine	0.44692	0.31375	0.33044	0.46529	0.55586	0.50320	0.43591	21.991
125 Pyrene	1.71033	1.62349	1.73067	1.70422	1.68131	1.72428	1.69572	2.321
126 Aramite 1	0.10312	0.12040	0.11593	0.10716	0.10903	0.11020	0.11097	5.611
M 191 Aramite, Total	0.66388	0.70475	0.84047	0.80768	0.81414	0.77918	0.76835	9.002
127 Aramite 2	0.14189	0.16433	0.15852	0.14513	0.14326	0.15036	0.15058	6.020

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.32201	0.35041	0.35073	0.34863	0.34615	0.36548	0.34723	4.062
129 p-Chlorobenzilate	0.63718	0.74404	0.71435	0.67860	0.68445	0.71297	0.69526	5.314
130 Famphur	0.65239	0.54968	0.44338	0.17412	0.11140	0.09729	0.33804	71.354
131 Butylbenzylphthalate	0.68756	0.62714	0.67646	0.67868	0.66661	0.65127	0.66462	3.331
132 3,3'-Dimethylbenzidine	0.52790	0.48775	0.50817	0.55233	0.50576	0.50384	0.51429	4.397
133 3,3'-Dimethoxybenzidine	0.23354	0.17877	0.21827	0.28869	0.30163	0.27906	0.25000	19.066
134 2-Acetylaminofluorene	0.39299	0.42968	0.49245	0.53314	0.51071	0.48998	0.47483	11.130
135 3,3'-Dichlorobenzidine	0.42189	0.35102	0.41768	0.43631	0.46747	0.45878	0.42553	9.751
136 Benzo(a)Anthracene	1.37498	1.23977	1.39854	1.42866	1.44129	1.42839	1.38527	5.434
137 Chrysene	1.39677	1.19756	1.36887	1.39986	1.48412	1.44950	1.38278	7.211
138 4,4'-Methylene bis(o-chloroan	0.23986	0.21525	0.23766	0.27583	0.28947	0.28526	0.25722	11.815
139 bis(2-ethylhexyl)Phthalate	0.96892	0.89606	0.94884	0.97243	0.97699	0.94181	0.95084	3.177
140 Di-n-octylphthalate	1.72621	1.64606	1.78329	1.91524	1.95311	1.96664	1.83176	7.237
141 Benzo(b)fluoranthene	1.48356	1.25686	1.44026	1.51700	1.58456	1.59118	1.47890	8.339
142 Benzo(k)fluoranthene	1.58402	1.38441	1.53248	1.52365	1.61064	1.61815	1.54223	5.618
143 7,12-dimethylbenz[a]anthracen	0.81347	0.83794	0.70732	1.00869	1.08070	1.15848	0.93443	18.698
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.27604	1.10132	1.25177	1.29079	1.37993	1.37195	1.27863	7.921
148 3-Methylcholanthrene	0.77075	0.78939	0.69073	0.93391	0.97114	0.96598	0.85365	13.901
149 Indeno(1,2,3-cd)pyrene	0.95605	0.82057	0.98713	1.01813	1.10404	1.05417	0.99001	9.874
150 Dibenz(a,h)anthracene	0.93858	0.84314	0.98317	1.02518	1.10247	1.04518	0.98962	9.172
151 Benzo(g,h,i)perylene	1.06470	0.90052	1.01939	1.04142	1.10736	1.05766	1.03184	6.845
199 3-Picoline	1.83121	1.95604	2.06560	2.27820	2.36590	2.36794	2.14415	10.568
200 N,N-Dimethylacetamide	0.63421	0.69708	0.75287	0.81618	0.85919	0.81913	0.76311	11.160
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	1.96758	1.77887	1.92204	1.91423	1.89380	1.76768	1.87404	4.363

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
210 Caprolactam	0.09652	0.09424	0.11902	0.11176	0.11662	0.10500	0.10719	9.660
211 1,1'-Biphenyl	1.60600	1.43612	1.61359	1.71440	1.83306	1.68426	1.64790	8.042
212 Atrazine	0.25382	0.21266	0.23910	0.25240	0.25428	0.20903	0.23688	8.851
213 2-Chloroacetophenone	0.77266	0.81497	0.87528	0.96178	0.99012	1.01705	0.90531	10.993
\$ 154 Nitrobenzene-d5	0.73488	0.64817	0.74088	0.73269	0.75743	0.73638	0.72507	5.339
\$ 155 2-Fluorobiphenyl	1.36926	1.20604	1.33979	1.39625	1.41913	1.40999	1.35674	5.845
\$ 156 Terphenyl-d14	1.13297	1.02946	1.11363	1.13294	1.10541	1.09683	1.10187	3.480
\$ 157 Phenol-d5	1.77660	1.67492	1.86113	1.99196	2.11129	2.01225	1.90469	8.562
\$ 158 2-Fluorophenol	1.15197	1.25823	1.34249	1.49837	1.54837	1.46835	1.37796	11.166
\$ 159 2,4,6-Tribromophenol	0.12851	0.11919	0.14592	0.15361	0.16454	0.13738	0.14152	11.742
\$ 186 2-Chlorophenol-d4	1.16547	1.08249	1.20930	1.27274	1.37233	1.32734	1.23828	8.660
\$ 187 1,2-Dichlorobenzene-d4	0.91859	0.87171	0.94686	0.98711	1.03347	0.97727	0.95584	5.920

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-DEC-2000 08:57
 Lab File ID: 7SM1221.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01221a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
9 Pyridine	2.10924	1.96855	0.010	-6.7	50.0
10 N-Nitrosodimethylamine	1.42918	1.34150	0.010	-6.1	50.0
11 Ethyl methacrylate	2.17790	2.04244	0.010	-6.2	50.0
12 3-Chloropropionitrile	0.51945	0.50650	0.010	-2.5	50.0
13 Malononitrile	1.87838	1.86359	0.010	-0.8	50.0
209 Benzaldehyde	1.84859	1.89756	0.010	2.6	50.0
21 Aniline	3.01167	2.90524	0.010	-3.5	50.0
22 Phenol	2.56338	2.52004	0.010	-1.7	20.0
23 bis(2-Chloroethyl)ether	1.86004	1.81233	0.010	-2.6	50.0
24 2-Chlorophenol	1.39647	1.38837	0.010	-0.6	50.0
26 1,3-Dichlorobenzene	1.61203	1.58958	0.010	-1.4	50.0
27 1,4-Dichlorobenzene	1.62396	1.57806	0.010	-2.8	20.0
28 1,2-Dichlorobenzene	1.52323	1.46087	0.010	-4.1	50.0
29 Benzyl Alcohol	0.95202	0.99818	0.010	4.8	50.0
30 2-Methylphenol	1.52599	1.51554	0.010	-0.7	50.0
31 bis(2-Chloroisopropyl)ether	0.75674	0.75334	0.010	-0.5	50.0
37 Acetophenone	2.73183	2.68599	0.010	-1.7	50.0
32 N-Nitroso-di-n-propylamine	1.98667	1.99102	0.050	0.2	50.0
192 4-Methylphenol	1.66753	1.62775	0.010	-2.4	50.0
34 Hexachloroethane	0.77515	0.78560	0.010	1.3	50.0
35 Nitrobenzene	0.77227	0.75638	0.010	-2.1	50.0
41 Isophorone	1.20047	1.18616	0.010	-1.2	50.0
42 2-Nitrophenol	0.20528	0.20513	0.010	-0.1	20.0
43 2,4-Dimethylphenol	0.48971	0.48021	0.010	-1.9	50.0
44 bis(2-Chloroethoxy)methane	0.61449	0.60915	0.010	-0.9	50.0
46 2,4-Toluenediamine	0.07417	0.08501	0.010	14.6	50.0
47 1,3,5-Trichlorobenzene	0.40252	0.39340	0.010	-2.3	50.0
48 2,4-Dichlorophenol	0.30823	0.31483	0.010	2.1	20.0
49 Benzoic Acid	0.13382	0.16855	0.010	25.9	50.0
50 1,2,4-Trichlorobenzene	0.36764	0.35455	0.010	-3.6	50.0
51 Naphthalene	1.18058	1.15537	0.010	-2.1	50.0
52 4-Chloroaniline	0.43966	0.43264	0.010	-1.6	50.0
56 Hexachlorobutadiene	0.27421	0.26802	0.010	-2.3	20.0
210 Caprolactam	0.11897	0.12267	0.010	3.1	50.0
57 1,2,3-Trichlorobenzene	0.36679	0.35322	0.010	-3.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-DEC-2000 08:57
 Lab File ID: 7SM1221.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01221a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
59 4-Chloro-3-Methylphenol	0.43221	0.44609	0.010	3.2	20.0
62 2-Methylnaphthalene	0.76228	0.74950	0.010	-1.7	50.0
63 1-Methylnaphthalene	0.75519	0.73801	0.010	-2.3	50.0
64 Hexachlorocyclopentadiene	0.48067	0.44251	0.050	-7.9	50.0
66 2,4,6-Trichlorophenol	0.38696	0.37622	0.010	-2.8	20.0
67 2,4,5-Trichlorophenol	0.38161	0.41790	0.010	9.5	50.0
211 1,1'-Biphenyl	1.69699	1.64846	0.010	-2.9	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68522	0.67600	0.010	-1.3	50.0
70 2-Chloronaphthalene	1.20821	1.18682	0.010	-1.8	50.0
73 2-Nitroaniline	0.60272	0.61384	0.010	1.8	50.0
74 1,2,3,4-Tetrachlorobenzene	0.62853	0.61985	0.010	-1.4	50.0
76 Dimethylphthalate	1.43247	1.43189	0.010	-0.0	50.0
78 2,6-Dinitrotoluene	0.30942	0.30337	0.010	-2.0	50.0
79 Acenaphthylene	1.97075	1.90745	0.010	-3.2	50.0
80 1,2-Dinitrobenzene	0.14254	0.14426	0.010	1.2	50.0
81 3-Nitroaniline	0.27453	0.28097	0.010	2.3	50.0
82 Acenaphthene	1.20066	1.16270	0.010	-3.2	20.0
83 2,4-Dinitrophenol	0.15164	0.14091	0.050	-7.1	50.0
85 4-Nitrophenol	0.29293	0.31959	0.050	9.1	50.0
86 Dibenzofuran	1.72281	1.68705	0.010	-2.1	50.0
87 2,4-Dinitrotoluene	0.40838	0.40546	0.010	-0.7	50.0
91 2,3,5,6-Tetrachlorophenol	0.37212	0.37358	0.010	0.4	50.0
93 Diethylphthalate	1.43279	1.40735	0.010	-1.8	50.0
94 Fluorene	1.41959	1.40932	0.010	-0.7	50.0
95 4-Chlorophenyl-phenylether	0.76217	0.76584	0.010	0.5	50.0
96 4-Nitroaniline	0.24303	0.25263	0.010	3.9	50.0
98 4,6-Dinitro-2-methylphenol	0.14415	0.14366	0.010	-0.3	50.0
99 N-Nitrosodiphenylamine	0.57731	0.57378	0.010	-0.6	20.0
100 1,2-Diphenylhydrazine	1.51223	1.42004	0.010	-6.1	50.0
106 4-Bromophenyl-phenylether	0.24981	0.24921	0.010	-0.2	50.0
107 Hexachlorobenzene	0.24698	0.24941	0.010	1.0	50.0
212 Atrazine	0.23092	0.24389	0.010	5.6	50.0
111 Pentachlorophenol	0.11798	0.12461	0.010	5.6	20.0
115 Phenanthrene	1.26361	1.28137	0.010	1.4	50.0
116 Anthracene	1.18955	1.18813	0.010	-0.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-DEC-2000 08:57
 Lab File ID: 7SM1221.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01221a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
119 Carbazole	0.93395	0.94744	0.010	1.4	50.0
120 Di-n-Butylphthalate	1.42152	1.38355	0.010	-2.7	50.0
123 Fluoranthene	1.32867	1.36133	0.010	2.5	20.0
124 Benzidine	0.42052	0.35683	0.010	-15.1	50.0
125 Pyrene	1.93124	1.71011	0.010	-11.5	50.0
131 Butylbenzylphthalate	0.75962	0.71238	0.010	-6.2	50.0
133 3,3'-Dimethoxybenzidine	0.24518	0.26478	0.010	8.0	50.0
135 3,3'-Dichlorobenzidine	0.39796	0.41835	0.010	5.1	50.0
136 Benzo(a)Anthracene	1.39132	1.40073	0.010	0.7	50.0
137 Chrysene	1.33870	1.36462	0.010	1.9	50.0
138 4,4'-Methylene bis(o-chloro	0.26140	0.26188	0.010	0.2	50.0
139 bis(2-ethylhexyl)Phthalate	1.06160	0.99247	0.010	-6.5	50.0
140 Di-n-octylphthalate	2.39076	2.12739	0.010	-11.0	20.0
141 Benzo(b)fluoranthene	1.57694	1.59202	0.010	1.0	50.0
142 Benzo(k)fluoranthene	1.56543	1.51281	0.010	-3.4	50.0
146 Benzo(a)pyrene	1.26593	1.29715	0.010	2.5	20.0
149 Indeno(1,2,3-cd)pyrene	0.86317	0.96974	0.010	12.3	50.0
150 Dibenz(a,h)anthracene	0.82551	0.96961	0.010	17.5	50.0
151 Benzo(g,h,i)perylene	0.86558	1.00021	0.010	15.6	50.0
\$ 154 Nitrobenzene-d5	0.72133	0.71380	0.010	-1.0	50.0
\$ 155 2-Fluorobiphenyl	1.37758	1.35531	0.010	-1.6	50.0
\$ 156 Terphenyl-d14	1.28185	1.16286	0.010	-9.3	50.0
\$ 157 Phenol-d5	2.03087	2.06532	0.010	1.7	50.0
\$ 158 2-Fluorophenol	1.45385	1.45381	0.010	-0.0	50.0
\$ 159 2,4,6-Tribromophenol	0.15087	0.15198	0.010	0.7	50.0
\$ 186 2-Chlorophenol-d4	1.30669	1.26629	0.010	-3.1	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.97623	0.96910	0.010	-0.7	50.0
M 195 Cresols, total	3.19352	3.14329	0.010	-1.6	50.0
101 Diphenylamine	0.57731	0.57378	0.010	-0.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-DEC-2000 09:33
 Lab File ID: 7AM1221.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01221a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	SD	MAX
7 N-Nitrosomorpholine	1.06982	0.91663	0.010	-14.3	50.0
8 Ethyl methanesulfonate	1.98303	1.70402	0.010	-14.1	50.0
14 2-Picoline	2.07601	2.01096	0.010	-3.1	50.0
15 N-Nitrosomethylethylamine	0.98160	0.86278	0.010	-12.1	50.0
16 Methyl methanesulfonate	1.89223	1.57438	0.010	-16.8	50.0
18 1,3-Dichloro-2-propanol	2.43007	2.14163	0.010	-11.9	50.0
19 N-Nitrosodiethylamine	0.97612	0.88296	0.010	-9.5	50.0
25 Pentachloroethane	0.58342	0.67329	0.010	15.4	50.0
36 N-Nitrosopyrrolidine	1.11832	0.93011	0.010	-16.8	50.0
37 Acetophenone	2.73183	2.76790	0.010	1.3	50.0
39 o-Toluidine	3.45778	2.98183	0.010	-13.8	50.0
40 N-Nitrosopiperidine	0.19637	0.19898	0.010	1.3	50.0
45 O,O,O-Triethyl phosphorothi	0.22280	0.23561	0.010	5.7	50.0
53 a,a-Dimethyl-phenethylamine	0.54428	0.57024	0.010	4.8	50.0
54 2,6-Dichlorophenol	0.30223	0.31529	0.010	4.3	50.0
55 Hexachloropropene	0.25246	0.30535	0.010	21.0	50.0
58 N-Nitrosodi-n-butylamine	0.43869	0.43430	0.010	-1.0	50.0
60 p-Phenylene diamine	0.30157	0.27975	0.010	-7.2	50.0
61 Safrole	0.31090	0.32396	0.010	4.2	50.0
65 1,2,4,5-Tetrachlorobenzene	0.68526	0.74116	0.010	8.2	50.0
71 Isosafrole 1	0.14704	0.15776	0.010	7.3	50.0
M 188 Isosafrole, Total	1.23261	1.26333	0.010	2.5	50.0
72 Isosafrole 2	1.08557	1.10557	0.010	1.8	50.0
75 1,4-Naphthoquinone	0.40542	0.44635	0.010	10.1	50.0
84 Pentachlorobenzene	0.56310	0.63157	0.010	12.2	50.0
89 1-Naphthylamine	1.04666	1.09060	0.010	4.2	50.0
92 2-Naphthylamine	0.96252	0.98855	0.010	2.7	50.0
90 Tinophos	0.46262	0.48661	0.010	5.2	50.0
102 Tetraethyl dithiopyrophosph	0.13053	0.14010	0.010	7.3	50.0
103 Diallate 1	1.12408	0.99856	0.010	-11.2	50.0
M 189 Diallate, Total	5.31037	4.47487	0.010	-15.7	50.0
109 Diallate 2	0.15414	0.15181	0.010	-1.5	50.0
104 Phorate	0.19362	0.17616	0.010	-9.0	50.0
105 1,3,5-Trinitrobenzene	0.06360	0.10223	0.010	60.7	50.0
108 Phenacetin	0.45451	0.50814	0.010	11.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-DEC-2000 09:33
 Lab File ID: 7AM1221.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01221a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
110 Dimethoate	0.45145	0.43845	0.010	-2.9	50.0
112 Pentachloronitrobenzene	0.13035	0.15025	0.010	15.3	50.0
113 4-Aminobiphenyl	0.65417	0.57954	0.010	-11.4	50.0
114 Pronamide	0.37320	0.40062	0.010	7.3	50.0
117 Dinoseb	0.17588	0.21898	0.010	24.5	50.0
118 Disulfoton	0.67339	0.58868	0.010	-12.6	50.0
121 4-Nitroquinoline 1-oxide	0.06625	0.06911	0.010	4.3	50.0
122 Methapyrilene	0.22378	0.23527	0.010	5.1	50.0
126 Aramite 1	0.11097	0.12578	0.010	13.3	50.0
M 191 Aramite, Total	0.76835	0.83929	0.010	9.2	50.0
127 Aramite 2	0.15058	0.16543	0.010	9.9	50.0
128 p-Dimethylamino azobenzene	0.34723	0.37474	0.010	7.9	50.0
129 p-Chlorobenzilate	0.69526	0.74898	0.010	7.7	50.0
130 Famphur	0.33804	0.54141	0.010	60.2	50.0 <-
132 3,3'-Dimethylbenzidine	0.51429	0.43145	0.010	-16.1	50.0
134 2-Acetylaminofluorene	0.47483	0.44989	0.010	-5.3	50.0
143 7,12-dimethylbenz[a]anthrac	0.93443	0.82786	0.010	-11.4	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.85365	0.69559	0.010	-18.5	50.0
193 3-Methylphenol	2.11425	1.84217	0.010	-12.9	50.0
69 1,4-Dinitrobenzene	0.17194	0.22330	0.010	29.9	50.0
77 m-Dinitrobenzene	0.19438	0.24229	0.010	24.6	50.0
198 1,4-Dioxane	0.76541	0.90743	0.010	18.6	50.0
88 2,3,4,6-Tetrachlorophenol	0.31379	0.34924	0.010	11.3	50.0
97 5-Nitro-o-toluidine	0.28591	0.34815	0.010	21.8	50.0
199 3-Picoline	2.14415	1.74503	0.010	-18.6	50.0
200 N,N-Dimethylacetamide	0.76311	0.55523	0.010	27.2	50.0
213 2-Chloroacetophenone	0.90531	0.87467	0.010	-3.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 22-DEC-2000 08:52
 Lab File ID: 7SM1222.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01222a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	2.10924	1.76975	0.010	-16.1	50.0
10 N-Nitrosodimethylamine	1.42918	1.35805	0.010	-5.0	50.0
11 Ethyl methacrylate	2.17790	2.12357	0.010	-2.5	50.0
12 3-Chloropropionitrile	0.51945	0.51143	0.010	-1.5	50.0
13 Malononitrile	1.87838	1.77268	0.010	-5.6	50.0
209 Benzaldehyde	1.84859	1.96204	0.010	6.1	50.0
21 Aniline	3.01167	2.77580	0.010	-7.8	50.0
22 Phenol	2.56338	2.40707	0.010	-6.1	20.0
23 bis(2-Chloroethyl)ether	1.86004	1.84746	0.010	-0.7	50.0
24 2-Chlorophenol	1.39647	1.35890	0.010	-2.7	50.0
26 1,3-Dichlorobenzene	1.61203	1.60668	0.010	-0.3	50.0
27 1,4-Dichlorobenzene	1.62396	1.60211	0.010	-1.3	20.0
28 1,2-Dichlorobenzene	1.52323	1.49549	0.010	-1.8	50.0
29 Benzyl Alcohol	0.95202	0.95348	0.010	0.2	50.0
30 2-Methylphenol	1.52599	1.42009	0.010	-6.9	50.0
31 bis(2-Chloroisopropyl)ether	0.75674	0.75385	0.010	-0.4	50.0
37 Acetophenone	2.73183	2.64035	0.010	-3.3	50.0
32 N-Nitroso-di-n-propylamine	1.98667	1.94082	0.050	-2.3	50.0
192 4-Methylphenol	1.66753	1.53823	0.010	-7.8	50.0
34 Hexachloroethane	0.77515	0.77999	0.010	0.6	50.0
35 Nitrobenzene	0.77227	0.74090	0.010	-4.1	50.0
41 Isophorone	1.20047	1.19444	0.010	-0.5	50.0
42 2-Nitrophenol	0.20528	0.18829	0.010	-8.3	20.0
43 2,4-Dimethylphenol	0.48971	0.48000	0.010	-2.0	50.0
44 bis(2-Chloroethoxy)methane	0.61449	0.60362	0.010	-1.8	50.0
46 2,4-Toluenediamine	0.07417	0.04331	0.010	-41.6	50.0
47 1,3,5-Trichlorobenzene	0.40252	0.40361	0.010	0.3	50.0
48 2,4-Dichlorophenol	0.30823	0.29525	0.010	-4.2	20.0
49 Benzoic Acid	0.13382	0.14693	0.010	9.8	50.0
50 1,2,4-Trichlorobenzene	0.36764	0.35603	0.010	-3.2	50.0
51 Naphthalene	1.18058	1.16200	0.010	-1.6	50.0
52 4-Chloroaniline	0.43966	0.38611	0.010	-12.2	50.0
56 Hexachlorobutadiene	0.27421	0.27994	0.010	2.1	20.0
210 Caprolactam	0.11897	0.11388	0.010	-4.3	50.0
57 1,2,3-Trichlorobenzene	0.36679	0.36489	0.010	-0.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 22-DEC-2000 08:52
 Lab File ID: 7SM1222.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01222a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
59 4-Chloro-3-Methylphenol	0.43221	0.41712	0.010	-3.5	20.0
62 2-Methylnaphthalene	0.76228	0.74056	0.010	-2.8	50.0
63 1-Methylnaphthalene	0.75519	0.75009	0.010	-0.7	50.0
64 Hexachlorocyclopentadiene	0.48067	0.41127	0.050	-14.4	50.0
66 2,4,6-Trichlorophenol	0.38696	0.38290	0.010	-1.0	20.0
67 2,4,5-Trichlorophenol	0.38161	0.39824	0.010	4.4	50.0
211 1,1'-Biphenyl	1.69699	1.61675	0.010	-4.7	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68522	0.67004	0.010	-2.2	50.0
70 2-Chloronaphthalene	1.20821	1.14958	0.010	-4.9	50.0
73 2-Nitroaniline	0.60272	0.56005	0.010	-7.1	50.0
74 1,2,3,4-Tetrachlorobenzene	0.62853	0.63433	0.010	0.9	50.0
76 Dimethylphthalate	1.43247	1.45741	0.010	1.7	50.0
78 2,6-Dinitrotoluene	0.30942	0.29769	0.010	-3.8	50.0
79 Acenaphthylene	1.97075	1.87788	0.010	-4.7	50.0
80 1,2-Dinitrobenzene	0.14254	0.13822	0.010	-3.0	50.0
81 3-Nitroaniline	0.27453	0.23061	0.010	-16.0	50.0
82 Acenaphthene	1.20066	1.18971	0.010	-0.9	20.0
83 2,4-Dinitrophenol	0.15164	0.11656	0.050	-23.1	50.0
85 4-Nitrophenol	0.29293	0.25889	0.050	-11.6	50.0
86 Dibenzofuran	1.72281	1.60921	0.010	-6.6	50.0
87 2,4-Dinitrotoluene	0.40838	0.39440	0.010	-3.4	50.0
91 2,3,5,6-Tetrachlorophenol	0.37212	0.36562	0.010	-1.7	50.0
93 Diethylphthalate	1.43279	1.47059	0.010	2.6	50.0
94 Fluorene	1.41959	1.37811	0.010	-2.9	50.0
95 4-Chlorophenyl-phenylether	0.76217	0.74583	0.010	-2.1	50.0
96 4-Nitroaniline	0.24303	0.19321	0.010	-20.5	50.0
98 4,6-Dinitro-2-methylphenol	0.14415	0.14337	0.010	-0.5	50.0
99 N-Nitrosodiphenylamine	0.57731	0.58261	0.010	0.9	20.0
100 1,2-Diphenylhydrazine	1.51223	1.55726	0.010	3.0	50.0
106 4-Bromophenyl-phenylether	0.24981	0.25796	0.010	3.3	50.0
107 Hexachlorobenzene	0.24698	0.26853	0.010	8.7	50.0
212 Atrazine	0.23092	0.25935	0.010	12.3	50.0
111 Pentachlorophenol	0.11798	0.12387	0.010	5.0	20.0
115 Phenanthrene	1.26361	1.24732	0.010	-1.3	50.0
116 Anthracene	1.18955	1.15524	0.010	-2.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 22-DEC-2000 08:52
 Lab File ID: 7SM1222.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01222a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
119 Carbazole	0.93395	0.84278	0.010	-9.8	50.0
120 Di-n-Butylphthalate	1.42152	1.53195	0.010	7.8	50.0
123 Fluoranthene	1.32867	1.33697	0.010	0.6	20.0
124 Benzidine	0.42052	0.33612	0.010	-20.1	50.0
125 Pyrene	1.93124	1.85023	0.010	-4.2	50.0
131 Butylbenzylphthalate	0.75962	0.76462	0.010	0.7	50.0
133 3,3'-Dimethoxybenzidine	0.24518	0.20903	0.010	-14.7	50.0
135 3,3'-Dichlorobenzidine	0.39796	0.39669	0.010	-0.3	50.0
136 Benzo(a)Anthracene	1.39132	1.38994	0.010	-0.1	50.0
137 Chrysene	1.33870	1.33665	0.010	-0.2	50.0
138 4,4'-Methylene bis(o-chloro	0.26140	0.24421	0.010	-6.6	50.0
139 bis(2-ethylhexyl)Phthalate	1.06160	1.11583	0.010	5.1	50.0
140 Di-n-octylphthalate	2.39076	2.28922	0.010	-4.2	20.0
141 Benzo(b)fluoranthene	1.57694	1.50345	0.010	-4.7	50.0
142 Benzo(k)fluoranthene	1.56543	1.60074	0.010	2.3	50.0
146 Benzo(a)pyrene	1.26593	1.30050	0.010	2.7	20.0
149 Indeno(1,2,3-cd)pyrene	0.86317	0.95553	0.010	10.7	50.0
150 Dibenz(a,h)anthracene	0.82551	0.93155	0.010	12.8	50.0
151 Benzo(g,h,i)perylene	0.86558	0.95528	0.010	10.4	50.0
\$ 154 Nitrobenzene-d5	0.72133	0.70133	0.010	-2.8	50.0
\$ 155 2-Fluorobiphenyl	1.37758	1.36272	0.010	-1.1	50.0
\$ 156 Terphenyl-d14	1.28185	1.23290	0.010	-3.8	50.0
\$ 157 Phenol-d5	2.03087	1.93831	0.010	-4.6	50.0
\$ 158 2-Fluorophenol	1.45385	1.43814	0.010	-1.1	50.0
\$ 159 2,4,6-Tribromophenol	0.15087	0.15834	0.010	5.0	50.0
\$ 186 2-Chlorophenol-d4	1.30669	1.27114	0.010	-2.7	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.97623	0.95473	0.010	-2.2	50.0
M 195 Cresols, total	3.19352	2.95832	0.010	-7.4	50.0
101 Diphenylamine	0.57731	0.58261	0.010	0.9	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\01222a.b\7AM1222.D
Report Date: 22-Dec-2000 10:28

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 22-DEC-2000 09:27
Lab File ID: 7AM1222.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
Analysis Type: Init. Cal. Times: 15:05 14:19
Lab Sample ID: astd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01222a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	1.06982	0.87452	0.010	-18.3	50.0
8 Ethyl methanesulfonate	1.98303	1.65212	0.010	-16.7	50.0
14 2-Picoline	2.07601	2.06028	0.010	-0.8	50.0
15 N-Nitrosomethylethylamine	0.98160	0.85281	0.010	-13.1	50.0
16 Methyl methanesulfonate	1.89223	1.50478	0.010	-20.5	50.0
18 1,3-Dichloro-2-propanol	2.43007	2.11821	0.010	-12.8	50.0
19 N-Nitrosodiethylamine	0.97612	0.84047	0.010	-13.9	50.0
25 Pentachloroethane	0.58342	0.67500	0.010	15.7	50.0
36 N-Nitrosopyrrolidine	1.11832	0.85093	0.010	-23.9	50.0
37 Acetophenone	2.73183	2.62007	0.010	-4.1	50.0
39 o-Toluidine	3.45778	2.76656	0.010	-20.0	50.0
40 N-Nitrosopiperidine	0.19637	0.19994	0.010	1.8	50.0
45 O,O,O-Triethyl phosphorothi	0.22280	0.24412	0.010	9.6	50.0
53 a,a-Dimethyl-phenethylamine	0.54428	0.58872	0.010	8.2	50.0
54 2,6-Dichlorophenol	0.30223	0.30010	0.010	-0.7	50.0
55 Hexachloropropene	0.25246	0.29338	0.010	16.2	50.0
58 N-Nitrosodi-n-butylamine	0.43869	0.42800	0.010	-2.4	50.0
60 p-Phenylene diamine	0.30157	0.19915	0.010	-34.0	50.0
61 Safrole	0.31090	0.32292	0.010	3.9	50.0
65 1,2,4,5-Tetrachlorobenzene	0.68526	0.72560	0.010	5.9	50.0
71 Isosafrole 1	0.14704	0.15743	0.010	7.1	50.0
M 188 Isosafrole, Total	1.23261	1.20452	0.010	-2.3	50.0
72 Isosafrole 2	1.08557	1.04709	0.010	-3.5	50.0
75 1,4-Naphthoquinone	0.40542	0.39631	0.010	-2.2	50.0
84 Pentachlorobenzene	0.56310	0.60707	0.010	7.8	50.0
89 1-Naphthylamine	1.04666	0.92653	0.010	-11.5	50.0
92 2-Naphthylamine	0.96252	0.75534	0.010	-21.5	50.0
90 Zinophos	0.46262	0.47576	0.010	2.8	50.0
102 Tetraethyl dithiopyrophosph	0.13053	0.15181	0.010	16.3	50.0
103 Diallate 1	1.12408	1.06507	0.010	-5.2	50.0
M 189 Diallate, Total	5.31037	4.45552	0.010	-16.1	50.0
109 Diallate 2	0.15414	0.16434	0.010	6.6	50.0
104 Phorate	0.19362	0.19049	0.010	-1.6	50.0
105 1,3,5-Trinitrobenzene	0.06360	0.09989	0.010	57.1	50.0 <-
108 Phenacetin	0.45451	0.46287	0.010	1.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 22-DEC-2000 09:27
 Lab File ID: 7AM1222.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01222a.b\8270c.m

COMPOUND	RRF		MIN		MAX	
	RRF	RF16	RRF	RD	RD	
110 Dimethoate	0.45145	0.44702	0.010	-1.0	50.0	
112 Pentachloronitrobenzene	0.13035	0.15958	0.010	22.4	50.0	
113 4-Aminobiphenyl	0.65417	0.47879	0.010	-26.8	50.0	
114 Pronamide	0.37320	0.42869	0.010	14.9	50.0	
117 Dinoseb	0.17588	0.24499	0.010	39.3	50.0	
118 Disulfoton	0.67339	0.62949	0.010	-6.5	50.0	
121 4-Nitroquinoline 1-oxide	0.06625	0.06605	0.010	-0.3	50.0	
122 Methapyrilene	0.22378	0.18252	0.010	-18.4	50.0	
126 Aramite 1	0.11097	0.13180	0.010	18.8	50.0	
M 191 Aramite, Total	0.76835	0.81285	0.010	5.8	50.0	
127 Aramite 2	0.15058	0.18389	0.010	22.1	50.0	
128 p-Dimethylamino azobenzene	0.34723	0.37654	0.010	8.4	50.0	
129 p-Chlorobenzilate	0.69526	0.82413	0.010	18.5	50.0	
130 Famphur	0.33804	0.53738	0.010	59.0	50.0	<-
132 3,3'-Dimethylbenzidine	0.51429	0.50670	0.010	-1.5	50.0	
134 2-Acetylaminofluorene	0.47483	0.40278	0.010	-15.2	50.0	
143 7,12-dimethylbenz[a]anthrac	0.93443	0.85387	0.010	-8.6	50.0	
144 Hexachlorophene	++++	++++	0.010	++++	50.0	<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0	<-
148 3-Methylcholanthrene	0.85365	0.67882	0.010	-20.5	50.0	
193 3-Methylphenol	2.11425	1.69722	0.010	-19.7	50.0	
69 1,4-Dinitrobenzene	0.17194	0.20005	0.010	16.3	50.0	
77 m-Dinitrobenzene	0.19438	0.21420	0.010	10.2	50.0	
198 1,4-Dioxane	0.76541	0.85671	0.010	11.9	50.0	
88 2,3,4,6-Tetrachlorophenol	0.31379	0.32930	0.010	4.9	50.0	
97 5-Nitro-o-toluidine	0.28591	0.29685	0.010	3.8	50.0	
199 3-Picoline	2.14415	1.64950	0.010	-23.1	50.0	
200 N,N-Dimethylacetamide	0.76311	0.55203	0.010	-27.7	50.0	
213 2-Chloroacetophenone	0.90531	0.82513	0.010	-8.9	50.0	

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\01229a.b\7SM1229.D
Report Date: 29-Dec-2000 09:25

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 29-DEC-2000 08:47
Lab File ID: 7SM1229.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
Analysis Type: Init. Cal. Times: 15:05 14:19
Lab Sample ID: sstd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01229a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
9 Pyridine	2.10924	2.09396	0.010	-0.7	50.0
10 N-Nitrosodimethylamine	1.42918	1.42644	0.010	-0.2	50.0
11 Ethyl methacrylate	2.17790	2.13822	0.010	-1.8	50.0
12 3-Chloropropionitrile	0.51945	0.52294	0.010	0.7	50.0
13 Malononitrile	1.87838	1.85037	0.010	-1.5	50.0
209 Benzaldehyde	1.84859	1.94258	0.010	5.1	50.0
21 Aniline	3.01167	3.10687	0.010	3.2	50.0
22 Phenol	2.56338	2.57362	0.010	0.4	20.0
23 bis(2-Chloroethyl)ether	1.86004	1.85177	0.010	-0.4	50.0
24 2-Chlorophenol	1.39647	1.38959	0.010	-0.5	50.0
26 1,3-Dichlorobenzene	1.61203	1.60545	0.010	-0.4	50.0
27 1,4-Dichlorobenzene	1.62396	1.61296	0.010	-0.7	20.0
28 1,2-Dichlorobenzene	1.52323	1.50768	0.010	-1.0	50.0
29 Benzyl Alcohol	0.95202	1.06151	0.010	11.5	50.0
30 2-Methylphenol	1.52599	1.50867	0.010	-1.1	50.0
31 bis(2-Chloroisopropyl)ether	0.75674	0.75014	0.010	-0.9	50.0
37 Acetophenone	2.73183	2.74227	0.010	0.4	50.0
32 N-Nitroso-di-n-propylamine	1.98667	2.00649	0.050	1.0	50.0
192 4-Methylphenol	1.66753	1.64930	0.010	-1.1	50.0
34 Hexachloroethane	0.77515	0.79332	0.010	2.3	50.0
35 Nitrobenzene	0.77227	0.75190	0.010	-2.6	50.0
41 Isophorone	1.20047	1.16536	0.010	-2.9	50.0
42 2-Nitrophenol	0.20528	0.19374	0.010	-5.6	20.0
43 2,4-Dimethylphenol	0.48971	0.48402	0.010	-1.2	50.0
44 bis(2-Chloroethoxy)methane	0.61449	0.61417	0.010	-0.1	50.0
46 2,4-Toluediamene	0.07417	0.06676	0.010	-10.0	50.0
47 1,3,5-Trichlorobenzene	0.40252	0.38391	0.010	-4.6	50.0
48 2,4-Dichlorophenol	0.30823	0.30278	0.010	-1.8	20.0
49 Benzoic Acid	0.13382	0.14488	0.010	8.3	50.0
50 1,2,4-Trichlorobenzene	0.36764	0.35880	0.010	-2.4	50.0
51 Naphthalene	1.18058	1.14809	0.010	-2.8	50.0
52 4-Chloroaniline	0.43966	0.43251	0.010	-1.6	50.0
56 Hexachlorobutadiene	0.27421	0.27315	0.010	-0.4	20.0
210 Caprolactam	0.11897	0.12247	0.010	2.9	50.0
57 1,2,3-Trichlorobenzene	0.36679	0.35667	0.010	-2.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 29-DEC-2000 08:47
 Lab File ID: 7SM1229.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01229a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.43221	0.43030	0.010	-0.4	20.0
62 2-Methylnaphthalene	0.76228	0.76077	0.010	-0.2	50.0
63 1-Methylnaphthalene	0.75519	0.74870	0.010	-0.9	50.0
64 Hexachlorocyclopentadiene	0.48067	0.42691	0.050	-11.2	50.0
66 2,4,6-Trichlorophenol	0.38696	0.38844	0.010	0.4	20.0
67 2,4,5-Trichlorophenol	0.38161	0.39171	0.010	2.6	50.0
211 1,1'-Biphenyl	1.69699	1.66502	0.010	-1.9	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68522	0.66227	0.010	-3.3	50.0
70 2-Chloronaphthalene	1.20821	1.19329	0.010	-1.2	50.0
73 2-Nitroaniline	0.60272	0.60449	0.010	0.3	50.0
74 1,2,3,4-Tetrachlorobenzene	0.62853	0.60852	0.010	-3.2	50.0
76 Dimethylphthalate	1.43247	1.45348	0.010	1.5	50.0
78 2,6-Dinitrotoluene	0.30942	0.28396	0.010	-8.2	50.0
79 Acenaphthylene	1.97075	1.90181	0.010	-3.5	50.0
80 1,2-Dinitrobenzene	0.14254	0.14879	0.010	4.4	50.0
81 3-Nitroaniline	0.27453	0.26417	0.010	-3.8	50.0
82 Acenaphthene	1.20066	1.19616	0.010	-0.4	20.0
83 2,4-Dinitrophenol	0.15164	0.11280	0.050	-25.6	50.0
85 4-Nitrophenol	0.29293	0.25351	0.050	-13.5	50.0
86 Dibenzofuran	1.72281	1.72655	0.010	0.2	50.0
87 2,4-Dinitrotoluene	0.40838	0.41601	0.010	1.9	50.0
91 2,3,5,6-Tetrachlorophenol	0.37212	0.31783	0.010	-14.6	50.0
93 Diethylphthalate	1.43279	1.49126	0.010	4.1	50.0
94 Fluorene	1.41959	1.41171	0.010	-0.6	50.0
95 4-Chlorophenyl-phenylether	0.76217	0.69003	0.010	-9.5	50.0
96 4-Nitroaniline	0.24303	0.21700	0.010	-10.7	50.0
98 4,6-Dinitro-2-methylphenol	0.14415	0.12694	0.010	-11.9	50.0
99 N-Nitrosodiphenylamine	0.57731	0.58759	0.010	1.8	20.0
100 1,2-Diphenylhydrazine	1.51223	1.38150	0.010	-8.6	50.0
106 4-Bromophenyl-phenylether	0.24981	0.23159	0.010	-7.3	50.0
107 Hexachlorobenzene	0.24698	0.22256	0.010	-9.9	50.0
212 Atrazine	0.23092	0.24167	0.010	4.7	50.0
111 Pentachlorophenol	0.11798	0.10577	0.010	-10.4	20.0
115 Phenanthrene	1.26361	1.28778	0.010	1.9	50.0
116 Anthracene	1.18955	1.22610	0.010	3.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 29-DEC-2000 08:47
 Lab File ID: 7SM1229.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01229a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
119 Carbazole	0.93395	0.91971	0.010	-1.5	50.0
120 Di-n-Butylphthalate	1.42152	1.45837	0.010	2.6	50.0
123 Fluoranthene	1.32867	1.40112	0.010	5.5	20.0
124 Benzidine	0.42052	0.33920	0.010	-19.3	50.0
125 Pyrene	1.93124	1.92367	0.010	-0.4	50.0
131 Butylbenzylphthalate	0.75962	0.76577	0.010	0.8	50.0
133 3,3'-Dimethoxybenzidine	0.24518	0.23145	0.010	-5.6	50.0
135 3,3'-Dichlorobenzidine	0.39796	0.39587	0.010	-0.5	50.0
136 Benzo(a)Anthracene	1.39132	1.41047	0.010	1.4	50.0
137 Chrysene	1.33870	1.38660	0.010	3.6	50.0
138 4,4'-Methylene bis(o-chloro	0.26140	0.24754	0.010	-5.3	50.0
139 bis(2-ethylhexyl)Phthalate	1.06160	1.06776	0.010	0.6	50.0
140 Di-n-octylphthalate	2.39076	2.15916	0.010	-9.7	20.0
141 Benzo(b)fluoranthene	1.57694	1.53417	0.010	-2.7	50.0
142 Benzo(k)fluoranthene	1.56543	1.45215	0.010	-7.2	50.0
146 Benzo(a)pyrene	1.26593	1.23179	0.010	-2.7	20.0
149 Indeno(1,2,3-cd)pyrene	0.86317	0.89505	0.010	3.7	50.0
150 Dibenz(a,h)anthracene	0.82551	0.90975	0.010	10.2	50.0
151 Benzo(g,h,i)perylene	0.86558	0.96629	0.010	11.6	50.0
\$ 154 Nitrobenzene-d5	0.72133	0.70858	0.010	-1.8	50.0
\$ 155 2-Fluorobiphenyl	1.37758	1.35934	0.010	-1.3	50.0
\$ 156 Terphenyl-d14	1.28185	1.26102	0.010	-1.6	50.0
\$ 157 Phenol-d5	2.03087	2.04274	0.010	0.6	50.0
\$ 158 2-Fluorophenol	1.45385	1.44181	0.010	-0.8	50.0
\$ 159 2,4,6-Tribromophenol	0.15087	0.12335	0.010	-18.2	50.0
\$ 186 2-Chlorophenol-d4	1.30669	1.31540	0.010	0.7	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.97623	0.97392	0.010	-0.2	50.0
M 195 Cresols, total	3.19352	3.15797	0.010	-1.1	50.0
101 Diphenylamine	0.57731	0.58759	0.010	1.8	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\01229a.b\7AM1229.D
Report Date: 29-Dec-2000 10:04

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 29-DEC-2000 09:23
Lab File ID: 7AM1229.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
Analysis Type: Init. Cal. Times: 15:05 14:19
Lab Sample ID: astd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01229a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
7 N-Nitrosomorpholine	1.06982	0.92510	0.010	-13.5	50.0
8 Ethyl methanesulfonate	1.98303	1.72735	0.010	-12.9	50.0
14 2-Picoline	2.07601	2.05188	0.010	-1.2	50.0
15 N-Nitrosomethylethylamine	0.98160	0.85501	0.010	-12.9	50.0
16 Methyl methanesulfonate	1.89223	1.56478	0.010	-17.3	50.0
18 1,3-Dichloro-2-propanol	2.43007	2.11724	0.010	-12.9	50.0
19 N-Nitrosodiethylamine	0.97612	0.85601	0.010	-12.3	50.0
25 Pentachloroethane	0.58342	0.66888	0.010	14.6	50.0
36 N-Nitrosopyrrolidine	1.11832	0.91075	0.010	-18.6	50.0
37 Acetophenone	2.73183	2.74860	0.010	0.6	50.0
39 o-Toluidine	3.45778	3.05967	0.010	-11.5	50.0
40 N-Nitrosopiperidine	0.19637	0.20308	0.010	3.4	50.0
45 O,O,O-Triethyl phosphorothi	0.22280	0.23839	0.010	7.0	50.0
53 a,a-Dimethyl-phenethylamine	0.54428	0.59632	0.010	9.6	50.0
54 2,6-Dichlorophenol	0.30223	0.31110	0.010	2.9	50.0
55 Hexachloropropene	0.25246	0.30462	0.010	20.7	50.0
58 N-Nitrosodi-n-butylamine	0.43869	0.43114	0.010	-1.7	50.0
60 p-Phenylene diamine	0.30157	0.22232	0.010	-26.3	50.0
61 Safrole	0.31090	0.32651	0.010	5.0	50.0
65 1,2,4,5-Tetrachlorobenzene	0.68526	0.72266	0.010	5.5	50.0
71 Isosafrole 1	0.14704	0.15472	0.010	5.2	50.0
M 188 Isosafrole, Total	1.23261	1.22907	0.010	-0.3	50.0
72 Isosafrole 2	1.08557	1.07435	0.010	-1.0	50.0
75 1,4-Naphthoquinone	0.40542	0.41217	0.010	1.7	50.0
84 Pentachlorobenzene	0.56310	0.60376	0.010	7.2	50.0
89 1-Naphthylamine	1.04666	0.99127	0.010	-5.3	50.0
92 2-Naphthylamine	0.96252	0.80191	0.010	-16.7	50.0
90 Zinophos	0.46262	0.47771	0.010	3.3	50.0
102 Tetraethyl dithiopyrophosph	0.13053	0.15304	0.010	17.3	50.0
103 Diallate 1	1.12408	1.05648	0.010	-6.0	50.0
M 189 Diallate, Total	5.31037	4.42854	0.010	-16.6	50.0
109 Diallate 2	0.15414	0.15797	0.010	2.5	50.0
104 Phorate	0.19362	0.18734	0.010	-3.2	50.0
105 1,3,5-Trinitrobenzene	0.06360	0.09776	0.010	53.7	50.0 <-
108 Phenacetin	0.45451	0.45659	0.010	0.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 29-DEC-2000 09:23
 Lab File ID: 7AM1229.D Init. Cal. Date(s): 15-NOV-2000 13-DEC-2000
 Analysis Type: Init. Cal. Times: 15:05 14:19
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\01229a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.45145	0.43829	0.010	-2.9	50.0
112 Pentachloronitrobenzene	0.13035	0.16185	0.010	24.2	50.0
113 4-Aminobiphenyl	0.65417	0.48686	0.010	-25.6	50.0
114 Pronamide	0.37320	0.41571	0.010	11.4	50.0
117 Dinoseb	0.17588	0.20263	0.010	15.2	50.0
118 Disulfoton	0.67339	0.61748	0.010	-8.3	50.0
121 4-Nitroquinoline 1-oxide	0.06625	0.04435	0.010	-33.1	50.0
122 Methapyrilene	0.22378	0.22116	0.010	-1.2	50.0
126 Aramite 1	0.11097	0.15803	0.010	42.4	50.0
M 191 Aramite, Total	0.76835	0.73689	0.010	-4.1	50.0
127 Aramite 2	0.15058	0.20946	0.010	39.1	50.0
128 p-Dimethylamino azobenzene	0.34723	0.42756	0.010	23.1	50.0
129 p-Chlorobenzilate	0.69526	0.96411	0.010	38.7	50.0
130 Famphur	0.33804	0.64102	0.010	89.6	50.0 <-
132 3,3'-Dimethylbenzidine	0.51429	0.44127	0.010	-14.2	50.0
134 2-Acetylaminofluorene	0.47483	0.40817	0.010	-14.0	50.0
143 7,12-dimethylbenz[a]anthrac	0.93443	0.88104	0.010	-5.7	50.0
144 Hexachlorophene	++++	++++	0.010	+++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	+++	50.0 <-
148 3-Methylcholanthrene	0.85365	0.65868	0.010	-22.8	50.0
193 3-Methylphenol	2.11425	1.86717	0.010	-11.7	50.0
69 1,4-Dinitrobenzene	0.17194	0.20317	0.010	18.2	50.0
77 m-Dinitrobenzene	0.19438	0.21850	0.010	12.4	50.0
198 1,4-Dioxane	0.76541	1.03773	0.010	35.6	50.0
88 2,3,4,6-Tetrachlorophenol	0.31379	0.30172	0.010	-3.8	50.0
97 5-Nitro-o-toluidine	0.28591	0.28659	0.010	0.2	50.0
199 3-Picoline	2.14415	1.86670	0.010	-12.9	50.0
200 N,N-Dimethylacetamide	0.76311	0.62148	0.010	-18.6	50.0
213 2-Chloroacetophenone	0.90531	0.85695	0.010	-5.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:13
 Lab File ID: 7SM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOHO5\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
9 Pyridine	1.54230	1.51583	0.010	-1.7	50.0
10 N-Nitrosodimethylamine	1.25811	1.14638	0.010	-8.9	50.0
11 Ethyl methacrylate	2.13991	2.16061	0.010	1.0	50.0
12 3-Chloropropionitrile	0.50983	0.47868	0.010	-6.1	50.0
13 Malononitrile	1.68190	1.72304	0.010	2.4	50.0
209 Benzaldehyde	1.87404	1.98030	0.010	5.7	50.0
21 Aniline	2.76728	2.82280	0.010	2.0	50.0
22 Phenol	2.39273	2.39249	0.010	-0.0	20.0
23 bis(2-Chloroethyl)ether	1.86001	1.81649	0.010	-2.3	50.0
24 2-Chlorophenol	1.32207	1.32216	0.010	0.0	50.0
26 1,3-Dichlorobenzene	1.60716	1.57690	0.010	-1.9	50.0
27 1,4-Dichlorobenzene	1.60719	1.59684	0.010	-0.6	20.0
28 1,2-Dichlorobenzene	1.50617	1.48522	0.010	-1.4	50.0
29 Benzyl Alcohol	16.00000	16.09194	0.010	-0.6	50.0
30 2-Methylphenol	1.41409	1.47591	0.010	4.4	50.0
31 bis(2-Chloroisopropyl)ether	0.73842	0.73715	0.010	-0.2	50.0
37 Acetophenone	2.58493	2.69186	0.010	4.1	50.0
32 N-Nitroso-di-n-propylamine	1.90279	1.91881	0.050	0.8	50.0
192 4-Methylphenol	1.49873	1.50384	0.010	0.3	50.0
34 Hexachloroethane	0.78175	0.77065	0.010	-1.4	50.0
35 Nitrobenzene	0.76435	0.77417	0.010	1.3	50.0
41 Isophorone	1.20875	1.21366	0.010	0.4	50.0
42 2-Nitrophenol	0.18904	0.20016	0.010	5.9	20.0
43 2,4-Dimethylphenol	0.47299	0.48198	0.010	1.9	50.0
44 bis(2-Chloroethoxy)methane	0.59162	0.61572	0.010	4.1	50.0
46 2,4-Toluenediamine	++++	0.04350	0.010	++++	50.0 <-
47 1,3,5-Trichlorobenzene	0.40886	0.41394	0.010	1.2	50.0
48 2,4-Dichlorophenol	0.29400	0.30058	0.010	2.2	20.0
49 Benzoic Acid	0.11649	0.12287	0.010	5.5	50.0
50 1,2,4-Trichlorobenzene	0.36483	0.36796	0.010	0.9	50.0
51 Naphthalene	1.15381	1.15724	0.010	0.3	50.0
52 4-Chloroaniline	0.39034	0.41744	0.010	6.9	50.0
56 Hexachlorobutadiene	0.28673	0.28169	0.010	-1.8	20.0
210 Caprolactam	0.10719	0.12308	0.010	14.8	50.0
57 1,2,3-Trichlorobenzene	0.36790	0.37552	0.010	2.1	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\7AM0102G.D
Report Date: 02-Jan-2001 16:44

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:48
Lab File ID: 7AM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
Analysis Type: Init. Cal. Times: 15:05 12:42
Lab Sample ID: astd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
7 N-Nitrosomorpholine	1.06982	0.88409	0.010	-17.4	50.0
8 Ethyl methanesulfonate	1.98303	1.67352	0.010	-15.6	50.0
14 2-Picoline	2.07601	1.84731	0.010	-11.0	50.0
15 N-Nitrosomethylethylamine	0.98160	0.62327	0.010	-36.5	50.0
16 Methyl methanesulfonate	1.89223	1.56082	0.010	-17.5	50.0
18 1,3-Dichloro-2-propanol	2.43007	2.09882	0.010	-13.6	50.0
19 N-Nitrosodiethylamine	0.97612	0.84425	0.010	-13.5	50.0
25 Pentachloroethane	0.58342	0.69434	0.010	19.0	50.0
36 N-Nitrosopyrrolidine	1.11832	0.83731	0.010	-25.1	50.0
37 Acetophenone	2.58493	2.66194	0.010	3.0	50.0
39 o-Toluidine	3.45778	2.83568	0.010	-18.0	50.0
40 N-Nitrosopiperidine	0.19637	0.19568	0.010	-0.4	50.0
45 O,O,O-Triethyl phosphorothi	0.22280	0.25157	0.010	12.9	50.0
53 a,a-Dimethyl-phenethylamine	16.00000	6.81919	0.010	57.4	50.0
54 2,6-Dichlorophenol	0.30223	0.29928	0.010	-1.0	50.0
55 Hexachloropropene	16.00000	19.10023	0.010	-19.4	50.0
58 N-Nitrosodi-n-butylamine	0.43869	0.42583	0.010	-2.9	50.0
60 p-Phenylene diamine	16.00000	10.69775	0.010	33.1	50.0
61 Safrole	0.31090	0.31209	0.010	0.4	50.0
65 1,2,4,5-Tetrachlorobenzene	0.68526	0.74641	0.010	8.9	50.0
71 Isosafrole 1	0.14704	0.15842	0.010	7.7	50.0
M 188 Isosafrole, Total	1.23261	1.21696	0.010	-1.3	50.0
72 Isosafrole 2	1.08557	1.05853	0.010	-2.5	50.0
75 1,4-Naphthoquinone	0.40542	0.40351	0.010	-0.5	50.0
84 Pentachlorobenzene	0.56310	0.63486	0.010	12.7	50.0
89 1-Naphthylamine	1.04666	0.94120	0.010	-10.1	50.0
92 2-Naphthylamine	0.96252	0.86650	0.010	-10.0	50.0
90 Kinophos	0.46262	0.46564	0.010	0.7	50.0
102 Tetraethyl dithiopyrophosph	0.13053	0.15551	0.010	19.1	50.0
103 Diallate 1	1.12408	1.06862	0.010	-4.9	50.0
M 189 Diallate, Total	5.31037	4.27182	0.010	-19.6	50.0
109 Diallate 2	0.15414	0.16596	0.010	7.7	50.0
104 Phorate	0.19362	0.19157	0.010	-1.1	50.0
105 1,3,5-Trinitrobenzene	16.00000	22.22918	0.010	-38.9	50.0
108 Phenacetin	0.45451	0.47615	0.010	4.8	50.0

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:48
 Lab File ID: 7AM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
110 Dimethoate	0.45145	0.42902	0.010	-5.0	50.0
112 Pentachloronitrobenzene	0.13035	0.16612	0.010	27.4	50.0
113 4-Aminobiphenyl	16.00000	13.27684	0.010	17.0	50.0
114 Pronamide	0.37320	0.42942	0.010	15.1	50.0
117 Dinoseb	16.00000	17.83823	0.010	-11.5	50.0
118 Disulfoton	0.67339	0.61560	0.010	-8.6	50.0
121 4-Nitroquinoline 1-oxide	16.00000	13.67266	0.010	14.5	50.0
122 Methapyrilene	0.22378	0.20885	0.010	-6.7	50.0
126 Aramite 1	0.11097	0.13074	0.010	17.8	50.0
M 191 Aramite, Total	0.76835	0.77683	0.010	1.1	50.0
127 Aramite 2	0.15058	0.17182	0.010	14.1	50.0
128 p-Dimethylamino azobenzene	0.34723	0.38190	0.010	10.0	50.0
129 p-Chlorobenzilate	0.69526	0.78795	0.010	13.3	50.0
130 Pamphur	16.00000	14.92656	0.010	6.7	50.0
132 3,3'-Dimethylbenzidine	0.51429	0.54796	0.010	6.5	50.0
134 2-Acetylaminofluorene	0.47483	0.46035	0.010	-3.0	50.0
143 7,12-dimethylbenz[a]anthrac	16.00000	14.69012	0.010	8.2	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.85365	0.67609	0.010	-20.8	50.0
193 3-Methylphenol	16.00000	12.55433	0.010	21.5	50.0
69 1,4-Dinitrobenzene	16.00000	18.02037	0.010	-12.6	50.0
77 m-Dinitrobenzene	16.00000	16.63839	0.010	-4.0	50.0
198 1,4-Dioxane	0.76541	0.75966	0.010	-0.8	50.0
88 2,3,4,6-Tetrachlorophenol	0.31379	0.30116	0.010	-4.0	50.0
97 5-Nitro-o-toluidine	0.28591	0.30019	0.010	5.0	50.0
199 3-Picoline	2.14415	1.46980	0.010	-31.5	50.0
200 N,N-Dimethylacetamide	0.76311	0.54015	0.010	-29.2	50.0
213 2-Chloroacetophenone	0.90531	0.81130	0.010	-10.4	50.0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP032

Matrix: (soil/water) WG

Lab Sample ID: A0L150102 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/14/00

Work Order: DRGAK1AJ

Date Extracted: 12/15/00

Dilution factor: 1

Date Analyzed: 01/03/01

Moisture %:

QC Batch: 0350314

Client Sample Id: MPT-47-GW-DPW19

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	5.2		J
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	2.2		J
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

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Semivolatile REPORT SW-846 Method 8270
 Data file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\DRGAK1AJ.D
 Lab Smp Id: DRGAK1AJ Client Smp ID: MPT-47-GW-DPW19
 Inj Date : 03-JAN-2001 00:30
 Operator : 001710 Inst ID: a4hp7.i
 Smp Info : drgak1aj,10102a.b,8270c,4-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Meth Date : 03-Jan-2001 10:55 gruberj Quant Type: ISTD
 Cal Date : 16-NOV-2000 11:00 Cal File: 7AMH1116.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV02

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.607	6.603	(1.000)	169381	8.00000	(0)
* 2 Naphthalene-d8	136	8.926	8.926	(1.000)	622307	8.00000	
* 3 Acenaphthene-d10	164	12.377	12.377	(1.000)	393157	8.00000	
* 4 Phenanthrene-d10	188	15.331	15.326	(1.000)	668994	8.00000	
* 5 Chrysene-d12	240	20.641	20.647	(1.000)	488524	8.00000	
* 6 Perylene-d12	264	23.307	23.302	(1.000)	380201	8.00000	
7 N-Nitrosomorpholine	56						Compound Not Detected.
8 Ethyl methanesulfonate	79						Compound Not Detected.
9 Pyridine	79						Compound Not Detected.
10 N-Nitrosodimethylamine	74						Compound Not Detected.
11 Ethyl methacrylate	69						Compound Not Detected.
12 3-Chloropropionitrile	54						Compound Not Detected.
13 Malononitrile	66						Compound Not Detected.
14 2-Picoline	93						Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
15 N-Nitrosomethylethylamine	88				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
18 1,3-Dichloro-2-propanol	79				Compound Not Detected.		
19 N-Nitrosodiethylamine	102				Compound Not Detected.		
21 Aniline	93				Compound Not Detected.		
22 Phenol	94				Compound Not Detected.		
23 bis(2-Chloroethyl)ether	93				Compound Not Detected.		
24 2-Chlorophenol	128				Compound Not Detected.		
25 Pentachloroethane	167				Compound Not Detected.		
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 bis(2-Chloroisopropyl)ether	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
193 3-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
36 N-Nitrosopyrrolidine	100				Compound Not Detected.		
37 Acetophenone	105				Compound Not Detected.		
39 o-Toluidine	106				Compound Not Detected.		
40 N-Nitrosopiperidine	114				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
45 O,O,O-Triethyl phosphorothioa	198				Compound Not Detected.		
46 2,4-Toluenediamine	121				Compound Not Detected.		
47 1,3,5-Trichlorobenzene	180				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128	8.963	8.964	(1.004)	80624	0.89829	2.2457
52 4-Chloroaniline	127				Compound Not Detected.		
53 a,a-Dimethyl-phenethylamine	58				Compound Not Detected.		
54 2,6-Dichlorophenol	162				Compound Not Detected.		
55 Hexachloropropene	213				Compound Not Detected.		
56 Hexachlorobutadiene	225				Compound Not Detected.		
57 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
58 N-Nitrosodi-n-butylamine	84				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
60 p-Phenylene diamine	108				Compound Not Detected.		
61 Safrole	162				Compound Not Detected.		
62 2-Methylnaphthalene	142	10.315	10.315	(1.156)	120195	2.08658	5.2164
63 1-Methylnaphthalene	142	10.507	10.508	(1.177)	135519	2.32274	5.8068
64 Hexachlorocyclopentadiene	237				Compound Not Detected.		

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:13
 Lab File ID: 7SM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
59 4-Chloro-3-Methylphenol	0.41286	0.43527	0.010	5.4	20.0
62 2-Methylnaphthalene	0.74052	0.74718	0.010	0.9	50.0
63 1-Methylnaphthalene	0.75004	0.76028	0.010	1.4	50.0
64 Hexachlorocyclopentadiene	16.00000	15.69741	0.050	1.9	50.0
66 2,4,6-Trichlorophenol	0.38782	0.38135	0.010	-1.7	20.0
67 2,4,5-Trichlorophenol	0.37768	0.37698	0.010	-0.2	50.0
211 1,1'-Biphenyl	1.64790	1.63624	0.010	-0.7	50.0
68 1,2,3,5-Tetrachlorobenzene	0.69984	0.68661	0.010	-1.9	50.0
70 2-Chloronaphthalene	1.17679	1.16387	0.010	-1.1	50.0
73 2-Nitroaniline	0.56760	0.58698	0.010	3.4	50.0
74 1,2,3,4-Tetrachlorobenzene	0.63575	0.62871	0.010	-1.1	50.0
76 Dimethylphthalate	1.39822	1.45560	0.010	4.1	50.0
78 2,6-Dinitrotoluene	0.29293	0.30367	0.010	3.7	50.0
79 Acenaphthylene	1.90511	1.89905	0.010	-0.3	50.0
80 1,2-Dinitrobenzene	0.13385	0.14492	0.010	8.3	50.0
81 3-Nitroaniline	0.24110	0.26315	0.010	9.1	50.0
82 Acenaphthene	1.18998	1.18176	0.010	-0.7	20.0
83 2,4-Dinitrophenol	16.00000	15.77996	0.050	1.4	50.0
85 4-Nitrophenol	0.26895	0.22002	0.050	-18.2	50.0
86 Dibenzofuran	1.59244	1.63367	0.010	2.6	50.0
87 2,4-Dinitrotoluene	0.38157	0.39808	0.010	4.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.34574	0.35220	0.010	1.9	50.0
93 Diethylphthalate	1.39068	1.41091	0.010	1.5	50.0
94 Fluorene	1.33382	1.38571	0.010	3.9	50.0
95 4-Chlorophenyl-phenylether	0.72360	0.75410	0.010	4.2	50.0
96 4-Nitroaniline	16.00000	16.37429	0.010	-2.3	50.0
98 4,6-Dinitro-2-methylphenol	16.00000	16.13689	0.010	-0.9	50.0
99 N-Nitrosodiphenylamine	0.55661	0.55554	0.010	-0.2	20.0
100 1,2-Diphenylhydrazine	1.49074	1.49346	0.010	0.2	50.0
106 4-Bromophenyl-phenylether	0.25339	0.25365	0.010	0.1	50.0
107 Hexachlorobenzene	0.27557	0.25418	0.010	-7.8	50.0
212 Atrazine	0.23688	0.24596	0.010	3.8	50.0
111 Pentachlorophenol	16.00000	15.06050	0.010	5.9	20.0
115 Phenanthrene	1.26975	1.26415	0.010	-0.4	50.0
116 Anthracene	1.17340	1.17749	0.010	0.3	50.0

CLIENT		JOB NUMBER	
SUBJECT Semivolatile Check Calculation			
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE 01/26/01

2-Methylnaphthalene

$$C = \frac{(\text{Area 2-methylnaphthalene})(I_s)(V_e)(Df)}{(\text{Area Is})(RRF)(V_o)(V_i)}$$

$$C = \frac{(120195)(8.75)(500 \mu\text{L})(1)}{(622307)(0.74052)(1000 \text{ mL})(2 \mu\text{L})} = 5.216 \frac{\text{ng}}{\text{mL}} = 5.2 \frac{\mu\text{g}}{\text{L}}$$

TO: T. HANSEN – PAGE 2
DATE: FEBRUARY 21, 2001

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Aluminum	42.6 µg/L	213 µg/L
Barium	1.0 µg/L	5.0 µg/L
Beryllium	0.7 µg/L	3.5 µg/L
Calcium	59.2 µg/L	296 µg/L
Iron	35.7 µg/L	178.5 µg/L
Magnesium	66.4 µg/L	332 µg/L
Manganese	1.4 µg/L	7.0 µg/L
Mercury	0.1 µg/L	0.5 µg/L
Thallium ⁽¹⁾	8.7 µg/L	43.5 µg/L
Zinc ⁽¹⁾	2.9 µg/L	14.5 µg/L

⁽¹⁾ Maximum concentration present in a laboratory preparation blank.

An action level of 5X the maximum concentration were used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination. Positive results less than the blank action levels for barium, beryllium, iron, mercury, thallium and zinc were qualified, "U", as a result of blank contamination and should not be considered present. No qualification action was required for the remaining analytes since all results were either nondetected or greater than the action level.

Notes

The equipment blank was not used to establish blank action levels and was not qualified due to laboratory blank contamination.

The Matrix Spike Duplicate (MSD) Percent Recovery (%R) was < 75% quality control limit and the MS/MSD RPD was >20% for cyanide. The matrix spike and matrix spike for cyanide were performed on a sample that was not from this SDG, therefore, no validation action was taken.

Laboratory duplicate imprecision (RPD>20%) from the percent difference between the matrix spike (MS) and matrix spike duplicate (MSD) was noted for calcium. Validation action was not taken based on the MS/MSD comparison.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

Other Factors Affecting Data Quality: None.

TO: T. HANSEN – PAGE 3
DATE: FEBRUARY 21, 2001

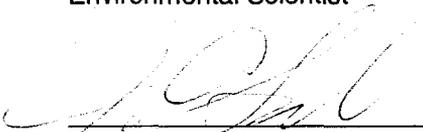
The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Erin M. Faust
Environmental Scientist



TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	A0L150200001	A0L150200003	A0L150200002	A0L160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	18.8	U		18.8	U		18.8	U		18.8	U	
ANTIMONY	4.3	U		4.3	U		4.3	U		4.3	U	
ARSENIC	3.6	U		3.6	U		3.6	U		4.7		
BARIUM	0.90			13.8			11.0			10.7		
BERYLLIUM	0.20	U		0.20	U		0.20	U		0.25	U	A
CADMIUM	0.40	U		0.40	U		0.40	U		0.40	U	
CALCIUM	239			100000			98300			121000		
CHROMIUM	2.0	U		2.0	U		2.0	U		2.0	U	
COBALT	2.2	U		2.2	U		2.2	U		2.2	U	
COPPER	1.9	U		1.9	U		1.9	U		1.9	U	
IRON	27.3	U		957			424			588		
LEAD	1.3	U		1.3	U		1.3	U		1.3	U	
MAGNESIUM	16.0			16000			20800			4160		
MANGANESE	1.5			164			70.8			52.7		
MERCURY	0.10	U		0.11	U	A	0.10	U		1.1		
MOLYBDENUM	1.9	U		6.4			7.5			12.6		
NICKEL	1.9	U		1.9	U		1.9	U		2.0		
POTASSIUM	52.4	U		8070			4250			5780		
SELENIUM	4.4			4.3	U		4.3	U		4.3	U	
SILVER	3.1	U		3.1	U		3.1	U		3.1	U	
SODIUM	439	U		17900			20900			11200		
THALLIUM	8.7			9.9	U	A	9.5	U	A	9.5	U	A
TIN	2.8	U		2.8	U		2.8	U		2.8	U	
VANADIUM	1.4	U		1.4	U		1.8			2.6		
ZINC	20.0			1.4	U	A	1.7	U	A	2.4	U	A

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	A0L160126003	A0L160126004	A0L150200004	A0L160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE									
INORGANICS												
ALUMINUM	18.8	U										
ANTIMONY	4.3	U										
ARSENIC	3.6	U										
BARIUM	2.0	U	A	11.0			14.7			20.6		
BERYLLIUM	0.20	U										
CADMIUM	0.40	U										
CALCIUM	24600			120000			96400			155000		
CHROMIUM	2.0	U										
COBALT	2.2	U										
COPPER	1.9	U										
IRON	74.1	U	A	1450			812			4010		
LEAD	1.3	U										
MAGNESIUM	3660			44100			16400			16700		
MANGANESE	21.9			171			163			60.7		
MERCURY	0.28	U	A	0.13	U	A	0.10	U		0.10	U	
MOLYBDENUM	1.9	U		8.4			7.6			1.9	U	
NICKEL	1.9	U										
POTASSIUM	2840			33400			8360			5790		
SELENIUM	4.3	U		4.3	U		5.5			4.3	U	
SILVER	3.1	U										
SODIUM	18200			174000			18700			15500		
THALLIUM	6.5	U	A	9.5	U	A	5.3	U		10.1	U	A
TIN	2.8	U										
VANADIUM	1.4	U										
ZINC	2.0	U	A	2.4	U	A	2.1	U	A	3.1	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP033

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DU02	MPT-47-GW-DPW06
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/14/00
LABORATORY ID:	A0L150200001	A0L150200003	A0L150200004	A0L150200002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	22.4			10	U		10	U		10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW09	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/15/00	12/15/00
LABORATORY ID:	A0L160126002	A0L160126003	A0L160126004	A0L160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	10	U										

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRHED Client ID: MPT-47-EB01
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	21:06
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	21:06
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	21:06
Barium	493.41	0.40	200	0.90	B	1	ICPST	12/28/00	21:06
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	21:06
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	21:06
Calcium	317.93	8.2	5000	239	BN*	1	ICPST	12/28/00	21:06
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	21:06
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	21:06
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	21:06
Iron	271.44	27.3	100	27.3	U	1	ICPST	12/28/00	21:06
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	21:06
Magnesium	279.08	13.4	5000	16.0	B	1	ICPST	12/28/00	21:06
Manganese	257.61	0.40	15.0	1.5	B	1	ICPST	12/28/00	21:06
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/28/00	14:09
Molybdenum	202.03	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:06
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:06
Potassium	766.49	52.4	5000	52.4	U	1	ICPST	12/28/00	21:06
Selenium	196.03	4.3	5.0	4.4	B	1	ICPST	12/28/00	21:06
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	21:06
Sodium	330.23	439	5000	439	U	1	ICPST	12/28/00	21:06
Thallium	190.86	5.3	10.0	8.7	B	1	ICPST	12/28/00	21:06
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	21:06
Vanadium	292.40	1.4	7.0	1.4	U	1	ICPST	12/28/00	21:06
Zinc	213.86	0.60	20.0	20.0	B	1	ICPST	12/28/00	21:06

Comments: Lot #: A0L150200 Sample #: 1

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRHE4 Client ID: MPT-47-GW-DPW05
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	21:21
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	21:21
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	21:21
Barium	493.41	0.40	200	13.8	B	1	ICPST	12/28/00	21:21
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	21:21
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	21:21
Calcium	317.93	8.2	5000	100000	N*	1	ICPST	12/28/00	21:21
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	21:21
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	21:21
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	21:21
Iron	271.44	27.3	100	957		1	ICPST	12/28/00	21:21
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	21:21
Magnesium	279.08	13.4	5000	16000		1	ICPST	12/28/00	21:21
Manganese	257.61	0.40	15.0	164		1	ICPST	12/28/00	21:21
Mercury	253.7	0.10	0.20	0.11	B	1	CVAA	12/28/00	14:14
Molybdenum	202.03	1.9	40.0	6.4	B	1	ICPST	12/28/00	21:21
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:21
Potassium	766.49	52.4	5000	8070		1	ICPST	12/28/00	21:21
Selenium	196.03	4.3	5.0	4.3	U	1	ICPST	12/28/00	21:21
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	21:21
Sodium	330.23	439	5000	17900		1	ICPST	12/28/00	21:21
Thallium	190.86	5.3	10.0	9.9	B	1	ICPST	12/28/00	21:21
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	21:21
Vanadium	292.40	1.4	7.0	1.4	U	1	ICPST	12/28/00	21:21
Zinc	213.86	0.60	20.0	1.4	B	1	ICPST	12/28/00	21:21

Comments: Lot #: A0L150200 Sample #: 3

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRHEL Client ID: MPT-47-GW-DPW06
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	21:16
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	21:16
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	21:16
Barium	493.41	0.40	200	11.0	B	1	ICPST	12/28/00	21:16
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	21:16
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	21:16
Calcium	317.93	8.2	5000	98300	N*	1	ICPST	12/28/00	21:16
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	21:16
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	21:16
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	21:16
Iron	271.44	27.3	100	424		1	ICPST	12/28/00	21:16
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	21:16
Magnesium	279.08	13.4	5000	20800		1	ICPST	12/28/00	21:16
Manganese	257.61	0.40	15.0	70.8		1	ICPST	12/28/00	21:16
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/28/00	14:13
Molybdenum	202.03	1.9	40.0	7.5	B	1	ICPST	12/28/00	21:16
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:16
Potassium	766.49	52.4	5000	4250	B	1	ICPST	12/28/00	21:16
Selenium	196.03	4.3	5.0	4.3	U	1	ICPST	12/28/00	21:16
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	21:16
Sodium	330.23	439	5000	20900		1	ICPST	12/28/00	21:16
Thallium	190.86	5.3	10.0	9.5	B	1	ICPST	12/28/00	21:16
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	21:16
Vanadium	292.40	1.4	7.0	1.8	B	1	ICPST	12/28/00	21:16
Zinc	213.86	0.60	20.0	1.7	B	1	ICPST	12/28/00	21:16

Comments: Lot #: A0L150200 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRJ7P Client ID: MPT-47-GW-DPW09
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	21:59
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	21:59
Arsenic	189.04	3.6	10.0	4.7	B	1	ICPST	12/28/00	21:59
Barium	493.41	0.40	200	10.7	B	1	ICPST	12/28/00	21:59
Beryllium	313.04	0.20	5.0	0.25	B	1	ICPST	12/28/00	21:59
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	21:59
Calcium	317.93	8.2	5000	121000	N*	1	ICPST	12/28/00	21:59
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	21:59
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	21:59
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	21:59
Iron	271.44	27.3	100	588		1	ICPST	12/28/00	21:59
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	21:59
Magnesium	279.08	13.4	5000	4160	B	1	ICPST	12/28/00	21:59
Manganese	257.61	0.40	15.0	52.7		1	ICPST	12/28/00	21:59
Mercury	253.7	0.10	0.20	1.1		1	CVAA	12/28/00	14:21
Molybdenum	202.03	1.9	40.0	12.6	B	1	ICPST	12/28/00	21:59
Nickel	231.60	1.9	40.0	2.0	B	1	ICPST	12/28/00	21:59
Potassium	766.49	52.4	5000	5780		1	ICPST	12/28/00	21:59
Selenium	196.03	4.3	5.0	4.3	U	1	ICPST	12/28/00	21:59
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	21:59
Sodium	330.23	439	5000	11200		1	ICPST	12/28/00	21:59
Thallium	190.86	5.3	10.0	9.5	B	1	ICPST	12/28/00	21:59
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	21:59
Vanadium	292.40	1.4	7.0	2.6	B	1	ICPST	12/28/00	21:59
Zinc	213.86	0.60	20.0	2.4	B	1	ICPST	12/28/00	21:59

Comments: Lot #: A0L160126 Sample #: 2

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRJ7R Client ID: MPT-47-GW-DPW13
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	22:04
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	22:04
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	22:04
Barium	493.41	0.40	200	2.0	B	1	ICPST	12/28/00	22:04
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	22:04
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	22:04
Calcium	317.93	8.2	5000	24600	N*	1	ICPST	12/28/00	22:04
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	22:04
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	22:04
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	22:04
Iron	271.44	27.3	100	74.1	B	1	ICPST	12/28/00	22:04
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	22:04
Magnesium	279.08	13.4	5000	3660	B	1	ICPST	12/28/00	22:04
Manganese	257.61	0.40	15.0	21.9		1	ICPST	12/28/00	22:04
Mercury	253.7	0.10	0.20	0.28		1	CVAA	12/28/00	14:22
Molybdenum	202.03	1.9	40.0	1.9	U	1	ICPST	12/28/00	22:04
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	22:04
Potassium	766.49	52.4	5000	2840	B	1	ICPST	12/28/00	22:04
Selenium	196.03	4.3	5.0	4.3	U	1	ICPST	12/28/00	22:04
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	22:04
Sodium	330.23	439	5000	18200		1	ICPST	12/28/00	22:04
Thallium	190.86	5.3	10.0	6.5	B	1	ICPST	12/29/00	0:38
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	22:04
Vanadium	292.40	1.4	7.0	1.4	U	1	ICPST	12/28/00	22:04
Zinc	213.86	0.60	20.0	2.0	B	1	ICPST	12/28/00	22:04

Comments: Lot #: A0L160126 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRJ7T Client ID: MPT-47-GW-DPW14
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	22:09
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	22:09
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	22:09
Barium	493.41	0.40	200	11.0	B	1	ICPST	12/28/00	22:09
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	22:09
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	22:09
Calcium	317.93	8.2	5000	120000	N*	1	ICPST	12/28/00	22:09
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	22:09
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	22:09
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	22:09
Iron	271.44	27.3	100	1450		1	ICPST	12/28/00	22:09
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	22:09
Magnesium	279.08	13.4	5000	44100		1	ICPST	12/28/00	22:09
Manganese	257.61	0.40	15.0	171		1	ICPST	12/28/00	22:09
Mercury	253.7	0.10	0.20	0.13	B	1	CVAA	12/28/00	14:23
Molybdenum	202.03	1.9	40.0	8.4	B	1	ICPST	12/28/00	22:09
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	22:09
Potassium	766.49	52.4	5000	33400		1	ICPST	12/28/00	22:09
Selenium	196.03	4.3	5.0	4.3	U	1	ICPST	12/28/00	22:09
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	22:09
Sodium	330.23	439	5000	174000		1	ICPST	12/28/00	22:09
Thallium	190.86	5.3	10.0	9.5	B	1	ICPST	12/29/00	0:43
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	22:09
Vanadium	292.40	1.4	7.0	1.4	U	1	ICPST	12/28/00	22:09
Zinc	213.86	0.60	20.0	2.4	B	1	ICPST	12/28/00	22:09

Comments: Lot #: A0L160126 Sample #: 4

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRHFD Client ID: MPT-47-GW-DUO2
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminium	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	21:36
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	21:36
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	21:36
Barium	493.41	0.40	200	14.7	B	1	ICPST	12/28/00	21:36
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	21:36
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	21:36
Calcium	317.93	8.2	5000	96400	N*	1	ICPST	12/28/00	21:36
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	21:36
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	21:36
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	21:36
Iron	271.44	27.3	100	812		1	ICPST	12/28/00	21:36
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	21:36
Magnesium	279.08	13.4	5000	16400		1	ICPST	12/28/00	21:36
Manganese	257.61	0.40	15.0	163		1	ICPST	12/28/00	21:36
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/28/00	14:18
Molybdenum	202.03	1.9	40.0	7.6	B	1	ICPST	12/28/00	21:36
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:36
Potassium	766.49	52.4	5000	8360		1	ICPST	12/28/00	21:36
Selenium	196.03	4.3	5.0	5.5		1	ICPST	12/28/00	21:36
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	21:36
Sodium	330.23	439	5000	18700		1	ICPST	12/28/00	21:36
Thallium	190.86	5.3	10.0	5.3	U	1	ICPST	12/28/00	21:36
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	21:36
Vanadium	292.40	1.4	7.0	1.4	U	1	ICPST	12/28/00	21:36
Zinc	213.86	0.60	20.0	2.1	B	1	ICPST	12/28/00	21:36

Comments: Lot #: A0L150200 Sample #: 4

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DRJ67 Client ID: MPT-53-GW-DPW02
 Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	18.8	200	18.8	U	1	ICPST	12/28/00	21:41
Antimony	206.84	4.3	10.0	4.3	U	1	ICPST	12/28/00	21:41
Arsenic	189.04	3.6	10.0	3.6	U	1	ICPST	12/28/00	21:41
Barium	493.41	0.40	200	20.6	B	1	ICPST	12/28/00	21:41
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	12/28/00	21:41
Cadmium	226.50	0.40	2.0	0.40	U	1	ICPST	12/28/00	21:41
Calcium	317.93	8.2	5000	155000	N*	1	ICPST	12/28/00	21:41
Chromium	267.72	2.0	5.0	2.0	U	1	ICPST	12/28/00	21:41
Cobalt	228.62	2.2	7.0	2.2	U	1	ICPST	12/28/00	21:41
Copper	324.75	1.9	25.0	1.9	U	1	ICPST	12/28/00	21:41
Iron	271.44	27.3	100	4010		1	ICPST	12/28/00	21:41
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	12/28/00	21:41
Magnesium	279.08	13.4	5000	16700		1	ICPST	12/28/00	21:41
Manganese	257.61	0.40	15.0	60.7		1	ICPST	12/28/00	21:41
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/28/00	14:19
Molybdenum	202.03	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:41
Nickel	231.60	1.9	40.0	1.9	U	1	ICPST	12/28/00	21:41
Potassium	766.49	52.4	5000	5790		1	ICPST	12/28/00	21:41
Selenium	196.03	4.3	5.0	4.3	U	1	ICPST	12/28/00	21:41
Silver	328.07	3.1	5.0	3.1	U	1	ICPST	12/28/00	21:41
Sodium	330.23	439	5000	15500		1	ICPST	12/28/00	21:41
Thallium	190.86	5.3	10.0	10.1		1	ICPST	12/29/00	0:33
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	12/28/00	21:41
Vanadium	292.40	1.4	7.0	1.4	U	1	ICPST	12/28/00	21:41
Zinc	213.86	0.60	20.0	3.1	B	1	ICPST	12/28/00	21:41

Comments: Lot #: A0L160126 Sample #: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-KB01

General Chemistry

Lot-Sample #....: AOL150200-001 Work Order #....: DRHED Matrix.....: WG
Date Sampled....: 12/14/00 10:35 Date Received...: 12/15/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	22.4	10.0	ug/L	SW846 9012A	12/26-12/27/00	0361322
	Dilution Factor: 1		MDL.....: 3.3			

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW06

General Chemistry

Lot-Sample #....: AOL150200-002 Work Order #....: DRHEL Matrix.....: WG
Date Sampled....: 12/14/00 11:40 Date Received...: 12/15/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/26-12/27/00	0361322
		Dilution Factor: 1		MDL.....: 3.3		

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW05

General Chemistry

Lot-Sample #....: AOL150200-003 Work Order #....: DRHE4 Matrix.....: WG
Date Sampled....: 12/14/00 11:45 Date Received...: 12/15/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/26-12/27/00	0361322
	Dilution Factor: 1		MDL.....: 3.3			

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DUO2

General Chemistry

Lot-Sample #....: AOL150200-004
Date Sampled....: 12/14/00

Work Order #....: DRHFD
Date Received...: 12/15/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/26-12/27/00	0361322
		Dilution Factor: 1		MDL.....: 3.3		

TETRA TECH NUS, INC.

Client Sample ID: MPT-53-GW-DPW02

General Chemistry

Lot-Sample #....: AOL160126-001 Work Order #....: DRJ67 Matrix.....: WG
Date Sampled....: 12/15/00 09:15 Date Received...: 12/16/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/27/00	0363111
	Dilution Factor: 1		MDL.....: 3.3			

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW09

General Chemistry

Lot-Sample #....: A0L160126-002 Work Order #....: DRJ7P Matrix.....: WG
Date Sampled....: 12/15/00 10:25 Date Received...: 12/16/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/27/00	0363111
	Dilution Factor: 1		MDL.....: 3.3			

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW13

General Chemistry

Lot-Sample #....: AOL160126-003 Work Order #....: DRJ7R Matrix.....: WG
Date Sampled....: 12/15/00 11:10 Date Received...: 12/16/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/27/00	0363111
	Dilution Factor: 1		MDL.....: 3.3			

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-GW-DPW14

General Chemistry

Lot-Sample #...: AOL160126-004 Work Order #...: DRJ7T Matrix.....: WG
Date Sampled...: 12/15/00 11:45 Date Received...: 12/16/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/27/00	0363111
		Dilution Factor: 1		MDL.....: 3.3		

APPENDIX C
SUPPORT DOCUMENTATION



PROJECT NO: NO123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen	LABORATORY NAME AND CONTACT: Quanterra - STL Denise Pohl
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

TYPE OF ANALYSIS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED
	5035/8260-VOC	HCl
8270 SVOC	-	
6010 Metals	HNO3	
9010 Tins		
7470-Cyanide		
7480-Mercury		
7480-Molybdenum		

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS							COMMENTS
12/14	1035	MPT-47-EB01	GW	G	7	X	X	X	X	X	X	X	Cool to 4°C
12/14	1140	MPT-47-GW-DAN06	GW		7	X	X	X	X	X	X	X	
12/14	1145	MPT-47-GW-DAN05	GW		7	X	X	X	X	X	X	X	
12/14	0000	MPT-47-GW-DU02	GW	Y	7	X	X	X	X	X	X	X	
		TB1214001	W		2	X							
12/14	1145	MPT-47-GW-MSMSD01	GW	Y	14	X	X	X	X	X	X	X	

1. RELINQUISHED BY	DATE 12-14-00	TIME 7:00	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE 12/15/00	TIME 9:45
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

STL North Canton



PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Quanterra/STL Denise Pohl					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400				ADDRESS 4101 Stuffer Dr NW							
		CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE N. Canton, OH							
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED					
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				TYPE OF ANALYSIS									
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	5035/8260 - VOC	HCl	8270 - SVOC	Metals	HNO3	7010 - Cyanide	7480 - Molybdenum	COMMENTS
12/15	0915	MPT-53-GW-DPW02	GW	G	7	X	X	X	X	X	X	X	Cool to 4°C
12/15	1025	MPT-47-GW-DPW09	|	|	7	X	X	X	X	X	X	X	Samples Analyzed
12/15	1110	MPT-47-GW-DPW13	|	|	7	X	X	X	X	X	X	X	for App IX and
12/15	1145	MPT-47-GW-DPW14	|	|	7	X	X	X	X	X	X	X	CLPTCL
		TB1215001			2	X							parameters
1. RELINQUISHED BY		DATE 12/15/00	TIME 1700	1. RECEIVED BY		DATE 12/16/00	TIME 1015	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY	
2. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME		
3. RELINQUISHED BY		DATE	TIME			DATE	TIME			DATE	TIME		
COMMENTS													

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

FORM NO. TINUS-001

3/99

MP033

HOLDING TIME

01/26/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	OS	12/14/00	12/16/00	12/22/00	2	6	8
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	OS	12/14/00	12/16/00	12/22/00	2	6	8
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	OS	12/14/00	12/16/00	12/22/00	2	6	8
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	OS	12/14/00	12/16/00	12/26/00	2	10	12
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	TB1214001	A0L150200005	TRIP BLANK	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	TB1215001	A0L160126005	TRIP BLANK	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5

ANALYTICAL METHODS SUMMARY

A01150200

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

ANALYTICAL METHODS SUMMARY

A0L160126

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0L150200

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DRHED	001	MPT-47-EB01	12/14/00	10:35
DRHEL	002	MPT-47-GW-DPW06	12/14/00	11:40
DRHE4	003	MPT-47-GW-DPW05	12/14/00	11:45
DRHFD	004	MPT-47-GW-DUO2	12/14/00	
DRHFG	005	TB1214001	12/14/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

AOL160126

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DRJ67	001	MPT-53-GW-DPW02	12/15/00	09:15
DRJ7P	002	MPT-47-GW-DPW09	12/15/00	10:25
DRJ7R	003	MPT-47-GW-DPW13	12/15/00	11:10
DRJ7T	004	MPT-47-GW-DPW14	12/15/00	11:45
DRJ7V	005	TB1215001	12/15/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10103a.prm

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 1/3/01 6:54 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11228a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 12/28/00 9:31 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i61228a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 12/28/00 10:13 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	18.8	U								
Antimony	206.838	10	4.3	U								
Arsenic	189.042	10	3.6	U								
Barium	493.409	200	0.4	U								
Beryllium	313.042	5	0.4	B								
Cadmium	226.502	2	0.4	U								
Calcium	317.933	5000	16.9	B								
Chromium	267.716	5	2.0	U								
Cobalt	228.616	7	2.2	U								
Copper	324.753	25	1.9	U								
Iron	271.441	100	27.3	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	13.4	U								
Manganese	257.61	15	0.4	U								
Molybdenum	202.03	40	1.9	U								
Nickel	231.604	40	1.9	U								
Potassium	766.491	5000	52.4	U								
Selenium	196.026	5	4.3	U								
Silver	328.068	5	3.1	U								
Sodium	330.232	5000	439.0	U								
Thallium	190.864	10	7.4	B								
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	1.4	U								
Zinc	213.856	20	0.6	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10103a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 1/3/01 6:57 AM		CCB 1/3/01 7:14 AM		Found	O	Found	O	Found	O
			Found	O	Found	O							Found	O
Mercury	253.7	0.2	0.1	U	0.1	U						

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11228a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/28/00 9:35 AM		CCB 12/28/00 9:49 AM		CCB 12/28/00 10:04 AM		CCB 12/28/00 10:19 AM		CCB 12/28/00 10:35 AM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11228a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/28/00 10:40 AM	Ck1CCB 12/28/00 11:01 AM	Ck1CCB 12/28/00 11:16 AM	Ck1CCB 12/28/00 11:30 AM	Ck1CCB 12/28/00 11:45 AM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11228a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/28/00 12:01 PM	Ck1CCB 12/28/00 12:17 PM	Ck1CCB 12/28/00 12:30 PM	Ck1CCB 12/28/00 1:56 PM	Ck1CCB 12/28/00 2:11 PM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 B	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVA

Units: ug/L

Chart Number: hg11228a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/28/00 2:26 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	-0.1	B								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i61228a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/28/00 10:41 AM		CCB 12/28/00 12:26 PM		CCB 12/28/00 1:28 PM		CCB 12/28/00 2:33 PM		CCB 12/28/00 3:37 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	42.6	B	18.8	U	-27.0	B	-41.0	B	-53.0	B
Antimony	206.838	10	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
Barium	493.409	200	0.4	B	0.7	B	0.8	B	0.6	B	0.6	B
Beryllium	313.042	5	0.5	B	0.6	B	0.5	B	0.5	B	0.5	B
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Calcium	317.933	5000	50.5	B	10.8	B	59.2	B	22.8	B	25.8	B
Chromium	267.716	5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	228.616	7	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Copper	324.753	25	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Iron	271.441	100	27.3	U	27.3	U	27.3	U	27.3	U	27.3	U
Lead	220.353	3	-1.3	B	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	46.2	B	14.5	B	16.7	B	16.5	B	18.0	B
Manganese	257.61	15	0.4	U	0.5	B	0.6	B	0.5	B	0.5	B
Molybdenum	202.03	40	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Nickel	231.604	40	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U	52.4	U	52.4	U
Selenium	196.026	5	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Silver	328.068	5	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U	439.0	U	439.0	U
Thallium	190.864	10	5.3	U	7.1	B	5.3	U	5.7	B	7.8	B
Tin	189.989	50	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
Vanadium	292.402	7	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Zinc	213.856	20	0.6	B	0.8	B	1.5	B	0.8	B	0.8	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i61228a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/28/00 4:40 PM		CCB 12/28/00 5:45 PM		CCB 12/28/00 6:45 PM		CCB 12/28/00 8:51 PM		CCB 12/28/00 9:54 PM	
			Found	O								
Aluminum	308.215	200	-65.0	B	-70.0	B	-83.0	B	18.8	U	-45.0	B
Antimony	206.838	10	4.3	U								
Arsenic	189.042	10	3.6	U								
Barium	493.409	200	0.6	B	0.6	B	0.7	B	0.5	B	0.6	B
Beryllium	313.042	5	0.6	B								
Cadmium	226.502	2	0.4	U								
Calcium	317.933	5000	29.6	B	26.7	B	30.5	B	14.3	B	26.8	B
Chromium	267.716	5	2.0	U								
Cobalt	228.616	7	2.2	U								
Copper	324.753	25	1.9	U								
Iron	271.441	100	27.3	U	35.7	B	27.3	U	27.3	U	27.3	U
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	20.0	B	22.6	B	19.1	B	13.4	U	19.0	B
Manganese	257.61	15	0.7	B	1.1	B	0.8	B	0.5	B	0.6	B
Molybdenum	202.03	40	1.9	U								
Nickel	231.604	40	1.9	U								
Potassium	766.491	5000	52.4	U								
Selenium	196.026	5	4.3	U								
Silver	328.068	5	3.1	U								
Sodium	330.232	5000	439.0	U								
Thallium	190.864	10	7.0	B	5.3	U	7.8	B	5.3	U	5.3	U
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	1.4	U								
Zinc	213.856	20	0.8	B	0.9	B	1.2	B	0.6	B	0.7	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i61228a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/28/00 10:59 PM		CCB 12/29/00 12:05 AM		CCB 12/29/00 1:22 AM		Found	O
			Found	O	Found	O	Found	O		
Aluminum	308.215	200	-52.0	B	-59.0	B	-64.0	B		
Antimony	206.838	10	4.3	U	4.3	U	4.3	U		
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U		
Barium	493.409	200	0.5	B	1.0	B	0.5	B		
Beryllium	313.042	5	0.6	B	0.7	B	0.6	B		
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U		
Calcium	317.933	5000	46.4	B	57.7	B	11.6	B		
Chromium	267.716	5	2.0	U	2.0	U	2.0	U		
Cobalt	228.616	7	2.2	U	2.2	U	2.2	U		
Copper	324.753	25	1.9	U	1.9	U	1.9	U		
Iron	271.441	100	27.3	U	27.3	U	27.3	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	16.6	B	66.4	B	13.4	U		
Manganese	257.61	15	1.4	B	0.6	B	0.5	B		
Molybdenum	202.03	40	1.9	U	1.9	U	1.9	U		
Nickel	231.604	40	1.9	U	1.9	U	1.9	U		
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U		
Selenium	196.026	5	4.3	U	4.3	U	4.3	U		
Silver	328.068	5	3.1	U	3.1	U	3.1	U		
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U		
Thallium	190.864	10	5.3	U	8.3	B	5.3	U		
Tin	189.989	50	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	7	1.4	U	1.4	U	1.4	U		
Zinc	213.856	20	1.4	B	1.0	B	0.8	B		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DR119B

Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	18.8	200	18.8	U	1	ICPST	12/28/00	20:56
Antimony	206.838	4.3	10.0	4.3	U	1	ICPST	12/28/00	20:56
Arsenic	189.042	3.6	10.0	3.6	U	1	ICPST	12/28/00	20:56
Barium	493.409	0.40	200	0.42	B	1	ICPST	12/28/00	20:56
Beryllium	313.042	0.20	5.0	0.39	B	1	ICPST	12/28/00	20:56
Cadmium	226.502	0.40	2.0	0.40	U	1	ICPST	12/28/00	20:56
Calcium	317.933	8.2	5000	14.4	B	1	ICPST	12/28/00	20:56
Chromium	267.716	2.0	5.0	2.0	U	1	ICPST	12/28/00	20:56
Cobalt	228.616	2.2	7.0	2.2	U	1	ICPST	12/28/00	20:56
Copper	324.753	1.9	25.0	1.9	U	1	ICPST	12/28/00	20:56
Iron	271.441	27.3	100	27.3	U	1	ICPST	12/28/00	20:56
Lead	220.353	1.3	3.0	-1.4	B	1	ICPST	12/28/00	20:56
Magnesium	279.078	13.4	5000	13.4	U	1	ICPST	12/28/00	20:56
Manganese	257.61	0.40	15.0	1.4	B	1	ICPST	12/28/00	20:56
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	12/28/00	14:07
Molybdenum	202.03	1.9	40.0	1.9	U	1	ICPST	12/28/00	20:56
Nickel	231.604	1.9	40.0	1.9	U	1	ICPST	12/28/00	20:56
Potassium	766.491	52.4	5000	52.4	U	1	ICPST	12/28/00	20:56
Selenium	196.026	4.3	5.0	4.3	U	1	ICPST	12/28/00	20:56
Silver	328.068	3.1	5.0	3.1	U	1	ICPST	12/28/00	20:56
Sodium	330.232	439	5000	439	U	1	ICPST	12/28/00	20:56
Thallium	190.864	5.3	10.0	8.7	B	1	ICPST	12/28/00	20:56
Tin	189.989	2.8	50.0	2.8	U	1	ICPST	12/28/00	20:56
Vanadium	292.402	1.4	7.0	1.4	U	1	ICPST	12/28/00	20:56
Zinc	213.856	0.60	20.0	2.9	B	1	ICPST	12/28/00	20:56

Comments: Lot #: A0L160126

Version 4.10.5

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOL150200

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	12/26-12/27/00	0361322
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0L160126

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DR2J31AA 10.0	ug/L	MB Lot-Sample #: A0L280000-111 SW846 9012A	12/27/00	0363111
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DRHE4D

Matrix Spike Sample ID: DRHE4S Client ID: MPT-47-GW-DPW05D

Matrix: Water Units: ug/L Prep Date: 12/28/00 Prep Batch: 0362259

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	1880		1930		3.0	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Antimony	206.838	486		501		3.1	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Arsenic	189.042	1890		1960		3.4	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Barium	493.409	1890		1950		3.2	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Beryllium	313.042	48.0		49.7		3.3	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Cadmium	226.502	46.5		48.2		3.6	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Calcium	317.933	139000	N	148000	*	20.3	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Chromium	267.716	188		194		3.4	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Cobalt	228.616	455		470		3.2	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Copper	324.753	241		249		3.4	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Iron	271.441	1910		2010		10.0	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Lead	220.353	461		476		3.2	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Magnesium	279.078	62100		65200		6.4	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Manganese	257.61	632		655		4.8	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Mercury	253.7	1.3		1.2		4.0	1	1	CVAA	12/28/00	14:16	12/28/00	14:17
Molybdenum	202.03	932		961		3.1	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Nickel	231.604	456		472		3.3	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Potassium	766.491	57300		59600		4.6	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Selenium	196.026	1990		2060		3.4	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Silver	328.068	52.7		54.6		3.5	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Sodium	330.232	66500		69500		5.9	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Thallium	190.864	1910		1960		2.8	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Tin	189.989	1880		1950		3.4	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Vanadium	292.402	468		483		3.2	1	1	ICPST	12/28/00	21:26	12/28/00	21:30
Zinc	213.856	492		503		2.3	1	1	ICPST	12/28/00	21:26	12/28/00	21:30

Comments: Lot #: A0L150200 Sample #: 3

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: AOL160126

Matrix.....: WATER

Date Sampled...: 12/14/00 14:57 Date Received...: 12/15/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#:	DRHW41A8-MS/DRHW41A9-MSD	MS Lot-Sample #:	AOL150244-008	
	96	(25 - 134)			SW846 9012A	12/27/00	0363111
	66	(25 - 134)	36	(0-99)	SW846 9012A	12/27/00	0363111
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	10/12/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	18.8	7/14/00
Antimony	206.84	10	4.3	7/14/00
Arsenic	189.04	10	3.6	7/14/00
Barium	493.41	200	0.40	7/14/00
Beryllium	313.04	5	0.20	7/14/00
Cadmium	226.50	2	0.40	7/14/00
Calcium	317.93	5000	8.2	7/14/00
Chromium	267.72	5	2.0	7/14/00
Cobalt	228.62	7	2.2	7/14/00
Copper	324.75	25	1.9	7/14/00
Iron	271.44	100	27.3	7/14/00
Lead	220.35	3	1.3	7/14/00
Magnesium	279.08	5000	13.4	7/14/00
Manganese	257.61	15	0.40	7/14/00
Molybdenum	202.03	40	1.9	7/14/00
Nickel	231.60	40	1.9	7/14/00
Potassium	766.49	5000	52.4	7/14/00
Selenium	196.03	5	4.3	7/14/00
Silver	328.07	5	3.1	7/14/00
Sodium	330.23	5000	439	7/14/00
Thallium	190.86	10	5.3	7/14/00
Tin	189.99	50	2.8	7/14/00
Vanadium	292.40	7	1.4	7/14/00
Zinc	213.86	20	0.60	7/14/00

BATCH NUMBER: 0362259

PREP DATE: 12/28/00
DUE DATE 1/02/01

INITIALS: LPmku

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
✓ A0L150200	DRHED	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
A0L150200	DRHEL	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
A0L150200	DRHE4	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
	DRHE4S		_____g	_____g	_____g	_____g
	DRHE4D		_____g	_____g	_____g	_____g
A0L150200	DRHFD	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/02/01			
A0L160126	DRJ67	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/03/01			
A0L160126	DRJ7P	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/03/01			
A0L160126	DRJ7R	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/03/01			
A0L160126	DRJ7T	01	X _____g	X _____g	_____g	_____g
WATER	TO DUE DATE:		1/03/01			
A0L270000	DR119B	01	X _____g	X _____g	_____g	_____g
WATER	DUE DATE:		0/00/00			
	DR119C		_____g	_____g	_____g	_____g

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH ✓
 MS/MSD AND PDS ON BATCH ✓
 CURVE PREPPED FOR HG ✓
 CORRECT SPIKES ADDED ✓
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG ✓

BATCH NUMBER: 0362259

PREP DATE: 12/28/00

DUE DATE 1/02/01

INITIALS: LPmike

COMMENTS: SDG mP033 ICP are TOTAL REC.
B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY ML

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN MO NA NI PB SB SE SN TL

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD Ag
DRHE4

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2A GFAA HG ODD Ag
DR119

CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD
NUMBERS 0L1277 0L1352 — 0L135 — 0L1326

ICP Analysis Run log 16

: Instrument Upload Run Log - Page 1
: Started Thu Dec 28 23:54:35 2000 by DIPOFIA
: Data File: UPL\$CAN_DATA_ROOT:<TJA>I61228A.ARC;1
:-----

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	28-DEC-2000	09:48:00			I6
2	CALSTD	1	28-DEC-2000	09:53:00			I6
3	CAL	1	28-DEC-2000	09:58:00			I6
4	S100	1	28-DEC-2000	10:01:00			I6
5	ICV	1	28-DEC-2000	10:06:00			I6
6	ICB	1	28-DEC-2000	10:13:00			I6
7	CRI	1	28-DEC-2000	10:18:00			I6
8	ICSA	1	28-DEC-2000	10:23:00			I6
9	ICSAB	1	28-DEC-2000	10:28:00			I6
10	CCV	1	28-DEC-2000	10:34:00			I6
11	CCB	1	28-DEC-2000	10:41:00			I6
12	DRWXAB	1	28-DEC-2000	11:28:00	0357111	A0L220000	I6
13	DRWXAC	1	28-DEC-2000	11:32:00	0357111	A0L220000	I6
14	DRVE4	1	28-DEC-2000	11:38:00	0357111	A0L210200	I6
15	DRVE4S	1	28-DEC-2000	11:43:00	0357111	A0L210200	I6
16	DRVE4D	1	28-DEC-2000	11:48:00	0357111	A0L210200	I6
17	DRVE4F	1	28-DEC-2000	11:54:00	0357111	A0L210200	I6
18	DRVFX	1	28-DEC-2000	11:59:00	0357111	A0L210200	I6
19	DRVFXL	1	28-DEC-2000	12:04:00			I6
20	DRVFXF	1	28-DEC-2000	12:08:00	0357111	A0L210200	I6
21	DRVF5	1	28-DEC-2000	12:13:00	0357111	A0L210200	I6
22	CCV	1	28-DEC-2000	12:20:00			I6
23	CCB	1	28-DEC-2000	12:26:00			I6
24	DRVF5F	1	28-DEC-2000	12:31:00	0357111	A0L210200	I6
25	DRN6TS	2	28-DEC-2000	12:36:00	0356115	0L19244	I6
26	DRNP2	2	28-DEC-2000	12:41:00	0356116	A0L190209	I6
27	DRNP2L	10	28-DEC-2000	12:46:00			I6
28	DRNP9	2	28-DEC-2000	12:50:00	0356116	A0L190209	I6
29	DRNQD	2	28-DEC-2000	12:55:00	0356116	A0L190209	I6
30	DRNQM	2	28-DEC-2000	13:00:00	0356116	A0L190209	I6
31	DRNQ1	2	28-DEC-2000	13:05:00	0356116	A0L190209	I6
32	DRNQ4	2	28-DEC-2000	13:10:00	0356116	A0L190209	I6
33	DRNN6	2	28-DEC-2000	13:14:00	0356117	A0L190209	I6
34	CCV	1	28-DEC-2000	13:21:00			I6
35	CCB	1	28-DEC-2000	13:28:00			I6
36	DRNN9	2	28-DEC-2000	13:32:00	0356117	A0L190209	I6
37	DRNPH	2	28-DEC-2000	13:37:00	0356117	A0L190209	I6
38	DRNPR	2	28-DEC-2000	13:42:00	0356117	A0L190209	I6
39	DRNPX	2	28-DEC-2000	13:47:00	0356117	A0L190209	I6
40	DRNP1	2	28-DEC-2000	13:52:00	0356117	A0L190209	I6
41	DRTDQB	1	28-DEC-2000	13:59:00	0356117	A0L210000	I6
42	DRM32FD	1	28-DEC-2000	14:04:00	0355098	A0L190152	I6
43	DRM4DF	1	28-DEC-2000	14:10:00	0355098	A0L190152	I6
44	DRM4KF	1	28-DEC-2000	14:15:00	0355098	A0L190152	I6

----- (continued) -----

: Instrument Upload Run Log - Page 2 :
: Started Thu Dec 28 23:54:35 2000 by DIPOFIA :
: Data File: UPL\$CAN_DATA_ROOT:<TJA>I61228A.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DRM4PF	1	28-DEC-2000	14:20:00	0355098	AOL190152	I6
46	CCV	1	28-DEC-2000	14:26:00			I6
47	CCB	1	28-DEC-2000	14:33:00			I6
48	DRM4RF	1	28-DEC-2000	14:38:00	0355098	AOL190152	I6
49	DRWXEB	1	28-DEC-2000	14:44:00	0357113	AOL220000	I6
50	DRWXEC	1	28-DEC-2000	14:49:00	0357113	AOL220000	I6
51	DRVP9	1	28-DEC-2000	14:55:00	0357113	AOL210245	I6
52	DRVP9L	1	28-DEC-2000	15:00:00			I6
53	DRVQW	1	28-DEC-2000	15:05:00	0357113	AOL210245	I6
54	DRVQ6	1	28-DEC-2000	15:10:00	0357113	AOL210245	I6
55	DRVRA	1	28-DEC-2000	15:14:00	0357113	AOL210245	I6
56	DRVRO	1	28-DEC-2000	15:19:00	0357113	AOL210245	I6
57	DRVTD	1	28-DEC-2000	15:24:00	0357113	AOL210245	I6
58	CCV	1	28-DEC-2000	15:31:00			I6
59	CCB	1	28-DEC-2000	15:37:00			I6
60	DRVIDS	1	28-DEC-2000	15:42:00	0357113	AOL210245	I6
61	DRVIDD	1	28-DEC-2000	15:47:00	0357113	AOL210245	I6
62	DRVITJ	1	28-DEC-2000	15:53:00	0357113	AOL210245	I6
63	DRVITV	1	28-DEC-2000	15:58:00	0357113	AOL210245	I6
64	DRVIT1	1	28-DEC-2000	16:02:00	0357113	AOL210245	I6
65	DRVIT5	1	28-DEC-2000	16:07:00	0357113	AOL210245	I6
66	DRVVG	1	28-DEC-2000	16:12:00	0357113	AOL210245	I6
67	DRVVN	1	28-DEC-2000	16:17:00	0357113	AOL210245	I6
68	DRVV2	1	28-DEC-2000	16:22:00	0357113	AOL210245	I6
69	DRVV6	1	28-DEC-2000	16:27:00	0357113	AOL210245	I6
70	CCV	1	28-DEC-2000	16:33:00			I6
71	CCB	1	28-DEC-2000	16:40:00			I6
72	DRVV8	1	28-DEC-2000	16:45:00	0357113	AOL210245	I6
73	DRVWA	1	28-DEC-2000	16:49:00	0357113	AOL210245	I6
74	DRVWD	1	28-DEC-2000	16:54:00	0357113	AOL210245	I6
75	DRVWE	1	28-DEC-2000	16:59:00	0357113	AOL210245	I6
76	DRVWF	1	28-DEC-2000	17:04:00	0357113	AOL210245	I6
77	DRVWH	1	28-DEC-2000	17:09:00	0357113	AOL210245	I6
78	DRF80B	1	28-DEC-2000	17:15:00	0350094	AOL150000	I6
79	DRF80C	1	28-DEC-2000	17:20:00	0350094	AOL150000	I6
80	DRDTN	1	28-DEC-2000	17:26:00	0350094	AOL140113	I6
81	DRDTN ¹⁹	1	28-DEC-2000	17:31:00	0350094	AOL140113	I6
82	CCV	1	28-DEC-2000	17:38:00			I6
83	CCB	1	28-DEC-2000	17:45:00			I6
84	DRDTN ⁵	1	28-DEC-2000	17:49:00			I6
85	DRDT6	1	28-DEC-2000	17:55:00	0350094	AOL140113	I6
86	DRDT6L	1	28-DEC-2000	18:00:00			I6
87	DRDT7	1	28-DEC-2000	18:05:00	0350094	AOL140113	I6
88	DRDVA	1	28-DEC-2000	18:10:00	0350094	AOL140113	I6

----- (continued) -----

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:      Instrument Upload                               Run Log - Page 3 :
:      Started Thu Dec 28 23:54:35 2000 by DIPOFIA      :
:      Data File: UPL$CAN_DATA_ROOT:<TJA>I61228A.ARC;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	DRDVC	1	28-DEC-2000	18:15:00	0350094	A0L140113	I6
90	DRDVD	1	28-DEC-2000	18:20:00	0350094	A0L140113	I6
91	DRDVF	1	28-DEC-2000	18:24:00	0350094	A0L140113	I6
92	CRI	1	28-DEC-2000	18:33:00			I6
93	CCV	1	28-DEC-2000	18:38:00			I6
94	CCB	1	28-DEC-2000	18:45:00			I6
95	CCV	1	28-DEC-2000	20:44:00			I6
96	CCB	1	28-DEC-2000	20:51:00			I6
97	DR119B	1	28-DEC-2000	20:56:00	0362259	A0L270000	I6
98	DR119C	1	28-DEC-2000	21:00:00	0362259	A0L270000	I6
99	DRHED	1	28-DEC-2000	21:06:00	0362259	MP033	I6
100	DRHEDL	1	28-DEC-2000	21:11:00			I6
101	DRHEL	1	28-DEC-2000	21:16:00	0362259	MP033	I6
102	DRHE4	1	28-DEC-2000	21:21:00	0362259	MP033	I6
103	DRHE4S	1	28-DEC-2000	21:26:00	0362259	MP033	I6
104	DRHE4D	1	28-DEC-2000	21:30:00	0362259	MP033	I6
105	DRHFD	1	28-DEC-2000	21:36:00	0362259	MP033	I6
106	DRJ67	1	28-DEC-2000	21:41:00	0362259	MP033	I6
107	CCV	1	28-DEC-2000	21:48:00			I6
108	CCB	1	28-DEC-2000	21:54:00			I6
109	DRJ7P	1	28-DEC-2000	21:59:00	0362259	MP033	I6
110	DRJ7R	1	28-DEC-2000	22:04:00	0362259	MP033	I6
111	DRJ7T	1	28-DEC-2000	22:09:00	0362259	MP033	I6
112	DRRGK	1	28-DEC-2000	22:14:00	0356107	A0L200264	I6
113	DRRHN	1	28-DEC-2000	22:18:00	0356107	A0L200264	I6
114	DR19CBT	1	28-DEC-2000	22:26:00	0363106	A0L270000	I6
115	DR2JXBT	1	28-DEC-2000	22:30:00	0363106	A0L280000	I6
116	DR2JXCT	1	28-DEC-2000	22:35:00	0363106	A0L280000	I6
117	DRXPPT	1	28-DEC-2000	22:41:00	0363106	A0L220173	I6
118	DRXPPTL	1	28-DEC-2000	22:46:00			I6
119	CCV	1	28-DEC-2000	22:53:00			I6
120	CCB	1	28-DEC-2000	22:59:00			I6
121	DRXPPTS	5	28-DEC-2000	23:04:00	0363106	A0L220173	I6
122	DRXPPTD	5	28-DEC-2000	23:09:00	0363106	A0L220173	I6
123	DRIAKT	1	28-DEC-2000	23:14:00	0363106	A0L260122	I6
124	DR2JMB	1	28-DEC-2000	23:21:00	0363101	A0L280000	I6
125	DR2JMC	1	28-DEC-2000	23:26:00	0363101	A0L280000	I6
126	DRW3M	1	28-DEC-2000	23:32:00	0363101	A0L220109	I6
127	DRW3ML	1	28-DEC-2000	23:37:00			I6
128	DR15K	1	28-DEC-2000	23:42:00	0363101	A0L270133	I6
129	DR15KS	1	28-DEC-2000	23:47:00	0363101	A0L270133	I6
130	DR15KD	1	28-DEC-2000	23:51:00	0363101	A0L270133	I6
131	CCV	1	28-DEC-2000	23:58:00			I6
132	CCB	1	29-DEC-2000	00:05:00			I6

(continued)

: Instrument Upload Run Log - Page 4 :
: Started Thu Dec 28 23:54:35 2000 by DIPOFIA :
: Data File: UPL\$CAN_DATA_ROOT:<TJA>I61228A.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	DR15KF	1	29-DEC-2000	00:09:00	0363101	A0L270133	I6
134	DR15P	1	29-DEC-2000	00:14:00	0363101	A0L270133	I6
135	DR15PF	1	29-DEC-2000	00:19:00	0363101	A0L270133	I6
136	DRJ67	1	29-DEC-2000	00:33:00	0362259	MP033	I6
137	DRJ7R	1	29-DEC-2000	00:38:00	0362259	MP033	I6
138	DRJ7T	1	29-DEC-2000	00:43:00	0362259	MP033	I6
139	DR2JPBT	1	29-DEC-2000	00:50:00	0363102	A0L280000	I6
140	DRVLTT	1	29-DEC-2000	00:55:00	0363102	A0L210222	I6
141	DRVLTTL	1	29-DEC-2000	01:00:00			I6
142	CRI	1	29-DEC-2000	01:10:00			I6
143	CCV	1	29-DEC-2000	01:15:00			I6
144	CCB	1	29-DEC-2000	01:22:00			I6

----- End of Report -----

Hg CVAA Analysis Run Log #1

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: Instrument Upload                               Run Log - Page 1 :
: Started Thu Dec 28 10:42:58 2000 by COUNTSK      :
: Data File: UPL$CAN_DATA_ROOT:<LHG>HG11228A.PRN;1 :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	28-DEC-2000	09:22:12			H1
2	STD2REP1	1	28-DEC-2000	09:23:39			H1
3	STD3REP1	1	28-DEC-2000	09:24:46			H1
4	STD4REP1	1	28-DEC-2000	09:25:52			H1
5	STD5REP1	1	28-DEC-2000	09:26:58			H1
6	STD6REP1	1	28-DEC-2000	09:28:05			H1
7	ICV	1	28-DEC-2000	09:29:59			H1
8	ICB	1	28-DEC-2000	09:31:14			H1
9	CRA	1	28-DEC-2000	09:32:39			H1
10	CCV	1	28-DEC-2000	09:34:04			H1
11	CCB	1	28-DEC-2000	09:35:11			H1
12	PBW	1	28-DEC-2000	09:36:35			H1
13	LCSW	1	28-DEC-2000	09:37:42			H1
14	DQ9WA	1	28-DEC-2000	09:38:53	0356422	0L12219	H1
15	DQ9WR	1	28-DEC-2000	09:39:58	0356422	0L12219	H1
16	DQ9WV	1	28-DEC-2000	09:41:08	0356422	0L12219	H1
17	DQ9WW	1	28-DEC-2000	09:42:18	0356422	0L12219	H1
18	DRAMV	1	28-DEC-2000	09:43:42	0356422	0L12219	H1
19	DRAMVD	1	28-DEC-2000	09:44:49			H1
20	DRAMVS	1	28-DEC-2000	09:46:07	0356422	0L12219	H1
21	DRAM0	1	28-DEC-2000	09:47:12	0356422	0L12219	H1
22	CCV	1	28-DEC-2000	09:48:50			H1
23	CCB	1	28-DEC-2000	09:49:56			H1
24	DRAM1	1	28-DEC-2000	09:51:22	0356422	0L12219	H1
25	DRAM5	1	28-DEC-2000	09:52:28	0356422	0L12219	H1
26	DRAM9	1	28-DEC-2000	09:53:55	0356422	0L12219	H1
27	PBW	1	28-DEC-2000	09:55:03			H1
28	LCSW	1	28-DEC-2000	09:56:13			H1
29	DRQEV	1	28-DEC-2000	09:57:32	0356414	0L14295	H1
30	DRQEVD	1	28-DEC-2000	09:58:58			H1
31	DRQEVS	1	28-DEC-2000	10:00:03	0356414	0L14295	H1
32	DRQFH	1	28-DEC-2000	10:01:09	0356414	0L14295	H1
33	PBS	1	28-DEC-2000	10:02:15			H1
34	CCV	1	28-DEC-2000	10:03:46			H1
35	CCB	1	28-DEC-2000	10:04:55			H1
36	LCSS	1	28-DEC-2000	10:06:01			H1
37	DRFCJ	1	28-DEC-2000	10:07:07	0356397	0L14295	H1
38	DRFCL	1	28-DEC-2000	10:08:18	0356397	0L14295	H1
39	DRFCM	1	28-DEC-2000	10:09:55	0356397	0L14295	H1
40	DRFCP	1	28-DEC-2000	10:11:31	0356397	0L14295	H1
41	DRFCQ	1	28-DEC-2000	10:12:36	0356397	0L14295	H1
42	DRGN1	1	28-DEC-2000	10:13:41	0356397	0L14295	H1
43	DRGN4	1	28-DEC-2000	10:14:52	0356397	0L14295	H1
44	DRGN6	1	28-DEC-2000	10:16:07	0356397	0L14295	H1

----- (continued) -----

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:      Instrument Upload                               Run Log - Page 2 :
:      Started Thu Dec 28 10:42:58 2000 by COUNTSK      :
:      Data File: UPL$CAN_DATA_ROOT:<LHG>HG11228A.PRN;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DRGN8	1	28-DEC-2000	10:17:13	0356397	0L14295	H1
46	CCV	1	28-DEC-2000	10:18:21			H1
47	CCB	1	28-DEC-2000	10:19:37			H1
48	DRK4J	1	28-DEC-2000	10:21:03	0356397	0L14295	H1
49	DRQDJ	1	28-DEC-2000	10:22:21	0356397	0L14295	H1
50	DRQEF	1	28-DEC-2000	10:24:10	0356397	0L14295	H1
51	DRQEM	1	28-DEC-2000	10:25:18	0356397	0L14295	H1
52	DRQEP	1	28-DEC-2000	10:26:26	0356397	0L14295	H1
53	DRQE6	1	28-DEC-2000	10:27:32	0356397	0L14295	H1
54	DRQE6D	1	28-DEC-2000	10:29:18			H1
55	DRQE6S	1	28-DEC-2000	10:30:33	0356397	0L14295	H1
56	DRQE8	1	28-DEC-2000	10:31:43	0356397	0L14295	H1
57	DRQFE	1	28-DEC-2000	10:33:00	0356397	0L14295	H1
58	CCV	1	28-DEC-2000	10:34:26			H1
59	CCB	1	28-DEC-2000	10:35:35			H1
60	DRQFG	1	28-DEC-2000	10:36:43	0356397	0L14295	H1
61	DRTXN	1	28-DEC-2000	10:37:52	0356397	0L14295	H1
62	CCV	1	28-DEC-2000	10:39:11			H1
63	CCB	1	28-DEC-2000	10:40:21			H1
64	CK2CCV	1	28-DEC-2000	11:00:20			H1
65	CK1CCB	1	28-DEC-2000	11:01:47			H1
66	DRWW7B	1	28-DEC-2000	11:02:52	0357109	AOL220000	H1
67	DRWW7C	1	28-DEC-2000	11:03:56	0357109	AOL220000	H1
68	DRWW7L	1	28-DEC-2000	11:05:12	0357109	AOL220000	H1
69	DRT86	1	28-DEC-2000	11:06:48	0357109	AOL210172	H1
70	DRWXKB	1	28-DEC-2000	11:08:03	0357116	AOL220000	H1
71	DRWXKC	1	28-DEC-2000	11:09:08	0357116	AOL220000	H1
72	DRTEG	1	28-DEC-2000	11:10:44	0357116	AOL210102	H1
73	DRTEP	1	28-DEC-2000	11:11:53	0357116	AOL210102	H1
74	DRTET	1	28-DEC-2000	11:12:59	0357116	AOL210102	H1
75	DRTEW	1	28-DEC-2000	11:14:09	0357116	AOL210102	H1
76	CK2CCV	1	28-DEC-2000	11:15:20			H1
77	CK1CCB	1	28-DEC-2000	11:16:26			H1
78	DRTFA	1	28-DEC-2000	11:17:42	0357116	AOL210102	H1
79	DRTFK	1	28-DEC-2000	11:18:48	0357116	AOL210102	H1
80	DRTFT	1	28-DEC-2000	11:19:54	0357116	AOL210102	H1
81	DRTF1	1	28-DEC-2000	11:20:59	0357116	AOL210102	H1
82	DRWA8	1	28-DEC-2000	11:22:07	0357116	AOL210303	H1
83	DRV6T	1	28-DEC-2000	11:23:15	0357116	AOL210285	H1
84	DRV7J	1	28-DEC-2000	11:24:30	0357116	AOL210285	H1
85	DRV7V	1	28-DEC-2000	11:25:57	0357116	AOL210285	H1
86	DRV72	1	28-DEC-2000	11:27:07	0357116	AOL210285	H1
87	DRV72S	1	28-DEC-2000	11:28:13	0357116	AOL210285	H1
88	CK2CCV	1	28-DEC-2000	11:29:19			H1

(continued)

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:      Instrument Upload                      Run Log - Page 3 :
:      Started Thu Dec 28 10:42:59 2000 by COUNTSK          :
:      Data File: UPL$CAN_DATA_ROOT:<LHG>HG11228A.PRN;1     :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	CK1CCB	1	28-DEC-2000	11:30:24			H1
90	DRV72D	1	28-DEC-2000	11:31:52	0357116	AOL210285	H1
91	DRT7MF	1	28-DEC-2000	11:33:03	0357116	AOL210170	H1
92	DRT7VF	1	28-DEC-2000	11:34:20	0357116	AOL210170	H1
93	DRT7XF	1	28-DEC-2000	11:35:48	0357116	AOL210170	H1
94	DRT70F	1	28-DEC-2000	11:37:09	0357116	AOL210170	H1
95	DRT71F	1	28-DEC-2000	11:38:19	0357116	AOL210170	H1
96	DR1LEB	1	28-DEC-2000	11:39:24	0362096	AOL270000	H1
97	DR1LEC	1	28-DEC-2000	11:40:33	0362096	AOL270000	H1
98	DRW2D	1	28-DEC-2000	11:41:38	0362096	OL15142	H1
99	DRW2DS	1	28-DEC-2000	11:42:47	0362096	OL15142	H1
100	CK2CCV	1	28-DEC-2000	11:44:03			H1
101	CK1CCB	1	28-DEC-2000	11:45:10			H1
102	DRW2DD	1	28-DEC-2000	11:46:37	0362096	OL15142	H1
103	DRW2DF	1	28-DEC-2000	11:47:48	0362096	OL15142	H1
104	DRW2DFS	1	28-DEC-2000	11:49:08	0362096	OL15142	H1
105	DRW2DFD	1	28-DEC-2000	11:50:33	0362096	OL15142	H1
106	DRW2N	1	28-DEC-2000	11:52:08	0362096	OL15142	H1
107	DRW2NF	1	28-DEC-2000	11:53:28	0362096	OL15142	H1
108	DRW2V	1	28-DEC-2000	11:54:36	0362096	OL15142	H1
109	DRW2VF	1	28-DEC-2000	11:55:51	0362096	OL15142	H1
110	DRW2X	1	28-DEC-2000	11:56:58	0362096	OL15142	H1
111	DRW2XF	1	28-DEC-2000	11:58:54	0362096	OL15142	H1
112	CK2CCV	1	28-DEC-2000	12:00:01			H1
113	CK1CCB	1	28-DEC-2000	12:01:38			H1
114	DRW22	1	28-DEC-2000	12:02:43	0362096	OL15142	H1
115	DRW22F	1	28-DEC-2000	12:03:49	0362096	OL15142	H1
116	DRW24	1	28-DEC-2000	12:05:16	0362096	OL15142	H1
117	DRW24F	1	28-DEC-2000	12:06:37	0362096	OL15142	H1
118	DR1K9B	1	28-DEC-2000	12:08:04	0362093	AOL270000	H1
119	DR1K9C	1	28-DEC-2000	12:09:12	0362093	AOL270000	H1
120	DRXJV	1	28-DEC-2000	12:10:47	0362093	OL15142	H1
121	DRXJVS	1	28-DEC-2000	12:12:23	0362093	OL15142	H1
122	DRXJVD	1	28-DEC-2000	12:13:31	0362093	OL15142	H1
123	DRXJVF	1	28-DEC-2000	12:14:50	0362093	OL15142	H1
124	CK2CCV	1	28-DEC-2000	12:15:56			H1
125	CK1CCB	1	28-DEC-2000	12:17:23			H1
126	DRXJ5	1	28-DEC-2000	12:18:31	0362093	OL15142	H1
127	DRXJ5F	1	28-DEC-2000	12:21:09	0362093	OL15142	H1
128	DRXJ7	1	28-DEC-2000	12:22:18	0362093	OL15142	H1
129	DRXJ7F	1	28-DEC-2000	12:23:28	0362093	OL15142	H1
130	DRXKD	1	28-DEC-2000	12:24:36	0362093	OL15142	H1
131	DRXKDF	1	28-DEC-2000	12:25:47	0362093	OL15142	H1
132	DRXKM	1	28-DEC-2000	12:27:15	0362093	OL15142	H1

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:      Instrument Upload                      Run Log - Page 4 :
:      Started Fri Dec 29 04:15:53 2000 by COUNTSK           :
:      Data File: UPL$SCAN_DATA_ROOT:<LHG>HG11228A.PRN;1     :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	DRXKMF	1	28-DEC-2000	12:28:23	0362093	0L15142	H1
134	CK2CCV	1	28-DEC-2000	12:29:29			H1
135	CK1CCB	1	28-DEC-2000	12:30:56			H1
136	CK2CCV	1	28-DEC-2000	13:54:39			H1
137	CK1CCB	1	28-DEC-2000	13:56:06			H1
138	DR2JTBT	1	28-DEC-2000	13:57:11	0363104	A0L280000	H1
139	DR2JTCT	1	28-DEC-2000	13:58:37	0363104	A0L280000	H1
140	DR18MBT	1	28-DEC-2000	13:59:47	0363104	A0L270000	H1
141	DRWDJT	1	28-DEC-2000	14:01:15	0363104	A0L210309	H1
142	DRWDJTS	1	28-DEC-2000	14:02:44	0363104	A0L210309	H1
143	DRWDJTD	1	28-DEC-2000	14:04:01	0363104	A0L210309	H1
144	DRVLGT	1	28-DEC-2000	14:05:19	0363104	A0L210222	H1
145	DR119B	1	28-DEC-2000	14:07:09	0362259	A0L270000	H1
146	DR119C	1	28-DEC-2000	14:08:15	0362259	A0L270000	H1
147	DRHED	1	28-DEC-2000	14:09:21	0362259	MP033	H1
148	CK2CCV	1	28-DEC-2000	14:10:31			H1
149	CK1CCB	1	28-DEC-2000	14:11:50			H1
150	DRHEL	1	28-DEC-2000	14:13:11	0362259	MP033	H1
151	DRHE4	1	28-DEC-2000	14:14:50	0362259	MP033	H1
152	DRHE4S	1	28-DEC-2000	14:16:05	0362259	MP033	H1
153	DRHE4D	1	28-DEC-2000	14:17:29	0362259	MP033	H1
154	DRHFD	1	28-DEC-2000	14:18:47	0362259	MP033	H1
155	DRJ67	1	28-DEC-2000	14:19:54	0362259	MP033	H1
156	DRJ7P	1	28-DEC-2000	14:21:00	0362259	MP033	H1
157	DRJ7R	1	28-DEC-2000	14:22:07	0362259	MP033	H1
158	DRJ7T	1	28-DEC-2000	14:23:12	0362259	MP033	H1
159	DR2JPBT	1	28-DEC-2000	14:24:17	0363102	A0L280000	H1
160	CK2CCV	1	28-DEC-2000	14:25:37			H1
161	CK1CCB	1	28-DEC-2000	14:26:42			H1
162	DR2JCT	1	28-DEC-2000	14:28:31	0363102	A0L280000	H1
163	DR19PBT	1	28-DEC-2000	14:29:38	0363102	A0L270000	H1
164	DRVLTT	5	28-DEC-2000	14:30:53	0363102	A0L210222	H1
165	DRVLTT	5	28-DEC-2000	14:31:58	0363102	A0L210222	H1
166	DRVLTTD	5	28-DEC-2000	14:33:03	0363102	A0L210222	H1
167	DR2JXBT	1	28-DEC-2000	14:34:08	0363106	A0L280000	H1
168	DR2XCT	1	28-DEC-2000	14:35:26	0363106	A0L280000	H1
169	DR19CBT	1	28-DEC-2000	14:36:53	0363106	A0L270000	H1
170	DRXPBT	1	28-DEC-2000	14:38:10	0363106	A0L220173	H1
171	DRXPPTS	1	28-DEC-2000	14:39:51	0363106	A0L220173	H1
172	CK2CCV	1	28-DEC-2000	14:41:00			H1
173	CK1CCB	1	28-DEC-2000	14:42:25			H1
174	DRXPPTD	1	28-DEC-2000	14:43:42	0363106	A0L220173	H1
175	DR1AKT	1	28-DEC-2000	14:44:50	0363106	A0L260122	H1
176	DR2JJB	1	28-DEC-2000	14:46:08	0363098	A0L280000	H1

01/10/01 KLL

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Hg CVAA Analysis Run Log H1

 : Instrument Upload Run Log - Page 1 :
 : Started Fri Jan 5 04:31:16 2001 by COUNTSK :
 : Data File: UPL\$CAN_DATA_ROOT:<LHG>HG10103A.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	03-JAN-2001	06:44:23			H1
2	STD2REP1	1	03-JAN-2001	06:45:38			H1
3	STD3REP1	1	03-JAN-2001	06:47:03			H1
4	STD4REP1	1	03-JAN-2001	06:48:30			H1
5	STD5REP1	1	03-JAN-2001	06:50:35			H1
6	STD6REP1	1	03-JAN-2001	06:51:44			H1
7	ICV	1	03-JAN-2001	06:53:13			H1
8	ICB	1	03-JAN-2001	06:54:19			H1
9	CRA	1	03-JAN-2001	06:55:23			H1
10	CCV	1	03-JAN-2001	06:56:28			H1
11	CCB	1	03-JAN-2001	06:57:43			H1
12	DR119B	1	03-JAN-2001	06:58:50	0362259	A0L270000	H1
13	DR119C	1	03-JAN-2001	07:00:25	0362259	A0L270000	H1
14	DR2JJC	1	03-JAN-2001	07:01:30	0363098	A0L280000	H1
15	PBW	1	03-JAN-2001	07:02:38			H1
16	LCSW	1	03-JAN-2001	07:03:58			H1
17	DR3C4	1	03-JAN-2001	07:05:14			H1
18	DR3DQ	1	03-JAN-2001	07:06:19			H1
19	DR3DQD	1	03-JAN-2001	07:08:27			H1
20	DR3DQS	1	03-JAN-2001	07:09:42			H1
21	DR3D1	1	03-JAN-2001	07:12:23			H1
22	CCV	1	03-JAN-2001	07:13:34			H1
23	CCB	1	03-JAN-2001	07:14:39			H1
24	DR3D4	1	03-JAN-2001	07:15:44	0364215	0L28197	H1
25	DR3D4F	1	03-JAN-2001	07:17:20	0364215	0L28197	H1
26	PBW	1	03-JAN-2001	07:18:27			H1
27	LCSW	1	03-JAN-2001	07:19:33			H1
28	LCSWD	1	03-JAN-2001	07:20:53			H1
29	DRJGA	1	03-JAN-2001	07:22:08	0364197	NL001	H1
30	DRJGAF	1	03-JAN-2001	07:23:17	0364197	NL001	H1
31	DRJGD	1	03-JAN-2001	07:24:28	0364197	NL001	H1
32	DRJGDF	1	03-JAN-2001	07:26:02	0364197	NL001	H1
33	DRJGF	1	03-JAN-2001	07:27:22	0364197	NL001	H1
34	CCV	1	03-JAN-2001	07:28:31			H1
35	CCB	1	03-JAN-2001	07:30:16			H1
36	DRJGFF	1	03-JAN-2001	07:31:22	0364197	NL001	H1
37	DRJGH	1	03-JAN-2001	07:32:40	0364197	NL001	H1
38	DRJGHF	1	03-JAN-2001	07:33:49	0364197	NL001	H1
39	DRJGL	1	03-JAN-2001	07:34:55	0364197	NL001	H1
40	DRJGLF	1	03-JAN-2001	07:36:22	0364197	NL001	H1
41	DRKAO	1	03-JAN-2001	07:37:27	0364197	NL001	H1
42	DRKAOF	1	03-JAN-2001	07:38:32	0364197	NL001	H1
43	DRKCC	1	03-JAN-2001	07:40:09	0364197	NL001	H1
44	DRKCCF	1	03-JAN-2001	07:41:27	0364197	NL001	H1

211001

----- (continued) -----

FIELD DUPLICATE PRECISION

ANALYTE	MPT-47-GW-DU02	MPT-47-GW-DPW05	RPD
Aluminum	18.8U	18.8U	#VALUE!
Antimony	4.3U	4.3U	#VALUE!
Arsenic	3.6U	3.6U	#VALUE!
Barium	14.7	13.8	6.32
Beryllium	0.20U	0.20U	#VALUE!
Cadmium	0.40U	0.40U	#VALUE!
Calcium	96400	100000	3.67
Chromium	2.0U	2.0U	#VALUE!
Cobalt	2.2U	2.2U	#VALUE!
Copper	1.9U	1.9U	#VALUE!
Iron	812	957	16.39
Lead	1.3U	1.3U	#VALUE!
Magnesium	16400	16000	2.47
Manganese	163	164	0.61
Mercury	0.10U	0.11U	#VALUE!
Nickel	7.6	6.4	17.14
Molybdenum	1.9U	1.9U	#VALUE!
Potassium	8360	8070	3.53
Selenium	5.5	4.3U	#VALUE!
Silver	3.1U	3.1U	#VALUE!
Sodium	18700	17900	4.37
Thallium	5.3U	9.9U	#VALUE!
Tin	2.8U	2.8U	#VALUE!
Vanadium	1.4U	1.4U	#VALUE!
Zinc	2.1U	1.4U	#VALUE!
Cyanide	10U	10U	#VALUE!

OK - results are <5X CRDL and the difference between the results are <2X CRDL

Volatile

Initial calibration and calibration verification Relative Response Factors (RRFs) fell below the 0.05 quality control limit for acrolein, acetonitrile, propionitrile, and isobutyl alcohol on instrument A3UX11, on 11/09/00. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in all samples.

Initial calibration percent Relative Standard Deviations (%RSDs) exceeded the 30% quality control limit for 1,4-dichloro-2-butene on instrument A3UX11, on 12/13/00. Only nondetected results were reported for 1,4-dichloro-2-butene, therefore, no action was taken based on this noncompliance.

A calibration verification percent Difference (%D) exceeded the 25% quality control limit for 1,4-dichloro-2-butene on instrument A3UX11, on 12/19/00, at 09:09. Only nondetected results were reported for 1,4-dichloro-2-butene and these were qualified as estimated (UJ) in the affected samples.

A calibration verification percent Difference (%D) exceeded the 25% quality control limit for 1,4-dichloro-2-butene and vinyl acetate on instrument A3UX11, on 12/20/00, at 09:13. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

The following compound was detected in the laboratory method blanks and field quality control blanks* at the maximum concentration indicated below:

<u>Compound</u>	<u>Concentration (ug/L)</u>	<u>Action Level (ug/L)</u>
Acetone*	2	20

Blank Actions

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action Level; report value followed by a U.
- Value > RL and > Action Level; report value unqualified.

An action level of 10X the maximum contaminant concentration was established to evaluate laboratory contamination for acetone. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. The affected positive results were qualified as (U) as a result of blank contamination for acetone.

Positive results for methylene chloride below the RL were qualified as nondetected (U) since methylene chloride is considered a common laboratory contaminant.

Semivolatile

Initial calibration %RSDs exceeded the 30% quality control limit for 1,3,5-trinitrobenzene and 4-nitroquinoline-1-oxide on instrument A4HP7, on 11/16/00. Only nondetected results were reported for the aforementioned compounds, therefore, no action was taken.

Calibration verification %Ds exceeded the 25% quality control limit for 3,3'-dimethylbenzidine and 1,4-dioxane on instrument A4HP8, on 12/22/00, at 10:23. Only nondetected results were reported for 3,3'-dimethylbenzidine and 1,4-dioxane and these were qualified as estimated (UJ) in the affected samples.

Calibration verification %Ds exceeded the 25% quality control limit for 4-nitrophenol, 3,3'-dimethylbenzidine and 1,4-dioxane on instrument A4HP8, on 12/26/00, at 10:20 and 13:30. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

Calibration verification %Ds exceeded the 25% quality control limit for N-nitrosomethylethylamine, N-nitrosopyrrolidine, a,a-dimethyl-phenethylamine, p-phenylamine diamine, pentachloronitrobenzene and 1,3,5-trinitrobenzene on instrument A4HP7, on 01/02/01, at 14:48. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

Laboratory Control Sample (LCS) % recovery of hexachlorocyclopentadiene was 0% and dimethyl phthalate was < 10% for extraction batch 0351095. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the samples associated with this quality control batch.

LCS % recovery of diethyl phthalate was < the lower quality control limit and > 10% for extraction batch 0351095. Only nondetected results were reported for diethyl phthalate, therefore, no action was taken.

Matrix Spike / Matrix Spike Duplicate (MS / MSD) % recovery of hexachlorocyclopentadiene was 0%; MS %recovery of dimethyl phthalate was 11% and MSD % recovery of dimethyl phthalate was < 10%. The nondetected results reported for the aforementioned compounds were rejected in the unspiked sample MPT-47-GW-DPW05 only.

MS / MSD % recovery of diethyl phthalate fell below lower quality control limits but was > 10%. No action was taken based on this noncompliance.

MS % recovery of 4-chloroaniline, 3,3'-dichlorobenzidine and 3-nitroaniline fell below 10%. However, MSD % recovery of the aforementioned compounds were compliant, therefore, no action was taken.

MS / MSD Relative Percent Differences (RPDs) exceeded quality control limits for 4-chloroaniline, 3,3'-dichlorobenzidine, 3-nitroaniline, 4-nitroaniline and N-nitrosodiphenylamine. No action was taken based on this noncompliance.

Additional Comments

Positive results below the Reporting Limit (RL) were qualified as estimated (J) due to uncertainty near the detection limit.

Acetone, 4-methyl-2-pentanone, 2-butanone and toluene were detected in the equipment rinsate blank MPT-47-EB01. These results were not used as a basis for qualification during the data validation process.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Poor instrument response was observed for several volatile and semivolatile compounds, resulting in the rejection of analytical data. The initial calibration of 1,4-dichloro-2-butene, 1,3,5-trinitrobenzene, and 4-nitroquinoline-1-oxide failed to meet linearity criteria. Several volatile and semivolatile compounds failed to meet calibration verification criteria. Semivolatile LCS recovery of several compounds fell below 10%, resulting in the rejection of analytical data.

Other Factors Affecting Data Quality: Several semivolatile MS and / or MSD compounds failed to meet recovery and RPD criteria.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator



TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

**NS MAYPORT, CTO 091
FIELD DUPLICATE RESULTS
SDG MP033**

SDG		MP032	MP033	
FRACTION	COMPOUND	MPT-47-GW-DPW05	MPT-47-GW-DU02	RPD
		RESULT ug/L	RESULT ug/L	
Volatile	ND			
Semivolatile				
	Acenaphthene	3.5 J	2.9 J	19
ND - Compound not detected.				
NC - RPD not calculated.				

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	AOL150200001	AOL150200003	AOL150200002	AOL160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	9.4	J	P	10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	0.36	J	P	10	U		10	U		10	U	
ACETONE	24			10	U	A	10	U	A	10	U	A
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		0.15	J	P	1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	AOL150200001	AOL150200003	AOL150200002	AOL160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U	A	1	U		1	U	A
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	0.22	J	P	1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	UJ	C
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	AOL160126003	AOL160126004	AOL150200004	AOL160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		2.9			1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		1	J	P
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	A	10	U	A	10	U	A	10	U	A
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	0.12	J	P	1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		2.9			0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	AOL160126003	AOL160126004	AOL150200004	AOL160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	1	U	A	1	U		1.1		
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	UJ	C	1	UJ	C	1	U		1	UJ	C
VINYL CHLORIDE	1	U		1.5			1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	TB1214001	TB1215001		
SAMPLE DATE:	12/14/00	12/15/00	//	//
LABORATORY ID:	AOL150200005	AOL160126005		
QC_TYPE:	TRIP BLANK	TRIP BLANK		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U							
1,1,1-TRICHLOROETHANE	1	U		1	U							
1,1,2,2-TETRACHLOROETHANE	1	U		1	U							
1,1,2-TRICHLOROETHANE	1	U		1	U							
1,1-DICHLOROETHANE	1	U		1	U							
1,1-DICHLOROETHENE	1	U		1	U							
1,2,3-TRICHLOROPROPANE	1	U		1	U							
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U							
1,2-DIBROMOETHANE	1	U		1	U							
1,2-DICHLOROETHANE	1	U		1	U							
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U							
1,2-DICHLOROPROPANE	1	U		1	U							
2-BUTANONE	10	U		10	U							
2-CHLOROETHYL VINYL ETHER	1	U		1	U							
2-HEXANONE	10	U		10	U							
4-METHYL-2-PENTANONE	10	U		10	U							
ACETONE	1.3	J	P	2	J	P						
ACETONITRILE	20	UR	C	20	UR	C						
ACROLEIN	10	UR	C	10	UR	C						
ACRYLONITRILE	10	U		10	U							
ALLYL CHLORIDE	1	U		1	U							
BENZENE	1	U		1	U							
BROMODICHLOROMETHANE	1	U		1	U							
BROMOFORM	1	U		1	U							
BROMOMETHANE	2	U		2	U							
CARBON DISULFIDE	1	U		1	U							
CARBON TETRACHLORIDE	1	U		1	U							
CHLOROBENZENE	1	U		1	U							
CHLOROETHANE	1	U		1	U							
CHLOROFORM	1	U		1	U							
CHLOROMETHANE	1	U		1	U							
CHLOROPRENE	1	U		1	U							
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

TB1214001
12/14/00
AOL150200005
TRIP BLANK
0.0 %
UG/L

TB1215001
12/15/00
AOL160126005
TRIP BLANK
0.0 %
UG/L

//
100.0 %

//
100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U							
DIBROMOCHLOROMETHANE	1	U		1	U							
DIBROMOMETHANE	1	U		1	U							
DICHLORODIFLUOROMETHANE	1	U		1	U							
ETHYL METHACRYLATE	1	U		1	U							
ETHYLBENZENE	1	U		1	U							
IODOMETHANE	1	U		1	U							
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C						
METHACRYLONITRILE	1	U		1	U							
METHYL METHACRYLATE	1	U		1	U							
METHYL TERT-BUTYL ETHER	5	U		5	U							
METHYLENE CHLORIDE	1	U		1	U							
PROPIONITRILE	4	UR	C	4	UR	C						
STYRENE	1	U		1	U							
TETRACHLOROETHENE	1	U		1	U							
TOLUENE	1	U		1	U							
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U							
TRANS-1,3-DICHLOROPROPENE	1	U		1	U							
TRANS-1,4-DICHLORO-2-BUTENE	1	UJ	C	1	UJ	C						
TRICHLOROETHENE	1	U		1	U							
TRICHLOROFLUOROMETHANE	2	U		2	U							
VINYL ACETATE	1	U		1	UJ	C						
VINYL CHLORIDE	1	U		1	U							
XYLENES, TOTAL	1	U		1	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	AOL150200001	AOL150200003	AOL150200002	AOL160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	10	U										
1,2,4-TRICHLORO BENZENE	10	U										
1,2-DICHLORO BENZENE	10	U										
1,3,5-TRINITRO BENZENE	10	U		10	U		10	U		10	UJ	C
1,3-DICHLORO BENZENE	10	U										
1,3-DINITRO BENZENE	10	U										
1,4-DICHLORO BENZENE	10	U										
1,4-DIOXANE	10	UJ	C	10	UJ	C	10	UJ	C	10	U	
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
2-SEC-BUTYL-4,6-DINITROPHENOL	20	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	UJ	C	10	UJ	C	10	UJ	C	10	U	
3-METHYLCHOLANTHRENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	AOL150200001	AOL150200003	AOL150200002	AOL160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U		50	U		50	U		50	UJ	C
ACENAPHTHENE	10	U		3.5	J	P	10	U		10	U	
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	3.8	J	P	10	U		10	U		10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	A0L150200001	A0L150200003	A0L150200002	A0L160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E	10	UR	DE	10	UR	E	10	U	
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E	10	UR	DE	10	UR	E	10	U	
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U		10	U		10	U		10	UJ	C
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U		10	U		10	U		10	UJ	C
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-EB01	MPT-47-GW-DPW05	MPT-47-GW-DPW06	MPT-47-GW-DPW09
SAMPLE DATE:	12/14/00	12/14/00	12/14/00	12/15/00
LABORATORY ID:	AOL150200001	AOL150200003	AOL150200002	AOL160126002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U		10	U		10	U		10	UJ	C
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U		10	U		10	U		10	UJ	C
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	8.9	J	P	10	U		10	U		10	U	
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEP	50	U										
THIONAZIN	50	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	AOL160126003	AOL160126004	AOL150200004	AOL160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	10	U										
1,2,4-TRICHLORO BENZENE	10	U										
1,2-DICHLORO BENZENE	10	U										
1,3,5-TRINITRO BENZENE	10	UJ	C	10	UJ	C	10	U		10	UJ	C
1,3-DICHLORO BENZENE	10	U										
1,3-DINITRO BENZENE	10	U										
1,4-DICHLORO BENZENE	10	U										
1,4-DIOXANE	10	U		10	U		10	UJ	C	10	U	
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
2-SEC-BUTYL-4,6-DINITROPHENOL	20	U										
3,3'-DICHLORO BENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U		10	U		10	UJ	C	10	U	
3-METHYLCHOLANTHRENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	AOL160126003	AOL160126004	AOL150200004	AOL160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U		25	U		25	UJ	C	25	U	
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C	50	UJ	C	50	U		50	UJ	C
ACENAPHTHENE	3.7	J	P	10	U		2.9	J	P	10	U	
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	AOL160126003	AOL160126004	AOL150200004	AOL160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U		10	U		10	UR	E	10	U	
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	U		10	U		10	UR	E	10	U	
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	UJ	C	10	UJ	C	10	U		10	UJ	C
N-NITROSOMORPHOLINE	1.4	J	P	10	U		10	U		10	U	
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	UJ	C	10	UJ	C	10	U		10	UJ	C
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP033**

SAMPLE NUMBER:	MPT-47-GW-DPW13	MPT-47-GW-DPW14	MPT-47-GW-DU02	MPT-53-GW-DPW02
SAMPLE DATE:	12/15/00	12/15/00	12/14/00	12/15/00
LABORATORY ID:	AOL160126003	AOL160126004	AOL150200004	AOL160126001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-47-GW-DPW05	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C	10	UJ	C	10	U		10	UJ	C
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	UJ	C	10	UJ	C	10	U		10	UJ	C
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEP	50	U										
THIONAZIN	50	U										

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:A0L150200 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHED1A6

Date Extracted:12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-EB01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-64-1	Acetone	24		B
75-05-8	Acetonitrile	20		U
107-02-8	Acrolein	10		U
107-13-1	Acrylonitrile	10		U
71-43-2	Benzene	1.0		U
75-27-4	Bromodichloromethane	1.0		U
75-25-2	Bromoform	1.0		U
74-83-9	Bromomethane	2.0		U
75-15-0	Carbon disulfide	1.0		U
56-23-5	Carbon tetrachloride	1.0		U
108-90-7	Chlorobenzene	1.0		U
126-99-8	Chloroprene	1.0		U
124-48-1	Dibromochloromethane	1.0		U
96-12-8	1,2-Dibromo-3-chloropropane	1.0		U
75-00-3	Chloroethane	1.0		U
110-75-8	2-Chloroethyl vinyl ether	1.0		U
67-66-3	Chloroform	1.0		U
74-87-3	Chloromethane	1.0		U
107-05-1	Allyl chloride	1.0		U
74-95-3	Dibromomethane	1.0		U
110-57-6	trans-1,4-Dichloro-2-butene	1.0		U
75-71-8	Dichlorodifluoromethane	1.0		U
75-34-3	1,1-Dichloroethane	1.0		U
107-06-2	1,2-Dichloroethane	1.0		U
75-35-4	1,1-Dichloroethene	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
540-59-0	1,2-Dichloroethene (total)	1.0		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:A0L150200 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHED1A6

Date Extracted:12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.22	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	9.4	J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.36	J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHED1A6

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

57

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHE41AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.1	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHE41AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture †:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.20	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHE41AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHEL1AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	7.6	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.15	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL150200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHEL1AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analysed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (KDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHELLAH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DPW06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7PIAH

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.4	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL160126 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7P1AH

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.47	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL160126 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7PLAH

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:A0L160126 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AH

Date Extracted:12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.9	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.12	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NOS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AH

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.40	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL160126 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AH

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:A0L160126 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AH

Date Extracted:12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.9	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	2.9	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	2.9	

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:AOL160126 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AH

Date Extracted:12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.57	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.5	
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7TIAH

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHFDIAH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.9	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHFD1AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHFD1AH

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ671A6

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	3.4	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:A0L160126 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ671A6

Date Extracted:12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.1	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	1.0	J
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ671A6

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WQ

Lab Sample ID: AOL150200 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHFG1AA

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: TB1214001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.3	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WQ

Lab Sample ID: A0L150200 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHFG1AA

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: TB1214001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WQ

Lab Sample ID: A0L150200 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/15/00

Work Order: DRHFG1AA

Date Extracted: 12/19/00

Dilution factor: 1

Date Analyzed: 12/19/00

Moisture %:

QC Batch: 0355285

Client Sample Id: TB1214001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WQ

Lab Sample ID: AOL160126 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7V1AA

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: TB1215001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.0	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WQ

Lab Sample ID: A0L160126 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7V1AA

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: TB1215001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WQ

Lab Sample ID: A0L160126 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 12/16/00

Work Order: DRJ7V1AA

Date Extracted: 12/20/00

Dilution factor: 1

Date Analyzed: 12/20/00

Moisture %:

QC Batch: 0356132

Client Sample Id: TB1215001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHED1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	3.8	J
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHED1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHED1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHED1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	8.9		J
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHED1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-EB01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHE41AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	3.5		J
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WG Lab Sample ID: AOL150200 003

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHE41AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHE41AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHE41AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHE41AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U
65-85-0	Benzoic acid	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHELIAK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHEL1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHEL1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHEL1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHELIAK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DPW06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7P1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7P1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7PIAK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7P1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7P1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	3.7	J
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 003

Method: SWB46 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	1.4		J
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7R1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW13

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL160126 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP033

Matrix: (soil/water) WG

Lab Sample ID:A0L160126 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AK

Date Extracted:12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ7T1AK

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-47-GW-DPW14

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate		10	U
122-09-8	a,a-Dimethylphenethylamine		50	U
140-57-8	Aramite		10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHFD1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/26/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	2.9	J
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHFD1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/26/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL150200 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHFD1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/26/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L150200 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHFD1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/26/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DUO2

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: AOL150200 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRHFD1AK

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/26/00

Moisture %:

QC Batch: 0351095

Client Sample Id: MPT-47-GW-DUO2

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ671AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ671AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ671AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ671AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WG

Lab Sample ID: A0L160126 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRJ671AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %:

QC Batch: 0353103

Client Sample Id: MPT-53-GW-DPW02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

APPENDIX C

SUPPORT DOCUMENTATION

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	OS	12/14/00	12/16/00	12/22/00	2	6	8
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	OS	12/14/00	12/16/00	12/22/00	2	6	8
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	OS	12/14/00	12/16/00	12/22/00	2	6	8
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	OS	12/14/00	12/16/00	12/26/00	2	10	12
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	OS	12/15/00	12/18/00	01/02/01	3	15	18
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5
UG/L	TB1214001	A0L150200005	TRIP BLANK	MP033	OV	12/14/00	12/19/00	12/19/00	5	0	5
UG/L	TB1215001	A0L160126005	TRIP BLANK	MP033	OV	12/15/00	12/20/00	12/20/00	5	0	5

LC5



LC5

MP033

HOLDING TIME

01/26/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	CN	12/14/00	12/26/00	12/27/00	12	1	13
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	CN	12/15/00	12/27/00	12/27/00	12	0	12
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	HG	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	HG	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-EB01	A0L150200001	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW05	A0L150200003	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW06	A0L150200002	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-47-GW-DPW09	A0L160126002	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW13	A0L160126003	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DPW14	A0L160126004	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13
UG/L	MPT-47-GW-DUO2	A0L150200004	NORMAL	MP033	M	12/14/00	12/28/00	12/28/00	14	0	14
UG/L	MPT-53-GW-DPW02	A0L160126001	NORMAL	MP033	M	12/15/00	12/28/00	12/28/00	13	0	13

SDG NARRATIVE
MP033

The following report contains the analytical results for ten water samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received December 15 and 16, 2000, according to documented sample acceptance procedures.

This SDG consists of two (2) laboratory IDs: A0L150200 and A0L1601269.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 2.7, 3.1 and 1.5° C. The samples were received in wet ice.

See STL's Cooler Receipt Form for additional information.

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: Tetra Tech
Cooler Received on: 12/15/00

Project: _____
Opened on: 12/15/00 by: _____

Quote#: _____
(Signature) [Signature]

Fedx Client Drop Off UPS Airborne
Other: _____

Cooler Safe Foam Box Client Cooler Other: _____
STL Shipper No#: A98 JZ14

1. Were custody seals on the outside of the cooler and intact? Yes No
If YES, Quantity 1 PCL Location ACROSS OPENING
Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)
METHOD: Temperature Vial Coolant Against Bottles
COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM DSP Date: 12/15/00 by: SE via Voice Mail Verbal Other
Concerning: Bubble in Vials Average 30.

MACRO MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
<input checked="" type="checkbox"/> SR3B	Sample(s) <u>1 x 40ml VOA</u> were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

SR4A	NCM has been generated. Refer to Clouseau for details <u>112-117-MSMSD1</u>
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5. Other Anomalies (see below or back)

Revision 13, June 19, 2000
SDP: NC-SC-0005, Sample Receiving
n:\qaqc\narrativ\stlcooler_stl.doc



PROJECT NO: NO123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen	LABORATORY NAME AND CONTACT: Quanterra - STL Denise Pol
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS							COMMENTS
						5035/8260-VOC	8270 SVOC	6010 HCl	9010 Metals HNO3	7470-Tin	7480-Cyanide	7480-Mercury		7480-Molybdenum
12/14	1035	MPT-47-EB01	GW	G	7	X	X	X	X	X	X	X	Cool to 4°C
12/14	1140	MPT-47-GW-DPW06	GW		7	X	X	X	X	X	X	X	
12/14	1145	MPT-47-GW-DPW05	GW		7	X	X	X	X	X	X	X	
12/14	0000	MPT-47-GW-DU02	GW	Y	7	X	X	X	X	X	X	X	
		TB1214001	W		2	X							
12/14	1145	MPT-47-GW-MSMSD01	GW	Y	14	X	X	X	X	X	X	X	

1. RELINQUISHED BY	DATE 12-14-00	TIME 1200	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME		DATE 12/15/00	TIME 9:45
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

STL North Canton



PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Quanterra/STL Denise Pohl					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400				ADDRESS 4101 Stuffer Dr NW							
		CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE N. Canton, OH							
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS 5035/8260-VOC HCl - SVOC - Metals HNO3 Tin Cyanide 7420-Mercury 7480-Molybdenum						COMMENTS	
12/15	0915	MPT-53-GW-DPW02	GW	G	7	X	X	X	X	X	X	X	Cool to 4°C
12/15	1025	MPT-47-GW-DPW09	|	|	7	X	X	X	X	X	X	X	Samples Analyzed for App IX and CLPTCL parameters
12/15	1110	MPT-47-GW-DPW13	|	|	7	X	X	X	X	X	X	X	
12/15	1145	MPT-47-GW-DPW14	|	|	7	X	X	X	X	X	X	X	
		TB1215001			2	X							
1. RELINQUISHED BY		DATE	TIME	1. RECEIVED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY	
		12/15/00	1700			12/16/00							
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME		
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME		
COMMENTS													

SDG NARRATIVE
MP033

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The reporting limit is lower than our standard reporting limit (SRL) but is supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support this value. The continuing calibration blanks and method blanks may not support the lower RL.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: A0L200000 285
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/15/00
Work Order: DRQGW1AA Date Extracted: 12/19/00
Dilution factor: 1 Date Analyzed: 12/19/00
Moisture %: NA

QC Batch: 0355285

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: A0L200000 285
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/15/00
Work Order: DRQGW1AA Date Extracted: 12/19/00
Dilution factor: 1 Date Analyzed: 12/19/00
Moisture %: NA

QC Batch: 0355285

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	0
10061-01-5	cis-1,3-Dichloropropene	1.0	0
10061-02-6	trans-1,3-Dichloropropene	1.0	0
100-41-4	Ethylbenzene	1.0	0
97-63-2	Ethyl methacrylate	1.0	0
75-69-4	Trichlorofluoromethane	2.0	0
591-78-6	2-Hexanone	10	0
74-88-4	Iodomethane	1.0	0
78-83-1	Isobutyl alcohol	50	0
126-98-7	Methacrylonitrile	1.0	0
75-09-2	Methylene chloride	1.0	0
80-62-6	Methyl methacrylate	1.0	0
107-12-0	Propionitrile	4.0	0
100-42-5	Styrene	1.0	0
630-20-6	1,1,1,2-Tetrachloroethane	1.0	0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	0
127-18-4	Tetrachloroethene	1.0	0
108-88-3	Toluene	1.0	0
71-55-6	1,1,1-Trichloroethane	1.0	0
79-00-5	1,1,2-Trichloroethane	1.0	0
79-01-6	Trichloroethene	1.0	0
96-18-4	1,2,3-Trichloropropane	1.0	0
108-05-4	Vinyl acetate	1.0	0
75-01-4	Vinyl chloride	1.0	0
1330-20-7	Xylenes (total)	1.0	0
106-93-4	1,2-Dibromoethane (EDB)	1.0	0
78-93-3	2-Butanone (MEK)	10	0
108-10-1	4-Methyl-2-pentanone (MIBK)	10	0

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: A0L210000 132
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/16/00
Work Order: DRTD71AA Date Extracted: 12/20/00
Dilution factor: 1 Date Analyzed: 12/20/00
Moisture %: NA

QC Batch: 0356132

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-64-1	Acetone	1.0		J
75-05-8	Acetonitrile	20		U
107-02-8	Acrolein	10		U
107-13-1	Acrylonitrile	10		U
71-43-2	Benzene	1.0		U
75-27-4	Bromodichloromethane	1.0		U
75-25-2	Bromoform	1.0		U
74-83-9	Bromomethane	2.0		U
75-15-0	Carbon disulfide	1.0		U
56-23-5	Carbon tetrachloride	1.0		U
108-90-7	Chlorobenzene	1.0		U
126-99-8	Chloroprene	1.0		U
124-48-1	Dibromochloromethane	1.0		U
96-12-8	1,2-Dibromo-3-chloropropane	1.0		U
75-00-3	Chloroethane	1.0		U
110-75-8	2-Chloroethyl vinyl ether	1.0		U
67-66-3	Chloroform	1.0		U
74-87-3	Chloromethane	1.0		U
107-05-1	Allyl chloride	1.0		U
74-95-3	Dibromomethane	1.0		U
110-57-6	trans-1,4-Dichloro-2-butene	1.0		U
75-71-8	Dichlorodifluoromethane	1.0		U
75-34-3	1,1-Dichloroethane	1.0		U
107-06-2	1,2-Dichloroethane	1.0		U
75-35-4	1,1-Dichloroethene	1.0		U
156-59-2	cis-1,2-Dichloroethene	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
540-59-0	1,2-Dichloroethene (total)	1.0		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: AOL210000 132

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/16/00

Work Order: DRTD71AA Date Extracted: 12/20/00

Dilution factor: 1 Date Analyzed: 12/20/00

Moisture %: NA

QC Batch: 0356132

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: AOL210000 132

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 12/16/00
Work Order: DRTD71AA Date Extracted: 12/20/00
Dilution factor: 1 Date Analyzed: 12/20/00
Moisture %: NA

QC Batch: 0356132

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

Data File: \\qpcanoh04\dd\chen\MSV\33011.1\J01220A.b\UKJ1049.D

Date: 20-DEC-2000 10:22

Client ID:

Sample Info: VBLK, ENL/ENL

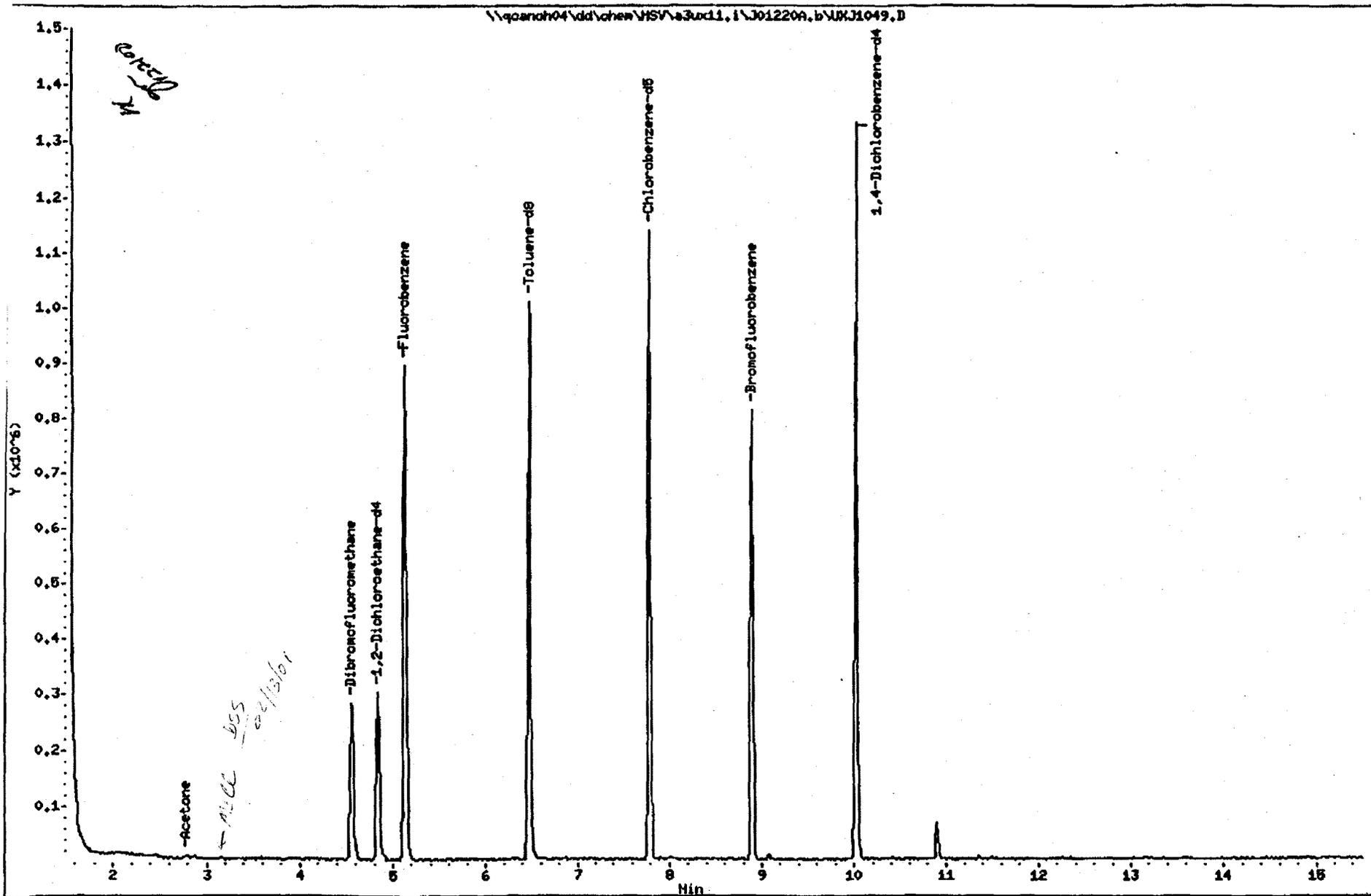
Purge Volume: 0.0

Column phase: DB624

Instrument: a33011.i

Operator: 01715

Column diameter: 0.18



Data File: \\qanoh04\dd\chem\HSV\33ud1.1\J01219A.b\UXJ997.D

Date : 19-DEC-2000 10:42

Client ID: HPT-47-GW-DPW08

Sample Info: DRHE41AH, 5ML/5ML

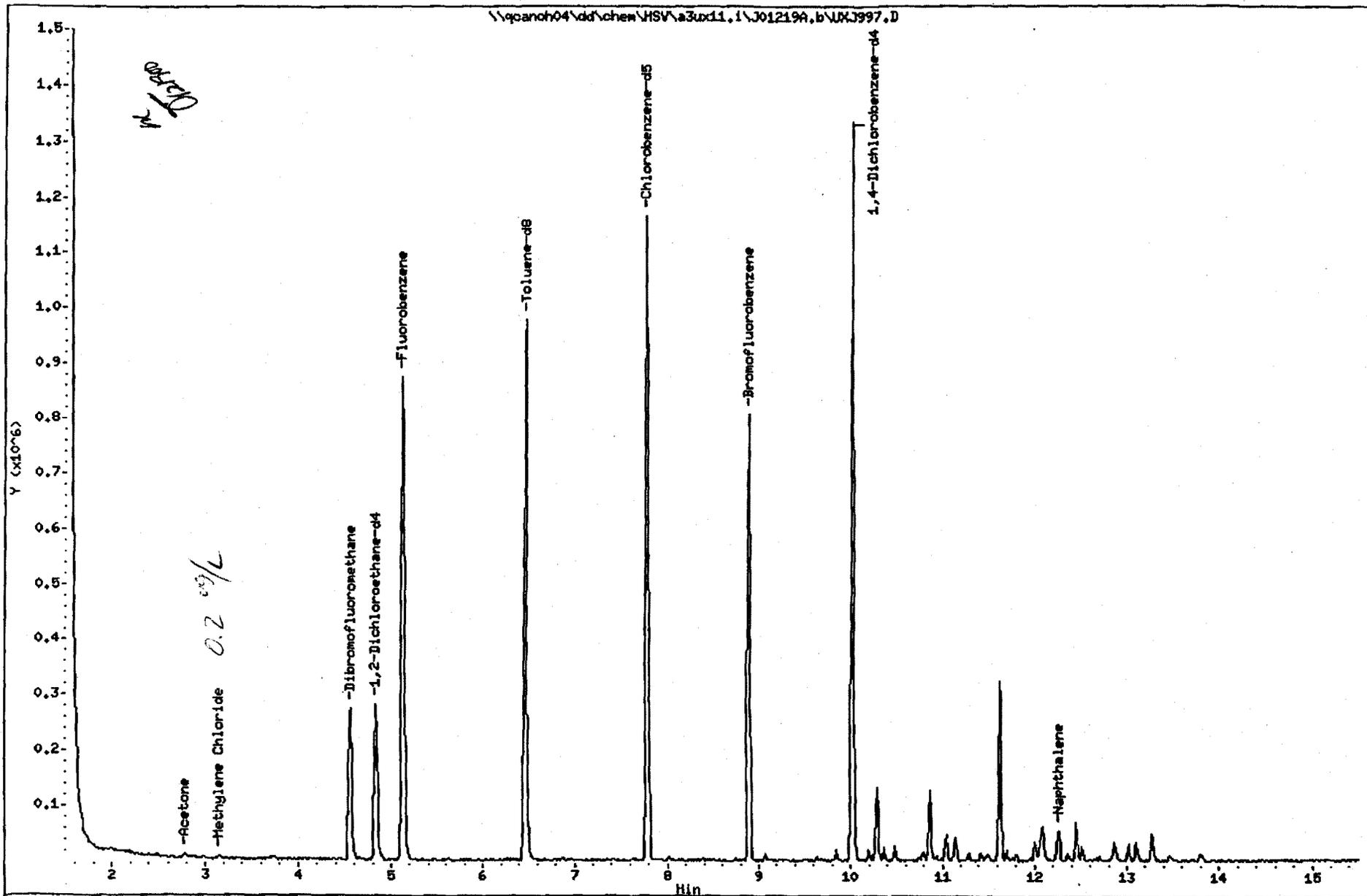
Purge Volume: 5.0

Column phase: DB624

Instrument: a3ud1.i

Operator: 01715

Column diameter: 0.18



5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP033
 Lab File ID: BFB031 BFB Injection Date: 12/13/00
 Instrument ID: A3UX11 BFB Injection Time: 0855
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.3
175	5.0 - 9.0% of mass 174	6.2 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.9 (99.6)1
177	5.0 - 9.0% of mass 176	6.0 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	100NG-IC	UXJ820	12/13/00	0944
02	VSTD010	50NG-IC	UXJ821	12/13/00	1007
03	VSTD005	25NG-IC	UXJ822	12/13/00	1030
04	VSTD001	5NG-IC	UXJ823	12/13/00	1053
05	VSTD040	200NG-A9IC	UXJ824	12/13/00	1116
06	VSTD020	100NG-A9IC	UXJ825	12/13/00	1139
07	VSTD010	50NG-A9IC	UXJ826	12/13/00	1203
08	VSTD005	25NG-A9IC	UXJ827	12/13/00	1226
09	VSTD001	5NG-A9IC	UXJ828	12/13/00	1249
10	VSTD040	200NG-IC	UXJ829	12/13/00	1312
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\a3ux11.i\J01213A.b\8260LLUX11.m
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01213A.b\UXJ828.D
 Level 2: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01213A.b\UXJ827.D
 Level 3: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01213A.b\UXJ826.D
 Level 4: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01213A.b\UXJ825.D
 Level 5: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01213A.b\UXJ824.D

Compound	5.000	25.000	50.000	100.000	200.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
8 Dichlorodifluoromethane	0.18305	0.23525	0.24119	0.22567	0.21940	0.22095	10.330
9 Chloromethane	0.26007	0.26606	0.27618	0.24361	0.24375	0.25793	5.516
10 Vinyl Chloride	0.23035	0.24968	0.26702	0.24654	0.24924	0.24857	5.238
11 Bromomethane	0.17934	0.19060	0.19605	0.19090	0.12906	0.17719	15.569
12 Chloroethane	0.15577	0.16899	0.17709	0.16413	0.14847	0.16289	6.857
13 Trichlorofluoromethane	0.25219	0.30240	0.34152	0.33603	0.33958	0.31436	12.172
14 Dichlorofluoromethane	0.35154	0.37658	0.39729	0.42448	0.40812	0.39160	7.342
15 Acrolein	0.02147	0.02256	0.02490	0.02486	0.02504	0.02377	6.933
16 Acetone	0.12051	0.07778	0.07996	0.06972	0.06772	0.08314	25.890
17 1,1-Dichloroethene	0.18961	0.20318	0.21326	0.19242	0.20668	0.20103	4.916
18 Freon-113	0.18688	0.17568	0.21742	0.20571	0.21379	0.19990	8.983
19 Iodomethane	0.36670	0.36836	0.39529	0.36170	0.37109	0.37263	3.522
20 Carbon Disulfide	0.62231	0.64591	0.67877	0.63199	0.66620	0.64904	3.608
21 Methylene Chloride	0.22595	0.22194	0.23152	0.20952	0.22169	0.22212	3.644
22 Acetonitrile	0.02578	0.02577	0.02633	0.02495	0.02665	0.02590	2.504
23 Acrylonitrile	0.07808	0.08306	0.09072	0.08021	0.08417	0.08335	5.783
24 Methyl tert-butyl ether	0.62821	0.64170	0.70671	0.64915	0.68806	0.66277	5.001
25 trans-1,2-Dichloroethene	0.21550	0.22754	0.23469	0.21938	0.23866	0.22716	4.322
26 Hexane	0.04472	0.04613	0.05892	0.05745	0.06037	0.05352	13.969
27 Vinyl acetate	0.16720	0.17560	0.19056	0.18456	0.19516	0.18262	6.189
28 1,1-Dichloroethane	0.33920	0.36297	0.38424	0.35292	0.38361	0.36459	5.366
29 tert-Butyl Alcohol	0.01837	0.01615	0.02213	0.01659	0.01624	0.01790	14.156
30 2-Butanone	0.09148	0.08643	0.09999	0.08889	0.08826	0.09101	5.866
M 31 1,2-Dichloroethene (total)	0.22607	0.23464	0.23900	0.22245	0.24101	0.23263	3.476
32 cis-1,2-dichloroethene	0.23663	0.24173	0.24331	0.22552	0.24337	0.23811	3.174
33 2,2-Dichloropropane	0.30098	0.32346	0.34974	0.32383	0.34805	0.32921	6.142

OK

0.01130
0.15262

6-18

SS
2/13/01

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\A3UX11.I\J01213A.B\8260LLUX11.M
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.11728	0.12502	0.12998	0.12006	0.12516	0.12350	4.000
35 Chloroform	0.33930	0.36365	0.37054	0.34778	0.37162	0.35858	4.011
36 Tetrahydrofuran	0.05676	0.05495	0.06252	0.05335	0.05502	0.05652	6.306
37 1,1,1-Trichloroethane	0.33388	0.34441	0.36977	0.33825	0.35845	0.34895	4.265
38 1,1-Dichloropropene	0.26970	0.27711	0.29320	0.27861	0.29278	0.28228	3.664
39 Carbon Tetrachloride	0.27846	0.30670	0.31305	0.29277	0.30825	0.29985	4.714
40 1,2-Dichloroethane	0.27443	0.29215	0.31031	0.28679	0.29917	0.29257	4.590
41 Benzene	0.89097	0.87862	0.91478	0.84654	0.89285	0.88475	2.827
42 Trichloroethene	0.26331	0.26154	0.26483	0.24960	0.26177	0.26021	2.335
43 1,2-Dichloropropane	0.20269	0.20428	0.21502	0.20183	0.21200	0.20717	2.875
44 1,4-Dioxane	0.00198	0.00207	0.00229	0.00213	0.00196	0.00209	6.461
45 Dibromomethane	0.12879	0.12423	0.13182	0.12615	0.12816	0.12783	2.238
46 Bromodichloromethane	0.24060	0.26059	0.26610	0.24911	0.26296	0.25587	4.174
47 2-Chloroethyl vinyl ether	0.10548	0.11995	0.12975	0.12210	0.12203	0.11986	7.398
48 cis-1,3-Dichloropropene	0.30781	0.32404	0.34011	0.33281	0.35267	0.33149	5.094
49 4-Methyl-2-pentanone	0.17790	0.18234	0.20781	0.18480	0.18221	0.18701	6.357
50 Toluene	1.20413	1.26556	1.33196	1.23425	1.31904	1.27099	4.287
51 trans-1,3-Dichloropropene	0.38166	0.39353	0.43406	0.39897	0.43310	0.40826	5.865
52 Ethyl Methacrylate	0.29379	0.33421	0.36515	0.33337	0.35639	0.33658	8.212
53 1,1,2-Trichloroethane	0.22418	0.24758	0.26266	0.23620	0.24750	0.24362	5.899
54 1,3-Dichloropropane	0.42650	0.42952	0.46487	0.41922	0.44562	0.43714	4.177
55 Tetrachloroethene	0.28444	0.28887	0.30095	0.27320	0.29163	0.28782	3.531
56 2-Hexanone	0.15976	0.16687	0.19367	0.16770	0.16484	0.17057	7.785
57 Dibromochloromethane	0.25046	0.25597	0.27398	0.25288	0.26934	0.26052	4.023
58 1,2-Dibromoethane	0.24635	0.25711	0.27086	0.24100	0.25308	0.25368	4.502
59 Chlorobenzene	0.83520	0.88262	0.91175	0.82547	0.88639	0.86828	4.212
60 1,1,1,2-Tetrachloroethane	0.28846	0.30045	0.32061	0.28808	0.31106	0.30173	4.709
61 Ethylbenzene	0.43668	0.47951	0.50931	0.45301	0.49224	0.47415	6.188
62 m + p-Xylene	0.52612	0.58331	0.61694	0.56164	0.60512	0.57862	6.254
M 63 Xylenes (total)	0.52837	0.57951	0.61499	0.56175	0.60827	0.57858	6.118
64 Xylene-o	0.53288	0.57191	0.61107	0.56196	0.61459	0.57848	5.964
65 Styrene	0.87946	0.95397	1.02609	0.94568	1.03771	0.96858	6.684
66 Bromoform	0.15330	0.15497	0.17412	0.15632	0.16999	0.16174	5.928

SC04
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 5/2/01

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\8260LLUX11.m
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
67 Isopropylbenzene	1.28650	1.45212	1.56364	1.43505	1.57582	1.46263	8.010
68 1,1,2,2-Tetrachloroethane	0.53355	0.50423	0.55338	0.48672	0.50351	0.51628	5.177
69 1,4-Dichloro-2-butene	0.07031	0.07153	0.09118	0.11114	0.14246	0.09732	11.086
70 1,2,3-Trichloropropane	0.17973	0.18476	0.20212	0.17471	0.17877	0.19402	5.833
71 Bromobenzene	0.63232	0.62287	0.65820	0.61010	0.63905	0.63251	2.848
72 n-Propylbenzene	0.64114	0.69885	0.74734	0.68555	0.72753	0.70008	5.834
73 2-Chlorotoluene	0.57356	0.58851	0.62047	0.56872	0.60274	0.59080	3.604
74 1,3,5-Trimethylbenzene	1.80962	1.94945	2.11855	1.99130	2.10828	1.99544	6.366
75 4-Chlorotoluene	0.58370	0.59608	0.64793	0.60526	0.63847	0.61429	4.507
76 tert-Butylbenzene	1.59551	1.80308	1.95982	1.85534	1.96342	1.83544	8.211
77 1,2,4-Trimethylbenzene	1.94477	2.07624	2.20949	2.06243	2.19295	2.09717	5.150
78 sec-Butylbenzene	2.33268	2.43702	2.65185	2.49225	2.66490	2.51574	5.658
79 4-Isopropyltoluene	1.99085	2.20214	2.42448	2.25478	2.42693	2.25984	8.000
80 1,3-Dichlorobenzene	1.27270	1.28616	1.33749	1.22294	1.30679	1.28521	3.309
81 1,4-Dichlorobenzene	1.39032	1.30833	1.38948	1.27810	1.34407	1.34206	3.690
82 n-Butylbenzene	1.87213	1.92008	2.11743	1.97094	2.09246	1.99461	5.363
83 1,2-Dichlorobenzene	1.24128	1.24997	1.32951	1.22797	1.30114	1.26997	3.411
84 1,2-Dibromo-3-chloropropane	0.11336	0.13109	0.14531	0.12666	0.13142	0.12957	8.839
85 1,2,4-Trichlorobenzene	1.04359	1.07919	1.15866	1.05607	1.14012	1.09553	4.676
86 Hexachlorobutadiene	0.46207	0.44380	0.47610	0.44156	0.46762	0.45823	3.289
87 Naphthalene	2.11966	2.30014	2.65394	2.30387	2.48419	2.37236	8.576
88 1,2,3-Trichlorobenzene	0.95835	1.00672	1.06210	0.95621	1.03275	1.00323	4.615
89 Ethyl Ether	0.16885	0.17704	0.17531	0.18809	0.17662	0.17718	3.912
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.11029	0.11676	0.12259	0.12913	0.12250	0.12025	5.891
92 Isopropyl Ether	0.18678	0.20405	0.21221	0.22695	0.22004	0.21001	7.408
93 2-Chloro-1,3-butadiene	0.30798	0.33345	0.34378	0.36727	0.36037	0.34257	6.859
94 Propionitrile	0.02972	0.02634	0.02821	0.02874	0.03085	0.02877	5.884
95 Ethyl Acetate	0.17650	0.16119	0.16968	0.17920	0.18981	0.17528	6.105
96 Methacrylonitrile	0.11310	0.12046	0.11975	0.12953	0.13410	0.12339	6.781
97 Isobutanol	0.00586	0.00588	0.00649	0.00733	0.00856	0.00682	16.696 <-
98 Cyclohexane	0.31654	0.30690	0.38624	0.36725	0.38434	0.35226	10.755
99 n-Butanol	0.00444	0.00454	0.00467	0.00565	0.00666	0.00519	18.357 <-

Report Date : 13-Dec-2000 13:31

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 13-DEC-2000 13:12
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux11.i\J01213A.b\8260LLUX11.m
 Cal Date : 13-Dec-2000 13:27 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
100 Methyl Methacrylate	0.14878	0.15731	0.16276	0.17315	0.18356	0.16511	8.228
101 2-Nitropropane	0.03216	0.03390	0.03524	0.03757	0.04076	0.03553	9.314
102 Chloropicrin	++++	++++	++++	++++	++++	++++	<-
103 Cyclohexanone	0.03080	0.02974	0.03171	0.03523	0.03714	0.03252	9.509
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	<-
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	<-
134 Thiophene	++++	++++	++++	++++	++++	++++	<-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	<-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	<-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	<-
138 Paraldehyde	++++	++++	++++	++++	++++	++++	<-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	<-
140 1-Chlorohexane	++++	++++	++++	++++	++++	++++	<-
141 1,3,5-Trichlorobenzene	1.17994	1.06840	1.17837	1.09163	1.13836	1.13134	4.455
143 Methyl Acetate	0.17926	0.16917	0.19129	0.17357	0.17098	0.17685	5.047
144 Methylcyclohexane	0.32225	0.33686	0.40699	0.38579	0.40948	0.37227	10.852
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	<-

S 4 Dibromofluoromethane	0.20307	0.20044	0.20710	0.19524	0.20525	0.20222	2.287
S 5 1,2-Dichloroethane-d4	0.22761	0.23795	0.25425	0.24101	0.25030	0.24222	4.344
S 6 Toluene-d8	1.05312	1.05464	1.13198	1.04567	1.11682	1.08025	3.776
S 7 Bromofluorobenzene	0.40677	0.41694	0.43801	0.40861	0.44245	0.42256	3.942

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ993.D
 Report Date: 19-Dec-2000 09:57

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
 Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
\$ 4 Dibromofluoromethane	0.20222	0.22034	0.010	9.0	50.0
\$ 5 1,2-Dichloroethane-d4	0.24222	0.25592	0.010	5.7	50.0
\$ 6 Toluene-d8	1.08025	1.14536	0.010	6.0	50.0
\$ 7 Bromofluorobenzene	0.42256	0.44681	0.010	5.7	50.0
8 Dichlorodifluoromethane	0.22095	0.21590	0.010	-2.3	50.0
9 Chloromethane	0.25793	0.26162	0.100	1.4	50.0
10 Vinyl Chloride	0.24857	0.26070	0.010	4.9	20.0
11 Bromomethane	0.17719	0.21192	0.010	19.6	50.0
12 Chloroethane	0.16289	0.18672	0.010	14.6	50.0
13 Trichlorofluoromethane	0.31436	0.33479	0.010	6.5	50.0
15 Acrolein	0.02377	0.02934	0.010	23.5	50.0
16 Acetone	0.08314	0.07958	0.010	-4.2	50.0
17 1,1-Dichloroethene	0.20103	0.21633	0.010	7.6	20.0
18 Freon-113	0.19990	0.25686	0.010	28.5	50.0
19 Iodomethane	0.37263	0.41324	0.010	10.9	50.0
20 Carbon Disulfide	0.64904	0.70846	0.010	9.2	50.0
21 Methylene Chloride	0.22212	0.23378	0.010	5.2	50.0
22 Acetonitrile	0.02590	0.02707	0.010	4.5	50.0
23 Acrylonitrile	0.08325	0.08321	0.010	-0.1	50.0
24 Methyl tert-butyl ether	0.66277	0.63482	0.010	-4.2	50.0
25 trans-1,2-Dichloroethene	0.22716	0.24358	0.010	7.2	50.0
26 Hexane	0.05352	0.06560	0.010	22.6	50.0
27 Vinyl acetate	0.18262	0.17690	0.010	-3.1	50.0
28 1,1-Dichloroethane	0.36459	0.39635	0.100	8.7	50.0
29 tert-Butyl Alcohol	0.01790	0.01589	0.010	-11.2	50.0
30 2-Butanone	0.09101	0.08750	0.010	-3.9	50.0
M 31 1,2-Dichloroethene (total)	0.23263	0.24567	0.010	5.6	50.0
32 cis-1,2-dichloroethene	0.23811	0.24776	0.010	4.1	50.0
33 2,2-Dichloropropane	0.32921	0.35498	0.010	7.8	50.0
34 Bromochloromethane	0.12350	0.13073	0.010	5.9	50.0
35 Chloroform	0.35858	0.39022	0.010	8.8	20.0
36 Tetrahydrofuran	0.05652	0.05668	0.010	0.3	50.0
37 1,1,1-Trichloroethane	0.34895	0.37993	0.010	8.9	50.0
38 1,1-Dichloropropene	0.28228	0.31013	0.010	9.9	50.0
39 Carbon Tetrachloride	0.29985	0.33347	0.010	11.2	50.0
40 1,2-Dichloroethane	0.29257	0.31106	0.010	6.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
 Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
41 Benzene	0.88475	0.94986	0.010	7.4	50.0
42 Trichloroethene	0.26021	0.27351	0.010	5.1	50.0
43 1,2-Dichloropropane	0.20717	0.22312	0.010	7.7	20.0
44 1,4-Dioxane	0.00209	0.00225	0.010	7.6	50.0
45 Dibromomethane	0.12783	0.13819	0.010	8.1	50.0
46 Bromodichloromethane	0.25587	0.28383	0.010	10.9	50.0
47 2-Chloroethyl vinyl ether	0.11986	0.11290	0.010	-5.8	50.0
48 cis-1,3-Dichloropropene	0.33149	0.35781	0.010	7.9	50.0
49 4-Methyl-2-pentanone	0.18701	0.18013	0.010	-3.7	50.0
50 Toluene	1.27099	1.37059	0.010	7.8	20.0
51 trans-1,3-Dichloropropene	0.40826	0.43081	0.010	5.5	50.0
52 Ethyl Methacrylate	0.33658	0.34406	0.010	2.2	50.0
53 1,1,2-Trichloroethane	0.24362	0.25359	0.010	4.1	50.0
54 1,3-Dichloropropane	0.43714	0.45325	0.010	3.7	50.0
55 Tetrachloroethane	0.28782	0.30760	0.010	6.9	50.0
56 2-Hexanone	0.17057	0.15771	0.010	-7.5	50.0
57 Dibromochloromethane	0.26052	0.29051	0.010	11.5	50.0
58 1,2-Dibromoethane	0.25368	0.25990	0.010	2.5	50.0
59 Chlorobenzene	0.86828	0.92654	0.300	6.7	50.0
60 1,1,1,2-Tetrachloroethane	0.30173	0.33698	0.010	11.7	50.0
61 Ethylbenzene	0.47415	0.50577	0.010	6.7	20.0
62 m + p-Xylene	0.57862	0.62530	0.010	8.1	50.0
M 63 Xylenes (total)	0.57858	0.62542	0.010	8.1	50.0
64 Xylene-o	0.57848	0.62564	0.010	8.2	50.0
65 Styrene	0.96858	1.03671	0.010	7.0	50.0
66 Bromoform	0.16174	0.18627	0.100	15.2	50.0
67 Isopropylbenzene	1.46263	1.58232	0.010	8.2	50.0
68 1,1,2,2-Tetrachloroethane	0.51628	0.51012	0.300	-1.2	50.0
69 1,4-Dichloro-2-butene	0.09732	0.15190	0.010	56.1	50.0
70 1,2,3-Trichloropropane	0.18402	0.17704	0.010	-3.8	50.0
71 Bromobenzene	0.63251	0.64092	0.010	1.3	50.0
72 n-Propylbenzene	0.70008	0.75416	0.010	7.7	50.0
73 2-Chlorotoluene	0.59080	0.62190	0.010	5.3	50.0
74 1,3,5-Trimethylbenzene	1.99544	2.14047	0.010	7.3	50.0
75 4-Chlorotoluene	0.61429	0.65075	0.010	5.9	50.0
76 tert-Butylbenzene	1.83544	1.96608	0.010	7.1	50.0

Handwritten notes:
 3/2/01
 2/13/01

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ993.D
 Report Date: 19-Dec-2000 09:57

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:09
 Lab File ID: UXJ993.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RF50	MIN RF50	MAX RF50
77 1,2,4-Trimethylbenzene	2.09717	2.19959	0.010
78 sec-Butylbenzene	2.51574	2.65961	0.010
79 4-Isopropyltoluene	2.25984	2.41792	0.010
80 1,3-Dichlorobenzene	1.28521	1.31499	0.010
81 1,4-Dichlorobenzene	1.34206	1.38840	0.010
82 n-Butylbenzene	1.99461	2.09582	0.010
83 1,2-Dichlorobenzene	1.26997	1.32014	0.010
84 1,2-Dibromo-3-chloropropane	0.12957	0.13171	0.010
85 1,2,4-Trichlorobenzene	1.09553	1.07482	0.010
86 Hexachlorobutadiene	0.45823	0.45183	0.010
87 Naphthalene	2.37236	2.21188	0.010
88 1,2,3-Trichlorobenzene	1.00323	0.93675	0.010
98 Cyclohexane	0.35226	0.44080	0.010
143 Methyl Acetate	0.17685	0.17512	0.010
144 Methylcyclohexane	0.37227	0.45762	0.010
141 1,3,5-Trichlorobenzene	1.13134	1.20769	0.010

Data File: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01219A.b\UXJ994.D
 Report Date: 19-Dec-2000 09:47

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 19-DEC-2000 09:32
 Lab File ID: UXJ994.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01219A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
14 Dichlorofluoromethane	0.39160	0.40851	0.010	4.3	50.0
89 Ethyl Ether	0.17718	0.18075	0.010	2.0	50.0
91 3-Chloropropene	0.12025	0.12296	0.010	2.3	50.0
92 Isopropyl Ether	0.21001	0.21626	0.010	3.0	50.0
93 2-Chloro-1,3-butadiene	0.34257	0.35140	0.010	2.6	50.0
94 Propionitrile	0.02877	0.02867	0.010	-0.3	50.0
95 Ethyl Acetate	0.17528	0.18914	0.010	7.9	50.0
96 Methacrylonitrile	0.12339	0.12715	0.010	3.0	50.0
97 Isobutanol	0.00682	0.00714	0.010	4.6	50.0
99 n-Butanol	0.00519	0.00588	0.010	13.3	50.0
100 Methyl Methacrylate	0.16511	0.16831	0.010	1.9	50.0
101 2-Nitropropane	0.03593	0.03849	0.010	7.1	50.0
103 Cyclohexanone	0.03292	0.03465	0.010	5.2	50.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP033
 Lab File ID: BFB038 BFB Injection Date: 12/20/00
 Instrument ID: A3UX11 BFB Injection Time: 0852
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	89.5
175	5.0 - 9.0% of mass 174	6.5 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.3 (96.4)1
177	5.0 - 9.0% of mass 176	5.4 (6.3)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UXJ1046	12/20/00	0913
02	VSTD010	50NG-A9CC	UXJ1047	12/20/00	0936
03	DRID7-CHK	DRID71AC	UXJ1048	12/20/00	0959
04	DRID7-BLK	DRID71AA	UXJ1049	12/20/00	1022
05	MPT-53-GW-DP	DRJ671A6 ⁰²	UXJ1054	12/20/00	1218
06	MPT-47-GW-DP	DRJ7P1AH ⁰⁹	UXJ1055	12/20/00	1241
07	MPT-47-GW-DP	DRJ7R1AH ¹³	UXJ1056	12/20/00	1304
08	MPT-47-GW-DP	DRJ7T1AH ¹⁴	UXJ1057	12/20/00	1327
09	TB1215001	DRJ7V1AA	UXJ1058	12/20/00	1350
10	MPT-53-GW-DP	DRJ671A8	UXJ1065	12/20/00	1631
11	MPT-53-GW-DP	DRJ671A9	UXJ1066	12/20/00	1654
12					
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Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\UXJ1046.D
 Report Date: 20-Dec-2000 10:00

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-DEC-2000 09:13
 Lab File ID: UXJ1046.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\8260LLUX11.m

COMPOUND	RRF	RP50	MIN RRF	%D	MAX %D
\$ 4 Dibromofluoromethane	0.20222	0.22392	0.010	10.7	50.0
\$ 5 1,2-Dichloroethane-d4	0.24222	0.26456	0.010	9.2	50.0
\$ 6 Toluene-d8	1.08025	1.15198	0.010	6.6	50.0
\$ 7 Bromofluorobenzene	0.42256	0.44138	0.010	4.5	50.0
8 Dichlorodifluoromethane	0.22095	0.22230	0.010	0.6	50.0
9 Chloromethane	0.25793	0.28613	0.100	10.9	50.0
10 Vinyl Chloride	0.24857	0.25357	0.010	2.0	20.0
11 Bromomethane	0.17719	0.21122	0.010	19.2	50.0
12 Chloroethane	0.16289	0.18525	0.010	13.7	50.0
13 Trichlorofluoromethane	0.31436	0.27975	0.010	-11.0	50.0
15 Acrolein	0.02377	0.03196	0.010	34.5	50.0
16 Acetone	0.08314	0.07621	0.010	-8.3	50.0
17 1,1-Dichloroethene	0.20103	0.19953	0.010	-0.7	20.0
18 Freon-113	0.19990	0.22834	0.010	14.2	50.0
19 Iodomethane	0.37263	0.38770	0.010	4.0	50.0
20 Carbon Disulfide	0.64904	0.63402	0.010	-2.3	50.0
21 Methylene Chloride	0.22212	0.22850	0.010	2.9	50.0
22 Acetonitrile	0.02590	0.02658	0.010	2.6	50.0
23 Acrylonitrile	0.08325	0.08079	0.010	-2.9	50.0
24 Methyl tert-butyl ether	0.66277	0.62292	0.010	-6.0	50.0
25 trans-1,2-Dichloroethene	0.22716	0.23882	0.010	5.1	50.0
26 Hexane	0.05352	0.05748	0.010	7.4	50.0
27 Vinyl acetate	0.18262	0.39472	0.010	116.1	50.0
28 1,1-Dichloroethane	0.36459	0.38897	0.100	6.7	50.0
29 tert-Butyl Alcohol	0.01790	0.01501	0.010	-16.1	50.0
30 2-Butanone	0.09101	0.08299	0.010	-8.8	50.0
M 31 1,2-Dichloroethene (total)	0.23263	0.24243	0.010	4.2	50.0
32 cis-1,2-dichloroethene	0.23811	0.24604	0.010	3.3	50.0
33 2,2-Dichloropropane	0.32921	0.34136	0.010	3.7	50.0
34 Bromochloromethane	0.12350	0.13010	0.010	5.3	50.0
35 Chloroform	0.35858	0.38215	0.010	6.6	20.0
36 Tetrahydrofuran	0.05652	0.05160	0.010	-8.7	50.0
37 1,1,1-Trichloroethane	0.34895	0.37872	0.010	8.5	50.0
38 1,1-Dichloropropene	0.28228	0.29827	0.010	5.7	50.0
39 Carbon Tetrachloride	0.29985	0.32836	0.010	9.5	50.0
40 1,2-Dichloroethane	0.29257	0.30760	0.010	5.1	50.0

39472 - 18262 / 18262 = 116
 555
 02/13/01

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-DEC-2000 09:13
 Lab File ID: UXJ1046.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
41 Benzene	0.88475	0.94238	0.010	6.5	50.0
42 Trichloroethene	0.26021	0.27080	0.010	4.1	50.0
43 1,2-Dichloropropane	0.20717	0.22089	0.010	6.6	20.0
44 1,4-Dioxane	0.00209	0.00218	0.010	4.5	50.0
45 Dibromomethane	0.12783	0.13319	0.010	4.2	50.0
46 Bromodichloromethane	0.25587	0.28460	0.010	11.2	50.0
47 2-Chloroethyl vinyl ether	0.11986	0.09779	0.010	-18.4	50.0
48 cis-1,3-Dichloropropene	0.33149	0.35974	0.010	8.5	50.0
49 4-Methyl-2-pentanone	0.18701	0.16823	0.010	-10.0	50.0
50 Toluene	1.27099	1.34233	0.010	5.6	20.0
51 trans-1,3-Dichloropropene	0.40826	0.43443	0.010	6.4	50.0
52 Ethyl Methacrylate	0.33658	0.33150	0.010	-1.5	50.0
53 1,1,2-Trichloroethane	0.24362	0.25080	0.010	2.9	50.0
54 1,3-Dichloropropane	0.43714	0.44527	0.010	1.9	50.0
55 Tetrachloroethene	0.28782	0.30030	0.010	4.3	50.0
56 2-Hexanone	0.17057	0.14744	0.010	-13.6	50.0
57 Dibromochloromethane	0.26052	0.28557	0.010	9.6	50.0
58 1,2-Dibromoethane	0.25368	0.25340	0.010	-0.1	50.0
59 Chlorobenzene	0.86828	0.91761	0.300	5.7	50.0
60 1,1,1,2-Tetrachloroethane	0.30173	0.33692	0.010	11.7	50.0
61 Ethylbenzene	0.47415	0.49860	0.010	5.2	20.0
62 m + p-Xylene	0.57862	0.61966	0.010	7.1	50.0
M 63 Xylenes (total)	0.57858	0.61804	0.010	6.8	50.0
64 Xylene-o	0.57848	0.61481	0.010	6.3	50.0
65 Styrene	0.96858	1.02779	0.010	6.1	50.0
66 Bromoform	0.16174	0.18157	0.100	12.3	50.0
67 Isopropylbenzene	1.46263	1.57958	0.010	8.0	50.0
68 1,1,1,2,2-Tetrachloroethane	0.51628	0.50951	0.300	-1.3	50.0
69 1,4-Dichloro-2-butene	0.09732	0.15493	0.010	59.2	50.0
70 1,2,3-Trichloropropane	0.18402	0.18246	0.010	-0.8	50.0
71 Bromobenzene	0.63251	0.66592	0.010	5.3	50.0
72 n-Propylbenzene	0.70008	0.74176	0.010	6.0	50.0
73 2-Chlorotoluene	0.59080	0.61564	0.010	4.2	50.0
74 1,3,5-Trimethylbenzene	1.99544	2.14096	0.010	7.3	50.0
75 4-Chlorotoluene	0.61429	0.66072	0.010	7.6	50.0
76 tert-Butylbenzene	1.83544	2.00102	0.010	9.0	50.0

Scout
 PSS
 02/15/01

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\UXJ1046.D
 Report Date: 20-Dec-2000 10:00

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-DEC-2000 09:13
 Lab File ID: UXJ1046.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: SONG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\8260LLUX11.m

COMPOUND	RRF	RP50	MIN RRF	%D	MAX %D
77 1,2,4-Trimethylbenzene	2.09717	2.22665	0.010	6.2	50.0
78 sec-Butylbenzene	2.51574	2.63217	0.010	4.6	50.0
79 4-Isopropyltoluene	2.25984	2.43657	0.010	7.8	50.0
80 1,3-Dichlorobenzene	1.28521	1.35036	0.010	5.1	50.0
81 1,4-Dichlorobenzene	1.34206	1.40377	0.010	4.6	50.0
82 n-Butylbenzene	1.99461	2.10178	0.010	5.4	50.0
83 1,2-Dichlorobenzene	1.26997	1.32810	0.010	4.6	50.0
84 1,2-Dibromo-3-chloropropane	0.12957	0.13327	0.010	2.9	50.0
85 1,2,4-Trichlorobenzene	1.09553	1.10231	0.010	0.6	50.0
86 Hexachlorobutadiene	0.45823	0.45437	0.010	-0.8	50.0
87 Naphthalene	2.37236	2.25912	0.010	-4.8	50.0
88 1,2,3-Trichlorobenzene	1.00323	0.97089	0.010	-3.2	50.0
98 Cyclohexane	0.35226	0.39419	0.010	11.9	50.0
143 Methyl Acetate	0.17685	0.13125	0.010	-25.8	50.0
144 Methylcyclohexane	0.37227	0.40350	0.010	8.4	50.0
141 1,3,5-Trichlorobenzene	1.13134	1.16106	0.010	2.6	50.0

Data File: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01220A.b\UXJ1047.D
 Report Date: 20-Dec-2000 09:52

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-DEC-2000 09:36
 Lab File ID: UXJ1047.D Init. Cal. Date(s): 09-NOV-2000 13-DEC-2000
 Analysis Type: WATER Init. Cal. Times: 17:49 13:12
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J01220A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	RD	MAX RD
14 Dichlorofluoromethane	0.39160	0.39925	0.010	2.0	50.0
89 Ethyl Ether	0.17718	0.17589	0.010	-0.7	50.0
91 3-Chloropropene	0.12025	0.12289	0.010	2.2	50.0
92 Isopropyl Ether	0.21001	0.21192	0.010	0.9	50.0
93 2-Chloro-1,3-butadiene	0.34257	0.33480	0.010	-2.3	50.0
94 Propionitrile	0.02877	0.02827	0.010	-1.8	50.0
95 Ethyl Acetate	0.17528	0.17915	0.010	2.2	50.0
96 Methacrylonitrile	0.12339	0.11886	0.010	-3.7	50.0
97 Isobutanol	0.00682	0.00665	0.010	-2.6	50.0
99 n-Butanol	0.00519	0.00537	0.010	3.5	50.0
100 Methyl Methacrylate	0.16511	0.16454	0.010	-0.3	50.0
101 2-Nitropropane	0.03593	0.03766	0.010	4.8	50.0
103 Cyclohexanone	0.03292	0.02750	0.010	-16.5	50.0

CLIENT <i>NS Maxport</i>	JOB NUMBER		
SUBJECT <i>Sample Calculation</i>			
BASED ON <i>MPT-53-GW-DPW02</i>		DRAWING NUMBER	
BY <i>DSS</i>	CHECKED BY	APPROVED BY	DATE <i>02/13/01</i>

Fraction: Volatile

Matrix: Groundwater

Compound: Methylene chloride

Form I Final Result. $1.1 \mu\text{g/L}$

$A_x = 23670 \text{ Area}$

$I_s = 50 \text{ ng}$

$DF = 1$

$A_{is} = 998037 \text{ Area}$

$\overline{RRF} = 0.222$

$V_0 = 5.0 \text{ ml}$

$$\mu\text{g/L} = \frac{A_x (I_s) (DF)}{A_{is} (\overline{RRF}) (V_0)}$$

$$\mu\text{g/L} = \frac{23670 \text{ Area} (50 \text{ ng}) (1)}{998037 \text{ Area} (0.222) (5.0 \text{ ml})}$$

$$= 1.068 \text{ ng/ml} \approx 1.1 \mu\text{g/L}$$

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\UXJ1054.D
 Report Date: 21-Dec-2000 08:23

STL - North Canton

VOLATILE REPORT SW-846 Method

Data file : \\qcanoh04\dd\chem\MSV\a3ux11.i\J01220A.b\UXJ1054.D
 Lab Smp Id: DRJ671A6 Client Smp ID: MPT-53-GW-DPW02
 Inj Date : 20-DEC-2000 12:18
 Operator : 01715 Inst ID: a3ux11.i
 Smp Info : DRJ671A6,5ML/5ML
 Misc Info : J01220A,8260LLUX11,,01715
 Comment :
 Method : \\QCANOH04\dd\chem\MSV\a3ux11.i\J01220A.b\8260LLUX11.m
 Meth Date : 21-Dec-2000 08:17 mccroryj Quant Type: ISTD
 Cal Date : 13-DEC-2000 11:16 Cal File: UXJ824.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+ix.sub
 Target Version: 4.04
 Processing Host: QCANOH05

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.120	5.120	(1.000)	998037	50.0000	
* 2 Chlorobenzene-d5	117	7.782	7.782	(1.000)	764035	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.019	10.018	(1.000)	476473	50.0000	
\$ 4 Dibromofluoromethane	113	4.552	4.563	(0.889)	213090	52.7911	10.558
\$ 5 1,2-Dichloroethane-d4	65	4.836	4.836	(0.945)	246823	51.0494	10.210
\$ 6 Toluene-d8	98	6.469	6.480	(0.831)	843955	51.1273	10.225
\$ 7 Bromofluorobenzene	95	8.894	8.894	(1.143)	313823	48.6023	9.720
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.777	2.789	(0.542)	27931	16.8311	3.366
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					

Data File: \\gcanoh04\dd\chem\MSV\A3UX11.I\J01220A.B\UXJ1054.D
 Report Date: 21-Dec-2000 08:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142				Compound Not Detected.		
20 Carbon Disulfide	76				Compound Not Detected.		
21 Methylene Chloride	84	3.156	3.155	(0.616)	23670	5.33861	1.068
22 Acetonitrile	41				Compound Not Detected.		
23 Acrylonitrile	53				Compound Not Detected.		
24 Methyl tert-butyl ether	73				Compound Not Detected.		
25 trans-1,2-Dichloroethene	96				Compound Not Detected.		
26 Hexane	86				Compound Not Detected.		
27 Vinyl acetate	43				Compound Not Detected.		
28 1,1-Dichloroethane	63				Compound Not Detected.		
29 tert-Butyl Alcohol	59				Compound Not Detected.		
30 2-Butanone	43	4.173	4.161	(0.815)	9054	4.98400	0.9968
M 31 1,2-Dichloroethene (total)	96				Compound Not Detected.		
32 cis-1,2-dichloroethene	96				Compound Not Detected.		
33 2,2-Dichloropropane	77				Compound Not Detected.		
34 Bromochloromethane	128				Compound Not Detected.		
35 Chloroform	83				Compound Not Detected.		
36 Tetrahydrofuran	42				Compound Not Detected.		
37 1,1,1-Trichloroethane	97				Compound Not Detected.		
38 1,1-Dichloropropene	75				Compound Not Detected.		
39 Carbon Tetrachloride	117				Compound Not Detected.		
40 1,2-Dichloroethane	62				Compound Not Detected.		
41 Benzene	78				Compound Not Detected.		
42 Trichloroethene	130				Compound Not Detected.		
43 1,2-Dichloropropane	63				Compound Not Detected.		
44 1,4-Dioxane	88				Compound Not Detected.		
45 Dibromomethane	93				Compound Not Detected.		
46 Bromodichloromethane	83				Compound Not Detected.		
47 2-Chloroethyl vinyl ether	63				Compound Not Detected.		
48 cis-1,3-Dichloropropene	75				Compound Not Detected.		
49 4-Methyl-2-pentanone	43				Compound Not Detected.		
50 Toluene	91				Compound Not Detected.		
51 trans-1,3-Dichloropropene	75				Compound Not Detected.		
52 Ethyl Methacrylate	69				Compound Not Detected.		
53 1,1,2-Trichloroethane	97				Compound Not Detected.		
54 1,3-Dichloropropane	76				Compound Not Detected.		
55 Tetrachloroethene	164				Compound Not Detected.		
56 2-Hexanone	43				Compound Not Detected.		
57 Dibromochloromethane	129				Compound Not Detected.		
58 1,2-Dibromoethane	107				Compound Not Detected.		
59 Chlorobenzene	112				Compound Not Detected.		
60 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
61 Ethylbenzene	106				Compound Not Detected.		
62 m + p-Xylene	106				Compound Not Detected.		
M 63 Xylenes (total)	106				Compound Not Detected.		
64 Xylene-o	106				Compound Not Detected.		
65 Styrene	104				Compound Not Detected.		

UX11

Batch # 0356137

175# 0356123

STL-North Canton
GC/MS VOA Run Log

12/19

Date: 12/20/00

Column	BFB	Analysis	Purge & Trap
Type: <u>DB24</u>	100 C for 21 min	45 C for 2 min	Trap: <u>10</u>
Length <u>20 M</u>	to 200 C @ 20 C/min	to 200 C @ 15 C/min	Purge: <u>11</u>
I.D. <u>0.18 mm</u>	Hold <u>1</u> min	to <u>1</u> C @ <u>1</u> C/min	Desorb: <u>1</u> min @ 200 C
Flow Rate <u>0.4 ml/min</u>		Hold <u>3.5</u> min	Bake: <u>5</u> min @ 200 C

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Sample prep	Comments	Sample status	Level 2 Review
1	DR52-1AA		DR52-1AA	50		Int'l G:	OK	TS
2	DR53-1AA		DR53-1AA	50		TO1228	OK	
3	DR54-1AA		DR54-1AA	50		TO1213	OK	
4	DR55-1AA		DR55-1AA	50			OK	
5	DR56-1AA		DR56-1AA	50			OK	
5	DR52-1AA		50	3ml/5ml		POL160122	OK	
6	DR53-1AA	E	51	5ml/5ml		POL160208	OK	
7	DR54-1AA		52	0.55ml/5ml			OK	
8	DR55-1AA		53	5ml/5ml			OK	
9	DR56-1AA		54			POL160216	OK	
10	DR57-1AA		55				OK	
11	DR58-1AA		56				OK	
12	DR59-1AA		57				OK	
13	DR60-1AA		58				OK	
14	DR61-1AA		59			POL160135	OK	
15	DR62-1AA		60			POL140255	OK	
16	DR63-1AA	T	61			POL150154	OK	
17	DR64-1AA		62				OK	
18	DR65-1AA		63				OK	
19	DR66-1AA		64				OK	
20	DR67-1AA		65				OK	
21	DR68-1AA		66				OK	
22	DR69-1AA		67	0.6ml/5ml	+100	POL150150	OK	
23	DR70-1AA		68	5ml/5ml	+100		OK	
24	DR71-1AA		69				OK	
25	DR72-1AA		70				OK	
26	DR73-1AA		71	1.5ml/5ml		diluted	OK	

0/27

**SDG NARRATIVE
MP033**

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: A0L160000 095

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRJWR1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %: NA

QC Batch: 0351095

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WATER

Lab Sample ID: A0L160000 095

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRJWR1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %: NA

QC Batch: 0351095

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: A0L160000 095

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRJWR1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %: NA

QC Batch: 0351095

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
77-47-4	Hexachlorocyclopentadiene	10		U
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WATER

Lab Sample ID: A0L160000 095

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/15/00

Work Order: DRJWR1AA

Date Extracted: 12/16/00

Dilution factor: 1

Date Analyzed: 12/22/00

Moisture %: NA

QC Batch: 0351095

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: A0L160000 095
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/15/00
Work Order: DRJWR1AA Date Extracted: 12/16/00
Dilution factor: 1 Date Analyzed: 12/22/00
Moisture %: NA

QC Batch: 0351095

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: AOL180000 103
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/16/00
Work Order: DRKT41AA Date Extracted: 12/18/00
Dilution factor: 1 Date Analyzed: 01/02/01
Moisture %: NA

QC Batch: 0353103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WATER

Lab Sample ID: A0L180000 103

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRKT41AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %: NA

QC Batch: 0353103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP033

Matrix: (soil/water) WATER Lab Sample ID: AOL180000 103
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 12/16/00
Work Order: DRKT41AA Date Extracted: 12/18/00
Dilution factor: 1 Date Analyzed: 01/02/01
Moisture %: NA

QC Batch: 0353103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP033

Matrix: (soil/water) WATER

Lab Sample ID: AOL180000 103

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 12/16/00

Work Order: DRKT41AA

Date Extracted: 12/18/00

Dilution factor: 1

Date Analyzed: 01/02/01

Moisture %: NA

QC Batch: 0353103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP033
 Lab File ID: 8DF1218 DFTPP Injection Date: 12/18/00
 Instrument ID: A4HP8 DFTPP Injection Time: 1511

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.8
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	51.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than mass 443	7.9
442	Greater than 40.0% of mass 198	51.1
443	17.0 - 23.0% of mass 442	9.2 (18.1)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	8SML218	12/18/00	1536
02	SSTD010	SSTD010	8SML1218	12/18/00	1623
03	SSTD004	SSTD004	8SL1218	12/18/00	1701
04	SSTD024	SSTD024	8SMH1218	12/18/00	1740
05	SSTD032	SSTD032	8SH1218	12/18/00	1818
06	SSTD040	SSTD040	8SHH1218	12/18/00	1856
07	ASTD016	ASTD016	8AML218	12/18/00	1935
08	ASTD010	ASTD010	8AML1218	12/18/00	2012
09	ASTD004	ASTD004	8AL1218	12/18/00	2050
10	ASTD024	ASTD024	8AMH1218	12/18/00	2128
11	ASTD032	ASTD032	8AH1218	12/18/00	2207
12	ASTD042	ASTD042	8AHH1218	12/18/00	2245
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 15:36
 End Cal Date : 18-DEC-2000 22:45
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\82701.m
 Cal Date : 20-Dec-2000 08:35 ulmanm
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\8AL1218.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\8AML1218.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\8AM1218.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\8AMH1218.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\8AH1218.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\8AHH1218.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.52660	0.49177	0.77629	0.51343	0.52595	0.58119	0.56920	18.563
7 N-Nitrosomorpholine	1.12726	1.16187	1.10823	1.25690	1.25469	1.22231	1.18854	5.466
8 Ethyl methanesulfonate	1.51231	1.55388	1.52255	1.70369	1.69823	1.65174	1.60707	5.467
9 Pyridine	1.37152	1.48014	1.53009	1.53152	1.59770	1.63899	1.52499	6.145
10 N-Nitrosodimethylamine	0.90746	0.98549	1.01157	1.01137	1.02099	1.07041	1.00121	5.365
11 Ethyl methacrylate	1.61475	1.68057	1.62223	1.57549	1.61195	1.59194	1.61615	2.222
12 3-Chloropropionitrile	0.81537	0.84502	0.80061	0.82925	0.84228	0.84014	0.82878	2.124
13 Malononitrile	1.73943	1.71052	1.67356	1.72378	1.70158	1.75753	1.71774	1.718
14 2-Picoline	1.55869	1.55118	1.89765	1.71015	1.72035	1.78447	1.70375	7.820
15 N-Nitrosomethylethylamine	0.82811	0.85624	0.86026	0.94906	0.93605	0.92231	0.89201	5.601
16 Methyl methanesulfonate	1.36035	1.38865	1.21517	1.47374	1.41930	1.40112	1.37639	6.361
18 1,3-Dichloro-2-propanol	1.91919	1.95198	2.09038	2.11693	2.09863	2.10658	2.04728	4.278
19 N-Nitrosodiethylamine	0.84939	0.86180	0.85576	0.96511	0.95557	0.94276	0.90507	6.047
21 Aniline	2.41989	2.34894	2.37651	2.46163	2.49185	2.53240	2.43854	2.865
22 Phenol	2.08516	1.99025	1.99479	2.02793	2.01990	2.07140	2.03157	1.928
23 bis(2-Chloroethyl) ether	1.56546	1.51509	1.49048	1.52576	1.53895	1.52624	1.52700	1.631
24 2-Chlorophenol	1.30411	1.24571	1.23757	1.26911	1.27153	1.30120	1.27154	2.159
25 Pentachloroethane	0.53000	0.50409	0.60287	0.55917	0.55321	0.56381	0.55219	6.039
26 1,3-Dichlorobenzene	1.45221	1.39427	1.35998	1.37825	1.40647	1.42790	1.40318	2.383
27 1,4-Dichlorobenzene	1.51175	1.43568	1.41459	1.43783	1.45070	1.46677	1.45288	2.314
28 1,2-Dichlorobenzene	1.37518	1.30927	1.29235	1.31251	1.32072	1.35319	1.32720	2.328
29 Benzyl Alcohol	0.97143	0.96463	0.96667	1.00853	1.01032	1.01836	0.98999	2.513
30 2-Methylphenol	1.41059	1.35002	1.35738	1.39230	1.39157	1.40853	1.38507	1.852
31 bis(2-Chloroisopropyl) ether	1.54929	1.49806	1.44732	1.45938	1.46326	1.43986	1.47620	2.781
32 N-Nitroso-di-n-propylamine	1.48898	1.43382	1.43479	1.47466	1.46485	1.42856	1.45428	1.737

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 15:36
 End Cal Date : 18-DEC-2000 22:45
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\82701.m
 Cal Date : 20-Dec-2000 08:35 ulmanm
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.87094	2.76829	2.80978	2.89942	2.91731	2.97159	2.87289	2.574
192 4-Methylphenol	1.46035	1.41827	1.45240	1.50711	1.52574	1.56306	1.48782	3.597
193 3-Methylphenol	1.62765	1.62968	1.58463	1.87014	1.90670	1.88942	1.75137	8.667
34 Hexachloroethane	0.60415	0.60684	0.60039	0.60503	0.60673	0.61868	0.60697	1.022
35 Nitrobenzene	0.58065	0.55068	0.55442	0.57089	0.56742	0.57139	0.56591	1.997
36 N-Nitrosopyrrolidine	0.80200	0.85694	0.81663	0.96004	0.96612	0.95447	0.89270	8.536
37 Acetophenone	2.50955	2.51270	2.42338	2.78836	2.78850	2.73670	2.62653	6.197
39 o-Toluidine	2.54281	2.61493	2.53132	2.94486	2.97350	2.92453	2.75532	7.737
40 N-Nitrosopiperidine	0.18544	0.18632	0.19657	0.20545	0.20586	0.20722	0.19781	5.046
41 Isophorone	0.93683	0.93148	0.94341	0.97336	0.97771	0.96528	0.95468	2.082
42 2-Nitrophenol	0.16333	0.16846	0.17062	0.18020	0.18212	0.18677	0.17525	5.192
43 2,4-Dimethylphenol	0.43475	0.42116	0.42050	0.43743	0.43694	0.44554	0.43272	2.291
44 bis(2-Chloroethoxy)methane	0.49959	0.47636	0.48180	0.49582	0.49636	0.49658	0.49109	1.944
45 O,O,O-Triethyl phosphorothioa	0.20311	0.20218	0.21506	0.22173	0.22397	0.22609	0.21536	4.886
46 2,4-Toluenediamene	0.12608	0.04838	0.04598	0.06495	0.08595	0.09084	0.07703	39.409
47 1,3,5-Trichlorobenzene	0.34435	0.32409	0.32229	0.33367	0.33444	0.34563	0.33408	2.926
48 2,4-Dichlorophenol	0.28019	0.27242	0.27413	0.28450	0.28762	0.29429	0.28219	2.947
49 Benzoic Acid	0.09419	0.13108	0.13303	0.12761	0.12561	0.14464	0.12603	13.455
50 1,2,4-Trichlorobenzene	0.32545	0.31050	0.30781	0.31930	0.32177	0.32636	0.31853	2.430
51 Naphthalene	1.02429	0.98075	0.97407	1.00870	1.01852	1.03686	1.00720	2.472
52 4-Chloroaniline	0.35357	0.34565	0.36192	0.38042	0.38348	0.38968	0.36912	4.848
53 a,a-Dimethyl-phenethylamine	0.55660	0.62626	0.70149	0.72894	0.77176	0.79542	0.69674	13.002
54 2,6-Dichlorophenol	0.28870	0.28871	0.30418	0.31733	0.31801	0.32273	0.30661	4.950
55 Hexachloropropene	0.22958	0.23188	0.24919	0.26083	0.26971	0.27504	0.25271	7.580
56 Hexachlorobutadiene	0.20440	0.18935	0.19360	0.20238	0.20090	0.20735	0.19966	3.424
57 1,2,3-Trichlorobenzene	0.31917	0.30131	0.29676	0.31022	0.31198	0.31919	0.30977	2.970
58 N-Nitrosodi-n-butylamine	0.33370	0.34616	0.36780	0.38156	0.37814	0.38554	0.36548	5.752
59 4-Chloro-3-Methylphenol	0.36923	0.36128	0.37224	0.39082	0.39501	0.38807	0.37944	3.599
60 p-Phenylene diamine	0.25927	0.27771	0.34586	0.33459	0.34253	0.36072	0.32011	12.898
61 Safrole	0.30055	0.29985	0.31586	0.33076	0.33254	0.33773	0.31955	5.214
62 2-Methylnaphthalene	0.63743	0.62014	0.62026	0.65115	0.66064	0.65797	0.64126	2.836
63 1-Methylnaphthalene	0.63479	0.60685	0.61368	0.63751	0.65079	0.64545	0.63151	2.778
64 Hexachlorocyclopentadiene	0.34308	0.38231	0.35904	0.39333	0.38451	0.45487	0.38619	9.949

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 15:36
 End Cal Date : 18-DEC-2000 22:45
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\44hp8.i\01218a.b\82701.m
 Cal Date : 20-Dec-2000 08:35 ulmanm
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.61389	0.56465	0.64289	0.62819	0.63928	0.64441	0.62222	4.890
66 2,4,6-Trichlorophenol	0.33564	0.34427	0.33312	0.35322	0.35568	0.37092	0.34881	4.046
67 2,4,5-Trichlorophenol	0.34206	0.35039	0.34763	0.36538	0.37438	0.38617	0.36100	4.769
68 1,2,3,5-Tetrachlorobenzene	0.56319	0.53705	0.53181	0.54810	0.55676	0.59012	0.55451	3.791
69 1,4-Dinitrobenzene	0.16807	0.18008	0.19953	0.20917	0.21152	0.21920	0.19793	10.045
70 2-Chloronaphthalene	1.08560	1.05438	1.03240	1.06603	1.08146	1.11685	1.07278	2.701
71 Isosafrole 1	0.14686	0.13974	0.15823	0.15356	0.15524	0.15677	0.15173	4.668
M 188 Isosafrole, Total	1.08459	1.07845	1.20862	1.21540	1.24214	1.25882	1.18134	6.724
72 Isosafrole 2	0.93773	0.93871	1.05039	1.06183	1.08690	1.10205	1.02960	7.098
73 2-Nitroaniline	0.40495	0.42498	0.44982	0.45678	0.45864	0.45339	0.44142	4.908
74 1,2,3,4-Tetrachlorobenzene	0.51068	0.48857	0.48022	0.49417	0.50225	0.52378	0.49995	3.151
75 1,4-Naphthoquinone	0.34293	0.37009	0.39344	0.39106	0.36648	0.36300	0.37117	5.082
76 Dimethylphthalate	1.20605	1.18119	1.17109	1.19018	1.21115	1.19203	1.19195	1.257
77 m-Dinitrobenzene	0.19048	0.19864	0.22047	0.22912	0.22743	0.23754	0.21728	8.560
78 2,6-Dinitrotoluene	0.24913	0.25783	0.26258	0.27021	0.28020	0.27008	0.26500	4.110
79 Acenaphthylene	1.70168	1.65488	1.65004	1.70101	1.74912	1.76909	1.70430	2.827
80 1,2-Dinitrobenzene	0.12416	0.12365	0.13147	0.13626	0.13993	0.13323	0.13145	4.956
81 3-Nitroaniline	0.20566	0.20081	0.22388	0.22468	0.22962	0.21914	0.21730	5.288
82 Acenaphthene	1.07222	1.03892	1.02353	1.05177	1.07738	1.08328	1.05785	2.240
83 2,4-Dinitrophenol	0.09633	0.11956	0.12211	0.13953	0.14411	0.13972	0.12689	14.235
84 Pentachlorobenzene	0.49008	0.47936	0.53897	0.54498	0.54931	0.56303	0.52762	6.507
85 4-Nitrophenol	0.18805	0.19654	0.21142	0.22239	0.22615	0.20894	0.20892	7.012
86 Dibenzofuran	1.42340	1.39750	1.39383	1.42741	1.47608	1.46921	1.43124	2.434
87 2,4-Dinitrotoluene	0.34143	0.35080	0.36820	0.37563	0.39435	0.36357	0.36566	5.104
88 2,3,4,6-Tetrachlorophenol	0.22406	0.24295	0.27199	0.29712	0.29447	0.30544	0.27267	12.044
89 1-Naphthylamine	0.84429	0.85147	1.01831	1.06192	1.06649	1.10611	0.99143	11.563
90 Zinophos	0.35228	0.35164	0.39476	0.39124	0.39377	0.39875	0.38041	5.828
91 2,3,5,6-Tetrachlorophenol	0.25809	0.27397	0.27323	0.29533	0.30965	0.30387	0.28569	7.091
92 2-Naphthylamine	0.85655	0.82848	0.97217	1.02363	1.03355	1.07138	0.96429	10.360
93 Diethylphthalate	1.28465	1.27241	1.26958	1.29591	1.32394	1.24247	1.28149	2.142
94 Fluorene	1.18927	1.15782	1.17388	1.20333	1.24768	1.22129	1.19888	2.717
95 4-Chlorophenyl-phenylether	0.62383	0.60806	0.61258	0.63226	0.65029	0.63464	0.62694	2.477
96 4-Nitroaniline	0.19494	0.20398	0.22544	0.22626	0.22891	0.19856	0.21302	7.272

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 15:36
 End Cal Date : 18-DEC-2000 22:45
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\82701.m
 Cal Date : 20-Dec-2000 08:35 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
97 5-Nitro-o-toluidine	0.27113	0.27793	0.30529	0.33352	0.32996	0.34656	0.31073	10.019
98 4,6-Dinitro-2-methylphenol	0.10269	0.12189	0.12222	0.13737	0.14185	0.14191	0.12799	12.027
99 N-Nitrosodiphenylamine	0.53180	0.52299	0.51137	0.52567	0.52587	0.57787	0.53259	4.352
100 1,2-Diphenylhydrazine	1.13333	1.15126	1.11236	1.12986	1.11350	1.22926	1.14493	3.820
101 Diphenylamine	0.53180	0.52299	0.51137	0.52567	0.52587	0.57787	0.53259	4.352
102 Tetraethyl dithiopyrophosphat	0.12189	0.11470	0.13095	0.12219	0.12612	0.12558	0.12357	4.408
103 Diallate 1	0.89441	0.89533	1.04565	0.95407	0.97407	0.97382	0.95623	5.945
M 189 Diallate, Total	3.91738	4.10562	4.01086	4.62284	4.58227	4.56037	4.29989	7.496
104 Phorate	0.17055	0.17227	0.19862	0.18637	0.19367	0.19337	0.18581	6.366
105 1,3,5-Trinitrobenzene	0.07092	0.08547	0.09303	0.10610	0.10446	0.10753	0.09459	15.272
106 4-Bromophenyl-phenylether	0.21616	0.21483	0.21135	0.21697	0.21736	0.23673	0.21890	4.111
107 Hexachlorobenzene	0.21649	0.21221	0.20292	0.21375	0.21515	0.22976	0.21505	4.029
108 Phenacetin	0.43111	0.44658	0.50105	0.51139	0.52295	0.52655	0.48994	8.343
109 Diallate 2	0.13946	0.13821	0.15969	0.14216	0.14578	0.14640	0.14528	5.354
110 Dimethoate	0.36658	0.37757	0.42014	0.42071	0.41006	0.40003	0.39918	5.659
111 Pentachlorophenol	0.09799	0.11499	0.11448	0.12910	0.13572	0.13530	0.12126	12.199
112 Pentachloronitrobenzene	0.11911	0.12290	0.14285	0.13048	0.12980	0.12965	0.12913	6.290
113 4-Aminobiphenyl	0.67908	0.65938	0.76228	0.72456	0.73886	0.74926	0.71890	5.688
114 Pronamide	0.36055	0.35836	0.40670	0.38945	0.39907	0.39973	0.38564	5.452
115 Phenanthrene	1.11660	1.07676	1.05345	1.09222	1.11598	1.10399	1.09317	2.254
116 Anthracene	1.04787	1.04253	1.03121	1.07131	1.10428	1.08961	1.06447	2.699
117 Dinoseb	0.17587	0.21472	0.22447	0.26022	0.27390	0.27988	0.23818	16.922
118 Disulfoton	0.55102	0.53503	0.62468	0.58593	0.60141	0.60049	0.58310	5.798
119 Carbazole	0.82471	0.83029	0.83621	0.84956	0.87513	0.80154	0.83624	2.959
120 Di-n-Butylphthalate	1.35273	1.38181	1.33325	1.36742	1.38955	1.32399	1.35812	1.934
121 4-Nitroquinoline 1-oxide	0.08646	0.10835	0.11851	0.14990	0.14853	0.15002	0.12696	21.079
122 Methapyrilene	0.28079	0.25325	0.22911	0.26520	0.23698	0.24532	0.25178	7.533
123 Fluoranthene	1.11415	1.11318	1.09135	1.10594	1.19992	0.98854	1.10218	6.135
124 Benzidine	0.47325	0.48383	0.56382	0.57855	0.54483	0.59690	0.54020	9.412
125 Pyrene	1.32720	1.26317	1.28657	1.33907	1.22683	1.47272	1.31926	6.500
126 Aramite 1	0.07419	0.08682	0.08652	0.08705	0.08877	0.08603	0.08490	6.272
M 191 Aramite, Total	0.59663	0.64527	0.59151	0.80830	0.73278	0.72658	0.68351	12.642
127 Aramite 2	0.10255	0.12149	0.12675	0.12117	0.12420	0.12155	0.11962	7.219

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 15:36
 End Cal Date : 18-DEC-2000 22:45
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\82701.m
 Cal Date : 20-Dec-2000 08:35 ulmanm
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	RSD
128 p-Dimethylamino azobenzene	0.27344	0.31141	0.33267	0.33316	0.33889	0.33918	0.32146	7.977
129 p-Chlorobenzilate	0.53364	0.58668	0.62206	0.58029	0.58235	0.57497	0.58000	4.873
130 Famphur	0.56105	0.42115	0.52024	0.12895	0.07268	0.05099	0.29251	80.019 <-
131 Butylbenzylphthalate	0.60654	0.63278	0.64447	0.62853	0.60736	0.64214	0.62697	2.645
132 3,3'-Dimethylbenzidine	0.49902	0.50463	0.72060	0.48708	0.44517	0.44088	0.51623	20.089
133 3,3'-Dimethoxybenzidine	0.19326	0.18578	0.19449	0.22049	0.24084	0.24608	0.21349	12.209
134 2-Acetylaminofluorene	0.42706	0.43890	0.46692	0.48991	0.47101	0.46995	0.46062	5.036
135 3,3'-Dichlorobenzidine	0.37072	0.36885	0.36958	0.37681	0.38832	0.37982	0.37568	2.016
136 Benzo(a)Anthracene	1.23233	1.17210	1.17833	1.21859	1.23872	1.23142	1.21192	2.412
137 Chrysene	1.13616	1.06482	1.04562	1.06883	1.05344	1.07122	1.07335	3.007
138 4,4'-Methylene bis(o-chloroan	0.23266	0.21796	0.21975	0.21934	0.22267	0.22275	0.22252	2.390
139 bis(2-ethylhexyl)Phthalate	0.92841	0.94139	0.90197	0.90940	0.89207	0.94028	0.91892	2.256
140 Di-n-octylphthalate	1.63493	1.89550	1.83468	1.89795	2.06702	1.82044	1.85842	7.549
141 Benzo(b)fluoranthene	1.21425	1.21888	1.21731	1.24241	1.26030	1.22148	1.22910	1.488
142 Benzo(k)fluoranthene	1.26242	1.22779	1.21475	1.28156	1.32078	1.23882	1.25769	3.113
143 7,12-dimethylbenz(a)anthracen	0.72956	0.74044	0.74649	0.93455	0.91692	0.95213	0.83668	12.897
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.06104	1.03708	1.03750	1.08574	1.09481	1.07332	1.06491	2.277
148 3-Methylcholanthrene	0.74841	0.74567	0.67645	0.88867	0.89957	0.90415	0.81049	12.195
149 Indeno(1,2,3-cd)pyrene	0.82278	0.80240	0.85107	0.90779	0.89574	0.97077	0.87509	7.090
150 Dibenz(a,h)anthracene	0.78176	0.80267	0.83925	0.90419	0.89867	0.96767	0.86570	8.116
151 Benzo(g,h,i)perylene	0.84749	0.81589	0.85882	0.90221	0.88387	0.96017	0.87807	5.701
199 o-Ethylphenol	++++	++++	++++	++++	++++	++++	++++	++++ <-
200 m,p-Ethylphenol	++++	++++	++++	++++	++++	++++	++++	++++ <-
201 3-Picoline	1.64264	1.65539	1.72985	1.85363	1.86281	1.89613	1.77341	6.300
202 N,N-Dimethylacetamide	1.12664	1.20829	1.10768	1.35642	1.36452	1.34533	1.25148	9.504
203 Benzaldehyde	1.53603	1.49690	1.45265	1.44258	1.44076	1.36787	1.45613	3.917
204 Caprolactam	0.09134	0.09864	0.10658	0.11281	0.11638	0.10730	0.10551	8.726
205 1,1'-Biphenyl	1.36089	1.30731	1.28276	1.32362	1.36028	1.40901	1.34065	3.372
206 Atrazine	0.20354	0.20259	0.19640	0.18907	0.18352	0.17215	0.19121	6.344
207 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 15:36
 End Cal Date : 18-DEC-2000 22:45
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\01218a.b\82701.m
 Cal Date : 20-Dec-2000 08:35 ulmanm
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	± RSD
\$ 154 Nitrobenzene-d5	0.57868	0.56888	0.56603	0.58583	0.58350	0.58569	0.57810	1.503
\$ 155 2-Fluorobiphenyl	1.24204	1.19140	1.16609	1.20229	1.21718	1.25796	1.21283	2.775
\$ 156 Terphenyl-d14	0.92386	0.88400	0.91897	0.95115	0.88817	1.03642	0.93376	6.003
\$ 157 Phenol-d5	1.84423	1.78526	1.78519	1.84785	1.82871	1.88549	1.82946	2.132
\$ 158 2-Fluorophenol	1.35317	1.35430	1.32432	1.32751	1.33437	1.36654	1.34337	1.267
\$ 159 2,4,6-Tribromophenol	0.10986	0.11328	0.11512	0.12489	0.12957	0.12159	0.11905	6.337
\$ 186 2-Chlorophenol-d4	1.16160	1.11655	1.10819	1.14288	1.13629	1.16383	1.13822	2.003
\$ 187 1,2-Dichlorobenzene-d4	0.90630	0.86338	0.84699	0.86927	0.86953	0.88015	0.87260	2.266

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP033

Lab File ID: 8DF1222A

DFTPP Injection Date: 12/22/00

Instrument ID: A4HP8

DFTPP Injection Time: 0925

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.5
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Mass 69 relative abundance	60.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	52.1
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than mass 443	8.1
442	Greater than 40.0% of mass 198	50.3
443	17.0 - 23.0% of mass 442	10.0 (20.0)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	8SML222	12/22/00	0946
02	ASTD016	ASTD016	8AML222	12/22/00	1023
03	DRJWRBLK	DRJWR1AA	DRJWR1AA	12/22/00	1332
04	DRJWRCHK	DRJWR1AC	DRJWR1AC	12/22/00	1409
05	MPT-47-EB01	DRHED1AA	DRHED1AA	12/22/00	1447
06	MPT-47-GW-DP	DRHEL1AK 06	DRHEL1AK	12/22/00	1525
07	MPT-47-GW-DP	DRHE41AK 05	DRHE41AK	12/22/00	1603
08	MPT-47-GW-DP	DRHE41DA	DRHE41DA	12/22/00	1640
09	MPT-47-GW-DP	DRHE41DC	DRHE41DC	12/22/00	1718
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 22-DEC-2000 09:46
 Lab File ID: 8SM1222.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01222a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.52499	1.52488	0.010	-0.0	50.0
10 N-Nitrosodimethylamine	1.00121	1.01171	0.010	1.0	50.0
11 Ethyl methacrylate	1.61615	1.55536	0.010	-3.8	50.0
12 3-Chloropropionitrile	0.82878	0.78708	0.010	-5.0	50.0
13 Malononitrile	1.71774	1.57164	0.010	-8.5	50.0
203 Benzaldehyde	1.45613	1.38377	0.010	-5.0	50.0
21 Aniline	2.43854	2.39823	0.010	-1.7	50.0
22 Phenol	2.03157	1.95465	0.010	-3.8	20.0
23 bis(2-Chloroethyl) ether	1.52700	1.43763	0.010	-5.9	50.0
24 2-Chlorophenol	1.27154	1.23764	0.010	-2.7	50.0
26 1,3-Dichlorobenzene	1.40318	1.37553	0.010	-2.0	50.0
27 1,4-Dichlorobenzene	1.45288	1.43564	0.010	-1.2	20.0
28 1,2-Dichlorobenzene	1.32720	1.29809	0.010	-2.2	50.0
29 Benzyl Alcohol	0.98999	0.92965	0.010	-6.1	50.0
30 2-Methylphenol	1.38507	1.33045	0.010	-3.9	50.0
31 bis(2-Chloroisopropyl) ether	1.47620	1.33289	0.010	-9.7	50.0
37 Acetophenone	2.62653	2.05454	0.010	-21.8	50.0
32 N-Nitroso-di-n-propylamine	1.45428	1.40316	0.050	-3.5	50.0
192 4-Methylphenol	1.48782	1.44932	0.010	-2.6	50.0
34 Hexachloroethane	0.60697	0.60535	0.010	-0.3	50.0
35 Nitrobenzene	0.56591	0.55004	0.010	-2.8	50.0
41 Isophorone	0.95468	0.90505	0.010	-5.2	50.0
42 2-Nitrophenol	0.17525	0.16706	0.010	-4.7	20.0
43 2,4-Dimethylphenol	0.43272	0.41988	0.010	-3.0	50.0
44 bis(2-Chloroethoxy)methane	0.49109	0.46364	0.010	-5.6	50.0
46 2,4-Toluenediamene	0.07703	0.11715	0.010	52.1	50.0
47 1,3,5-Trichlorobenzene	0.33408	0.33024	0.010	-1.2	50.0
48 2,4-Dichlorophenol	0.28219	0.27539	0.010	-2.4	20.0
49 Benzoic Acid	0.12603	0.13010	0.010	3.2	50.0
50 1,2,4-Trichlorobenzene	0.31853	0.31556	0.010	-0.9	50.0
51 Naphthalene	1.00720	0.96626	0.010	-4.1	50.0
52 4-Chloroaniline	0.36912	0.37309	0.010	1.1	50.0
56 Hexachlorobutadiene	0.19966	0.20084	0.010	0.6	20.0
204 Caprolactam	0.10551	0.10677	0.010	1.2	50.0
57 1,2,3-Trichlorobenzene	0.30977	0.30550	0.010	-1.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 22-DEC-2000 09:46
 Lab File ID: 8SM1222.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01222a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.37944	0.37149	0.010	-2.1	20.0
62 2-Methylnaphthalene	0.64126	0.62730	0.010	-2.2	50.0
63 1-Methylnaphthalene	0.63151	0.61638	0.010	-2.4	50.0
64 Hexachlorocyclopentadiene	0.38619	0.36526	0.050	-5.4	50.0
66 2,4,6-Trichlorophenol	0.34881	0.33577	0.010	-3.7	20.0
67 2,4,5-Trichlorophenol	0.36100	0.34921	0.010	-3.3	50.0
205 1,1'-Biphenyl	1.34065	1.29228	0.010	-3.6	50.0
68 1,2,3,5-Tetrachlorobenzene	0.55451	0.53314	0.010	-3.9	50.0
70 2-Chloronaphthalene	1.07278	1.04030	0.010	-3.0	50.0
73 2-Nitroaniline	0.44142	0.44030	0.010	-0.3	50.0
74 1,2,3,4-Tetrachlorobenzene	0.49995	0.48901	0.010	-2.2	50.0
76 Dimethylphthalate	1.19195	1.16624	0.010	-2.2	50.0
78 2,6-Dinitrotoluene	0.26500	0.26012	0.010	-1.8	50.0
79 Acenaphthylene	1.70430	1.65762	0.010	-2.7	50.0
80 1,2-Dinitrobenzene	0.13145	0.13112	0.010	-0.2	50.0
81 3-Nitroaniline	0.21730	0.23136	0.010	6.5	50.0
82 Acenaphthene	1.05785	1.03684	0.010	-2.0	20.0
83 2,4-Dinitrophenol	0.12689	0.11362	0.050	-10.5	50.0
85 4-Nitrophenol	0.20892	0.25445	0.050	21.8	50.0
86 Dibenzofuran	1.43124	1.43132	0.010	0.0	50.0
87 2,4-Dinitrotoluene	0.36566	0.37001	0.010	1.2	50.0
91 2,3,5,6-Tetrachlorophenol	0.28569	0.28407	0.010	-0.6	50.0
93 Diethylphthalate	1.28149	1.27514	0.010	-0.5	50.0
94 Fluorene	1.19888	1.18890	0.010	-0.8	50.0
95 4-Chlorophenyl-phenylether	0.62694	0.62685	0.010	-0.0	50.0
96 4-Nitroaniline	0.21302	0.24948	0.010	17.1	50.0
98 4,6-Dinitro-2-methylphenol	0.12799	0.10985	0.010	-14.2	50.0
99 N-Nitrosodiphenylamine	0.53259	0.49547	0.010	-7.0	20.0
100 1,2-Diphenylhydrazine	1.14493	1.04290	0.010	-8.9	50.0
106 4-Bromophenyl-phenylether	0.21890	0.20429	0.010	-6.7	50.0
107 Hexachlorobenzene	0.21505	0.20197	0.010	-6.1	50.0
206 Atrazine	0.19121	0.20968	0.010	9.7	50.0
111 Pentachlorophenol	0.12126	0.12129	0.010	0.0	20.0
115 Phenanthrene	1.09317	1.07719	0.010	-1.5	50.0
116 Anthracene	1.06447	1.05338	0.010	-1.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 22-DEC-2000 09:46
 Lab File ID: 8SM1222.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01222a.b\82701.m

COMPOUND	RRF	RF16	MIN	RD	MAX
119 Carbazole	0.83624	0.90984	0.010	8.8	50.0
120 Di-n-Butylphthalate	1.35812	1.35129	0.010	-0.5	50.0
123 Fluoranthene	1.10218	1.17785	0.010	6.9	20.0
124 Benzidine	0.54020	0.61437	0.010	13.7	50.0
125 Pyrene	1.31926	1.38861	0.010	5.3	50.0
131 Butylbenzylphthalate	0.62697	0.61089	0.010	-2.6	50.0
133 3,3'-Dimethoxybenzidine	0.21349	0.26441	0.010	23.9	50.0
135 3,3'-Dichlorobenzidine	0.37568	0.39019	0.010	3.9	50.0
136 Benzo(a)Anthracene	1.21192	1.20045	0.010	-0.9	50.0
137 Chrysene	1.07335	1.03112	0.010	-3.9	50.0
138 4,4'-Methylene bis(o-chloro	0.22252	0.22803	0.010	2.5	50.0
139 bis(2-ethylhexyl) Phthalate	0.91892	0.87685	0.010	-4.6	50.0
140 Di-n-octylphthalate	1.85842	1.74903	0.010	-5.9	20.0
141 Benzo(b)fluoranthene	1.22910	1.16839	0.010	-4.9	50.0
142 Benzo(k)fluoranthene	1.25769	1.20855	0.010	-3.9	50.0
146 Benzo(a)pyrene	1.06491	1.02658	0.010	-3.6	20.0
149 Indeno(1,2,3-cd)pyrene	0.87509	0.88723	0.010	1.4	50.0
150 Dibenz(a,h)anthracene	0.86570	0.88031	0.010	1.7	50.0
151 Benzo(g,h,i)perylene	0.87807	0.86130	0.010	-1.9	50.0
\$ 154 Nitrobenzene-d5	0.57810	0.55995	0.010	-3.1	50.0
\$ 155 2-Fluorobiphenyl	1.21283	1.16939	0.010	-3.6	50.0
\$ 156 Terphenyl-d14	0.93376	0.97945	0.010	4.9	50.0
\$ 157 Phenol-d5	1.82946	1.76431	0.010	-3.6	50.0
\$ 158 2-Fluorophenol	1.34337	1.29051	0.010	-3.9	50.0
\$ 159 2,4,6-Tribromophenol	0.11905	0.12613	0.010	5.9	50.0
\$ 186 2-Chlorophenol-d4	1.13822	1.11956	0.010	-1.6	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.87260	0.85480	0.010	-2.0	50.0
M 195 Cresols, total	2.87289	2.77977	0.010	-3.2	50.0
101 Diphenylamine	0.53259	0.49547	0.010	-7.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 22-DEC-2000 10:23
 Lab File ID: 8AM1222.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01222a.b\82701.m

COMPOUND	RRF	RF16	MIN	RRF	%D	MAX
7 N-Nitrosomorpholine	1.18854	1.10942	0.010	-6.7	50.0	
8 Ethyl methanesulfonate	1.60707	1.46783	0.010	-8.7	50.0	
14 2-Picoline	1.70375	1.85810	0.010	9.1	50.0	
15 N-Nitrosomethylethylamine	0.89201	0.82629	0.010	-7.4	50.0	
16 Methyl methanesulfonate	1.37639	1.19765	0.010	-13.0	50.0	
18 1,3-Dichloro-2-propanol	2.04728	1.98070	0.010	-3.3	50.0	
19 N-Nitrosodiethylamine	0.90507	0.82237	0.010	-9.1	50.0	
25 Pentachloroethane	0.55219	0.59612	0.010	8.0	50.0	
16 N-Nitrosopyrrolidina	0.89270	0.80708	0.010	-9.6	50.0	
37 Acetophenone	2.62653	2.39337	0.010	-8.9	50.0	
39 o-Toluidine	2.75532	2.53440	0.010	-8.0	50.0	
40 N-Nitrosopiperidine	0.19781	0.20189	0.010	2.1	50.0	
45 O,O,O-Triethyl phosphorothi	0.21536	0.21920	0.010	1.8	50.0	
53 a,a-Dimethyl-phenethylamine	0.69674	0.77217	0.010	10.8	50.0	
54 2,6-Dichlorophenol	0.30661	0.30682	0.010	0.1	50.0	
55 Hexachloropropene	0.25271	0.25891	0.010	2.5	50.0	
58 N-Nitrosodi-n-butylamine	0.36548	0.37348	0.010	2.2	50.0	
60 p-Phenylene diamine	0.32011	0.39242	0.010	22.6	50.0	
61 Safrole	0.31955	0.32152	0.010	0.6	50.0	
65 1,2,4,5-Tetrachlorobenzene	0.62222	0.64117	0.010	3.0	50.0	
71 Isosafrole 1	0.15173	0.15753	0.010	3.8	50.0	
M 188 Isosafrole, Total	1.18134	1.22173	0.010	3.4	50.0	
72 Isosafrole 2	1.02960	1.06420	0.010	3.4	50.0	
75 1,4-Naphthoquinone	0.37117	0.40750	0.010	9.8	50.0	
84 Pentachlorobenzene	0.52762	0.55162	0.010	4.5	50.0	
89 1-Naphthylamine	0.99143	1.08632	0.010	9.6	50.0	
92 2-Naphthylamine	0.96429	1.10056	0.010	14.1	50.0	
90 Zinophos	0.38041	0.40531	0.010	6.5	50.0	
102 Tetraethyl dithiopyrophosph	0.12357	0.12248	0.010	-0.9	50.0	
103 Diallate 1	0.95623	0.94904	0.010	-0.8	50.0	
M 189 Diallate, Total	4.29989	4.02736	0.010	-6.3	50.0	
109 Diallate 2	0.14528	0.14404	0.010	-0.9	50.0	
104 Phorate	0.18581	0.18741	0.010	0.9	50.0	
105 1,3,5-Trinitrobenzene	0.09459	0.09917	0.010	4.8	50.0	
108 Phenacetin	0.48994	0.53877	0.010	10.0	50.0	

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 22-DEC-2000 10:23
 Lab File ID: 8AM1222.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01222a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	MIN %D	MAX %D
110 Dimethoate	0.39918	0.43775	0.010	9.7	50.0
112 Pentachloronitrobenzene	0.12913	0.13943	0.010	8.0	50.0
113 4-Aminobiphenyl	0.71890	0.71671	0.010	-0.3	50.0
114 Pronamide	0.38564	0.41949	0.010	8.8	50.0
117 Dinoseb	0.23818	0.21398	0.010	-10.2	50.0
118 Disulfoton	0.58310	0.57821	0.010	-0.8	50.0
121 4-Nitroquinoline 1-oxide	0.12696	0.10987	0.010	-13.5	50.0
122 Methapyrilene	0.25178	0.32895	0.010	30.7	50.0
126 Aramite 1	0.08490	0.09523	0.010	12.2	50.0
M 191 Aramite, Total	0.68351	0.69333	0.010	1.4	50.0
127 Aramite 2	0.11962	0.13657	0.010	14.2	50.0
128 p-Dimethylamino azobenzene	0.32146	0.35701	0.010	11.1	50.0
129 p-Chlorobenzilate	0.58000	0.65382	0.010	12.7	50.0
130 Famphur	0.29251	0.49393	0.010	68.9	50.0 <-
132 3,3'-Dimethylbenzidine	0.51623	0.77631	0.010	50.4	50.0 <-
134 2-Acetylaminofluorene	0.46062	0.50181	0.010	8.9	50.0
143 7,12-dimethylbenz[a]anthrac	0.83668	0.72964	0.010	-12.8	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.81049	0.69823	0.010	-13.9	50.0
193 3-Methylphenol	1.75137	1.57311	0.010	-10.2	50.0
69 1,4-Dinitrobenzene	0.19793	0.20139	0.010	1.8	50.0
77 m-Dinitrobenzene	0.21728	0.22202	0.010	2.2	50.0
198 1,4-Dioxane	0.56920	0.73201	0.010	28.6	50.0
88 2,3,4,6-Tetrachlorophenol	0.27267	0.27993	0.010	1.7	50.0
97 5-Nitro-o-toluidine	0.31073	0.34097	0.010	9.7	50.0
201 3-Picoline	1.77341	1.73504	0.010	-2.2	50.0
202 N,N-Dimethylacetamide	1.25148	1.12155	0.010	-10.4	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP033

Lab File ID: 8DF1226A

DFTPP Injection Date: 12/26/00

Instrument ID: A4HP8

DFTPP Injection Time: 0957

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.8
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	53.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	24.9
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than mass 443	7.6
442	Greater than 40.0% of mass 198	49.3
443	17.0 - 23.0% of mass 442	9.5 (19.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	8SM1226	12/26/00	1020
02	ASTD016	ASTD016	8AM1226	12/26/00	1330
03	MPT-47-GW-DU	DRHFDLAK <i>ru</i>	DRHFDLAK	12/26/00	1639
04					
05					
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11					
12					
13					
14					
15					
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22					

STL - North Canton

8/12/2000

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 26-DEC-2000 10:20
 Lab File ID: 8SM1226.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01226a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.52499	1.46112	0.010	-4.2	50.0
10 N-Nitrosodimethylamine	1.00121	0.93339	0.010	-6.8	50.0
11 Ethyl methacrylate	1.61615	1.45118	0.010	-10.2	50.0
12 3-Chloropropionitrile	0.82878	0.76217	0.010	-8.0	50.0
13 Malononitrile	1.71774	1.53295	0.010	-10.8	50.0
203 Benzaldehyde	1.45613	1.36195	0.010	-6.5	50.0
21 Aniline	2.43854	2.36803	0.010	-2.9	50.0
22 Phenol	2.03157	1.92665	0.010	-5.2	20.0
23 bis(2-Chloroethyl)ether	1.52700	1.39994	0.010	-8.3	50.0
24 2-Chlorophenol	1.27154	1.20954	0.010	-4.9	50.0
26 1,3-Dichlorobenzene	1.40318	1.36137	0.010	-3.0	50.0
27 1,4-Dichlorobenzene	1.45288	1.40605	0.010	-3.2	20.0
28 1,2-Dichlorobenzene	1.32720	1.28442	0.010	-3.2	50.0
29 Benzyl Alcohol	0.98999	0.95704	0.010	-3.3	50.0
30 2-Methylphenol	1.38507	1.31966	0.010	-4.7	50.0
31 bis(2-Chloroisopropyl)ether	1.47620	1.29304	0.010	-12.4	50.0
37 Acetophenone	2.62653	2.10984	0.010	-19.7	50.0
32 N-Nitroso-di-n-propylamine	1.45428	1.41790	0.050	-2.5	50.0
192 4-Methylphenol	1.48782	1.47435	0.010	-0.9	50.0
34 Hexachloroethane	0.60697	0.60582	0.010	-0.2	50.0
35 Nitrobenzene	0.56591	0.56223	0.010	-0.6	50.0
41 Isophorone	0.95468	0.94108	0.010	-1.4	50.0
42 2-Nitrophenol	0.17525	0.17077	0.010	-2.6	20.0
43 2,4-Dimethylphenol	0.43272	0.43017	0.010	-0.6	50.0
44 bis(2-Chloroethoxy)methane	0.49109	0.46782	0.010	-4.7	50.0
46 2,4-Toluenediamene	0.07703	0.05800	0.010	-24.7	50.0
47 1,3,5-Trichlorobenzene	0.33408	0.34170	0.010	2.3	50.0
48 2,4-Dichlorophenol	0.28219	0.28047	0.010	-0.6	20.0
49 Benzoic Acid	0.12603	0.12789	0.010	1.5	50.0
50 1,2,4-Trichlorobenzene	0.31853	0.31922	0.010	0.2	50.0
51 Naphthalene	1.00720	0.98884	0.010	-1.8	50.0
52 4-Chloroaniline	0.36912	0.37486	0.010	1.6	50.0
56 Hexachlorobutadiene	0.19966	0.21466	0.010	7.5	20.0
204 Caprolactam	0.10551	0.10844	0.010	2.8	50.0
57 1,2,3-Trichlorobenzene	0.30977	0.31598	0.010	2.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 26-DEC-2000 10:20
 Lab File ID: 8SM1226.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01226a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.37944	0.38617	0.010	1.8	20.0
62 2-Methylnaphthalene	0.64126	0.63807	0.010	-0.5	50.0
63 1-Methylnaphthalene	0.63151	0.63391	0.010	0.4	50.0
64 Hexachlorocyclopentadiene	0.38619	0.40680	0.050	5.3	50.0
66 2,4,6-Trichlorophenol	0.34881	0.34964	0.010	0.2	20.0
67 2,4,5-Trichlorophenol	0.36100	0.37293	0.010	3.3	50.0
205 1,1'-Biphenyl	1.34065	1.31518	0.010	-1.9	50.0
68 1,2,3,5-Tetrachlorobenzene	0.55451	0.55511	0.010	0.1	50.0
70 2-Chloronaphthalene	1.07278	1.06444	0.010	-0.8	50.0
73 2-Nitroaniline	0.44142	0.46918	0.010	6.3	50.0
74 1,2,3,4-Tetrachlorobenzene	0.49995	0.50221	0.010	0.5	50.0
76 Dimethylphthalate	1.19195	1.19374	0.010	0.2	50.0
78 2,6-Dinitrotoluene	0.26500	0.26770	0.010	1.0	50.0
79 Acenaphthylene	1.70430	1.69019	0.010	-0.8	50.0
80 1,2-Dinitrobenzene	0.13145	0.13501	0.010	2.7	50.0
81 3-Nitroaniline	0.21730	0.23870	0.010	9.9	50.0
82 Acenaphthene	1.05785	1.03308	0.010	-2.3	20.0
83 2,4-Dinitrophenol	0.12689	0.13601	0.050	7.2	50.0
85 4-Nitrophenol	0.20892	0.26785	0.050	28.2	50.0
86 Dibenzofuran	1.43124	1.45542	0.010	1.7	50.0
87 2,4-Dinitrotoluene	0.36566	0.38488	0.010	5.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.28569	0.30226	0.010	5.8	50.0
93 Diethylphthalate	1.28149	1.30912	0.010	2.2	50.0
94 Fluorene	1.19888	1.22707	0.010	2.4	50.0
95 4-Chlorophenyl-phenylether	0.62694	0.64809	0.010	3.4	50.0
96 4-Nitroaniline	0.21302	0.24849	0.010	16.7	50.0
98 4,6-Dinitro-2-methylphenol	0.12799	0.12653	0.010	-1.1	50.0
99 N-Nitrosodiphenylamine	0.53259	0.51001	0.010	-4.2	20.0
100 1,2-Diphenylhydrazine	1.14493	1.08479	0.010	-5.3	50.0
106 4-Bromophenyl-phenylether	0.21890	0.21132	0.010	-3.5	50.0
107 Hexachlorobenzene	0.21505	0.20909	0.010	-2.8	50.0
206 Atrazine	0.19121	0.20672	0.010	8.1	50.0
111 Pentachlorophenol	0.12126	0.12605	0.010	3.9	20.0
115 Phenanthrene	1.09317	1.07392	0.010	-1.8	50.0
116 Anthracene	1.06447	1.06443	0.010	-0.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 26-DEC-2000 10:20
 Lab File ID: 8SM1226.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01226a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.83624	0.88363	0.010	5.7	50.0
120 Di-n-Butylphthalate	1.35812	1.32008	0.010	-2.8	50.0
123 Fluoranthene	1.10218	1.11478	0.010	1.1	20.0
124 Benzidine	0.54020	0.54197	0.010	0.3	50.0
125 Pyrene	1.31926	1.37859	0.010	4.5	50.0
131 Butylbenzylphthalate	0.62697	0.58450	0.010	-6.8	50.0
133 3,3'-Dimethoxybenzidine	0.21349	0.22247	0.010	4.2	50.0
135 3,3'-Dichlorobenzidine	0.37568	0.37736	0.010	0.4	50.0
136 Benzo(a)Anthracene	1.21192	1.19259	0.010	-1.6	50.0
137 Chrysene	1.07335	1.00582	0.010	-6.3	50.0
138 4,4'-Methylene bis(o-chloro	0.22252	0.21705	0.010	-2.5	50.0
139 bis(2-ethylhexyl)Phthalate	0.91892	0.82988	0.010	-9.7	50.0
140 Di-n-octylphthalate	1.85842	1.66957	0.010	-10.2	20.0
141 Benzo(b)fluoranthene	1.22910	1.18675	0.010	-3.4	50.0
142 Benzo(k)fluoranthene	1.25769	1.19757	0.010	-4.8	50.0
146 Benzo(a)pyrene	1.06491	1.04077	0.010	-2.3	20.0
149 Indeno(1,2,3-cd)pyrene	0.87509	0.93693	0.010	7.1	50.0
150 Dibenz(a,h)anthracene	0.86570	0.93874	0.010	8.4	50.0
151 Benzo(g,h,i)perylene	0.87807	0.91864	0.010	4.6	50.0
\$ 154 Nitrobenzene-d5	0.57810	0.58008	0.010	0.3	50.0
\$ 155 2-Fluorobiphenyl	1.21283	1.19460	0.010	-1.5	50.0
\$ 156 Terphenyl-d14	0.93376	0.97893	0.010	4.8	50.0
\$ 157 Phenol-d5	1.82946	1.73577	0.010	-5.1	50.0
\$ 158 2-Fluorophenol	1.34337	1.22341	0.010	-8.9	50.0
\$ 159 2,4,6-Tribromophenol	0.11905	0.13298	0.010	11.7	50.0
\$ 186 2-Chlorophenol-d4	1.13822	1.08762	0.010	-4.4	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.87260	0.84620	0.010	-3.0	50.0
M 195 Cresols, total	2.87289	2.79401	0.010	-2.7	50.0
101 Diphenylamine	0.53259	0.51001	0.010	-4.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 26-DEC-2000 13:30
 Lab File ID: 8AM1226.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01226a.b\82701.m

Handwritten signature and date: 12-27-00

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.18854	1.16914	0.010	-1.6	50.0
8 Ethyl methanesulfonate	1.60707	1.51511	0.010	-5.7	50.0
14 2-Picoline	1.70375	1.92275	0.010	12.9	50.0
15 N-Nitrosomethylethylamine	0.89201	0.83599	0.010	-6.3	50.0
16 Methyl methanesulfonate	1.37639	1.27367	0.010	-7.5	50.0
18 1,3-Dichloro-2-propanol	2.04728	2.03249	0.010	-0.7	50.0
19 N-Nitrosodiethylamine	0.90507	0.86280	0.010	-4.7	50.0
25 Pentachloroethane	0.55219	0.63910	0.010	15.7	50.0
36 N-Nitrosopyrrolidine	0.89270	0.81790	0.010	-8.4	50.0
37 Acetophenone	2.62653	2.47906	0.010	-5.6	50.0
39 o-Toluidine	2.75532	2.60387	0.010	-5.5	50.0
40 N-Nitrosopiperidine	0.19781	0.19693	0.010	-0.4	50.0
45 O,O,O-Triethyl phosphorothi	0.21536	0.22275	0.010	3.4	50.0
53 a,a-Dimethyl-phenethylamine	0.69674	0.63631	0.010	-8.7	50.0
54 2,6-Dichlorophenol	0.30661	0.29564	0.010	-3.6	50.0
55 Hexachloropropene	0.25271	0.25312	0.010	0.2	50.0
58 N-Nitrosodi-n-butylamine	0.36548	0.38042	0.010	4.1	50.0
60 p-Phenylene diamine	0.32011	0.33599	0.010	5.0	50.0
61 Safrole	0.31955	0.32717	0.010	2.4	50.0
65 1,2,4,5-Tetrachlorobenzene	0.62222	0.65286	0.010	4.9	50.0
71 Isosafrole 1	0.15173	0.15921	0.010	4.9	50.0
M 188 Isosafrole, Total	1.18134	1.21912	0.010	3.2	50.0
72 Isosafrole 2	1.02960	1.05991	0.010	2.9	50.0
75 1,4-Naphthoquinone	0.37117	0.39204	0.010	5.6	50.0
84 Pentachlorobenzene	0.52762	0.55892	0.010	5.9	50.0
89 1-Naphthylamine	0.99143	1.04643	0.010	5.5	50.0
92 2-Naphthylamine	0.96429	1.02635	0.010	6.4	50.0
90 Zinophos	0.38041	0.40884	0.010	7.5	50.0
102 Tetraethyl dithiopyrophosph	0.12357	0.13446	0.010	8.8	50.0
103 Diallate 1	0.95623	0.98156	0.010	2.6	50.0
M 189 Diallate, Total	4.29989	4.22288	0.010	-1.8	50.0
109 Diallate 2	0.14528	0.14749	0.010	1.5	50.0
104 Phorate	0.18581	0.19308	0.010	3.9	50.0
105 1,3,5-Trinitrobenzene	0.09459	0.09418	0.010	-0.4	50.0
108 Phenacetin	0.48994	0.51002	0.010	4.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 26-DEC-2000 13:30
 Lab File ID: 8AM1226.D Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
 Analysis Type: Init. Cal. Times: 15:36 22:45
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\01226a.b\82701.m

COMPOUND	RRF	RF16	MIN	%D	MAX
110 Dimethoate	0.39918	0.42354	0.010	6.1	50.0
112 Pentachloronitrobenzene	0.12913	0.15195	0.010	17.7	50.0
113 4-Aminobiphenyl	0.71890	0.72251	0.010	0.5	50.0
114 Pronamide	0.38564	0.42489	0.010	10.2	50.0
117 Dinoseb	0.23818	0.18550	0.010	-22.1	50.0
118 Disulfoton	0.58310	0.58805	0.010	0.9	50.0
121 4-Nitroquinoline 1-oxide	0.12696	0.09736	0.010	-23.3	50.0
122 Methapyrilene	0.25178	0.29880	0.010	18.7	50.0
126 Aramite 1	0.08490	0.10296	0.010	21.3	50.0
M 191 Aramite, Total	0.68351	0.68296	0.010	-0.1	50.0
127 Aramite 2	0.11962	0.14454	0.010	20.8	50.0
128 p-Dimethylamino azobenzene	0.32146	0.36440	0.010	13.4	50.0
129 p-Chlorobenzilate	0.58000	0.69883	0.010	20.5	50.0
130 Famphur	0.29251	0.53193	0.010	81.8	50.0|<-
132 3,3'-Dimethylbenzidine	0.51623	0.74692	0.010	44.7	50.0
134 2-Acetylaminofluorene	0.46062	0.49775	0.010	8.1	50.0
143 7,12-dimethylbenz[a]anthrac	0.83668	0.72350	0.010	-13.5	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0|<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0|<-
148 3-Methylcholanthrene	0.81049	0.70389	0.010	-13.2	50.0
193 3-Methylphenol	1.75137	1.57786	0.010	-9.9	50.0
69 1,4-Dinitrobenzene	0.19793	0.19990	0.010	1.0	50.0
77 m-Dinitrobenzene	0.21728	0.22161	0.010	2.0	50.0
198 1,4-Dioxane	0.56920	0.78916	0.010	38.6	50.0
88 2,3,4,6-Tetrachlorophenol	0.27267	0.26915	0.010	-1.3	50.0
97 5-Nitro-o-toluidine	0.31073	0.32792	0.010	5.5	50.0
201 3-Picoline	1.77341	1.74039	0.010	-1.9	50.0
202 N,N-Dimethylacetamide	1.25148	1.12660	0.010	-10.0	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP033

Lab File ID: 7DF1116

DFTPP Injection Date: 11/16/00

Instrument ID: A4HP7

DFTPP Injection Time: 0810

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	82.6
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	47.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	6.9
442	40.0 - 100.0% of mass 198	47.4
443	17.0 - 23.0% of mass 442	9.0 (19.0)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD002	ASTD002	7AL1116	11/16/00	0911
02	ASTD005	ASTD005	7AML1116	11/16/00	0947
03	ASTD008	ASTD008	7AML1116	11/16/00	1024
04	ASTD012	ASTD012	7AMH1116	11/16/00	1100
05	ASTD016	ASTD016	7AH1116	11/16/00	1137
06	ASTD020	ASTD020	7AHH1116	11/16/00	1214
07					
08					
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22					

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
End Cal Date : 02-JAN-2001 12:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
Cal Date : 02-Jan-2001 13:20 GruberJ
Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AL1116.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AML1116.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AM1116.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AMH1116.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AH1116.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\01116a.b\7AHH1116.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.72561	0.70682	0.88645	0.72002	0.74526	0.80831	0.76541	9.047
7 N-Nitrosomorpholine	0.90758	0.95841	1.08145	1.14155	1.18619	1.14373	1.06982	10.494
8 Ethyl methanesulfonate	1.72474	1.82701	1.99355	2.07921	2.16546	2.10820	1.98303	8.716
9 Pyridine	1.49890	1.39737	1.45859	1.73385	1.70886	1.45626	1.54230	9.248
10 N-Nitrosodimethylamine	1.15524	1.15503	1.27605	1.25409	1.39872	1.30952	1.25811	7.453
11 Ethyl methacrylate	2.02430	2.18269	1.96878	2.27515	2.13220	2.25635	2.13991	5.776
12 3-Chloropropionitrile	0.54580	0.47937	0.48567	0.47542	0.53198	0.54075	0.50983	6.468
13 Malononitrile	1.56713	1.57208	1.66215	1.71363	1.81432	1.76211	1.68190	5.981
14 2-Picoline	1.88293	1.93477	2.11333	2.11296	2.18246	2.22964	2.07601	6.637
15 N-Nitrosomethylethylamine	0.91161	0.93484	0.99486	1.00934	1.03006	1.00891	0.98160	4.805
16 Methyl methanesulfonate	1.77204	1.80535	1.80737	1.98894	2.01806	1.96160	1.89223	5.750
18 1,3-Dichloro-2-propanol	2.11123	2.23671	2.38728	2.58100	2.64296	2.62120	2.43007	9.119
19 N-Nitrosodiethylamine	0.86143	0.89214	0.95981	1.03085	1.06507	1.04743	0.97612	8.749
21 Aniline	2.45871	2.34668	2.61199	3.00664	3.17917	3.00048	2.76728	12.282
22 Phenol	2.24210	2.05593	2.29762	2.47032	2.68932	2.60109	2.39273	9.935
23 bis(2-Chloroethyl)ether	1.86513	1.61196	1.83365	1.89158	2.00598	1.95175	1.86001	7.331
24 2-Chlorophenol	1.25672	1.16065	1.28325	1.39687	1.45243	1.38250	1.32207	8.152
25 Pentachloroethane	0.52865	0.53263	0.60085	0.59998	0.61570	0.62269	0.58342	7.167
26 1,3-Dichlorobenzene	1.66645	1.43210	1.57060	1.63199	1.71972	1.62208	1.60716	6.160
27 1,4-Dichlorobenzene	1.63012	1.42530	1.58528	1.63121	1.72792	1.64333	1.60719	6.256
28 1,2-Dichlorobenzene	1.48191	1.28608	1.47303	1.53770	1.66172	1.59657	1.50617	8.579
29 Benzyl Alcohol	0.75659	0.75159	0.89819	1.00194	1.09605	1.07330	0.92961	16.399
30 2-Methylphenol	1.33616	1.23962	1.38312	1.47973	1.55534	1.49056	1.41409	8.222
31 bis(2-Chloroisopropyl)ether	0.74834	0.65995	0.72920	0.73963	0.78864	0.76476	0.73842	5.921
32 N-Nitroso-di-n-propylamine	1.79418	1.65600	1.87558	1.98321	2.07186	2.03593	1.90279	8.350

0.00024 (10)
0.2541
9.04 ✓
DSS
2/13/01

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.62917	2.48580	2.83540	3.05967	3.29277	3.17407	2.91282	10.889
192 4-Methylphenol	1.29302	1.24618	1.45228	1.57994	1.73743	1.68351	1.49873	13.542
193 3-Methylphenol	1.56802	1.75297	2.00276	2.36010	2.51477	2.48690	2.11425	18.932
34 Hexachloroethane	0.80981	0.70420	0.77079	0.80185	0.82739	0.77645	0.78175	5.557
35 Nitrobenzene	0.75151	0.69521	0.77645	0.77949	0.80040	0.78303	0.76435	4.884
36 N-Nitrosopyrrolidine	0.86129	0.98170	1.12464	1.21962	1.28865	1.23399	1.11832	14.824
37 Acetophenone	2.51559	2.29468	2.53120	2.68871	2.77507	2.70433	2.58493	6.770
39 o-Toluidine	2.76165	3.03862	3.34926	3.79408	3.94513	3.85793	3.45778	14.066
40 N-Nitrosopiperidine	0.18111	0.17946	0.18872	0.20536	0.20879	0.21478	0.19637	7.728
41 Isophorone	1.21594	1.07815	1.22490	1.21718	1.26832	1.24801	1.20875	5.553
42 2-Nitrophenol	0.17102	0.15660	0.18865	0.19843	0.21162	0.20791	0.18904	11.422
43 2,4-Dimethylphenol	0.45858	0.40731	0.48214	0.49154	0.50742	0.49094	0.47299	7.597
44 bis(2-Chloroethoxy)methane	0.57971	0.52821	0.60303	0.59684	0.62808	0.61385	0.59162	5.925
45 O,O,O-Triethyl phosphorothioa	0.20512	0.20556	0.21426	0.23245	0.23328	0.24613	0.22280	7.590
46 2,4-Toluediamene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.42115	0.35868	0.41221	0.40447	0.43227	0.42437	0.40886	6.461
48 2,4-Dichlorophenol	0.27943	0.25800	0.29224	0.30199	0.31929	0.31304	0.29400	7.722
49 Benzoic Acid	+++++	0.10248	0.12357	0.12060	0.11211	0.12369	0.11649	7.850 <-
50 1,2,4-Trichlorobenzene	0.36881	0.32654	0.36673	0.36715	0.38258	0.37718	0.36483	5.425
51 Naphthalene	1.13856	1.00667	1.15272	1.15542	1.24004	1.22943	1.15381	7.255
52 4-Chloroaniline	0.34246	0.33427	0.39199	0.41702	0.43798	0.41829	0.39034	10.990
53 a,a-Dimethyl-phenethylamine	0.39292	0.53424	0.50004	0.58345	0.62048	0.63456	0.54428	16.527
54 2,6-Dichlorophenol	0.26056	0.26391	0.28552	0.32320	0.33381	0.34637	0.30223	12.265
55 Hexachloropropene	0.20230	0.21922	0.22497	0.28084	0.28752	0.29991	0.25246	16.487
56 Hexachlorobutadiene	0.30369	0.25803	0.28355	0.28912	0.29710	0.28888	0.28673	5.491
57 1,2,3-Trichlorobenzene	0.38318	0.32910	0.36495	0.36812	0.38412	0.37794	0.36790	5.586
58 N-Nitrosodi-n-butylamine	0.39525	0.40027	0.42940	0.45908	0.46700	0.48114	0.43869	8.199
59 4-Chloro-3-Methylphenol	0.36137	0.36798	0.42856	0.43107	0.45409	0.43407	0.41286	9.314
60 p-Phenylene diamine	0.20097	0.24711	0.25614	0.37569	0.35940	0.37010	0.30157	25.116
61 Safrole	0.28340	0.27975	0.29552	0.32606	0.33658	0.34410	0.31090	9.045
62 2-Methylnaphthalene	0.71728	0.65052	0.74440	0.75274	0.79298	0.78519	0.74052	7.030
63 1-Methylnaphthalene	0.73327	0.66554	0.74452	0.76371	0.80169	0.79151	0.75004	6.539
64 Hexachlorocyclopentadiene	0.29060	0.31837	0.40120	0.46297	0.50116	0.50644	0.41345	22.449

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.65005	0.61502	0.65167	0.73326	0.72034	0.74120	0.68526	7.712
66 2,4,6-Trichlorophenol	0.37495	0.33624	0.39136	0.40010	0.41098	0.41328	0.38782	7.450
67 2,4,5-Trichlorophenol	0.35802	0.30733	0.38563	0.40459	0.42183	0.38867	0.37768	10.718
68 1,2,3,5-Tetrachlorobenzene	0.73992	0.62538	0.68440	0.69892	0.72630	0.72413	0.69984	5.953
69 1,4-Dinitrobenzene	0.11404	0.13952	0.17223	0.19402	0.20355	0.20831	0.17194	22.090
70 2-Chloronaphthalene	1.11367	1.01994	1.14300	1.20964	1.29158	1.28288	1.17679	8.932
71 Isosafrole 1	0.13813	0.13663	0.14650	0.15641	0.15303	0.15155	0.14704	5.541
M 188 Isosafrole, Total	1.04843	1.07710	1.18792	1.33084	1.35843	1.39295	1.23261	12.104
72 Isosafrole 2	0.91030	0.94047	1.04142	1.17443	1.20541	1.24140	1.08557	13.044
73 2-Nitroaniline	0.53853	0.51976	0.58161	0.59988	0.61992	0.54591	0.56760	6.860
74 1,2,3,4-Tetrachlorobenzene	0.65651	0.56239	0.63022	0.65374	0.65325	0.65841	0.63575	5.880
75 1,4-Naphthoquinone	0.36507	0.38583	0.41105	0.42949	0.41404	0.42705	0.40542	6.206
76 Dimethylphthalate	1.43244	1.32285	1.46097	1.42119	1.40937	1.34248	1.39822	3.858
77 m-Dinitrobenzene	0.14954	0.16686	0.19533	0.22192	0.21491	0.21774	0.19438	15.424
78 2,6-Dinitrotoluene	0.30263	0.27364	0.30214	0.30826	0.29496	0.27594	0.29293	5.015
79 Acenaphthylene	1.86691	1.67854	1.87441	1.96957	2.03308	2.00814	1.90511	6.839
80 1,2-Dinitrobenzene	0.13691	0.12891	0.13798	0.13731	0.13801	0.12397	0.13385	4.456
81 3-Nitroaniline	0.22551	0.20925	0.23810	0.24970	0.25850	0.26553	0.24110	8.779
82 Acenaphthene	1.19074	1.07199	1.18993	1.22148	1.28509	1.18062	1.18998	5.828
83 2,4-Dinitrophenol	++++	0.06847	0.10677	0.11507	0.16154	0.14377	0.11912	30.096|<-
84 Pentachlorobenzene	0.51427	0.50704	0.55687	0.58813	0.60231	0.60996	0.56310	7.912
85 4-Nitrophenol	++++	0.22040	0.24927	0.27733	0.29179	0.30596	0.26895	12.754|<-
86 Dibenzofuran	1.54544	1.44532	1.57898	1.67544	1.74374	1.56574	1.59244	6.558
87 2,4-Dinitrotoluene	0.36131	0.36265	0.39297	0.40874	0.39830	0.36543	0.38157	5.468
88 2,3,4,6-Tetrachlorophenol	0.25478	0.27543	0.31774	0.34201	0.33540	0.35739	0.31379	12.853
89 1-Naphthylamine	0.86244	0.89437	0.98769	1.15913	1.16504	1.21127	1.04666	14.450
90 Zinophos	0.43029	0.43697	0.46663	0.47478	0.48418	0.48288	0.46262	5.062
91 2,3,5,6-Tetrachlorophenol	0.27320	0.30723	0.34644	0.36520	0.39534	0.38702	0.34574	13.743
92 2-Naphthylamine	0.86425	0.82721	0.93867	1.03388	1.04823	1.06285	0.96252	10.497
93 Diethylphthalate	1.48757	1.31256	1.38806	1.37476	1.40927	1.37186	1.39068	4.125
94 Fluorene	1.32209	1.20805	1.33435	1.41915	1.39006	1.32919	1.33382	5.450
95 4-Chlorophenyl-phenylether	0.75336	0.66346	0.72958	0.77089	0.73045	0.69384	0.72360	5.426
96 4-Nitroaniline	0.18875	0.16337	0.21249	0.22928	0.25722	0.23555	0.21444	15.839

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.23516	0.25127	0.29514	0.31687	0.30202	0.31500	0.28591	12.041
98 4,6-Dinitro-2-methylphenol	0.09622	0.11825	0.14422	0.13832	0.16931	0.16941	0.13929	20.636
99 N-Nitrosodiphenylamine	0.58079	0.49205	0.55330	0.55806	0.57947	0.57601	0.55661	6.047
100 1,2-Diphenylhydrazine	1.56905	1.34820	1.48082	1.48341	1.54137	1.52161	1.49074	5.206
101 Diphenylamine	0.58079	0.49205	0.55330	0.55806	0.57947	0.57601	0.55661	6.047
102 Tetraethyl dithiopyrophosphat	0.12727	0.12068	0.12795	0.13276	0.13710	0.13739	0.13053	4.959
103 Diallate 1	0.97167	1.02792	1.06712	1.18803	1.24985	1.23987	1.12408	10.453
M 189 Diallate, Total	4.35836	4.90270	5.50803	5.53349	5.95129	5.60832	5.31037	10.853
104 Phorate	0.16244	0.17224	0.18315	0.20385	0.21927	0.22080	0.19362	12.734
105 1,3,5-Trinitrobenzene	0.03449	0.04608	0.05623	0.07844	0.08149	0.08487	0.06360	32.994
106 4-Bromophenyl-phenylether	0.26278	0.22644	0.25301	0.26153	0.26087	0.25572	0.25339	5.417
107 Hexachlorobenzene	0.28700	0.23421	0.27801	0.27914	0.29302	0.28204	0.27557	7.623
108 Phenacetin	0.38759	0.40554	0.43364	0.50082	0.49803	0.50143	0.45451	11.455
109 Diallate 2	0.15366	0.14849	0.15179	0.15556	0.15686	0.15851	0.15414	2.361
110 Dimethoate	0.43336	0.43732	0.45497	0.46568	0.46179	0.45557	0.45145	2.914
111 Pentachlorophenol	+++++	0.08295	0.10977	0.11377	0.14055	0.13731	0.11687	20.018
112 Pentachloronitrobenzene	0.11890	0.12066	0.13139	0.13755	0.13632	0.13725	0.13035	6.521
113 4-Aminobiphenyl	0.50189	0.55096	0.62403	0.74018	0.74808	0.75990	0.65417	17.042
114 Pronamide	0.34798	0.34817	0.36560	0.38622	0.39526	0.39599	0.37320	5.986
115 Phenanthrene	1.25631	1.08978	1.24837	1.29083	1.42270	1.31049	1.26975	8.521
116 Anthracene	1.16008	1.02113	1.18596	1.19082	1.24991	1.23252	1.17340	6.942
117 Dinoseb	0.07957	0.12002	0.16306	0.22006	0.23410	0.23845	0.17588	37.558
118 Disulfoton	0.56870	0.58177	0.62345	0.72472	0.77001	0.77172	0.67339	13.849
119 Carbazole	0.91281	0.78813	0.92523	0.95104	1.01821	1.01447	0.93498	9.032
120 Di-n-Butylphthalate	1.50943	1.29175	1.47942	1.47103	1.56975	1.56914	1.48175	6.907
121 4-Nitroquinoline 1-oxide	0.02997	0.04276	0.06228	0.09304	0.08366	0.08581	0.06625	38.701
122 Methapyrilene	0.26842	0.23990	0.21030	0.22262	0.19858	0.20285	0.22378	11.838
123 Fluoranthene	1.35908	1.19769	1.40525	1.41788	1.51896	1.46488	1.39396	7.930
124 Benzidine	0.44692	0.31375	0.33044	0.46529	0.55586	0.50320	0.43591	21.991
125 Pyrene	1.71033	1.62349	1.73067	1.70422	1.68131	1.72428	1.69572	2.321
126 Aramite 1	0.10312	0.12040	0.11593	0.10716	0.10903	0.11020	0.11097	5.611
M 191 Aramite, Total	0.66388	0.70475	0.84047	0.80768	0.81414	0.77918	0.76835	9.002
127 Aramite 2	0.14189	0.16433	0.15852	0.14513	0.14326	0.15036	0.15058	6.020

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.32201	0.35041	0.35073	0.34863	0.34615	0.36548	0.34723	4.062
129 p-Chlorobenzilate	0.63718	0.74404	0.71435	0.67860	0.68445	0.71297	0.69526	5.314
130 Pamphur	0.65239	0.54968	0.44338	0.17412	0.11140	0.09729	0.33804	71.354
131 Butylbenzylphthalate	0.68756	0.62714	0.67646	0.67868	0.66661	0.65127	0.66462	3.331
132 3,3'-Dimethylbenzidine	0.52790	0.48775	0.50817	0.55233	0.50576	0.50384	0.51429	4.397
133 3,3'-Dimethoxybenzidine	0.23354	0.17877	0.21827	0.28869	0.30163	0.27906	0.25000	19.066
134 2-Acetylaminofluorene	0.39299	0.42968	0.49245	0.53314	0.51071	0.48998	0.47483	11.130
135 3,3'-Dichlorobenzidine	0.42189	0.35102	0.41768	0.43631	0.46747	0.45878	0.42553	9.751
136 Benzo(a)Anthracene	1.37498	1.23977	1.39854	1.42866	1.44129	1.42839	1.38527	5.434
137 Chrysene	1.39677	1.19756	1.36887	1.39986	1.48412	1.44950	1.38278	7.211
138 4,4'-Methylene bis(o-chloroan	0.23986	0.21525	0.23766	0.27583	0.28947	0.28526	0.25722	11.815
139 bis(2-ethylhexyl)Phthalate	0.96892	0.89606	0.94884	0.97243	0.97699	0.94181	0.95084	3.177
140 Di-n-octylphthalate	1.72621	1.64606	1.78329	1.91524	1.95311	1.96664	1.83176	7.237
141 Benzo(b)fluoranthene	1.48356	1.25686	1.44026	1.51700	1.58456	1.59118	1.47890	8.339
142 Benzo(k)fluoranthene	1.58402	1.38441	1.53248	1.52365	1.61064	1.61815	1.54223	5.618
143 7,12-dimethylbenz[a]anthracen	0.81347	0.83794	0.70732	1.00869	1.08070	1.15848	0.93443	18.698
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.27604	1.10132	1.25177	1.29079	1.37993	1.37195	1.27863	7.921
148 3-Methylcholanthrene	0.77075	0.78939	0.69073	0.93391	0.97114	0.96598	0.85365	13.901
149 Indeno(1,2,3-cd)pyrene	0.95605	0.82057	0.98713	1.01813	1.10404	1.05417	0.99001	9.874
150 Dibenz(a,h)anthracene	0.93858	0.84314	0.98317	1.02518	1.10247	1.04518	0.98962	9.172
151 Benzo(g,h,i)perylene	1.06470	0.90052	1.01939	1.04142	1.10736	1.05766	1.03184	6.845
199 3-Picoline	1.83121	1.95604	2.06560	2.27820	2.36590	2.36794	2.14415	10.568
200 N,N-Dimethylacetamide	0.63421	0.69708	0.75287	0.81618	0.85919	0.81913	0.76311	11.160
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	1.96758	1.77887	1.92204	1.91423	1.89380	1.76768	1.87404	4.363

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-NOV-2000 15:05
 End Cal Date : 02-JAN-2001 12:42
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m
 Cal Date : 02-Jan-2001 13:20 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.09652	0.09424	0.11902	0.11176	0.11662	0.10500	0.10719	9.660
211 1,1'-Biphenyl	1.60600	1.43612	1.61359	1.71440	1.83306	1.68426	1.64790	8.042
212 Atrazine	0.25382	0.21266	0.23910	0.25240	0.25428	0.20903	0.23688	8.851
213 2-Chloroacetophenone	0.77266	0.81497	0.87528	0.96178	0.99012	1.01705	0.90531	10.993
\$ 154 Nitrobenzene-d5	0.73488	0.64817	0.74088	0.73269	0.75743	0.73638	0.72507	5.339
\$ 155 2-Fluorobiphenyl	1.36926	1.20604	1.33979	1.39625	1.41913	1.40999	1.35674	5.845
\$ 156 Terphenyl-d14	1.13297	1.02946	1.11363	1.13294	1.10541	1.09683	1.10187	3.480
\$ 157 Phenol-d5	1.77660	1.67492	1.86113	1.99196	2.11129	2.01225	1.90469	8.562
\$ 158 2-Fluorophenol	1.15197	1.25823	1.34249	1.49837	1.54837	1.46835	1.37796	11.166
\$ 159 2,4,6-Tribromophenol	0.12851	0.11919	0.14592	0.15361	0.16454	0.13738	0.14152	11.742
\$ 186 2-Chlorophenol-d4	1.16547	1.08249	1.20930	1.27274	1.37233	1.32734	1.23828	8.660
\$ 187 1,2-Dichlorobenzene-d4	0.91859	0.87171	0.94686	0.98711	1.03347	0.97727	0.95584	5.920

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP033

Lab File ID: 7DF0102A

DFTPP Injection Date: 01/02/01

Instrument ID: A4HP7

DFTPP Injection Time: 0918

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	78.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.7
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than mass 443	6.5
442	40.0 - 100.0% of mass 198	57.7
443	17.0 - 23.0% of mass 442	10.2 (17.6)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SM0102	01/02/01	0943
02	SSTD005	SSTD005	7SML0102	01/02/01	1022
03	SSTD002	SSTD002	7SL0102	01/02/01	1057
04	SSTD020	SSTD020	7SHH0102	01/02/01	1132
05	SSTD016	SSTD016	7SH0102	01/02/01	1207
06	SSTD012	SSTD012	7SMH0102	01/02/01	1242
07					
08	CCV			01/02/01	1413
09	CCV			01/02/01	1448
10	MPT-55-GW-DPW02			01/02/01	2059
11	MPT-47-GW-DPW04			01/02/01	2139
12	MPT-47-GW-DPW13			01/02/01	2209
13	MPT-47-GW-DPW14			01/02/01	2245
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:13
 Lab File ID: 7SM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.54230	1.51583	0.010	-1.7	50.0
10 N-Nitrosodimethylamine	1.25811	1.14638	0.010	-8.9	50.0
11 Ethyl methacrylate	2.13991	2.16061	0.010	1.0	50.0
12 3-Chloropropionitrile	0.50983	0.47868	0.010	-6.1	50.0
13 Malononitrile	1.68190	1.72304	0.010	2.4	50.0
209 Benzaldehyde	1.87404	1.98030	0.010	5.7	50.0
21 Aniline	2.76728	2.82280	0.010	2.0	50.0
22 Phenol	2.39273	2.39249	0.010	-0.0	20.0
23 bis(2-Chloroethyl)ether	1.86001	1.81649	0.010	-2.3	50.0
24 2-Chlorophenol	1.32207	1.32216	0.010	0.0	50.0
26 1,3-Dichlorobenzene	1.60716	1.57690	0.010	-1.9	50.0
27 1,4-Dichlorobenzene	1.60719	1.59684	0.010	-0.6	20.0
28 1,2-Dichlorobenzene	1.50617	1.48522	0.010	-1.4	50.0
29 Benzyl Alcohol	16.00000	16.09194	0.010	-0.6	50.0
30 2-Methylphenol	1.41409	1.47591	0.010	4.4	50.0
31 bis(2-Chloroisopropyl)ether	0.73842	0.73715	0.010	-0.2	50.0
37 Acetophenone	2.58493	2.69186	0.010	4.1	50.0
32 N-Nitroso-di-n-propylamine	1.90279	1.91881	0.050	0.8	50.0
192 4-Methylphenol	1.49873	1.50384	0.010	0.3	50.0
34 Hexachloroethane	0.78175	0.77065	0.010	-1.4	50.0
35 Nitrobenzene	0.76435	0.77417	0.010	1.3	50.0
41 Isophorone	1.20875	1.21366	0.010	0.4	50.0
42 2-Nitrophenol	0.18904	0.20016	0.010	5.9	20.0
43 2,4-Dimethylphenol	0.47299	0.48198	0.010	1.9	50.0
44 bis(2-Chloroethoxy)methane	0.59162	0.61572	0.010	4.1	50.0
46 2,4-Toluenediamine	++++	0.04350	0.010	+++	50.0 <-
47 1,3,5-Trichlorobenzene	0.40886	0.41394	0.010	1.2	50.0
48 2,4-Dichlorophenol	0.29400	0.30058	0.010	2.2	20.0
49 Benzoic Acid	0.11649	0.12287	0.010	5.5	50.0
50 1,2,4-Trichlorobenzene	0.36483	0.36796	0.010	0.9	50.0
51 Naphthalene	1.15381	1.15724	0.010	0.3	50.0
52 4-Chloroaniline	0.39034	0.41744	0.010	6.9	50.0
56 Hexachlorobutadiene	0.28673	0.28169	0.010	-1.8	20.0
210 Caprolactam	0.10719	0.12308	0.010	14.8	50.0
57 1,2,3-Trichlorobenzene	0.36790	0.37552	0.010	2.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:13
 Lab File ID: 7SM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
59 4-Chloro-3-Methylphenol	0.41286	0.43527	0.010	5.4	20.0
62 2-Methylnaphthalene	0.74052	0.74718	0.010	0.9	50.0
63 1-Methylnaphthalene	0.75004	0.76028	0.010	1.4	50.0
64 Hexachlorocyclopentadiene	16.00000	15.69741	0.050	1.9	50.0
66 2,4,6-Trichlorophenol	0.38782	0.38135	0.010	-1.7	20.0
67 2,4,5-Trichlorophenol	0.37768	0.37698	0.010	-0.2	50.0
211 1,1'-Biphenyl	1.64790	1.63624	0.010	-0.7	50.0
68 1,2,3,5-Tetrachlorobenzene	0.69984	0.68661	0.010	-1.9	50.0
70 2-Chloronaphthalene	1.17679	1.16387	0.010	-1.1	50.0
73 2-Nitroaniline	0.56760	0.58698	0.010	3.4	50.0
74 1,2,3,4-Tetrachlorobenzene	0.63575	0.62871	0.010	-1.1	50.0
76 Dimethylphthalate	1.39822	1.45560	0.010	4.1	50.0
78 2,6-Dinitrotoluene	0.29293	0.30367	0.010	3.7	50.0
79 Acenaphthylene	1.90511	1.89905	0.010	-0.3	50.0
80 1,2-Dinitrobenzene	0.13385	0.14492	0.010	8.3	50.0
81 3-Nitroaniline	0.24110	0.26315	0.010	9.1	50.0
82 Acenaphthene	1.18998	1.18176	0.010	-0.7	20.0
83 2,4-Dinitrophenol	16.00000	15.77996	0.050	1.4	50.0
85 4-Nitrophenol	0.26895	0.22002	0.050	-18.2	50.0
86 Dibenzofuran	1.59244	1.63367	0.010	2.6	50.0
87 2,4-Dinitrotoluene	0.38157	0.39808	0.010	4.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.34574	0.35220	0.010	1.9	50.0
93 Diethylphthalate	1.39068	1.41091	0.010	1.5	50.0
94 Fluorene	1.33382	1.38571	0.010	3.9	50.0
95 4-Chlorophenyl-phenylether	0.72360	0.75410	0.010	4.2	50.0
96 4-Nitroaniline	16.00000	16.37429	0.010	-2.3	50.0
98 4,6-Dinitro-2-methylphenol	16.00000	16.13689	0.010	-0.9	50.0
99 N-Nitrosodiphenylamine	0.55661	0.55554	0.010	-0.2	20.0
100 1,2-Diphenylhydrazine	1.49074	1.49346	0.010	0.2	50.0
106 4-Bromophenyl-phenylether	0.25339	0.25365	0.010	0.1	50.0
107 Hexachlorobenzene	0.27557	0.25418	0.010	-7.8	50.0
212 Atrazine	0.23688	0.24596	0.010	3.8	50.0
111 Pentachlorophenol	16.00000	15.06050	0.010	5.9	20.0
115 Phenanthrene	1.26975	1.26415	0.010	-0.4	50.0
116 Anthracene	1.17340	1.17749	0.010	0.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:13
 Lab File ID: 7SM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
119 Carbazole	0.93498	0.92065	0.010	-1.5	50.0
120 Di-n-Butylphthalate	1.48175	1.43304	0.010	-3.3	50.0
123 Fluoranthene	1.39396	1.39402	0.010	0.0	20.0
124 Benzidine	16.00000	14.93887	0.010	6.6	50.0
125 Pyrene	1.69572	1.72052	0.010	1.5	50.0
131 Butylbenzylphthalate	0.66462	0.67675	0.010	1.8	50.0
133 3,3'-Dimethoxybenzidine	16.00000	15.92862	0.010	0.4	50.0
135 3,3'-Dichlorobenzidine	0.42553	0.42436	0.010	-0.3	50.0
136 Benzo(a)Anthracene	1.38527	1.39145	0.010	0.4	50.0
137 Chrysene	1.38278	1.37055	0.010	-0.9	50.0
138 4,4'-Methylene bis(o-chloro	0.25722	0.25329	0.010	-1.5	50.0
139 bis(2-ethylhexyl)Phthalate	0.95084	0.93093	0.010	-2.1	50.0
140 Di-n-octylphthalate	1.83176	1.82563	0.010	-0.3	20.0
141 Benzo(b)fluoranthene	1.47890	1.50816	0.010	2.0	50.0
142 Benzo(k)fluoranthene	1.54223	1.46589	0.010	-4.9	50.0
146 Benzo(a)pyrene	1.27863	1.25174	0.010	-2.1	20.0
149 Indeno(1,2,3-cd)pyrene	0.99001	0.92882	0.010	-6.2	50.0
150 Dibenz(a,h)anthracene	0.98962	0.93377	0.010	-5.6	50.0
151 Benzo(g,h,i)perylene	1.03184	0.98457	0.010	-4.6	50.0
\$ 154 Nitrobenzene-d5	0.72507	0.73556	0.010	1.4	50.0
\$ 155 2-Fluorobiphenyl	1.35674	1.36159	0.010	0.4	50.0
\$ 156 Terphenyl-d14	1.10187	1.12778	0.010	2.4	50.0
\$ 157 Phenol-d5	1.90469	1.93256	0.010	1.5	50.0
\$ 158 2-Fluorophenol	1.37796	1.39205	0.010	1.0	50.0
\$ 159 2,4,6-Tribromophenol	0.14152	0.15689	0.010	10.9	50.0
\$ 186 2-Chlorophenol-d4	1.23828	1.23162	0.010	-0.5	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.95584	0.95400	0.010	-0.2	50.0
M 195 Cresols, total	2.91282	2.97975	0.010	2.3	50.0
101 Diphenylamine	0.55661	0.55554	0.010	-0.2	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\10102a.b\7AM0102G.D
Report Date: 02-Jan-2001 16:44

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:48
Lab File ID: 7AM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
Analysis Type: Init. Cal. Times: 15:05 12:42
Lab Sample ID: astd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	1.06982	0.88409	0.010	-17.4	50.0
8 Ethyl methanesulfonate	1.98303	1.67352	0.010	-15.6	50.0
14 2-Picoline	2.07601	1.84731	0.010	-11.0	50.0
15 N-Nitrosomethylethylamine	0.98160	0.62327	0.010	-36.5	50.0
16 Methyl methanesulfonate	1.89223	1.56082	0.010	-17.5	50.0
18 1,3-Dichloro-2-propanol	2.43007	2.09882	0.010	-13.6	50.0
19 N-Nitrosodiethylamine	0.97612	0.84425	0.010	-13.5	50.0
25 Pentachloroethane	0.58342	0.69434	0.010	19.0	50.0
36 N-Nitrosopyrrolidine	1.11832	0.83731	0.010	-25.1	50.0
37 Acetophenone	2.58493	2.66194	0.010	3.0	50.0
39 o-Toluidine	3.45778	2.83568	0.010	-18.0	50.0
40 N-Nitrosopiperidine	0.19637	0.19568	0.010	-0.4	50.0
45 O,O,O-Triethyl phosphorothi	0.22280	0.25157	0.010	12.9	50.0
53 a,a-Dimethyl-phenethylamine	16.00000	6.81919	0.010	57.4	50.0
54 2,6-Dichlorophenol	0.30223	0.29928	0.010	-1.0	50.0
55 Hexachloropropene	16.00000	19.10023	0.010	-19.4	50.0
58 N-Nitrosodi-n-butylamine	0.43869	0.42583	0.010	-2.9	50.0
60 p-Phenylene diamine	16.00000	10.69775	0.010	33.1	50.0
61 Safrole	0.31090	0.31209	0.010	0.4	50.0
65 1,2,4,5-Tetrachlorobenzene	0.68526	0.74641	0.010	8.9	50.0
71 Isosafrole 1	0.14704	0.15842	0.010	7.7	50.0
M 188 Isosafrole, Total	1.23261	1.21696	0.010	-1.3	50.0
72 Isosafrole 2	1.08557	1.05853	0.010	-2.5	50.0
75 1,4-Naphthoquinone	0.40542	0.40351	0.010	-0.5	50.0
84 Pentachlorobenzene	0.56310	0.63486	0.010	12.7	50.0
89 1-Naphthylamine	1.04666	0.94120	0.010	-10.1	50.0
92 2-Naphthylamine	0.96252	0.86650	0.010	-10.0	50.0
90 Sinophos	0.46262	0.46564	0.010	0.7	50.0
102 Tetraethyl dithiopyrophosph	0.13053	0.15551	0.010	19.1	50.0
103 Diallyl 1	1.12408	1.06862	0.010	-4.9	50.0
M 189 Diallyl, Total	5.31037	4.27182	0.010	-19.6	50.0
109 Diallyl 2	0.15414	0.16596	0.010	7.7	50.0
104 Phorate	0.19362	0.19157	0.010	-1.1	50.0
105 1,3,5-Trinitrobenzene	16.00000	22.22918	0.010	38.9	50.0
108 Phenacetin	0.45451	0.47615	0.010	6.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 02-JAN-2001 14:48
 Lab File ID: 7AM0102G.D Init. Cal. Date(s): 15-NOV-2000 02-JAN-2001
 Analysis Type: Init. Cal. Times: 15:05 12:42
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\10102a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.45145	0.42902	0.010	-5.0	50.0
112 Pentachloronitrobenzene	0.13035	0.16612	0.010	27.4	50.0
113 4-Aminobiphenyl	16.00000	13.27684	0.010	17.0	50.0
114 Pronamide	0.37320	0.42942	0.010	15.1	50.0
117 Dinoseb	16.00000	17.83823	0.010	-11.5	50.0
118 Disulfoton	0.67339	0.61560	0.010	-8.6	50.0
121 4-Nitroquinoline 1-oxide	16.00000	13.67266	0.010	14.5	50.0
122 Methapyrilene	0.22378	0.20885	0.010	-6.7	50.0
126 Aramite 1	0.11097	0.13074	0.010	17.8	50.0
M 191 Aramite, Total	0.76835	0.77683	0.010	1.1	50.0
127 Aramite 2	0.15058	0.17182	0.010	14.1	50.0
128 p-Dimethylamino azobenzene	0.34723	0.38190	0.010	10.0	50.0
129 p-Chlorobenzilate	0.69526	0.78795	0.010	13.3	50.0
130 Famphur	16.00000	14.92656	0.010	6.7	50.0
132 3,3'-Dimethylbenzidine	0.51429	0.54796	0.010	6.5	50.0
134 2-Acetylaminofluorene	0.47483	0.46035	0.010	-3.0	50.0
143 7,12-dimethylbenz[a]anthrac	16.00000	14.69012	0.010	8.2	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.85365	0.67609	0.010	-20.8	50.0
193 3-Methylphenol	16.00000	12.55433	0.010	21.5	50.0
69 1,4-Dinitrobenzene	16.00000	18.02037	0.010	-12.6	50.0
77 m-Dinitrobenzene	16.00000	16.63839	0.010	-4.0	50.0
198 1,4-Dioxane	0.76541	0.75966	0.010	-0.8	50.0
88 2,3,4,6-Tetrachlorophenol	0.31379	0.30116	0.010	-4.0	50.0
97 5-Nitro-o-toluidine	0.28591	0.30019	0.010	5.0	50.0
199 3-Picoline	2.14415	1.46980	0.010	-31.5	50.0
200 N,N-Dimethylacetamide	0.76311	0.54015	0.010	-29.2	50.0
213 2-Chloroacetophenone	0.90531	0.81130	0.010	-10.4	50.0

75966 - 76541 (100)
 .76541
 .75 ≈ -180
 DSS
 02/13/01

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP033

Lab File ID (Standard): 8SM1222

Date Analyzed: 12/22/00

Instrument ID: A4HP8

Time Analyzed: 0946

	IS1 (DCB) AREA #	RT	IS2 (NPT) AREA #	RT	IS3 (ANT) AREA #	RT
12 HOUR STD	225850	7.75	840327	10.22	534304	13.88
UPPER LIMIT	451700	8.25	1680654	10.72	1068608	14.38
LOWER LIMIT	112925	7.25	420164	9.72	267152	13.38
EPA SAMPLE NO.						
01 DRJWRBLK	235710	7.75	865751	10.22	550990	13.87
02 DRJWRCHK	237164	7.75	853419	10.22	527539	13.88
03 MPT-47-EB01	225453	7.75	821560	10.22	521534	13.87
04 MPT-47-GW-DP	219091	7.75	803459	10.22	506637	13.87
05 MPT-47-GW-DP	226397	7.75	843305	10.22	524827	13.87
06 MPT-47-GW-DP	217286	7.75	783666	10.22	493078	13.87
07 MPT-47-GW-DP	231892	7.75	842655	10.22	542929	13.88
08						
09						
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20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = +100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk.

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP033

Lab File ID (Standard): 8SM1222

Date Analyzed: 12/22/00

Instrument ID: A4HP8

Time Analyzed: 0946

	IS4 (PHN) AREA #	RT	IS5 (CRY) AREA #	RT	IS6 (PRY) AREA #	RT
-----	-----	-----	-----	-----	-----	-----
12 HOUR STD	887452	17.01	765551	22.62	540387	25.41
-----	-----	-----	-----	-----	-----	-----
UPPER LIMIT	1774904	17.51	1531102	23.12	1080774	25.91
-----	-----	-----	-----	-----	-----	-----
LOWER LIMIT	443726	16.51	382776	22.12	270194	24.91
-----	-----	-----	-----	-----	-----	-----
EPA SAMPLE NO.						
-----	-----	-----	-----	-----	-----	-----
01 DRJWRBLK	884305	17.01	700650	22.62	562848	25.41
02 DRJWRCHK	817199	17.01	576444	22.62	443288	25.41
03 MPT-47-EB01	860664	17.01	683045	22.62	560639	25.41
04 MPT-47-GW-DP	859963	17.01	722545	22.61	586614	25.41
05 MPT-47-GW-DP	871824	17.01	720891	22.62	536169	25.41
06 MPT-47-GW-DP	793010	17.01	558447	22.62	395902	25.41
07 MPT-47-GW-DP	855075	17.01	535227	22.62	387909	25.41
08						
09						
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17						
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19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

UPPER LIMIT = +100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk.

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L150200

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	MPT-47-EB01	98	91	118	98	89	104	00
02	MPT-47-GW-DPW06	91	90	98	91	84	101	00
03	MPT-47-GW-DPW05	93	90	75	95	85	106	00
04	MPT-47-GW-DUO2	89	85	99	88	79	100	00
05	METHOD BLK. DRJWR1AA	92	83	112	95	86	94	00
06	LCS DRJWR1AC	85	82	102	84	77	90	00
07	MPT-47-GW-DPW05 D	94	86	103	92	82	99	00
08	MPT-47-GW-DPW05 S	92	85	109	89	80	99	00

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = Phenol-d5
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(32-112)
 (30-110)
 (10-144)
 (10-113)
 (13-110)
 (21-122)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L160126

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	MPT-53-GW-DPW02	85	30	50	68	77	97	00
02	MPT-47-GW-DPW09	91	34	55	96	89	104	00
03	MPT-47-GW-DPW13	70	27	39	73	70	85	00
04	MPT-47-GW-DPW14	88	31	48	88	85	99	00
05	METHOD BLK. DRKT41AA	89	49	70	34	86	101	00
06	LCS DRKT41AC	76	40	48	64	76	77	00
07	LCSD DRKT41AD	86	47	51	60	86	106	00

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Phenol-d5
 SRG03 = 2-Fluorophenol
 SRG04 = 2,4,6-Tribromophenol
 SRG05 = 2-Fluorobiphenyl
 SRG06 = Terphenyl-d14

QC LIMITS

(32-112)
 (10-113)
 (13-110)
 (21-122)
 (30-110)
 (10-144)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L160000

WO #: DRJWR1AC

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4,5-Trichlorophenol	50	43	86	41- 125	
4-Methylphenol	100	77	77	29- 144	
4-Nitroaniline	50	40	81	32- 106	
Acenaphthylene	50	42	84	48- 101	
Anthracene	50	44	88	56- 105	
Benzo (a) anthracene	50	42	85	56- 109	
Benzo (a) pyrene	50	41	81	50- 100	
Benzo (b) fluoranthene	50	42	83	52- 108	
Benzo (ghi) perylene	50	48	95	45- 115	
Benzo (k) fluoranthene	50	41	83	53- 112	
bis (2-Chloroethoxy) methan	50	42	83	39- 109	
bis (2-Chloroethyl) ether	50	43	86	45- 103	
2,2'-Oxybis (1-Chloropropa	50	39	77	49- 136	
bis (2-Ethylhexyl) phthala	50	46	91	56- 127	
2,4,6-Trichlorophenol	50	43	86	46- 135	
2,4-Dichlorophenol	50	42	84	48- 101	
2,4-Dimethylphenol	50	16	31	10- 88	
2,4-Dinitrophenol	50	35	69	21- 143	
2,6-Dinitrotoluene	50	45	90	62- 114	
2-Chloronaphthalene	50	42	83	51- 106	
2-Methylnaphthalene	50	41	82	49- 98	
2-Methylphenol	50	37	74	33- 115	
2-Nitroaniline	50	44	89	55- 119	
2-Nitrophenol	50	42	84	43- 104	
3,3'-Dichlorobenzidine	50	32	64	20- 76	
3-Nitroaniline	50	43	86	33- 107	
4,6-Dinitro-2-methylpheno	50	39	78	37- 137	
4-Bromophenyl phenyl ethe	50	43	85	57- 114	
4-Chloroaniline	50	38	76	19- 82	
4-Chlorophenyl phenyl eth	50	43	86	57- 114	
Butyl benzyl phthalate	50	41	83	53- 113	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L160000

WO #: DRJWR1AC

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Carbazole	50	46	91	37- 114	
Chrysene	50	44	88	59- 112	
Dibenz (a, h) anthracene	50	50	101	50- 112	
Dibenzofuran	50	44	88	55- 107	
Diethyl phthalate	50	12	23*	48- 112	a
Dimethyl phthalate	50	3.9	7*	46- 117	a
Di-n-octyl phthalate	50	42	85	49- 127	
Fluoranthene	50	45	90	53- 116	
Fluorene	50	44	89	57- 107	
Hexachlorobenzene	50	43	86	57- 128	
Hexachlorobutadiene	50	35	70	36- 116	
Hexachloroethane	50	33	66	30- 110	
Isophorone	50	41	82	48- 103	
Naphthalene	50	42	83	46- 95	
Nitrobenzene	50	44	87	45- 130	
N-Nitrosodiphenylamine	50	41	82	47- 112	
Phenanthrene	50	44	88	58- 110	
Indeno (1,2,3-cd) pyrene	50	47	94	49- 114	
Di-n-butyl phthalate	50	37	74	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a
Benzoic acid	50	36	72	50- 130	
1,2,4-Trichlorobenzene	50	39	77	31- 110	
Acenaphthene	50	43	85	39- 118	
2,4-Dinitrotoluene	50	43	86	47- 131	
Pyrene	50	51	102	46- 130	
N-Nitrosodi-n-propylamine	50	41	81	30- 115	
1,4-Dichlorobenzene	50	36	73	28- 110	
Pentachlorophenol	50	42	84	10- 140	
Phenol	50	42	83	10- 131	
2-Chlorophenol	50	41	83	19- 124	
4-Chloro-3-methylphenol	50	40	80	29- 124	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L160000

WO #: DRJWR1AC

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
4-Nitrophenol	50	47	93	19- 144	
1,2-Dichlorobenzene	50	38	76	39- 90	
1,3-Dichlorobenzene	50	36	72	34- 85	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L180000

WO #: DRKT41AC

BATCH: 0353103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	38	75	31- 110	
Acenaphthene	50	37	75	39- 118	
2,4-Dinitrotoluene	50	40	80	47- 131	
Pyrene	50	36	72	46- 130	
N-Nitrosodi-n-propylamine	50	39	77	30- 115	
1,4-Dichlorobenzene	50	34	68	28- 110	
Pentachlorophenol	50	9.9	20	10- 140	
Phenol	50	20	40	10- 131	
2-Chlorophenol	50	33	65	19- 124	
4-Chloro-3-methylphenol	50	36	73	29- 124	
4-Nitrophenol	50	10	20	19- 144	
1,2-Dichlorobenzene	50	35	69	39- 90	
1,3-Dichlorobenzene	50	33	67	34- 85	
2,4,5-Trichlorophenol	50	31	63	41- 125	
4-Methylphenol	100	66	66	29- 144	
4-Nitroaniline	50	29	57	32- 106	
Acenaphthylene	50	38	75	48- 101	
Anthracene	50	39	78	56- 105	
Benzo (a) anthracene	50	36	72	56- 109	
Benzo (a) pyrene	50	37	74	50- 100	
Benzo (b) fluoranthene	50	36	73	52- 108	
Benzo (ghi) perylene	50	38	75	45- 115	
Benzo (k) fluoranthene	50	36	72	53- 112	
bis (2-Chloroethoxy) methan	50	37	74	39- 109	
bis (2-Chloroethyl) ether	50	38	76	45- 103	
2,2'-Oxybis (1-Chloropropa	50	40	80	49- 136	
bis (2-Ethylhexyl) phthala	50	40	79	56- 127	
2,4,6-Trichlorophenol	50	32	64	46- 135	
2,4-Dichlorophenol	50	33	66	48- 101	
2,4-Dimethylphenol	50	34	68	10- 88	
2,4-Dinitrophenol	50	27	53	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L180000

WO #: DRKT41AC

BATCH: 0353103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	44	87	62- 114	
2-Chloronaphthalene	50	37	74	51- 106	
2-Methylnaphthalene	50	36	73	49- 98	
2-Methylphenol	50	34	69	33- 115	
2-Nitroaniline	50	41	83	55- 119	
2-Nitrophenol	50	32	65	43- 104	
3,3'-Dichlorobenzidine	50	24	48	20- 76	
3-Nitroaniline	50	38	75	33- 107	
4,6-Dinitro-2-methylpheno	50	29	58	37- 137	
4-Bromophenyl phenyl ethe	50	39	79	57- 114	
4-Chloroaniline	50	31	61	19- 82	
4-Chlorophenyl phenyl eth	50	41	82	57- 114	
Butyl benzyl phthalate	50	37	75	53- 113	
Carbazole	50	34	68	37- 114	
Chrysene	50	34	69	59- 112	
Dibenz (a, h) anthracene	50	38	77	50- 112	
Dibenzofuran	50	39	78	55- 107	
Diethyl phthalate	50	38	75	48- 112	
Dimethyl phthalate	50	31	61	46- 117	
Di-n-octyl phthalate	50	41	81	49- 127	
Fluoranthene	50	37	75	53- 116	
Fluorene	50	39	79	57- 107	
Hexachlorobenzene	50	36	71	57- 128	
Hexachlorobutadiene	50	34	67	36- 116	
Hexachloroethane	50	35	69	30- 110	
Isophorone	50	36	72	48- 103	
Naphthalene	50	36	72	46- 95	
Nitrobenzene	50	38	75	45- 130	
N-Nitrosodiphenylamine	50	39	78	47- 112	
Phenanthrene	50	37	74	58- 110	
Indeno(1,2,3-cd)pyrene	50	38	76	49- 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP033

Lot #: A0L180000

WO #: DRKT41AC

BATCH: 0353103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	36	73	59- 108	
Hexachlorocyclopentadiene	50	30	60	10- 81	
Benzoic acid	50	8.7	17*	50- 130	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L180000

WO #: DRKT41AD

BATCH: 0353103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	42	84	31- 110	
Acenaphthene	50	43	87	39- 118	
2,4-Dinitrotoluene	50	49	99	47- 131	
Pyrene	50	48	96	46- 130	
N-Nitrosodi-n-propylamine	50	47	95	30- 115	
1,4-Dichlorobenzene	50	39	79	28- 110	
Pentachlorophenol	50	9.9	20	10- 140	
Phenol	50	24	48	10- 131	
2-Chlorophenol	50	38	75	19- 124	
4-Chloro-3-methylphenol	50	43	85	29- 124	
4-Nitrophenol	50	10	21	19- 144	
1,2-Dichlorobenzene	50	41	82	39- 90	
1,3-Dichlorobenzene	50	39	77	34- 85	
2,4,5-Trichlorophenol	50	34	67	41- 125	
4-Methylphenol	100	80	80	29- 144	
4-Nitroaniline	50	42	84	32- 106	p
Acenaphthylene	50	43	86	48- 101	
Anthracene	50	48	96	56- 105	p
Benzo (a) anthracene	50	45	89	56- 109	p
Benzo (a) pyrene	50	45	90	50- 100	p
Benzo (b) fluoranthene	50	48	97	52- 108	p
Benzo (ghi) perylene	50	39	78	45- 115	
Benzo (k) fluoranthene	50	45	89	53- 112	p
bis (2-Chloroethoxy) methan	50	42	84	39- 109	
bis (2-Chloroethyl) ether	50	44	88	45- 103	
2,2'-Oxybis (1-Chloropropa	50	47	94	49- 136	
bis (2-Ethylhexyl) phtala	50	51	103	56- 127	p
2,4,6-Trichlorophenol	50	32	64	46- 135	
2,4-Dichlorophenol	50	38	76	48- 101	
2,4-Dimethylphenol	50	39	77	10- 88	
2,4-Dinitrophenol	50	29	57	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L180000

WO #: DRKT41AD

BATCH: 0353103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	48	96	62 - 114	
2-Chloronaphthalene	50	43	86	51 - 106	
2-Methylnaphthalene	50	42	85	49 - 98	
2-Methylphenol	50	41	82	33 - 115	
2-Nitroaniline	50	50	99	55 - 119	p
2-Nitrophenol	50	35	69	43 - 104	
3,3'-Dichlorobenzidine	50	25	51	20 - 76	
3-Nitroaniline	50	50	99	33 - 107	p
4,6-Dinitro-2-methylpheno	50	31	61	37 - 137	
4-Bromophenyl phenyl ethe	50	46	92	57 - 114	
4-Chloroaniline	50	40	81	19 - 82	
4-Chlorophenyl phenyl eth	50	47	94	57 - 114	
Butyl benzyl phthalate	50	50	99	53 - 113	p
Carbazole	50	42	85	37 - 114	p
Chrysene	50	42	84	59 - 112	p
Dibenz(a,h)anthracene	50	39	79	50 - 112	
Dibenzofuran	50	46	91	55 - 107	
Diethyl phthalate	50	43	85	48 - 112	
Dimethyl phthalate	50	34	68	46 - 117	
Di-n-octyl phthalate	50	60	119	49 - 127	p
Fluoranthene	50	45	89	53 - 116	
Fluorene	50	46	92	57 - 107	
Hexachlorobenzene	50	42	83	57 - 128	
Hexachlorobutadiene	50	38	75	36 - 116	
Hexachloroethane	50	40	81	30 - 110	
Isophorone	50	41	82	48 - 103	
Naphthalene	50	42	84	46 - 95	
Nitrobenzene	50	42	85	45 - 130	
N-Nitrosodiphenylamine	50	49	98	47 - 112	p
Phenanthrene	50	44	89	58 - 110	
Indeno(1,2,3-cd)pyrene	50	38	76	49 - 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Lot #: A0L180000

WO #: DRKT41AD

BATCH: 0353103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	43	85	59- 108	
Hexachlorocyclopentadiene	50	35	70	10- 81	
Benzoic acid	50	10	20*	50- 130	a

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Matrix Spike ID: MPT-47-GW-DPW05

Lot #: A0L150200

WO #: DRHE41DA

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100	ND	85	85	22 - 110	
Acenaphthene	100	3.5	92	88	26 - 118	
2,4-Dinitrotoluene	100	ND	91	91	31 - 131	
Pyrene	100	ND	110	112	27 - 138	
N-Nitrosodi-n-propylamine	100	ND	85	85	18 - 115	
1,4-Dichlorobenzene	100	ND	80	80	18 - 110	
Pentachlorophenol	100	ND	100	102	10 - 140	
Phenol	100	ND	86	86	10 - 131	
2-Chlorophenol	100	ND	86	86	19 - 124	
4-Chloro-3-methylphenol	100	ND	87	87	21 - 124	
4-Nitrophenol	100	ND	110	111	10 - 145	
Acenaphthylene	100	ND	86	86	48 - 96	
Anthracene	100	ND	89	89	52 - 101	
Benzo (a) anthracene	100	ND	88	88	52 - 110	
Benzo (b) fluoranthene	100	ND	92	92	48 - 107	
Benzo (k) fluoranthene	100	ND	92	92	53 - 109	
Benzo (ghi) perylene	100	ND	94	94	48 - 109	
Benzo (a) pyrene	100	ND	86	86	47 - 98	
bis (2-Chloroethoxy) methan	100	ND	87	87	40 - 101	
bis (2-Chloroethyl) ether	100	ND	90	90	36 - 104	
2,2'-Oxybis (1-Chloropropa	100	ND	82	82	43 - 133	
bis (2-Ethylhexyl) phthala	100	ND	100	101	44 - 133	
4-Bromophenyl phenyl ethe	100	ND	85	85	56 - 110	
Butyl benzyl phthalate	100	ND	87	87	46 - 115	
Carbazole	100	ND	92	92	42 - 115	
4-Chloroaniline	100	ND	7.1	7*	13 - 71	a
2-Chloronaphthalene	100	ND	86	86	46 - 104	
4-Chlorophenyl phenyl eth	100	ND	89	89	55 - 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Matrix Spike ID: MPT-47-GW-DPW05

Lot #: AOL150200

WO #: DRHE41DA

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Chrysene	100	ND	93	93	54- 115	
1,2-Dichlorobenzene	100	ND	83	83	33- 91	
1,3-Dichlorobenzene	100	ND	79	79	30- 86	
Dibenz (a,h) anthracene	100	ND	100	102	49- 110	
Dibenzofuran	100	ND	92	92	53- 104	
Di-n-butyl phthalate	100	ND	69	69	53- 109	
3,3'-Dichlorobenzidine	100	ND	0.0	0*	10- 71	a
2,4-Dichlorophenol	100	ND	91	91	43- 103	
Diethyl phthalate	100	ND	20	20*	36- 117	a
2,4-Dimethylphenol	100	ND	51	51	10- 88	
Dimethyl phthalate	100	ND	11	11*	32- 124	a
4,6-Dinitro-2-methylpheno	100	ND	93	93	46- 123	
2,4-Dinitrophenol	100	ND	97	97	30- 133	
2,6-Dinitrotoluene	100	ND	93	93	58- 109	
Di-n-octyl phthalate	100	ND	100	104	46- 124	
Fluoranthene	100	ND	98	98	51- 113	
Fluorene	100	ND	91	91	54- 105	
Hexachlorobenzene	100	ND	88	88	36- 132	
Hexachlorobutadiene	100	ND	77	77	18- 116	
Hexachlorocyclopentadiene	100	ND		0*	10- 45	
Hexachloroethane	100	ND	76	76	18- 110	
Indeno (1,2,3-cd) pyrene	100	ND	98	98	48- 113	
Isophorone	100	ND	88	88	42- 102	
2-Methylnaphthalene	100	ND	88	88	39- 102	
2-Methylphenol	100	ND	80	80	29- 115	
4-Methylphenol	200	ND	170	83	25- 144	
Naphthalene	100	ND	90	90	39- 96	
2-Nitroaniline	100	ND	83	83	44- 116	

(Continued on next page)

SW846 B270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Matrix Spike ID: MPT-47-GW-DPW05

Lot #: A0L150200

WO #: DRHE41DA

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS & REC	LIMITS REC	QUAL
3-Nitroaniline	100	ND	3.8	3*	20 - 102	a
4-Nitroaniline	100	ND	32	32	25 - 95	
Nitrobenzene	100	ND	95	95	10 - 211	
2-Nitrophenol	100	ND	90	90	35 - 104	
N-Nitrosodiphenylamine	100	ND	67	67	53 - 99	
Phenanthrene	100	ND	92	92	55 - 109	
2,4,5-Trichlorophenol	100	ND	90	90	24 - 143	
2,4,6-Trichlorophenol	100	ND	90	90	36 - 135	
Benzoic acid	100	ND	120	119	50 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 6 out of 65 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Matrix Spike ID: MPT-47-GW-DPW05

Lot #: A0L150200

WO #: DRHE41DC

BATCH: 0351095

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	88	88	3.8	37	22- 110	
Acenaphthene	100	94	90	2.1	35	26- 118	
2,4-Dinitrotoluene	100	95	95	4.8	32	31- 131	
Pyrene	100	110	114	2.0	31	27- 138	
N-Nitrosodi-n-propylamine	100	89	89	4.5	36	18- 115	
1,4-Dichlorobenzene	100	84	84	5.6	36	18- 110	
Pentachlorophenol	100	100	103	1.0	56	10- 140	
Phenol	100	90	90	4.9	43	10- 131	
2-Chlorophenol	100	90	90	4.3	43	19- 124	
4-Chloro-3-methylphenol	100	93	93	6.4	55	21- 124	
4-Nitrophenol	100	110	109	2.0	34	10- 145	
Acenaphthylene	100	89	89	3.2	21	48- 96	
Anthracene	100	89	89	0.14	18	52- 101	
Benzo (a) anthracene	100	86	86	1.7	16	52- 110	
Benzo (b) fluoranthene	100	86	86	7.2	20	48- 107	
Benzo (k) fluoranthene	100	84	84	9.7	20	53- 109	
Benzo (ghi) perylene	100	90	90	3.6	17	48- 109	
Benzo (a) pyrene	100	81	81	6.3	18	47- 98	
bis (2-Chloroethoxy) methan	100	92	92	5.4	40	40- 101	
bis (2-Chloroethyl) ether	100	94	94	3.4	26	36- 104	
2,2'-Oxybis (1-Chloropropa	100	85	85	4.5	25	43- 133	
bis (2-Ethylhexyl) phthala	100	100	104	2.8	23	44- 133	
4-Bromophenyl phenyl ethe	100	88	88	3.5	17	56- 110	
Butyl benzyl phthalate	100	87	87	1.0	18	46- 115	
Carbazole	100	97	97	5.0	21	42- 115	
4-Chloroaniline	100	81	81*	168*	41	13- 71	a p
2-Chloronaphthalene	100	88	88	1.9	25	46- 104	
4-Chlorophenyl phenyl eth	100	90	90	1.2	19	55- 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Matrix Spike ID: MPT-47-GW-DPW05

Lot #: A0L150200

WO #: DRHE41DC

BATCH: 0351095

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Chrysene	100	90	90	3.4	16	54- 115	
Dibenz (a, h) anthracene	100	96	96	5.8	18	49- 110	
Dibenzofuran	100	95	94	2.9	20	53- 104	
Di-n-butyl phthalate	100	68	68	2.2	17	53- 109	
1,2-Dichlorobenzene	100	87	87	4.0	29	33- 91	
1,3-Dichlorobenzene	100	84	84	5.4	31	30- 86	
3,3'-Dichlorobenzidine	100	29	29	200*	36	10- 71	p
2,4-Dichlorophenol	100	96	96	5.4	26	43- 103	
Diethyl phthalate	100	19	19*	1.4	20	36- 117	a
2,4-Dimethylphenol	100	47	47	9.5	28	10- 88	
Dimethyl phthalate	100	8.5	8*	22	22	32- 124	a
4,6-Dinitro-2-methylpheno	100	98	98	5.6	24	46- 123	
2,4-Dinitrophenol	100	100	101	4.3	32	30- 133	
2,6-Dinitrotoluene	100	99	99	5.9	16	58- 109	
Di-n-octyl phthalate	100	100	100	3.7	22	46- 124	
Fluoranthene	100	89	89	9.4	19	51- 113	
Fluorene	100	94	94	3.5	19	54- 105	
Hexachlorobenzene	100	87	87	1.7	22	36- 132	
Hexachlorobutadiene	100	80	80	3.2	32	18- 116	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10- 45	a
Hexachloroethane	100	80	80	4.6	33	18- 110	
Indeno(1,2,3-cd)pyrene	100	89	89	9.5	19	48- 113	
Isophorone	100	92	92	4.1	25	42- 102	
2-Methylnaphthalene	100	91	91	3.8	28	39- 102	
2-Methylphenol	100	84	84	4.5	31	29- 115	
4-Methylphenol	200	170	86	4.2	33	25- 144	
Naphthalene	100	93	93	3.8	26	39- 96	
2-Nitroaniline	100	98	98	16	17	44- 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP033

Matrix Spike ID: MPT-47-GW-DPW05

Lot #: A0L150200

WO #: DRHE41DC

BATCH: 0351095

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	100	87	87	183 *	23	20- 102	p
4-Nitroaniline	100	90	90	95 *	26	25- 95	p
Nitrobenzene	100	96	96	1.2	50	10- 211	
2-Nitrophenol	100	95	95	5.6	26	35- 104	
N-Nitrosodiphenylamine	100	89	89	29 *	18	53- 99	p
Phenanthrene	100	92	92	0.43	18	55- 109	
2,4,5-Trichlorophenol	100	97	97	7.3	22	24- 143	
2,4,6-Trichlorophenol	100	95	95	5.1	27	36- 135	
Benzoic acid	100	130	126	5.1	50	50- 130	

NOTES(S):

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 5 out of 65 outside limits
 Spike Recovery: 4 out of 65 outside limits

COMMENTS:

CLIENT NS Mayport		JOB NUMBER	
SUBJECT Sample Calculation			
BASED ON MPT-47-GW-DPW05		DRAWING NUMBER	
BY DSS	CHECKED BY	APPROVED BY	DATE 02/13/01

Fraction: Semivolatiles

$$\mu\text{g/L} = \frac{A_u (I_s) (V_i) (DF) (GPC)}{A_{is} (RRF) (V_i) (V_o)}$$

Matrix: Groundwater

Compound: Acetophatone

Form I Final Result: 3.5 $\mu\text{g/L}$

$A_u = 98272$ Area

$$\mu\text{g/L} = \frac{98272 \text{ Area} (8.0 \text{ mg}) (5000 \text{ ul}) (1) (1)}{524847 \text{ Area} (1.05785) (2.0 \text{ ul}) (1000 \text{ ml})}$$

$I_s = 8.0 \text{ mg}$

$$= 3.54 \text{ ng/ml} = 3.5 \mu\text{g/L}$$

$V_i = 5 \text{ ml} = 5000 \text{ ul}$

$DF = 1$

$GPC = 1$

$A_{is} = 524847$ Area

$RRF = 1.05785$

$V_i = 2.0 \text{ ul}$

$V_o = 1000 \text{ ml}$

STL - North Canton

Semivolatile REPORT SW-846 Method 8270
 Data file : \\qcanoh05\dd\chem\MSS\a4hp8.i\01222a.b\DRHE41AK.D
 Lab Smp Id: DRHE41AK Client Smp ID: MPT-47-GW-DPW05
 Inj Date : 22-DEC-2000 16:03
 Operator : 46900 Inst ID: a4hp8.i
 Smp Info : drhe41ak,01222a.b,82701,5-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp8.i\01222a.b\82701.m
 Meth Date : 26-Dec-2000 11:11 ulmanm Quant Type: ISTD
 Cal Date : 18-DEC-2000 22:45 Cal File: 8AHH1218.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 5-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV03

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.747	7.750 (1.000)	226397	8.00000		
* 2 Naphthalene-d8	136	10.219	10.222 (1.000)	843305	8.00000		
* 3 Acenaphthene-d10	164	13.874	13.877 (1.000)	524827	8.00000		
* 4 Phenanthrene-d10	188	17.009	17.012 (1.000)	871824	8.00000		
* 5 Chrysene-d12	240	22.616	22.619 (1.000)	720891	8.00000		
* 6 Perylene-d12	264	25.410	25.413 (1.000)	536169	8.00000		
7 N-Nitrosomorpholine	56	Compound Not Detected.					
8 Ethyl methanesulfonate	79	Compound Not Detected.					
9 Pyridine	79	Compound Not Detected.					
10 N-Nitrosodimethylamine	74	Compound Not Detected.					
11 Ethyl methacrylate	69	Compound Not Detected.					
12 3-Chloropropionitrile	54	Compound Not Detected.					
13 Malononitrile	66	Compound Not Detected.					
14 2-Picoline	93	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
62 2-Methylnaphthalene	142				Compound Not Detected.		
63 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	237				Compound Not Detected.		
65 1,2,4,5-Tetrachlorobenzene	216				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
205 1,1'-Biphenyl	154				Compound Not Detected.		
68 1,2,3,5-Tetrachlorobenzene	216				Compound Not Detected.		
69 1,4-Dinitrobenzene	168				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
71 Isosafrole 1	162				Compound Not Detected.		
M 188 Isosafrole, Total	162				Compound Not Detected.		
72 Isosafrole 2	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
74 1,2,3,4-Tetrachlorobenzene	216				Compound Not Detected.		
75 1,4-Naphthoquinone	158				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
77 m-Dinitrobenzene	168				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
80 1,2-Dinitrobenzene	168				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153	13.941	13.944	(1.005)	98272	1.41605	3.5401
83 2,4-Dinitrophenol	184				Compound Not Detected.		
84 Pentachlorobenzene	250				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
89 1-Naphthylamine	143				Compound Not Detected.		
90 Zinophos	97				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
101 Diphenylamine	169				Compound Not Detected.		
102 Tetraethyl dithiopyrophosphat	202				Compound Not Detected.		
103 Diallate 1	86				Compound Not Detected.		
M 189 Diallate, Total	100				Compound Not Detected.		
104 Phorate	121				Compound Not Detected.		
105 1,3,5-Trinitrobenzene	213				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/18/00
Time: 9:03:58

<u>LEV</u>	<u>LEV</u>	<u>LEV</u>	<u>LEV</u>
1	2	1	2
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y

Blank
Check
MS/MSD

Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to Analytical Group
Y Bench Sheet Copied per COC

Extractionist: 001935 Eric S. Miller

Concentrationist: 001935 Eric S. Miller

Reviewer/Date: MILLERE / 12/18/00

* QC BATCH: 0351095 *
*

PREP DATE: 12/16/00
COMP DATE: 12/18/00

Base/Neutrals and Acids (8270C)
LIQ/LIQ, CONT (B/N/A) - Base->Acid

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1 ADJ2	SOLVENTS EXTRACTION VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/21/00 COMMENTS:	1/02/01	AOL150200-001 DRHED-1-AA	D	OT	QL	WATER	1000mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SUP #93710
12/21/00 COMMENTS:	1/02/01	AOL150200-002 DRHKL-1-AK	D	OT	QL	WATER	1000mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SUP #93710
12/21/00 COMMENTS:	1/02/01	AOL150200-003 DRHE4-1-AK	D	OT	QL	WATER	1000mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SUP #93710
12/21/00 COMMENTS:	1/02/01	AOL150200-003 DRHE4-1-DAS	D	OT	QL	WATER	500mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SPIKE #92010 0.5ML SUP #93710
12/21/00 COMMENTS:	1/02/01	AOL150200-003 DRHE4-1-DCD	D	OT	QL	WATER	500mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SPIKE #92010 0.5ML SUP #93710
12/21/00 COMMENTS:	1/02/01	AOL150200-004 DRHFD-1-AK	D	OT	QL	WATER	1000mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SUP #93710
12/15/00 COMMENTS:	1/04/01	AOL150238-001 DRHTJ-1-AC	D	OT	QL	WATER	1000mL 5.00mL	7.0 12.0 2.0	DCM	250.0	.0 0.5ML SUP #93710

TO: T. HANSEN – PAGE 2
DATE: APRIL 19, 2001

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level (aqueous)</u>
Aluminum	28.2 µg/L	141 µg/L
Barium	0.3 µg/L	1.5 µg/L
Beryllium	0.3 µg/L	1.5 µg/L
Calcium ⁽¹⁾	40.7 µg/L	203.5 µg/L
Magnesium	24.5 µg/L	122.5 µg/L
Manganese ⁽¹⁾	2.2 µg/L	11.0 µg/L
Mercury	0.10 µg/L	0.50 µg/L
Potassium	160 µg/L	800 µg/L
Zinc ⁽¹⁾	3.1 µg/L	15.5 µg/L

⁽¹⁾ Maximum concentration present in an aqueous preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action levels for aluminum, beryllium, manganese and zinc were qualified, "U", as a result of blank contamination.

Laboratory Control Sample Results

The Laboratory Control Sample (LCS) percent recovery for cyanide was < 80% quality control limit. All nondetected results reported for cyanide were qualified as estimated, "UJ".

ICP Serial Dilution Results

The ICP serial dilution percent difference for zinc was >10% quality control limit. The positive result reported for zinc was qualified as estimated, "J".

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks. Cyanide was qualified due to LCS noncompliance.

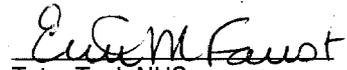
Other Factors Affecting Data Quality: Zinc was qualified due to ICP serial dilution noncompliance.

TO: T. HANSEN – PAGE 3
DATE: APRIL 19, 2001

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS
Erin M. Faust
Environmental Scientist


TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity

**CTO091-MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
ALUMINUM	80.1	U	A	100	U	A	24.7	U	A	30.6	U	A
ANTIMONY	5.0	U										
ARSENIC	2.4	U		2.4	U		2.4	U		4.2		
BARIUM	6.8			1.7			3.3			15.5		
BERYLLIUM	0.11	U	A	0.10	U		0.11	U	A	0.16	U	A
CADMIUM	0.28	U										
CALCIUM	107000			13800			47200			125000		
CHROMIUM	1.4	U										
COBALT	1.3	U										
COPPER	0.77	U										
IRON	1420			61.1			499			7850		
LEAD	1.8	U										
MAGNESIUM	18500			19100			18400			24200		
MANGANESE	42.2			3.9	U	A	14.3			292		
MERCURY	0.10	U										
MOLYBDENUM	4.2			2.7	U		2.7	U		20.2		
NICKEL	1.5	U		1.8			1.5	U		1.6		
POTASSIUM	5850			33200			10300			8710		
SELENIUM	4.2	U										
SILVER	1.5	U										
SODIUM	51700			251000			18800			101000		
THALLIUM	8.0	U										
TIN	5.7	U										
VANADIUM	0.89	U		1.1			2.8			0.89	U	
ZINC	89.8	J	I	7.7	U	A	2.1	U	A	3.7	U	A

**CTO091-MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-FP-DUP-01		
SAMPLE DATE:	03/13/01	//	//
LABORATORY ID:	A1C140217005		//
QC_TYPE:	NORMAL		
% SOLIDS:	0.0 %	100.0 %	100.0 %
UNITS:	UG/L		
FIELD DUPLICATE OF:	MPT-FP-DPW01S-01		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	31.8	U	A									
ANTIMONY	5.0	U										
ARSENIC	3.8											
BARIUM	15.4											
BERYLLIUM	0.10	U										
CADMIUM	0.28	U										
CALCIUM	129000											
CHROMIUM	1.4	U										
COBALT	1.3	U										
COPPER	0.77	U										
IRON	8100											
LEAD	1.8	U										
MAGNESIUM	25000											
MANGANESE	300											
MERCURY	0.10	U										
MOLYBDENUM	19.7											
NICKEL	2.0											
POTASSIUM	8960											
SELENIUM	4.2	U										
SILVER	1.5	U										
SODIUM	102000											
THALLIUM	8.0	U										
TIN	5.7	U										
VANADIUM	0.89	U										
ZINC	9.6	U	A									

**CTO091-MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANIC PARAMETERS												
CYANIDE(UG/L)	10	UJ	E									

CTO091-MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP039

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 FIELD DUPLICATE OF:

MPT-FP-DUP-01
 03/13/01
 A1C140217005
 NORMAL
 0.0 %

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE									
INORGANIC PARAMETERS												
CYANIDE(UG/L)	10	UJ	E									

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	80.1	B	1	ICPST	3/24/01	21:22
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/24/01	21:22
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/24/01	21:22
Barium	493.41	0.18	200	6.8	B	1	ICPST	3/24/01	21:22
Beryllium	313.04	0.10	5.0	0.11	B	1	ICPST	3/24/01	21:22
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/24/01	21:22
Calcium	317.93	11.6	5000	107000		1	ICPST	3/24/01	21:22
Chromium	267.72	1.4	5.0	1.4	U	1	ICPST	3/24/01	21:22
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/24/01	21:22
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/24/01	21:22
Iron	271.44	17.3	100	1420		1	ICPST	3/24/01	21:22
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/24/01	21:22
Magnesium	279.08	19.0	5000	18500		1	ICPST	3/24/01	21:22
Manganese	257.61	0.18	15.0	42.2		1	ICPST	3/24/01	21:22
Molybdenum	202.03	2.7	40.0	4.2	B	1	ICPST	3/24/01	21:22
Nickel	231.60	1.5	40.0	1.5	U	1	ICPST	3/24/01	21:22
Potassium	766.49	20.2	5000	5850		1	ICPST	3/24/01	21:22
Selenium	196.03	4.2	5.0	4.2	U	1	ICPST	3/24/01	21:22
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/24/01	21:22
Sodium	330.23	256	5000	51700		1	ICPST	3/24/01	21:22
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/24/01	21:22
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/24/01	21:22
Vanadium	292.40	0.89	7.0	0.89	U	1	ICPST	3/24/01	21:22
Zinc	213.86	0.47	20.0	89.8	L	1	ICPST	3/24/01	21:22

Comments: Lot #: AIC140217 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/23/01	12:31

Comments: Lot #: A1C140217 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMW Client ID: MPT-FP-DPW01D-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	100	B	1	ICPST	3/24/01	22:05
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/24/01	22:05
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/24/01	22:05
Barium	493.41	0.18	200	1.7	B	1	ICPST	3/24/01	22:05
Beryllium	313.04	0.10	5.0	0.10	U	1	ICPST	3/24/01	22:05
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/24/01	22:05
Calcium	317.93	11.6	5000	13800		1	ICPST	3/24/01	22:05
Chromium	267.72	1.4	5.0	1.4	U	1	ICPST	3/24/01	22:05
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/24/01	22:05
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/24/01	22:05
Iron	271.44	17.3	100	61.1	B	1	ICPST	3/24/01	22:05
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/24/01	22:05
Magnesium	279.08	19.0	5000	19100		1	ICPST	3/24/01	22:05
Manganese	257.61	0.18	15.0	3.9	B	1	ICPST	3/24/01	22:05
Molybdenum	202.03	2.7	40.0	2.7	U	1	ICPST	3/24/01	22:05
Nickel	231.60	1.5	40.0	1.8	B	1	ICPST	3/24/01	22:05
Potassium	766.49	20.2	5000	33200		1	ICPST	3/24/01	22:05
Selenium	196.03	4.2	5.0	4.2	U	1	ICPST	3/24/01	22:05
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/24/01	22:05
Sodium	330.23	256	5000	251000		1	ICPST	3/24/01	22:05
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/24/01	22:05
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/24/01	22:05
Vanadium	292.40	0.89	7.0	1.1	B	1	ICPST	3/24/01	22:05
Zinc	213.86	0.47	20.0	7.7	BL	1	ICPST	3/24/01	22:05

Comments: Lot #: A1C140217 Sample #: 4

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMW Client ID: MPT-FP-DPW01D-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/23/01	12:42

Comments: Lot #: A1C140217 Sample #: 4

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMR Client ID: MPT-FP-DPW01I-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	24.7	B	1	ICPST	3/24/01	22:00
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/24/01	22:00
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/24/01	22:00
Barium	493.41	0.18	200	3.3	B	1	ICPST	3/24/01	22:00
Beryllium	313.04	0.10	5.0	0.11	B	1	ICPST	3/24/01	22:00
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/24/01	22:00
Calcium	317.93	11.6	5000	47200		1	ICPST	3/24/01	22:00
Chromium	267.72	1.4	5.0	1.4	U	1	ICPST	3/24/01	22:00
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/24/01	22:00
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/24/01	22:00
Iron	271.44	17.3	100	499		1	ICPST	3/24/01	22:00
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/24/01	22:00
Magnesium	279.08	19.0	5000	18400		1	ICPST	3/24/01	22:00
Manganese	257.61	0.18	15.0	14.3	B	1	ICPST	3/24/01	22:00
Molybdenum	202.03	2.7	40.0	2.7	U	1	ICPST	3/24/01	22:00
Nickel	231.60	1.5	40.0	1.5	U	1	ICPST	3/24/01	22:00
Potassium	766.49	20.2	5000	10300		1	ICPST	3/24/01	22:00
Selenium	196.03	4.2	5.0	4.2	U	1	ICPST	3/24/01	22:00
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/24/01	22:00
Sodium	330.23	256	5000	18800		1	ICPST	3/24/01	22:00
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/24/01	22:00
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/24/01	22:00
Vanadium	292.40	0.89	7.0	2.8	B	1	ICPST	3/24/01	22:00
Zinc	213.86	0.47	20.0	2.1	BL	1	ICPST	3/24/01	22:00

Comments: Lot #: A1C140217 Sample #: 3

Version 4.10.5

U Result is less than the IDL.
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMR Client ID: MPT-FP-DPW011-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/23/01	12:40

Comments: Lot #: AIC140217 Sample #: 3

Version 4.10.5

U Result is less than the IDL.
 B Result is between IDL and RI.

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMN Client ID: MPT-FP-DPW01S-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	30.6	B	1	ICPST	3/24/01	21:55
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/24/01	21:55
Arsenic	189.04	2.4	10.0	4.2	B	1	ICPST	3/24/01	21:55
Barium	493.41	0.18	200	15.5	B	1	ICPST	3/24/01	21:55
Beryllium	313.04	0.10	5.0	0.16	B	1	ICPST	3/24/01	21:55
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/24/01	21:55
Calcium	317.93	11.6	5000	125000		1	ICPST	3/24/01	21:55
Chromium	267.72	1.4	5.0	1.4	U	1	ICPST	3/24/01	21:55
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/24/01	21:55
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/24/01	21:55
Iron	271.44	17.3	100	7850		1	ICPST	3/24/01	21:55
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/24/01	21:55
Magnesium	279.08	19.0	5000	24200		1	ICPST	3/24/01	21:55
Manganese	257.61	0.18	15.0	292		1	ICPST	3/24/01	21:55
Molybdenum	202.03	2.7	40.0	20.2	B	1	ICPST	3/24/01	21:55
Nickel	231.60	1.5	40.0	1.6	B	1	ICPST	3/24/01	21:55
Potassium	766.49	20.2	5000	8710		1	ICPST	3/24/01	21:55
Selenium	196.03	4.2	5.0	4.2	U	1	ICPST	3/24/01	21:55
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/24/01	21:55
Sodium	330.23	256	5000	101000		1	ICPST	3/24/01	21:55
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/24/01	21:55
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/24/01	21:55
Vanadium	292.40	0.89	7.0	0.89	U	1	ICPST	3/24/01	21:55
Zinc	213.86	0.47	20.0	3.7	BL	1	ICPST	3/24/01	21:55

Comments: Lot #: A1C140217 Sample #: 2

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDMN Client ID: MPT-FP-DPW01S-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/23/01	12:39

Comments: Lot #: A1C140217 Sample #: 2

Version 4.10.5

U Result is less than the IDL.
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDM0 Client ID: MPT-FP-DUP-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	31.8	B	1	ICPST	3/24/01	22:10
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/24/01	22:10
Arsenic	189.04	2.4	10.0	3.8	B	1	ICPST	3/24/01	22:10
Barium	493.41	0.18	200	15.4	B	1	ICPST	3/24/01	22:10
Beryllium	313.04	0.10	5.0	0.10	U	1	ICPST	3/24/01	22:10
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/24/01	22:10
Calcium	317.93	11.6	5000	129000		1	ICPST	3/24/01	22:10
Chromium	267.72	1.4	5.0	1.4	U	1	ICPST	3/24/01	22:10
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/24/01	22:10
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/24/01	22:10
Iron	271.44	17.3	100	8100		1	ICPST	3/24/01	22:10
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/24/01	22:10
Magnesium	279.08	19.0	5000	25000		1	ICPST	3/24/01	22:10
Manganese	257.61	0.18	15.0	300		1	ICPST	3/24/01	22:10
Molybdenum	202.03	2.7	40.0	19.7	B	1	ICPST	3/24/01	22:10
Nickel	231.60	1.5	40.0	2.0	B	1	ICPST	3/24/01	22:10
Potassium	766.49	20.2	5000	8960		1	ICPST	3/24/01	22:10
Selenium	196.03	4.2	5.0	4.2	U	1	ICPST	3/24/01	22:10
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/24/01	22:10
Sodium	330.23	256	5000	102000		1	ICPST	3/24/01	22:10
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/24/01	22:10
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/24/01	22:10
Vanadium	292.40	0.89	7.0	0.89	U	1	ICPST	3/24/01	22:10
Zinc	213.86	0.47	20.0	9.6	BL	1	ICPST	3/24/01	22:10

Comments: Lot #: A1C140217 Sample #: 5

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DXDM0 Client ID: MPT-FP-DUP-01
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/23/01	12:43

Comments: Lot #: A1C140217 Sample #: 5

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RI.

Form I Equivalent

TETRA TECH NUS, INC.

Client Sample ID: MPT-47-DPW20S-01

General Chemistry

Lot-Sample #....: A1C140217-001 Work Order #....: DXDMJ Matrix.....: WG
Date Sampled....: 03/13/01 14:50 Date Received...: 03/14/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/25/01	1084121

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-FP-DPW01D-01

General Chemistry

Lot-Sample #....: A1C140217-004 Work Order #....: DXDMW Matrix.....: WG
Date Sampled....: 03/13/01 10:55 Date Received...: 03/14/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/25/01	1084121

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-FP-DPW01I-01

General Chemistry

Lot-Sample #....: A1C140217-003 Work Order #....: DXDMR Matrix.....: WG
Date Sampled....: 03/13/01 13:05 Date Received...: 03/14/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/25/01	1084121

Dilution Factor: 1

TEYRA TECH NUS, INC.

Client Sample ID: MPT-FP-DPW01S-01

General Chemistry

Lot-Sample #....: A1C140217-002 Work Order #....: DXDMN Matrix.....: WG
Date Sampled...: 03/13/01 13:45 Date Received...: 03/14/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/25/01	1084121

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-FP-DUP-01

General Chemistry

Lot-Sample #....: A1C140217-005 Work Order #....: DXDM0 Matrix.....: WG
Date Sampled...: 03/13/01 Date Received...: 03/14/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/25/01	1084121

Dilution Factor: 1

APPENDIX C
SUPPORT DOCUMENTATION

PROJECT NO: N0123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER Terry Hansen 850-385-9866	LABORATORY NAME AND CONTACT: STL/Quanterra Denise POH
SAMPLERS (SIGNATURE) <i>[Signature]</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex 80442558 4570	CITY, STATE N Canton, OH 44720

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)													COMMENTS
						PRESERVATIVE USED													
						TYPE OF ANALYSIS													
						APP IX + TEL CLP	APP IX + TEL CLP	APP IX + TEL CLP	Cyanide	Mercury	Molybdenum	Tin	APP IX + TAL	Metals					
3-13	1600	MPT-47-DPWZOS-01	GW	G	7	X	X	X	X	X	X	X	X	X	X				
3-13	1345	MPT-FP-DPW01S-01	GW	G	7	X	X	X	X	X	X	X	X	X	X				
3-13	1305	MPT-FP-DPW01E-01	GW	G	7	X	X	X	X	X	X	X	X	X	X				
3-13	1056	MPT-FP-DPW01D-01	GW	G	7	X	X	X	X	X	X	X	X	X	X				
3-13	0000	MPT-FP-DUP01	GW	G	7	X	X	X	X	X	X	X	X	X	X				
3-13	1650	TRIP Blank	GW	G	2	X													

1. RELINQUISHED BY <i>[Signature]</i>	DATE 3-13	TIME 1700	1. RECEIVED BY <i>[Signature]</i>	DATE 3-14-01	TIME 9:20
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: In accord w/ lab contract. 1.8°C

MP039

HOLDING TIME
04/13/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UGL	TRIP BLANK	A1C140217006	TRIP BLANK	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7

ANALYTICAL METHODS SUMMARY

A1C140217

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

AIC140217

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
DXDMJ	001	MPT-47-DPW20S-01	03/13/01	14:50
DXDMN	002	MPT-FP-DPW01S-01	03/13/01	13:45
DXDMR	003	MPT-FP-DPW01I-01	03/13/01	13:05
DXDMW	004	MPT-FP-DPW01D-01	03/13/01	10:55
DXDM0	005	MPT-FP-DUP-01	03/13/01	
DXDM2	006	TRIP BLANK	03/13/01	16:50

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SDG NARRATIVE
MP039

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of OC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SDG NARRATIVE
MP039

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of OC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA

Units: ug/L

Chart Number: hg10323a.prn

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICV 3/23/01 11:00 AM		Found	Rec	Found	Rec	Found	Rec	Found	Rec
			Found	% Rec								
Mercury	253.7	2.5	2.36	94.4								

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICV 3/24/01 1:20 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	12500.0	12935.58	103.5								
Antimony	206.838	250.0	250.66	100.3								
Arsenic	189.042	250.0	242.24	96.9								
Barium	493.409	1000.0	994.28	99.4								
Beryllium	313.042	1000.0	1042.99	104.3								
Cadmium	226.502	250.0	249.80	99.9								
Calcium	317.933	25000.0	25584.94	102.3								
Chromium	267.716	1000.0	1006.95	100.7								
Cobalt	228.616	1000.0	993.57	99.4								
Copper	324.753	1000.0	990.15	99.0								
Iron	271.441	12500.0	12938.23	103.5								
Lead	220.353	250.0	252.52	101.0								
Magnesium	279.078	25000.0	24634.88	98.5								
Manganese	257.61	1000.0	1033.00	103.3								
Molybdenum	202.03	1000.0	993.76	99.4								
Nickel	231.604	1000.0	1015.69	101.6								
Potassium	766.491	25000.0	25639.94	102.6								
Selenium	196.026	250.0	244.47	97.8								
Silver	328.068	500.0	491.53	98.3								
Sodium	330.232	25000.0	24845.32	99.4								
Thallium	190.864	500.0	489.40	97.9								
Tin	189.989	1000.0	971.33	97.1								
Vanadium	292.402	1000.0	1001.28	100.1								
Zinc	213.856	1000.0	1031.86	103.2								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: hg10323a.prn

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	Wt / Mass	True Conc	CCV 3/23/01 11:06 AM		CCV 3/23/01 11:22 AM		Ck2CCV 3/23/01 12:01 PM		Ck2CCV 3/23/01 12:20 PM		Ck2CCV 3/23/01 12:35 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.44	108.7	5.53	110.6	5.74	114.9	5.72	114.4	5.74	114.8

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: hg10323a.prn

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CR2CCV 3/23/01 12:53 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.70	114.1								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/24/01 1:57 PM		CCV 3/24/01 3:21 PM		CCV 3/24/01 4:24 PM		CCV 3/24/01 5:27 PM		CCV 3/24/01 6:30 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25146.20	100.6	25353.60	101.4	25348.89	101.4	26012.21	104.0	25822.13	103.3
Antimony	206.838	500.0	495.01	99.0	498.18	99.6	496.00	99.2	507.79	101.6	504.05	100.8
Arsenic	189.042	500.0	496.35	99.3	500.50	100.1	498.73	99.7	512.95	102.6	509.49	101.9
Barium	493.409	2000.0	2010.34	100.5	2045.96	102.3	2044.59	102.2	2099.99	105.0	2096.47	104.8
Beryllium	313.042	2000.0	2030.48	101.5	2054.23	102.7	2047.54	102.4	2091.65	104.6	2088.59	104.4
Cadmium	226.502	500.0	496.89	99.4	501.90	100.4	498.58	99.7	508.54	101.7	509.12	101.8
Calcium	317.933	50000.0	50310.38	100.6	50642.09	101.3	50358.88	100.7	51322.91	102.6	51124.27	102.2
Chromium	267.716	2000.0	1993.22	99.7	2009.22	100.5	1999.75	100.0	2045.15	102.3	2039.65	102.0
Cobalt	228.616	2000.0	1998.10	99.9	2010.55	100.5	2002.16	100.1	2042.04	102.1	2032.59	101.6
Copper	324.753	2000.0	1975.03	98.8	1995.43	99.8	1997.25	99.9	2047.12	102.4	2037.55	101.9
Iron	271.441	25000.0	25529.28	102.1	25546.82	102.2	25420.93	101.7	26030.74	104.1	25920.57	103.7
Lead	220.353	500.0	493.94	98.8	496.97	99.4	495.78	99.2	507.54	101.5	503.64	100.7
Magnesium	279.078	50000.0	49476.98	99.0	49802.07	99.6	49571.33	99.1	50680.66	101.4	50469.34	100.9
Manganese	257.61	2000.0	2061.27	103.1	2149.27	107.5	2136.94	106.8	2175.93	108.8	2162.10	108.1
Molybdenum	202.03	2000.0	1974.17	98.7	1979.72	99.0	1972.13	98.6	2016.71	100.8	2007.43	100.4
Nickel	231.604	2000.0	2011.02	100.6	2032.25	101.6	2018.71	100.9	2052.77	102.6	2057.01	102.9
Potassium	766.491	50000.0	50930.59	101.9	51254.64	102.5	51348.48	102.7	52695.20	105.4	52072.71	104.1
Selenium	196.026	500.0	492.11	98.4	498.84	99.8	499.32	99.9	508.22	101.6	507.40	101.5
Silver	328.068	1000.0	982.63	98.3	995.00	99.5	994.86	99.5	1018.19	101.8	1017.68	101.8
Sodium	330.232	50000.0	48284.38	96.6	48795.95	97.6	48655.48	97.3	49775.13	99.6	49225.13	98.5
Thallium	190.864	1000.0	987.16	98.7	992.59	99.3	990.68	99.1	1017.49	101.7	1007.03	100.7
Tin	189.989	5000.0	4913.06	98.3	4866.77	97.3	4818.68	96.4	4895.06	97.9	4830.00	96.6
Vanadium	292.402	2000.0	1979.08	99.0	1997.79	99.9	1993.71	99.7	2037.32	101.9	2031.90	101.6
Zinc	213.856	2000.0	2035.05	101.8	2054.63	102.7	2044.05	102.2	2085.25	104.3	2085.62	104.3

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/24/01 7:32 PM		CCV 3/24/01 8:35 PM		CCV 3/24/01 9:38 PM		CCV 3/24/01 10:42 PM		Found	% Rec
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec		
Aluminum	308.215	25000.0	25884.34	103.5	25783.50	103.1	25798.60	103.2	26020.66	104.1		
Antimony	206.838	500.0	502.28	100.5	505.84	101.2	507.71	101.5	508.23	101.6		
Arsenic	189.042	500.0	507.44	101.5	507.67	101.5	513.49	102.7	513.12	102.6		
Barium	493.409	2000.0	2110.52	105.5	2104.59	105.2	2114.30	105.7	2108.88	105.4		
Beryllium	313.042	2000.0	2076.16	103.8	2092.68	104.6	2125.61	106.3	2112.07	105.6		
Cadmium	226.502	500.0	505.00	101.0	509.21	101.8	519.19	103.8	514.98	103.0		
Calcium	317.933	50000.0	50587.99	101.2	51136.43	102.3	52032.13	104.1	51833.97	103.7		
Chromium	267.716	2000.0	2026.89	101.3	2043.64	102.2	2075.31	103.8	2064.76	103.2		
Cobalt	228.616	2000.0	2019.09	101.0	2034.65	101.7	2061.61	103.1	2052.94	102.6		
Copper	324.753	2000.0	2051.68	102.6	2038.36	101.9	2041.29	102.1	2049.99	102.5		
Iron	271.441	25000.0	25748.31	103.0	25961.57	103.8	26363.60	105.5	26179.15	104.7		
Lead	220.353	500.0	500.31	100.1	502.78	100.6	510.45	102.1	507.85	101.6		
Magnesium	279.078	50000.0	50169.11	100.3	50462.48	100.9	51045.44	102.1	50970.02	101.9		
Manganese	257.61	2000.0	2151.84	107.6	2167.85	108.4	2186.51	109.3	2190.20	109.5		
Molybdenum	202.03	2000.0	2002.20	100.1	2010.28	100.5	2037.00	101.9	2031.04	101.6		
Nickel	231.604	2000.0	2045.91	102.3	2057.15	102.9	2088.98	104.4	2077.18	103.9		
Potassium	766.491	50000.0	52302.96	104.6	51835.10	103.7	51559.34	103.1	52123.39	104.2		
Selenium	196.026	500.0	507.13	101.4	508.51	101.7	515.36	103.1	509.42	101.9		
Silver	328.068	1000.0	1018.55	101.9	1017.56	101.8	1027.92	102.8	1027.96	102.8		
Sodium	330.232	50000.0	49029.76	98.1	48855.63	97.7	48764.32	97.5	49451.08	98.9		
Thallium	190.864	1000.0	1007.44	100.7	1011.02	101.1	1019.52	102.0	1016.38	101.6		
Tin	189.989	5000.0	4782.94	95.7	4832.28	96.6	4886.13	97.7	4874.45	97.5		
Vanadium	292.402	2000.0	2026.15	101.3	2035.68	101.8	2059.54	103.0	2051.04	102.6		
Zinc	213.856	2000.0	2075.51	103.8	2085.25	104.3	2115.01	105.8	2105.17	105.3		

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10323a.prn

Standard Source: _____

Standard ID: _____

Element	WT/ Mass	Report Limit	ICB 3/23/01 11:01 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U						

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 3/24/01 1:27 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.9	U								
Antimony	206.838	10	5.0	U								
Arsenic	189.042	10	2.4	U								
Barium	493.409	200	0.2	U								
Beryllium	313.042	5	0.3	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	11.6	U								
Chromium	267.716	5	1.4	U								
Cobalt	228.616	7	1.3	U								
Copper	324.753	25	0.8	U								
Iron	271.441	100	17.3	U								
Lead	220.353	3	1.8	U								
Magnesium	279.078	5000	19.0	U								
Manganese	257.61	15	0.2	B								
Molybdenum	202.03	40	2.7	U								
Nickel	231.604	40	1.5	U								
Potassium	766.491	5000	152.0	B								
Selenium	196.026	5	4.2	U								
Silver	328.068	5	1.5	U								
Sodium	330.232	5000	-690.0	B								
Thallium	190.864	10	8.0	U								
Tin	189.989	50	5.7	U								
Vanadium	292.402	7	0.9	U								
Zinc	213.856	20	0.5	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10323a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 3/23/01 11:07 AM		CCB 3/23/01 11:23 AM		Ck1CCB 3/23/01 12:03 PM		Ck1CCB 3/23/01 12:21 PM		Ck1CCB 3/23/01 12:38 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10323a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 3/23/01 12:55 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	B								

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 3/24/01 2:03 PM		CCB 3/24/01 3:27 PM		CCB 3/24/01 4:30 PM		CCB 3/24/01 5:33 PM		CCB 3/24/01 6:36 PM	
			Found	O								
Aluminum	308.215	200	28.2	B	12.7	B	12.5	B	10.9	U	16.0	B
Antimony	206.838	10	5.0	U								
Arsenic	189.042	10	2.4	U	-2.5	B	2.4	U	2.4	U	2.4	U
Barium	493.409	200	0.2	B	0.3	B	0.3	B	0.2	B	0.2	B
Beryllium	313.042	5	0.3	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	26.5	B	11.6	U	11.6	U	11.6	U	11.6	U
Chromium	267.716	5	1.4	U								
Cobalt	228.616	7	1.3	U								
Copper	324.753	25	0.8	U								
Iron	271.441	100	17.3	U								
Lead	220.353	3	1.8	U								
Magnesium	279.078	5000	24.5	B	19.0	U	19.0	U	19.0	U	19.0	U
Manganese	257.61	15	0.3	B	0.5	B	0.4	B	0.2	B	0.3	B
Molybdenum	202.03	40	2.7	U								
Nickel	231.604	40	1.5	U								
Potassium	766.491	5000	151.0	B	146.0	B	147.0	B	149.0	B	149.0	B
Selenium	196.026	5	4.2	U								
Silver	328.068	5	1.5	U								
Sodium	330.232	5000	-770.0	B	-940.0	B	-850.0	B	-670.0	B	-640.0	B
Thallium	190.864	10	8.0	U								
Tin	189.989	50	5.7	U								
Vanadium	292.402	7	0.9	U								
Zinc	213.856	20	0.5	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 3/24/01 7:38 PM		CCB 3/24/01 8:41 PM		CCB 3/24/01 9:44 PM		CCB 3/24/01 10:48 PM		Found O	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	14.4	B	17.5	B	22.0	B	20.1	B		
Antimony	206.838	10	5.0	U	5.0	U	5.0	U	5.0	U		
Arsenic	189.042	10	2.4	U	2.4	U	2.4	U	2.4	U		
Barium	493.409	200	0.3	B	0.2	B	0.3	B	0.3	B		
Beryllium	313.042	5	0.2	B	0.3	B	0.3	B	0.3	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U		
Calcium	317.933	5000	25.4	B	12.3	B	11.6	B	36.4	B		
Chromium	267.716	5	1.4	U	1.4	U	1.4	U	1.4	U		
Cobalt	228.616	7	1.3	U	1.3	U	1.3	U	1.3	U		
Copper	324.753	25	-1.2	B	-1.0	B	-0.9	B	-1.2	B		
Iron	271.441	100	17.3	U	17.3	U	17.3	U	17.3	U		
Lead	220.353	3	1.8	U	1.8	U	1.8	U	1.8	U		
Magnesium	279.078	5000	19.0	U	19.0	U	19.0	U	19.0	U		
Manganese	257.61	15	0.4	B	0.3	B	0.2	B	0.4	B		
Molybdenum	202.03	40	2.7	U	2.7	U	2.7	U	2.7	U		
Nickel	231.604	40	1.5	U	1.5	U	1.5	U	1.5	U		
Potassium	766.491	5000	153.0	B	150.0	B	160.0	B	145.0	B		
Selenium	196.026	5	4.2	U	4.2	U	4.2	U	4.2	U		
Silver	328.068	5	1.5	U	1.5	U	1.5	U	1.5	U		
Sodium	330.232	5000	-730.0	B	-710.0	B	-430.0	B	-870.0	B		
Thallium	190.864	10	8.0	U	8.0	U	8.0	U	8.0	U		
Tin	189.989	50	5.7	U	5.7	U	5.7	U	5.7	U		
Vanadium	292.402	7	0.9	U	0.9	U	0.9	U	0.9	U		
Zinc	213.856	20	0.5	U	0.5	U	0.8	B	0.9	B		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXQQ5B

Matrix: Water Units: ug/l. Prep Date: 3/22/01 Prep Batch: 1081101

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.9	200	10.9	U	1	ICPST	3/24/01	21:11
Antimony	206.838	5.0	10.0	5.0	U	1	ICPST	3/24/01	21:11
Arsenic	189.042	2.4	10.0	2.4	U	1	ICPST	3/24/01	21:11
Barium	493.409	0.18	200	0.18	U	1	ICPST	3/24/01	21:11
Beryllium	313.042	0.10	5.0	0.10	U	1	ICPST	3/24/01	21:11
Cadmium	226.502	0.28	2.0	0.28	U	1	ICPST	3/24/01	21:11
Calcium	317.933	11.6	5000	40.7	B	1	ICPST	3/24/01	21:11
Chromium	267.716	1.4	5.0	1.4	U	1	ICPST	3/24/01	21:11
Cobalt	228.616	1.3	7.0	1.3	U	1	ICPST	3/24/01	21:11
Copper	324.753	0.77	25.0	-1.2	B	1	ICPST	3/24/01	21:11
Iron	271.441	17.3	100	17.3	U	1	ICPST	3/24/01	21:11
Lead	220.353	1.8	3.0	1.8	U	1	ICPST	3/24/01	21:11
Magnesium	279.078	19.0	5000	19.0	U	1	ICPST	3/24/01	21:11
Manganese	257.61	0.18	15.0	2.2	B	1	ICPST	3/24/01	21:11
Molybdenum	202.03	2.7	40.0	2.7	U	1	ICPST	3/24/01	21:11
Nickel	231.604	1.5	40.0	1.5	U	1	ICPST	3/24/01	21:11
Potassium	766.491	20.2	5000	149	B	1	ICPST	3/24/01	21:11
Selenium	196.026	4.2	5.0	4.2	U	1	ICPST	3/24/01	21:11
Silver	328.068	1.5	5.0	1.5	U	1	ICPST	3/24/01	21:11
Sodium	330.232	256	5000	-1000	B	1	ICPST	3/24/01	21:11
Thallium	190.864	8.0	10.0	8.0	U	1	ICPST	3/24/01	21:11
Tin	189.989	5.7	50.0	-5.7	B	1	ICPST	3/24/01	21:11
Vanadium	292.402	0.89	7.0	0.89	U	1	ICPST	3/24/01	21:11
Zinc	213.856	0.47	20.0	3.1	B	1	ICPST	3/24/01	21:11

Comments: Lot #: A1C140217

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXQQ5B

Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg

Weight: NA Volume: 100 Percent Moisture: NA

Elcment	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/23/01	12:28

Comments: Lot #: A1C140217

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A1C140217

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/25/01	1084121
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/24/01 1:44 PM	Found	Found	Found	Found
				Found				
Aluminum	308.215		500000	477000				
Antimony	206.838	10		-3				
Arsenic	189.042	10		-2				
Barium	493.409	200		2				
Beryllium	313.042	5		0				
Cadmium	226.502	2		2				
Calcium	317.933		500000	465000				
Chromium	267.716	5		-1				
Cobalt	228.616	7		4				
Copper	324.753	25		2				
Iron	271.441		200000	191000				
Lead	220.353	3		0				
Magnesium	279.078		500000	503000				
Manganese	257.61	15		7				
Molybdenum	202.03	40		-1				
Nickel	231.604	40		2				
Potassium	766.491	5000		136				
Selenium	196.026	5		-2				
Silver	328.068	5		0				
Sodium	330.232	5000		-830				
Thallium	190.864	10		-1				
Tin	189.989	50		-1				
Vanadium	292.402	7		-2				
Zinc	213.856	20		27				

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i50324a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 3/24/01 1:51 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	475586.0	95.1								
Antimony	206.838	1000	1180.7	118.1								
Arsenic	189.042	1000	990.9	99.1								
Barium	493.409	500	527.1	105.4								
Beryllium	313.042	500	516.2	103.2								
Cadmium	226.502	1000	1000.5	100.0								
Calcium	317.933	500000	467358.4	93.5								
Chromium	267.716	500	493.3	98.7								
Cobalt	228.616	500	491.1	98.2								
Copper	324.753	500	553.5	110.7								
Iron	271.441	200000	191123.3	95.6								
Lead	220.353	1000	981.0	98.1								
Magnesium	279.078	500000	504170.0	100.8								
Manganese	257.61	500	527.3	105.5								
Molybdenum	202.03	1000	994.9	99.5								
Nickel	231.604	1000	968.1	96.8								
Potassium	766.491	10000	11455.5	114.6								
Selenium	196.026	1000	976.9	97.7								
Silver	328.068	1000	1046.4	104.6								
Sodium	330.232	10000	10606.2	106.1								
Thallium	190.864	1000	967.7	96.8								
Tin	189.989	1000	955.6	95.6								
Vanadium	292.402	500	494.9	99.0								
Zinc	213.856	1000	1083.6	108.4								

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DXDMJS
 Original Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01S
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	80.1	B	2240		2000	107.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Antimony	206.8	5.0	U	538		500	107.5	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Arsenic	189.0	2.4	U	2050		2000	102.6	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Barium	493.4	6.8	B	2090		2000	104.2	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Beryllium	313.0	0.11	B	51.8		50	103.4	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Cadmium	226.5	0.28	U	51.2		50	102.4	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Calcium	317.9	107000		155000		50000	96.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Chromium	267.7	1.4	U	203		200	101.5	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Cobalt	228.6	1.3	U	495		500	99.0	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Copper	324.8	0.77	U	257		250	102.9	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Iron	271.4	1420		2470		1000	105.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Lead	220.4	1.8	U	509		500	101.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Magnesium	279.1	18500		70300		50000	103.5	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Manganese	257.6	42.2		585		500	108.6	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Molybdenum	202.0	4.2	B	1000		1000	99.7	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Nickel	231.6	1.5	U	510		500	101.9	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Potassium	766.5	5850		60100		50000	108.5	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Selenium	196.0	4.2	U	2130		2000	106.4	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Silver	328.1	1.5	U	57.6		50	115.3	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Sodium	330.2	51700		102000		50000	101.0	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Thallium	190.9	8.0	U	2020		2000	101.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Tin	190	5.7	U	1940		2000	96.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Vanadium	292.4	0.89	U	511		500	102.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:32
Zinc	213.9	89.8		626		500	107.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:32

Comments: Lot #: A1C140217 Sample #: 1

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL
 N Spike recovery failed
 NC Percent recovery was not calculated

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DXDMJS
 Original Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01S
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.10	U	1.1		1	111.6	1	1	CVAA	3/23/01	12:31	3/23/01	12:32

Comments: Lot #: AIC140217 Sample #: 1

Version 4.10.5

- U Result is less than the IDL.
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXDMJD
 Original Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01D
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	80.1	B	2240		2000	107.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Antimony	206.8	5.0	U	533		500	106.7	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Arsenic	189.0	2.4	U	2040		2000	101.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Barium	493.4	6.8	B	2070		2000	103.3	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Beryllium	313.0	0.11	B	51.5		50	102.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Cadmium	226.5	0.28	U	50.9		50	101.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Calcium	317.9	107000		155000		50000	95.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Chromium	267.7	1.4	U	202		200	100.9	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Cobalt	228.6	1.3	U	492		500	98.4	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Copper	324.8	0.77	U	256		250	102.2	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Iron	271.4	1420		2460		1000	104.9	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Lead	220.4	1.8	U	507		500	101.3	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Magnesium	279.1	18500		70000		50000	103.0	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Manganese	257.6	42.2		583		500	108.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Molybdenum	202.0	4.2	B	996		1000	99.2	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Nickel	231.6	1.5	U	507		500	101.4	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Potassium	766.5	5850		60300		50000	108.9	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Selenium	196.0	4.2	U	2110		2000	105.6	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Silver	328.1	1.5	U	57.3		50	114.5	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Sodium	330.2	51700		103000		50000	101.8	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Thallium	190.9	8.0	U	2000		2000	100.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Tin	190	5.7	U	1920		2000	96.0	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Vanadium	292.4	0.89	U	507		500	101.4	1	1	ICPST	3/24/01	21:22	3/24/01	21:49
Zinc	213.9	89.8		625		500	107.1	1	1	ICPST	3/24/01	21:22	3/24/01	21:49

Comments: Lot #: A1C140217 Sample #: 1

Version 4.10.5

- U Result is less than the IDL.
- B Result is between IDL and RL.
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXDMJD
 Original Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01D
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.10	U	1.1		1	109.1	1	1	CVAA	3/23/01	12:31	3/23/01	12:34

Comments: Lot #: A1C140217 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXDMJD

Matrix Spike Sample ID: DXDMJS Client ID: MPT-47-DPW20S-01D

Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	2240		2240		0.0	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Antimony	206.838	538		533		0.8	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Arsenic	189.042	2050		2040		0.8	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Barium	493.409	2090		2070		0.9	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Beryllium	313.042	51.8		51.5		0.7	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Cadmium	226.502	51.2		50.9		0.6	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Calcium	317.933	155000		155000		0.3	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Chromium	267.716	203		202		0.6	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Cobalt	228.616	495		492		0.6	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Copper	324.753	257		256		0.7	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Iron	271.441	2470		2460		0.8	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Lead	220.353	509		507		0.5	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Magnesium	279.078	70300		70000		0.5	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Manganese	257.61	585		583		0.4	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Molybdenum	202.03	1000		996		0.5	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Nickel	231.604	510		507		0.5	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Potassium	766.491	60100		60300		0.3	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Selenium	196.026	2130		2110		0.8	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Silver	328.068	57.6		57.3		0.6	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Sodium	330.232	102000		103000		0.9	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Thallium	190.864	2020		2000		1.0	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Tin	189.989	1940		1920		0.8	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Vanadium	292.402	511		507		0.7	1	1	ICPST	3/24/01	21:32	3/24/01	21:49
Zinc	213.856	626		625		0.1	1	1	ICPST	3/24/01	21:32	3/24/01	21:49

Comments: Lot #: A1C140217 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXDMJD
 Matrix Spike Sample ID: DXDMJS Client ID: MPT-47-DPW20S-01D
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.1		1.1		2.3	1	1	CVAA	3/23/01	12:32	3/23/01	12:34

Comments: Lot #: A1C140217 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A1C140217

Matrix.....: WATER

Date Sampled...: 03/13/01 09:35 Date Received...: 03/14/01

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total			WO#:	DXCNQ1A2-MS/DXCNQ1A3-MSD		MS Lot-Sample #: A1C130127-007	
	86	(25 - 134)			SW846 9012A	03/25/01	1084121
	84	(25 - 134)	2.6	(0-99)	SW846 9012A	03/25/01	1084121

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXQQ5C
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	2000	2120	105.7		80-120	1	ICPST	3/24/01	21:16
Antimony	206.838	500	520	104.1		80-120	1	ICPST	3/24/01	21:16
Arsenic	189.042	2000	1990	99.7		80-120	1	ICPST	3/24/01	21:16
Barium	493.409	2000	2030	101.4		80-120	1	ICPST	3/24/01	21:16
Beryllium	313.042	50.0	51.2	102.4		80-120	1	ICPST	3/24/01	21:16
Cadmium	226.502	50.0	51.1	102.1		80-120	1	ICPST	3/24/01	21:16
Calcium	317.933	50000	51500	102.9		80-120	1	ICPST	3/24/01	21:16
Chromium	267.716	200	201	100.6		80-120	1	ICPST	3/24/01	21:16
Cobalt	228.616	500	490	98.0		80-120	1	ICPST	3/24/01	21:16
Copper	324.753	250	250	99.9		80-120	1	ICPST	3/24/01	21:16
Iron	271.441	1000	1080	108.1		77-127	1	ICPST	3/24/01	21:16
Lead	220.353	500	503	100.6		80-120	1	ICPST	3/24/01	21:16
Magnesium	279.078	50000	50800	101.6		80-120	1	ICPST	3/24/01	21:16
Manganese	257.61	500	542	108.3		80-120	1	ICPST	3/24/01	21:16
Molybdenum	202.03	1000	982	98.2		80-120	1	ICPST	3/24/01	21:16
Nickel	231.604	500	507	101.4		80-120	1	ICPST	3/24/01	21:16
Potassium	766.491	50000	51800	103.6		80-120	1	ICPST	3/24/01	21:16
Selenium	196.026	2000	2080	104.0		80-120	1	ICPST	3/24/01	21:16
Silver	328.068	50.0	56.3	112.6		80-120	1	ICPST	3/24/01	21:16
Sodium	330.232	50000	50800	101.5		80-120	1	ICPST	3/24/01	21:16
Thallium	190.864	2000	2000	100.1		80-120	1	ICPST	3/24/01	21:16
Tin	189.989	2000	1900	95.1		80-120	1	ICPST	3/24/01	21:16
Vanadium	292.402	500	503	100.6		80-120	1	ICPST	3/24/01	21:16
Zinc	213.856	500	534	106.7		80-120	1	ICPST	3/24/01	21:16

Comments: Lot #: A1C140217

STL North Canton
Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXQQ5C
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101-Hg
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	5.0	5.3	106.0		70-118	1	CVAA	3/23/01	12:30

Comments: Lot #: A1C140217

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A1C140217

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	67	Work Order #: DXX251AC (61 - 115)	LCS Lot-Sample#: A1C250000-121 SW846 9012A	03/25/01	1084121

Dilution Factor: 1

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DXDMJL

Original Sample ID: DXDMJ Client ID: MPT-47-DPW20S-01

Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081101

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	80.1	B	103	B		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Antimony	206.838	5.0	U	25.0	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Arsenic	189.042	2.4	U	12.0	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Barium	493.409	6.8	B	6.6	B		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Beryllium	313.042	0.11	B	0.50	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Cadmium	226.502	0.28	U	1.4	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Calcium	317.933	107000		104000		3.2	1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Chromium	267.716	1.4	U	7.0	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Cobalt	228.616	1.3	U	6.5	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Copper	324.753	0.77	U	3.9	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Iron	271.441	1420		1390		1.5	1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Lead	220.353	1.8	U	9.0	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Magnesium	279.078	18500		17500	B	5.4	1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Manganese	257.61	42.2		41.2	B	2.4	1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Molybdenum	202.03	4.2	B	13.5	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Nickel	231.604	1.5	U	7.5	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Potassium	766.491	5850		5450	B	6.8	1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Scelenium	196.026	4.2	U	21.0	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Silver	328.068	1.5	U	7.5	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Sodium	330.232	51700		49700		3.9	1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Thallium	190.864	8.0	U	40.0	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Tin	189.989	5.7	U	28.5	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Vanadium	292.402	0.89	U	4.5	U		1	5	ICPST	3/24/01	21:22	3/24/01	21:27
Zinc	213.856	89.8		99.0	B L	10.2	1	5	ICPST	3/24/01	21:22	3/24/01	21:27

Comments: _____

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ppb

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	1/16/01

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ppb

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	10.9	1/19/01
Antimony	206.84	10	5.0	1/19/01
Arsenic	189.04	10	2.4	1/19/01
Barium	493.41	200	0.18	1/19/01
Beryllium	313.04	5	0.10	1/19/01
Cadmium	226.50	2	0.28	1/19/01
Calcium	317.93	5000	11.6	1/19/01
Chromium	267.72	5	1.4	1/19/01
Cobalt	228.62	7	1.3	1/19/01
Copper	324.75	25	0.77	1/19/01
Iron	271.44	100	17.3	1/19/01
Lead	220.35	3	1.8	1/19/01
Magnesium	279.08	5000	19.0	1/19/01
Manganese	257.61	15	0.18	1/19/01
Molybdenum	202.03	40	2.7	1/19/01
Nickel	231.60	40	1.5	1/19/01
Potassium	766.49	5000	20.2	1/19/01
Selenium	196.03	5	4.2	1/19/01
Silver	328.07	5	1.5	1/19/01
Sodium	330.23	5000	256	1/19/01
Thallium	190.86	10	8.0	1/19/01
Tin	189.99	50	5.7	1/19/01
Vanadium	292.40	7	0.89	1/19/01
Zinc	213.86	20	0.47	1/19/01

STL North Canton

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST

Date of IEC's: 2/22/01

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Cd(0.000011), Pb(-0.000012934), Se(0.000003335), Tl(-0.00002), Zn(0.000011)
Chromium	267.716	As(-0.00279), Fe(0.001539), Sb(0.008930428), Tl(0.000317)
Copper	324.753	Pb(0.000399217), Zn(0.000686)
Iron	271.441	As(0.000006), Cd(0.000126), Mn(0.000026), Mo(-0.00001), Pb(0.000060661), Sb(0.000022321), Sc(-0.0001834), Tl(-0.00006), V(0.000027), Zn(0.000106)
Manganese	257.61	Ag(0.000126), Al(0.0062), Mg(-0.00193), Pb(0.000057362), Sc(0.000467725), Tl(-0.00033)
Molybdenum	202.03	Al(0.014498), As(-0.00139), Cu(0.00038), Fe(0.002719), Pb(-0.00075013), Sb(-0.00693335), V(-0.00157)
Nickel	231.604	Cd(0.000058), Co(0.00022), Pb(0.00018662), Sb(-0.00044622), Zn(0.00448)
Vanadium	292.402	Al(0.031159), Be(0.000202), Cr(0.000165), Cu(-0.00034), Fe(0.011936), Pb(-0.00031349), Sb(-0.00217419), Tl(0.002681)

STL North Canton
Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPST

Units: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	308.21	500000	1/26/01
Antimony	206.84	10000	1/26/01
Arsenic	189.04	10000	1/26/01
Barium	493.41	25000	1/30/01
Beryllium	313.04	4000	1/26/01
Cadmium	226.50	2500	2/1/01
Calcium	317.93	600000	2/1/01
Chromium	267.72	50000	1/26/01
Cobalt	228.62	50000	1/26/01
Copper	324.75	50000	1/26/01
Iron	271.44	600000	1/26/01
Lead	220.35	15000	1/26/01
Magnesium	279.08	600000	1/30/01
Manganese	257.61	30000	1/26/01
Molybdenum	202.03	50000	1/30/01
Nickel	231.60	50000	1/26/01
Potassium	766.49	600000	1/30/01
Selenium	196.03	10000	1/26/01
Silver	328.07	2000	1/26/01
Sodium	330.23	600000	1/30/01
Thallium	190.86	20000	1/26/01
Tin	189.99	10000	1/26/01
Vanadium	292.40	50000	1/26/01
Zinc	213.86	10000	2/5/01

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/21/01
Time: 4:37:29

BATCH NUMBER: 1080101 PREP DATE: 3/21/01 8:00 COMP DATE: 3/21/01 18:00
DUE DATE 4/03/01 INITIALS: cmk

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT		GFA/WEIGHT	FLA/WEIGHT
A1C200164	DXMKJ	01	X _____ g	X _____ g	TL	_____ g	_____ g
WATER	DI DUE DATE:		4/03/01				
	DXMKJS		_____ g	_____ g		_____ g	_____ g
	DXMKJD		_____ g	_____ g		_____ g	_____ g
A1C200164	DXMKJ	01	X _____ g	_____ g		_____ g	_____ g
WATER	TO DUE DATE:		4/03/01				
	DXMKJS		_____ g	_____ g		_____ g	_____ g
	DXMKJD		_____ g	_____ g		_____ g	_____ g
A1C200164	DXMK7	01	X _____ g	X _____ g	TL	_____ g	_____ g
WATER	DI DUE DATE:		4/03/01				
A1C200164	DXMK9	01	X _____ g	X _____ g	TL	_____ g	_____ g
WATER	DI DUE DATE:		4/03/01				
A1C200164	DXMLG	01	X _____ g	X _____ g	TL	_____ g	_____ g
WATER	DI DUE DATE:		4/03/01				
A1C200164	DXMLM	01	X _____ g	X _____ g	TL	_____ g	_____ g
WATER	DI DUE DATE:		4/03/01				
A1C200164	DXMLN	01	X _____ g	X _____ g	TL	_____ g	_____ g
WATER	DI DUE DATE:		4/03/01				
SDG 1C16120	A1C160120	DXG9W	01	X _____ g	X _____ g	TL	_____ g
WATER	TO DUE DATE:		4/06/01				
	A1C160120	DXHAC	01	X _____ g	X _____ g	TL	_____ g
WATER	TO DUE DATE:		4/06/01				
	A1C160120	DXHAD	01	X _____ g	X _____ g	TL	_____ g
WATER	TO DUE DATE:		4/06/01				
	A1C160120	DXHAF	01	X _____ g	X _____ g	TL	_____ g
WATER	TO DUE DATE:		4/06/01				
	A1C160120	DXHAH	01	X _____ g	X _____ g	TL	_____ g
WATER	TO DUE DATE:		4/06/01				
	A1C160120	DXHAK	01	X _____ g	X _____ g	TL	_____ g
WATER	TO DUE DATE:		4/06/01				

* SPIKE

SEVEN HILL LABORATORIES, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/21/01
Time: 4:37:29

BATCH NUMBER: 1080101 PREP DATE: 3/21/01 8:00 COMP DATE: 3/21/01 18:00
DUE DATE 4/03/01 INITIALS: lpm/ku

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT		GFA/WEIGHT	FLA/WEIGHT
A1C200172	DXMMV	01	X _____g	X _____g	TL	_____g	_____g
WATER	TO DUE DATE:		4/10/01				
A1C200172	DXMMW	01	X _____g	X _____g	TL	_____g	_____g
WATER	TO DUE DATE:		4/10/01				
A1C200172	DXMM0	01	X _____g	X _____g	TL	_____g	_____g
WATER	TO DUE DATE:		4/10/01				
A1C200172	DXMM1	01	X _____g	X _____g	TL	_____g	_____g
WATER	TO DUE DATE:		4/10/01				
A1C200172	DXMM2	01	X _____g	X _____g	TL	_____g	_____g
WATER	TO DUE DATE:		4/10/01				
A1C200172	DXMM3	01	X _____g	X _____g	TL	_____g	_____g
WATER	TO DUE DATE:		4/10/01				
A1C210000	DXNR3B	01	X _____g	X _____g	TL	_____g	_____g
WATER	DUE DATE:		0/00/00				
	DXNR3C		_____g	_____g		_____g	_____g

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH
 MS/MSD AND PDS ON BATCH
 CURVE PREPPED FOR HG
 CORRECT SPIKES ADDED
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: ICP are TOTAL Rec.
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY lpm

AGC037

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/21/01
Time: 4:37:29

BATCH NUMBER: 1080101 PREP DATE: 3/21/01 8:00 COMP DATE: 3/21/01 18:00
DUE DATE 4/03/01 INITIALS: cmkce

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE SN VX ZN

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD Ag

Dxmkt

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2A GFAA HG ODD Ag

DXNR3

CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD 1C227 1C173 1A60 1C239 1C226
NUMBERS

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10323a.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Repl		3/23/01	10:52
Std2Repl		3/23/01	10:53
Std3Repl		3/23/01	10:55
Std4Repl		3/23/01	10:57
Std5Repl		3/23/01	10:58
Std6Repl		3/23/01	10:59
ICV		3/23/01	11:00
ICB		3/23/01	11:01
CRA		3/23/01	11:04
CCV		3/23/01	11:06
CCB		3/23/01	11:07
ZZZZZ		3/23/01	11:09
ZZZZZ		3/23/01	11:11
ZZZZZ		3/23/01	11:12
ZZZZZ		3/23/01	11:13
ZZZZZ		3/23/01	11:14
ZZZZZ		3/23/01	11:16
ZZZZZ		3/23/01	11:17
ZZZZZ		3/23/01	11:19
ZZZZZ		3/23/01	11:20
CCV		3/23/01	11:22
CCB		3/23/01	11:23
Ck2CCV		3/23/01	12:01
Ck1CCB		3/23/01	12:03
ZZZZZ		3/23/01	12:04
ZZZZZ		3/23/01	12:06
ZZZZZ		3/23/01	12:07
ZZZZZ		3/23/01	12:08
ZZZZZ		3/23/01	12:09
ZZZZZ		3/23/01	12:11
ZZZZZ		3/23/01	12:12
ZZZZZ		3/23/01	12:14
ZZZZZ		3/23/01	12:15
ZZZZZ		3/23/01	12:18
Ck2CCV		3/23/01	12:20
Ck1CCB		3/23/01	12:21
ZZZZZ		3/23/01	12:22
ZZZZZ		3/23/01	12:23
ZZZZZ		3/23/01	12:24

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10323a.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/23/01	12:25
ZZZZZZ		3/23/01	12:27
DXQQ5B		3/23/01	12:28
DXQQ5C		3/23/01	12:30
DXDMJ	MPT-47-DPW20S-01	3/23/01	12:31
DXDMJS	MPT-47-DPW20S-01S	3/23/01	12:32
DXDMJD	MPT-47-DPW20S-01D	3/23/01	12:34
Ck2CCV		3/23/01	12:35
Ck1CCB		3/23/01	12:38
DXDMN	MPT-FP-DPW01S-01	3/23/01	12:39
DXDMR	MPT-FP-DPW01I-01	3/23/01	12:40
DXDMW	MPT-FP-DPW01D-01	3/23/01	12:42
DXDM0	MPT-FP-DUP-01	3/23/01	12:43
ZZZZZZ		3/23/01	12:44
ZZZZZZ		3/23/01	12:47
ZZZZZZ		3/23/01	12:49
ZZZZZZ		3/23/01	12:50
ZZZZZZ		3/23/01	12:51
ZZZZZZ		3/23/01	12:52
Ck2CCV		3/23/01	12:53
Ck1CCB		3/23/01	12:55

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50324a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1-Blank		3/24/01	13:07
CALSTD		3/24/01	13:12
CAL 2		3/24/01	13:17
ICV		3/24/01	13:20
ICB		3/24/01	13:27
ZZZZZZ		3/24/01	13:32
ZZZZZZ		3/24/01	13:37
ICSA		3/24/01	13:44
ICSAB		3/24/01	13:51
CCV		3/24/01	13:57
CCB		3/24/01	14:03
ZZZZZZ		3/24/01	14:29
ZZZZZZ		3/24/01	14:34
ZZZZZZ		3/24/01	14:39
ZZZZZZ		3/24/01	14:44
ZZZZZZ		3/24/01	14:49
ZZZZZZ		3/24/01	14:54
ZZZZZZ		3/24/01	14:59
ZZZZZZ		3/24/01	15:04
ZZZZZZ		3/24/01	15:09
ZZZZZZ		3/24/01	15:14
CCV		3/24/01	15:21
CCB		3/24/01	15:27
ZZZZZZ		3/24/01	15:32
ZZZZZZ		3/24/01	15:36
ZZZZZZ		3/24/01	15:41
ZZZZZZ		3/24/01	15:46
ZZZZZZ		3/24/01	15:52
ZZZZZZ		3/24/01	15:57
ZZZZZZ		3/24/01	16:03
ZZZZZZ		3/24/01	16:08
ZZZZZZ		3/24/01	16:12
ZZZZZZ		3/24/01	16:17
CCV		3/24/01	16:24
CCB		3/24/01	16:30
ZZZZZZ		3/24/01	16:35
ZZZZZZ		3/24/01	16:39
ZZZZZZ		3/24/01	16:44
ZZZZZZ		3/24/01	16:49

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50324a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/24/01	16:54
ZZZZZZ		3/24/01	16:59
ZZZZZZ		3/24/01	17:05
ZZZZZZ		3/24/01	17:10
ZZZZZZ		3/24/01	17:15
ZZZZZZ		3/24/01	17:20
CCV		3/24/01	17:27
CCB		3/24/01	17:33
ZZZZZZ		3/24/01	17:38
ZZZZZZ		3/24/01	17:42
ZZZZZZ		3/24/01	17:47
ZZZZZZ		3/24/01	17:52
ZZZZZZ		3/24/01	17:57
ZZZZZZ		3/24/01	18:02
ZZZZZZ		3/24/01	18:08
ZZZZZZ		3/24/01	18:13
ZZZZZZ		3/24/01	18:18
ZZZZZZ		3/24/01	18:23
CCV		3/24/01	18:30
CCB		3/24/01	18:36
ZZZZZZ		3/24/01	18:41
ZZZZZZ		3/24/01	18:46
ZZZZZZ		3/24/01	18:51
ZZZZZZ		3/24/01	18:56
ZZZZZZ		3/24/01	19:01
ZZZZZZ		3/24/01	19:06
ZZZZZZ		3/24/01	19:11
ZZZZZZ		3/24/01	19:16
ZZZZZZ		3/24/01	19:21
ZZZZZZ		3/24/01	19:26
CCV		3/24/01	19:32
CCB		3/24/01	19:38
ZZZZZZ		3/24/01	19:43
ZZZZZZ		3/24/01	19:49
ZZZZZZ		3/24/01	19:54
ZZZZZZ		3/24/01	19:58
ZZZZZZ		3/24/01	20:04
ZZZZZZ		3/24/01	20:09
ZZZZZZ		3/24/01	20:14

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50324a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/24/01	20:19
ZZZZZZ		3/24/01	20:24
ZZZZZZ		3/24/01	20:29
CCV		3/24/01	20:35
CCB		3/24/01	20:41
ZZZZZZ		3/24/01	20:46
ZZZZZZ		3/24/01	20:51
ZZZZZZ		3/24/01	20:56
ZZZZZZ		3/24/01	21:01
ZZZZZZ		3/24/01	21:06
DXQQ5B		3/24/01	21:11
DXQQ5C		3/24/01	21:16
DXDMJ	MPT-47-DPW20S-01	3/24/01	21:22
DXDMJL	MPT-47-DPW20S-01	3/24/01	21:27
DXDMJS	MPT-47-DPW20S-01S	3/24/01	21:32
CCV		3/24/01	21:38
CCB		3/24/01	21:44
DXDMJD	MPT-47-DPW20S-01D	3/24/01	21:49
DXDMN	MPT-FP-DPW01S-01	3/24/01	21:55
DXDMR	MPT-FP-DPW01I-01	3/24/01	22:00
DXDMW	MPT-FP-DPW01D-01	3/24/01	22:05
DXDM0	MPT-FP-DUP-01	3/24/01	22:10
ZZZZZZ		3/24/01	22:15
ZZZZZZ		3/24/01	22:20
ZZZZZZ		3/24/01	22:26
ZZZZZZ		3/24/01	22:31
ZZZZZZ		3/24/01	22:36
CCV		3/24/01	22:42
CCB		3/24/01	22:48

FIELD DUPLICATE PRECISION

ANALYTE	MPT-FP-DUP-01	MPT-FP-DPW01S-01	RPD	DIFFERENCE
Aluminum	31.8U	30.6U	#VALUE!	#VALUE!
Antimony	5U	5U	#VALUE!	#VALUE!
Arsenic	3.8	4.2	10.00	0.4
Barium	15.4	15.5	0.65	0.1
Beryllium	0.1U	0.16U	#VALUE!	#VALUE!
Cadmium	0.28U	0.28U	#VALUE!	#VALUE!
Calcium	129000	125000	3.15	4000
Chromium	1.4U	1.4U	#VALUE!	#VALUE!
Cobalt	1.3U	1.3U	#VALUE!	#VALUE!
Copper	0.77U	0.77U	#VALUE!	#VALUE!
Iron	8100	7850	3.13	250
Lead	1.8U	1.8U	#VALUE!	#VALUE!
Magnesium	25000	24200	3.25	800
Manganese	300	292	2.70	8
Mercury	0.1U	0.1U	#VALUE!	#VALUE!
Molybdenum	19.7	20.2	2.51	0.5
Nickel	2	1.6	22.22	0.4
Potassium	8960	8710	2.83	250
Selenium	4.2U	4.2U	#VALUE!	#VALUE!
Silver	1.5U	1.5U	#VALUE!	#VALUE!
Sodium	102000	101000	0.99	1000
Thallium	8U	8U	#VALUE!	#VALUE!
Tin	5.7U	5.7U	#VALUE!	#VALUE!
Vanadium	0.89U	0.89U	#VALUE!	#VALUE!
Zinc	9.6U	3.7U	#VALUE!	#VALUE!
Cyanide	10U	10U	#VALUE!	#VALUE!

MPT-FP-DPW015-01
 20F41201

Method: TOTAL Sample Name: DXDMN Operator: LRW
 Run Time: 03/24/01 21:55 Filename: I50324A
 Mode: CONC Type: S Corr. Factor: 1.00000
 Lab ID.: N.CANTON Cust. Smpl. ID.: Cust. ID.:

AS = 4.2 ug/L

Elms	Ag	Al	As	B	Ba	Be
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0054	30.56	4.2300	179.1	15.51	.1607
SDev	.0342	2.99	1.0689	.5126	.1827	.0301
%RSD	634.8	9.786	25.26	.2863	1.177	18.76

Elms	Ca	Cd	Co	Cr	Cu	Fe
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124800.	.0000	.7019	-.3197	-.2931	7848.
SDev	40.87	.0315	.2709	.1823	.1633	7.563
%RSD	.0328	68890	38.59	57.03	55.72	.0964

Elms	K	Mg	Mn	Mo	Na	Ni
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8710.	24170.	291.8	20.21	100700.	1.613
SDev	34.31	22.53	.0107	.0107	246	.3292
%RSD	.394	.0932	.0037	.0532	.2442	20.41

Elms	Se	Pb	Sb	Sn	Ti	Tl
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.88642	-.95181	.01404	-4.439	-1.196	2.6118
SDev	.04313	.28595	.21381	1.112	.0004	.55803
%RSD	4.8664	30.043	1522.4	25.04	.0365	21.366

Elms	V	Zn	2203\1	2203\2	1960\1	1960\2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2792	3.700	-.24420	-1.3051	12.760	-5.0413
SDev	.3804	.0829	.94596	.04356	.59326	.23151
%RSD	136.3	2.24	387.37	3.3379	4.6495	4.5923

Elms	2068/2	2068/1	Y_3710	*Y
Units	ppb	ppb	ppb	
Avg	3.7199	-1.8361	5.0000	17055.8
SDev	.56614	.60321	0	8.48528
%RSD	15.219	32.853	0	.04975

Faust, Erin

From: Staffen, Seth
Sent: Friday, April 20, 2001 10:08 AM
To: Faust, Erin
Subject: FW: CTO 091 Field Duplicate

-----Original Message-----

From: Thompson, Thomas
Sent: Friday, April 20, 2001 10:07 AM
To: Staffen, Seth
Subject: RE: CTO 091 Field Duplicate

I am sorry, I misread the original email. Sample ID MPT-FP-DPW01S-01 was duplicated. Sorry about that.

Tom

-----Original Message-----

From: Staffen, Seth
Sent: Friday, April 20, 2001 10:05 AM
To: Thompson, Thomas
Subject: RE: CTO 091 Field Duplicate

Tom,

I think the duplicate: MPT-FP-DUP-01 might be the duplicate of MPT-FP-DPW01S-01 instead of MPT-FP-DPW01D-01. It is very hard to tell from the organic data because all of the results are nondetects. However, I was talking with a co-worker who is doing the inorganic validation, and the duplicate results match up with the results from sample: MPT-FP-DPW01S-01. Would you help us clear up our confusion.

Thanks

Seth

Seth Staffen

Tetra Tech NUS, Inc.
Pittsburgh, PA
staffens@ttnus.com
Phone: 412.921.8714
Fax: 412.921.4040

-----Original Message-----

From: Thompson, Thomas
Sent: Friday, April 20, 2001 6:13 AM
To: Staffen, Seth
Subject: CTO 091 Field Duplicate

Terry,

I am validating CTO 091 NS Mayport data (SDG MP039) and I wanted to double check to make sure that the field duplicate: MPT-FP-DUP-01 is associated with sample: MPT-FP-DPW01D-01. According to the Chain of Custody, it looks as one is the duplicate of the other but I want to be certain. Thanks for your time.

Thanks,

Seth

Seth,

You are correct. The duplicate IDs are one in the same.

Thanks

Thomas Thompson
Tetra Tech NUS, Inc.
7018 AC Skinner Parkway, Suite 250
Jacksonville, FL 32257
Phone: (904) 281-0400

MEMO TO: MR. T. HANSEN
DATE: 05/22/01- PAGE 2

VOLATILE FRACTION

The initial calibration contained relative response factors (RRFs) that were below the 0.05 quality control limit for acrolein, acetonitrile, propionitrile, and isobutanol. Only nondetected results were reported for the aforementioned compounds; therefore, the compounds were rejected, UR, in all samples.

The continuing calibration on 03/20/01 at 0742 contained RRFs that were below the 0.05 quality control limit for acrolein, acetonitrile, and isobutanol. Only nondetected results were reported for the aforementioned compounds and rejected, UR, in the associated samples.

The continuing calibration on 03/20/01 at 0742 contained percent differences (%Ds) that exceeded the 25% quality control limit for acrolein and acetone. The positive results were qualified as estimated, J, and the nondetected results were qualified as estimated, UJ, in the associated samples for acetone. Acrolein was already rejected for another technical noncompliance.

The continuing calibration on 03/20/01 at 0805 contained RRFs that were below the 0.05 quality control limit for propionitrile and isobutanol. Only nondetected results were reported for the aforementioned compounds and rejected, UR, in the associated samples.

The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) contained percent recoveries (%Rs) that were less than the quality control limits for carbon disulfide and 1,1,1-Trichloroethane. No action was taken based on minor LCS/LCSD noncompliances.

The Matrix spike %R was less than the lower quality control limit for 1,1,1-Trichloroethane. No action was taken based on MS/MSD noncompliance.

SEMIVOLATILE FRACTION

The initial calibration contained RRFs that were less than the 0.05 quality control limit for 4-nitroquinoline-1-oxide. The nondetected results were rejected, UR, in all samples.

The continuing calibration on 03/26/01 at 1012 contained percent differences (%Ds) that exceeded the 25% quality control limits for a,a-dimethyl-phenethylamine, p-phenylene diamine, and methapyrilene. Nondetected results were reported for these compounds and qualified as estimated, UJ.

The continuing calibration on 03/26/01 at 1041 contained percent differences (%Ds) that exceeded the 25% quality control limit for 4-aminobiphenyl and Aramite. Nondetected results were reported for these compounds and qualified as estimated, UJ.

The LCS/LCSD %Rs were less than the lower quality control limit for diethyl phthalate and dimethyl phthalate. No action was taken based on minor LCS/LCSD noncompliance.

The LCS/LCSD %Rs were less than 10% for hexachlorocyclopentadiene. Only nondetected results were reported; therefore, rejected, UR, in all samples.

The MS and/or MSD %Rs were less than the lower quality control limit for diethyl phthalate, dimethyl phthalate, and hexachlorocyclopentadiene. No qualifiers were assigned to Diethyl phthalate and dimethyl phthalate since the %Rs were greater than 10%. Hexachlorocyclopentadiene was rejected since the %R was less than 10%.

MEMO TO: MR. T. HANSEN
DATE: 05/22/01- PAGE 3

ADDITIONAL COMMENTS

Positive results < Reporting Limit (RL) were qualified as estimated, J.

EXECUTIVE SUMMARY

Laboratory Performance: Several compounds exceeded the initial and/or continuing calibration criteria in the volatile and semivolatiles fractions.

Other Factors Affecting Data Quality: Several MS/MSD %Rs were outside of the quality control limits. The LCS/LCSD and MS/MSD contained %Rs that were lower than the control limit for diethyl phthalate, dimethyl phthalate, and hexachlorocyclopentadiene in the semivolatiles fraction.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."


Seth Staffen

Chemist/Data Validator
Tetra Tech NUS


Joseph A. Samchuck

Data Validation Quality Assurance Officer
TetraTech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
Qualified Analytical Results

**CTO091-MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
ISOBUTANOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL IODIDE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TOTAL 1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U	
TOTAL XYLENES	1	U		1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

**CTO091-MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-FP-DUP-01	TRIP BLANK		
SAMPLE DATE:	03/13/01	03/13/01	//	//
LABORATORY ID:	A1C140217005	A1C140217006		
QC_TYPE:	NORMAL	TRIP BLANK		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:	MPT-FP-DPW01S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U										
1,1,1-TRICHLOROETHANE	1	U										
1,1,2,2-TETRACHLOROETHANE	1	U										
1,1,2-TRICHLOROETHANE	1	U										
1,1-DICHLOROETHANE	1	U										
1,1-DICHLOROETHENE	1	U										
1,2,3-TRICHLOROPROPANE	1	U										
1,2-DIBROMO-3-CHLOROPROPANE	1	U										
1,2-DIBROMOETHANE	1	U										
1,2-DICHLOROETHANE	1	U										
1,2-DICHLOROPROPANE	1	U										
2-BUTANONE	10	U										
2-CHLOROETHYL VINYL ETHER	1	U										
2-HEXANONE	10	U										
3-CHLOROPROPENE	1	U										
4-METHYL-2-PENTANONE	10	U										
ACETONE	10	UJ	C									
ACETONITRILE	20	UR	C									
ACROLEIN	10	UR	C									
ACRYLONITRILE	10	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	1	U										
BROMOFORM	1	U										
BROMOMETHANE	2	U										
CARBON DISULFIDE	1	U										
CARBON TETRACHLORIDE	1	U										
CHLOROBENZENE	1	U										
CHLORODIBROMOMETHANE	1	U										
CHLOROETHANE	1	U										
CHLOROFORM	1	U										
CHLOROMETHANE	1	U										
CHLOROPRENE	1	U										

**CTO091-MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-FP-DUP-01	TRIP BLANK		
SAMPLE DATE:	03/13/01	03/13/01	//	//
LABORATORY ID:	A1C140217005	A1C140217006		
QC_TYPE:	NORMAL	TRIP BLANK		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:	MPT-FP-DPW01S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,2-DICHLOROETHENE	0.5	U										
CIS-1,3-DICHLOROPROPENE	1	U										
DIBROMOMETHANE	1	U										
DICHLORODIFLUOROMETHANE	1	U										
ETHYL METHACRYLATE	1	U										
ETHYLBENZENE	1	U										
ISOBUTANOL	50	UR	C									
METHACRYLONITRILE	1	U										
METHYL IODIDE	1	U										
METHYL METHACRYLATE	1	U										
METHYL TERT-BUTYL ETHER	5	U										
METHYLENE CHLORIDE	1	U										
PROPIONITRILE	4	UR	C									
STYRENE	1	U										
TETRACHLOROETHENE	1	U										
TOLUENE	1	U										
TOTAL 1,2-DICHLOROETHENE	1	U										
TOTAL XYLENES	1	U										
TRANS-1,2-DICHLOROETHENE	0.5	U										
TRANS-1,3-DICHLOROPROPENE	1	U										
TRANS-1,4-DICHLORO-2-BUTENE	1	U										
TRICHLOROETHENE	1	U										
TRICHLOROFLUOROMETHANE	2	U										
VINYL ACETATE	1	U										
VINYL CHLORIDE	1	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	U										
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1,4-PHENYLENEDIAMINE	10	UJ	C									
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	UJ	C									
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C									
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	UJ	C									
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		24			5	U		5	U	
BUTYL BENZYL PHTHALATE	10	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANE SULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	DE									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	UJ	C									
METHYL METHANE SULFONATE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODI-N-BUTYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-47-DPW20S-01	MPT-FP-DPW01D-01	MPT-FP-DPW01I-01	MPT-FP-DPW01S-01
SAMPLE DATE:	03/13/01	03/13/01	03/13/01	03/13/01
LABORATORY ID:	A1C140217001	A1C140217004	A1C140217003	A1C140217002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										
O-TOLIDINE	10	U										
P-(DIMETHYLAMINO)AZOBENZENE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEPP	50	U										
THIONAZIN	50	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER: MPT-FP-DUP-01
 SAMPLE DATE: 03/13/01
 LABORATORY ID: A1C140217005
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-FP-DPW01S-01

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	U										
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1,4-PHENYLENEDIAMINE	10	UJ	C									
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER: MPT-FP-DUP-01
 SAMPLE DATE: 03/13/01
 LABORATORY ID: A1C140217005
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-FP-DPW01S-01

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	UJ	C									
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C									
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	UJ	C									
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U										
BUTYL BENZYL PHTHALATE	10	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-FP-DUP-01			
SAMPLE DATE:	03/13/01	//	//	//
LABORATORY ID:	A1C140217005			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:	MPT-FP-DPW01S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANE SULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	DE									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	UJ	C									
METHYL METHANE SULFONATE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODI-N-BUTYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										

**CTO091- MAYPORT
WATER DATA
QUANTERRA
SDG: MP039**

SAMPLE NUMBER:	MPT-FP-DUP-01			
SAMPLE DATE:	03/13/01	//	//	//
LABORATORY ID:	A1C140217005			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:	MPT-FP-DPW01S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
N-NITROSOPIPERIDINE	10	U										
N-NITROSPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										
O-TOLUIDINE	10	U										
P-(DIMETHYLAMINO)AZOBENZENE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										
SULFOTEPP	50	U										
THIONAZIN	50	U										

APPENDIX B
Results as reported by the Laboratory

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 001
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDMJ1A6 Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-47-DPW20S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
Work Order: DXDMJ1A6 Date Extracted: 03/20/01
Dilution factor: 1 Date Analyzed: 03/20/01
Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-47-DPW20S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
 Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDMN1AH Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture %:
 QC Batch: 1080114
 Client Sample Id: MPT-FP-DPW01S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDMN1AH Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-FP-DPW01S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

STL North Canton

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WG

Lab Sample ID: A1C140217 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXDMR1AH

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/20/01

Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-FP-DPW011-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 003

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01

Work Order: DXDMR1AH Date Extracted: 03/20/01

Dilution factor: 1 Date Analyzed: 03/20/01

Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-FP-DPW01I-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 004
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDMW1AH Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-FP-DPW01D-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 004
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
 Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDMW1AH Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture †:
 Client Sample Id: MPT-FP-DPW01D-01 QC Batch: 1080114

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
Matrix: (soil/water) WG Lab Sample ID: A1C140217 004
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
Work Order: DXDMW1AH Date Extracted: 03/20/01
Dilution factor: 1 Date Analyzed: 03/20/01
Moisture %:

Client Sample Id: MPT-FP-DPW01D-01 QC Batch: 1080114

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
 Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDM01AH Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture %:
 Client Sample Id: MPT-FP-DUP-01 QC Batch: 1080114

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WG

Lab Sample ID: A1C140217 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXDM01AH

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/20/01

Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-FP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethane	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
Work Order: DXDM01AH Date Extracted: 03/20/01
Dilution factor: 1 Date Analyzed: 03/20/01
Moisture %:

QC Batch: 1080114

Client Sample Id: MPT-FP-DUP-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WQ Lab Sample ID: A1C140217 006
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
 Work Order: DXDM21AA Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/20/01
 Moisture %:

QC Batch: 1080114

Client Sample Id: TRIP BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	6.0	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WQ

Lab Sample ID: A1C140217 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXDM21AA

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/20/01

Moisture %:

QC Batch: 1080114

Client Sample Id: TRIP BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	□
10061-01-5	cis-1,3-Dichloropropene	1.0	□
10061-02-6	trans-1,3-Dichloropropene	1.0	□
100-41-4	Ethylbenzene	1.0	□
97-63-2	Ethyl methacrylate	1.0	□
75-69-4	Trichlorofluoromethane	2.0	□
591-78-6	2-Hexanone	10	□
74-88-4	Iodomethane	1.0	□
78-83-1	Isobutyl alcohol	50	□
126-98-7	Methacrylonitrile	1.0	□
75-09-2	Methylene chloride	1.0	□
80-62-6	Methyl methacrylate	1.0	□
107-12-0	Propionitrile	4.0	□
100-42-5	Styrene	1.0	□
630-20-6	1,1,1,2-Tetrachloroethane	1.0	□
79-34-5	1,1,2,2-Tetrachloroethane	1.0	□
127-18-4	Tetrachloroethene	1.0	□
108-88-3	Toluene	0.42	□
71-55-6	1,1,1-Trichloroethane	1.0	□
79-00-5	1,1,2-Trichloroethane	1.0	□
79-01-6	Trichloroethene	1.0	□
96-18-4	1,2,3-Trichloropropane	1.0	□
108-05-4	Vinyl acetate	1.0	□
75-01-4	Vinyl chloride	1.0	□
1330-20-7	Xylenes (total)	1.0	□
106-93-4	1,2-Dibromoethane (EDB)	1.0	□
78-93-3	2-Butanone (MEK)	10	□
108-10-1	4-Methyl-2-pentanone (MIBK)	10	□

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WG

Lab Sample ID: ALC140217 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/14/01

Work Order: DXDMJ1AA

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-47-DPW20S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WC

Lab Sample ID: A1C140217 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/14/01

Work Order: DXDMJ1AA

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-47-DPW20S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMJ1AA Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-47-DPW20S-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMJ1AA Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 QC Batch: 1078386
 Client Sample Id: MPT-47-DPW20S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMJ1AA Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-47-DPW20S-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MPC39
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMN1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 QC Batch: 1078386
 Client Sample Id: MPT-FP-DPW01S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMN1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-PP-DPW01S-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
119-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WC Lab Sample ID: A1C140217 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMN1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 QC Batch: 1078386
 Client Sample Id: MPT-FP-DPW01S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-3	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WG

Lab Sample ID: A1C140217 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/14/01

Work Order: DXDMNLAK

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW01S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMN1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 QC Batch: 1078386
 Client Sample Id: MPT-FP-DPW01S-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WG

Lab Sample ID: A1C140217 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/14/01

Work Order: DXDMRLAK

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW01I-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMRIAK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DPW01I-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMR1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DPW01I-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorene	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMR1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW011-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP039

Matrix: (soil/water) WG

Lab Sample ID: A1C140217 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/14/01

Work Order: DXDMW1AK

Date Extracted: 03/20/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW01D-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	24		
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMW1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW01D-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
297-97-2	Thionazin	50		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMW1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW01D-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1988-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039

Matrix: (soil/water) WG Lab Sample ID: A1C140217 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMW1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:

QC Batch: 1078386

Client Sample Id: MPT-FP-DPW01D-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: AIC140217 004
 Method: SWS46 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDMW1AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-PP-DPW01D-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDM01AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DUP-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDM01AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DUP-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDM01AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DUP-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDM01AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DUP-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
621-64-7	N-Nitrosodi-n-propylamine	10		U
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
3689-24-5	Sulfotepp	50		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP039
 Matrix: (soil/water) WG Lab Sample ID: A1C140217 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/14/01
 Work Order: DXDM01AK Date Extracted: 03/20/01
 Dilution factor: 1 Date Analyzed: 03/26/01
 Moisture %:
 Client Sample Id: MPT-FP-DUP-01 QC Batch: 1078386

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U
140-57-8	Aramite	10		U

Report Date : 26-Jan-2001 08:48

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 25-JAN-2001 19:53
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\aux11.i\J10125A.b\8260LLUX11.m
 Cal Date : 25-Jan-2001 20:08 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
66 Bromoform	0.20803	0.21024	0.20316	0.20524	0.22492	0.19502	0.20777	4.767
67 Isopropylbenzene	1.25602	1.47538	1.48824	1.46518	1.57881	1.54317	1.46780	7.668
68 1,1,2,2-Tetrachloroethane	0.53095	0.53912	0.50090	0.51063	0.54610	0.43216	0.50998	8.195
69 1,4-Dichloro-2-butene	0.13136	0.14190	0.13699	0.14691	0.15842	0.12808	0.14061	7.881
70 1,2,3-Trichloropropane	0.17985	0.18759	0.17508	0.18494	0.18731	0.14888	0.17727	8.304
71 Bromobenzene	0.63433	0.64248	0.60559	0.62619	0.63567	0.61174	0.62600	2.320
72 n-Propylbenzene	0.60214	0.66150	0.69565	0.70677	0.71825	0.70147	0.68096	6.328
73 2-Chlorotoluene	0.54040	0.60165	0.59312	0.60567	0.60360	0.59659	0.59017	4.205
74 1,3,5-Trimethylbenzene	1.75973	1.99281	2.03654	2.05539	2.11819	2.04981	2.00208	6.263
75 4-Chlorotoluene	0.59044	0.60917	0.60944	0.61883	0.62410	0.61555	0.61125	1.910
76 tert-Butylbenzene	1.57281	1.81841	1.85762	1.87717	1.93763	1.89949	1.82719	7.162
77 1,2,4-Trimethylbenzene	1.87604	2.08523	2.11211	2.12880	2.19665	2.17033	2.09486	5.463
78 sec-Butylbenzene	2.19754	2.44160	2.53948	2.55814	2.65279	2.60637	2.49932	6.562
79 4-Isopropyltoluene	1.93362	2.17771	2.26875	2.26282	2.38344	2.33190	2.22637	7.159
80 1,3-Dichlorobenzene	1.19318	1.32542	1.26565	1.26194	1.28941	1.25927	1.26581	3.433
81 1,4-Dichlorobenzene	1.35289	1.39242	1.32553	1.32294	1.33925	1.30968	1.34045	2.196
82 n-Butylbenzene	1.74416	1.93090	1.94853	1.97728	2.06274	2.00910	1.94545	5.610
83 1,2-Dichlorobenzene	1.25660	1.32989	1.26667	1.26889	1.28837	1.26259	1.27883	2.128
84 1,2-Dibromo-3-chloropropane	0.14748	0.13517	0.13342	0.13772	0.15366	0.11678	0.13737	9.276
85 1,2,4-Trichlorobenzene	1.01702	1.01344	1.03235	1.03894	1.06980	0.96174	1.02221	3.502
86 Hexachlorobutadiene	0.42519	0.44421	0.44186	0.40751	0.43241	0.39308	0.42404	4.749
87 Naphthalene	2.04388	2.09001	2.16037	2.29717	2.48285	1.89571	2.16167	9.509
88 1,2,3-Trichlorobenzene	0.92144	0.94982	0.93510	0.93591	0.96209	0.83455	0.92315	4.937
89 Ethyl Ether	0.17438	0.18417	0.18470	0.19248	0.19180	0.18091	0.18474	3.688
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 3-Chloropropene	0.11730	0.11956	0.13387	0.12377	0.12970	0.12719	0.12523	4.995
92 Isopropyl Ether	0.19950	0.21264	0.21737	0.21637	0.22401	0.22061	0.21508	3.978
93 2-Chloro-1,3-butadiene	0.34144	0.35082	0.36579	0.35625	0.36548	0.36143	0.35687	2.657
94 Propionitrile	0.02522	0.02696	0.02716	0.02968	0.03035	0.02863	0.02800	6.825
95 Ethyl Acetate	0.18821	0.19012	0.17148	0.18953	0.19056	0.17784	0.18462	4.340
96 Methacrylonitrile	0.12741	0.12918	0.11913	0.13218	0.13134	0.12590	0.12752	3.714
97 Isobutanol	0.00628	0.00691	0.00671	0.00763	0.00781	0.00743	0.00713	8.300 <-
98 Cyclohexane	0.33448	0.37040	0.37456	0.37146	0.40240	0.40194	0.37587	6.675

OK RW
3-22-01

Report Date : 21-Mar-2001 16:08

Page 1

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-MAR-2001 09:24
 End Cal Date : 21-MAR-2001 15:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\8270D.m
 Cal Date : 21-Mar-2001 16:01 GruberJ
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\9AL0321.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\9AML0321.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\9AM0321.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\9AMH0321.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\9AH0321.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\9AHH0321.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	± RSD
198 1,4-Dioxane	0.87369	0.83758	0.76113	0.84970	0.82833	0.82450	0.82915	4.553
7 N-Nitrosomorpholine	1.07864	1.08691	1.06964	1.05855	1.04610	1.02345	1.06055	2.189
8 Ethyl methanesulfonate	1.78730	1.76232	1.76842	1.76811	1.76083	1.77379	1.77013	0.543
9 Pyridine	1.84502	1.97894	1.90019	1.89418	2.02774	2.07444	1.95342	4.516
10 N-Nitrosodimethylamine	1.35255	1.34432	1.34912	1.40098	1.43346	1.41634	1.38280	2.811
11 Ethyl methacrylate	1.89612	1.92488	1.88827	2.01261	2.09172	2.05079	1.97740	4.351
12 3-Chloropropionitrile	0.77873	0.87553	0.84472	0.86779	0.87209	0.86882	0.85128	4.367
13 Malononitrile	2.12579	2.26754	2.23119	2.16186	2.24742	2.26787	2.21694	2.678
14 2-Picoline	2.21275	2.27685	2.22397	2.30447	2.31195	2.34714	2.27952	2.304
15 N-Nitrosomethylethylamine	1.00847	1.03369	1.04573	1.05407	1.04335	1.05461	1.03999	1.660
16 Methyl methanesulfonate	1.39853	1.36511	1.35062	1.33666	1.32458	1.33316	1.34811	2.285
18 1,3-Dichloro-2-propanol	2.58742	2.55640	2.54854	2.54458	2.54416	2.54701	2.55469	0.651
19 N-Nitrosodiethylamine	0.87190	0.94474	0.95333	0.97021	0.96375	0.98351	0.94791	4.176
21 Aniline	2.53748	2.71175	2.68996	2.76502	2.84878	2.86677	2.73662	4.409
22 Phenol	2.30474	2.39352	2.37949	2.41212	2.46756	2.48992	2.40789	2.752
23 bis(2-Chloroethyl)ether	1.82561	1.82941	1.77820	1.82270	1.83477	1.83337	1.82068	1.170
24 2-Chlorophenol	1.24908	1.29131	1.27450	1.31908	1.33182	1.35205	1.30297	2.943
25 Pentachloroethane	0.55033	0.56552	0.55825	0.57974	0.58083	0.58312	0.56963	2.392
26 1,3-Dichlorobenzene	1.30766	1.30924	1.28821	1.35623	1.37354	1.38268	1.33626	2.956
27 1,4-Dichlorobenzene	1.30735	1.34763	1.32984	1.39552	1.40992	1.43451	1.37080	3.639
28 1,2-Dichlorobenzene	1.22629	1.25873	1.22199	1.28503	1.30272	1.32033	1.26918	3.185
29 Benzyl Alcohol	0.95844	1.04569	1.04737	1.08583	1.08803	1.11181	1.05620	5.119
30 2-Methylphenol	1.47951	1.52850	1.53251	1.57911	1.59958	1.61277	1.55533	3.255
31 bis(2-Chloroisopropyl)ether	1.50333	1.51868	1.48974	1.55030	1.55480	1.54168	1.52642	1.745
32 N-Nitroso-di-n-propylamine	1.71153	1.76741	1.74217	1.75277	1.74112	1.73458	1.74160	1.073

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-MAR-2001 09:24
 End Cal Date : 21-MAR-2001 15:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp9.i\10321a.b\8270D.m
 Cal Date : 21-Mar-2001 16:01 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.95524	3.13104	3.13035	3.20909	3.26479	3.30583	3.16606	3.947
192 4-Methylphenol	1.47572	1.60254	1.59784	1.62998	1.66521	1.69306	1.61072	4.693
193 3-Methylphenol	1.60850	1.62096	1.73075	1.68531	1.72049	1.78303	1.69151	3.980
34 Hexachloroethane	0.63233	0.65424	0.65759	0.68209	0.68670	0.68129	0.66571	3.196
35 Nitrobenzene	0.66020	0.67627	0.66506	0.66717	0.68278	0.67614	0.67127	1.262
36 N-Nitrosopyrrolidine	0.90198	0.92028	0.95395	0.96372	0.96512	0.99342	0.94975	3.494
37 Acetophenone	2.54348	2.26894	2.27707	2.55934	2.57275	2.41596	2.43959	5.767
39 o-Toluidine	2.70542	2.69610	2.80106	2.79171	2.82335	2.92914	2.79113	3.064
40 N-Nitrosopiperidine	0.21127	0.21712	0.21431	0.21788	0.22053	0.22057	0.21694	1.675
41 Isophorone	1.16299	1.21152	1.21800	1.27065	1.27846	1.26521	1.23447	3.640
42 2-Nitrophenol	0.14959	0.16883	0.17263	0.18342	0.19224	0.19636	0.17718	9.727
43 2,4-Dimethylphenol	0.48228	0.48441	0.48570	0.50389	0.51360	0.51440	0.49738	3.019
44 bis(2-Chloroethoxy)methane	0.58931	0.58766	0.58414	0.60972	0.62004	0.61469	0.60093	2.604
45 O,O,O-Triethyl phosphorothioa	0.19572	0.20064	0.19907	0.20423	0.20875	0.21168	0.20335	2.977
46 2,4-Toluenediamine	0.09537	0.04197	0.03066	0.04055	0.06474	0.08000	0.05888	43.164
47 1,3,5-Trichlorobenzene	0.31989	0.31845	0.31709	0.33511	0.34842	0.34541	0.33073	4.280
48 2,4-Dichlorophenol	0.54256	0.55352	0.55719	0.58819	0.60778	0.62327	0.57875	5.639
49 Benzoic Acid	++++	0.13110	0.11338	0.14486	0.14285	0.16106	0.13865	12.772
50 1,2,4-Trichlorobenzene	0.29231	0.29694	0.29480	0.30949	0.32088	0.31941	0.30564	4.158
51 Naphthalene	1.03703	1.03612	1.03531	1.09297	1.13138	1.13792	1.07846	4.527
52 4-Chloroaniline	0.31988	0.34436	0.34480	0.35313	0.37211	0.38126	0.35259	6.215
53 a,a-Dimethyl-phenethylamine	0.55670	0.68924	0.53946	0.94264	0.98133	1.00859	0.78633	27.568
54 2,6-Dichlorophenol	0.25999	0.26798	0.28008	0.27751	0.28338	0.29458	0.27725	4.357
55 Hexachloropropene	0.16372	0.17408	0.18878	0.18533	0.19803	0.21015	0.18668	8.874
56 Hexachlorobutadiene	0.19678	0.19840	0.19588	0.20590	0.21276	0.21137	0.20351	3.696
57 1,2,3-Trichlorobenzene	0.29166	0.28800	0.28401	0.30156	0.30856	0.31291	0.29778	3.923
58 N-Nitrosodi-n-butylamine	0.41092	0.43224	0.43464	0.43841	0.44226	0.43919	0.43294	2.622
59 4-Chloro-3-Methylphenol	0.38148	0.40570	0.40586	0.41266	0.42628	0.43021	0.41037	4.261
60 p-Phenylene diamine	0.19569	0.14468	0.14588	0.21214	0.23928	0.28272	0.20340	26.450
61 Safrole	0.27403	0.28316	0.28087	0.28905	0.29564	0.30010	0.28714	3.380
62 2-Methylnaphthalene	0.61434	0.62766	0.62532	0.66983	0.69230	0.69473	0.65403	5.498
63 1-Methylnaphthalene	0.60131	0.61809	0.62102	0.66185	0.68226	0.68610	0.64511	5.619
64 Hexachlorocyclopentadiene	0.28473	0.34090	0.35216	0.36901	0.40496	++++	0.35035	12.546

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-MAR-2001 09:24
 End Cal Date : 21-MAR-2001 15:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\8270D.m
 Cal Date : 21-Mar-2001 16:01 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.65224	0.65600	0.64921	0.68427	0.68937	0.70745	0.67309	3.558
66 2,4,6-Trichlorophenol	0.31640	0.33302	0.32902	0.34104	0.35799	0.34747	0.33749	4.332
67 2,4,5-Trichlorophenol	0.31551	0.32035	0.32070	0.33219	0.34093	0.34605	0.32929	3.765
68 1,2,3,5-Tetrachlorobenzene	0.60220	0.59913	0.59767	0.65219	0.68748	0.68027	0.63649	6.607
69 1,4-Dinitrobenzene	0.13163	0.15588	0.17399	0.16715	0.16932	0.18985	0.16464	11.894
70 2-Chloronaphthalene	0.98733	0.98575	0.97899	1.03039	1.08757	1.09338	1.02723	5.090
71 Isosafrole 1	0.15038	0.15038	0.14967	0.15840	0.15825	0.15828	0.15423	2.906
M 188 Isosafrole, Total	1.09656	1.14446	1.15142	1.20750	1.20803	1.25217	1.17669	4.766
72 Isosafrole 2	0.94618	0.99409	1.00174	1.04910	1.04978	1.09389	1.02247	5.103
73 2-Nitroaniline	0.41443	0.48662	0.48602	0.47620	0.50344	0.51536	0.48034	7.326
74 1,2,3,4-Tetrachlorobenzene	0.54506	0.53334	0.54398	0.58226	0.61885	0.61238	0.57264	6.503
75 1,4-Naphthoquinone	0.28106	0.34799	0.38533	0.39014	0.39134	0.39655	0.36540	12.282
76 Dimethylphthalate	1.17666	1.19504	1.19096	1.25358	1.29246	1.27059	1.22988	3.932
77 m-Dinitrobenzene	0.15928	0.17918	0.19565	0.18589	0.18800	0.20877	0.18613	8.912
78 2,6-Dinitrotoluene	0.21185	0.24010	0.24527	0.25716	0.26655	0.26779	0.24812	8.446
79 Acenaphthylene	1.72404	1.76252	1.77650	1.87321	1.96525	2.00008	1.85027	6.175
80 1,2-Dinitrobenzene	0.11390	0.11898	0.12376	0.12592	0.13344	0.13417	0.12503	6.370
81 3-Nitroaniline	0.17468	0.18703	0.18566	0.19812	0.21086	0.22965	0.19767	10.075
82 Acenaphthene	1.12248	1.11561	1.12423	1.18215	1.23997	1.24053	1.17083	5.028
83 2,4-Dinitrophenol	++++	0.06452	0.07710	0.07427	0.09444	0.11508	0.08508	23.441|<-
84 Pentachlorobenzene	0.50040	0.51054	0.50691	0.53126	0.54110	0.56303	0.52554	4.570
85 4-Nitrophenol	++++	0.15357	0.16259	0.15673	0.17570	0.19439	0.16860	9.917|<-
86 Dibenzofuran	1.39762	1.43144	1.42883	1.50626	1.57827	1.61182	1.49237	5.885
87 2,4-Dinitrotoluene	0.26649	0.30410	0.30892	0.31809	0.33168	0.34037	0.31161	8.333
88 2,3,4,6-Tetrachlorophenol	++++	0.21922	0.26767	0.25368	0.27412	0.30338	0.26362	11.657|<-
89 1-Naphthylamine	0.84543	0.86104	0.81785	0.87632	0.90203	0.99169	0.88239	6.867
90 Zinophos	0.43299	0.46941	0.47408	0.47441	0.47445	0.47702	0.46706	3.612
91 2,3,5,6-Tetrachlorophenol	0.23437	0.26863	0.27957	0.29530	0.31329	0.33757	0.28812	12.487
92 2-Naphthylamine	0.78820	0.77222	0.63582	0.67592	0.68725	0.80136	0.72680	9.497
93 Diethylphthalate	1.31825	1.33689	1.34106	1.40881	1.45532	1.43859	1.38315	4.224
94 Fluorene	1.13881	1.19705	1.22417	1.29458	1.35285	1.36576	1.26220	7.166
95 4-Chlorophenyl-phenylether	0.61848	0.63674	0.65682	0.69743	0.74027	0.73907	0.68147	7.655
96 4-Nitroaniline	0.12237	0.12932	0.14414	0.15982	0.17674	0.18668	0.15318	16.826

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-MAR-2001 09:24
 End Cal Date : 21-MAR-2001 15:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\8270D.m
 Cal Date : 21-Mar-2001 16:01 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.21205	0.25115	0.28281	0.25712	0.26117	0.29712	0.26024	11.248
98 4,6-Dinitro-2-methylphenol	+++++	0.08692	0.09868	0.10003	0.11704	0.12334	0.10520	14.041<
99 N-Nitrosodiphenylamine	0.54296	0.54214	0.54359	0.57016	0.58845	0.58502	0.56205	3.891
100 1,2-Diphenylhydrazine	1.41981	1.41720	1.40577	1.42261	1.46578	1.40645	1.42293	1.554
101 Diphenylamine	0.54296	0.54214	0.54359	0.57016	0.58845	0.58502	0.56205	3.891
102 Tetraethyl dithiopyrophosphat	0.13619	0.15048	0.13888	0.15620	0.15229	0.14129	0.14589	5.591
103 Diallate 1	1.33914	1.34499	1.18918	1.34756	1.27541	1.14563	1.27365	6.878
M 189 Diallate, Total	4.18364	4.29585	4.42367	4.26529	4.22415	4.26390	4.27609	1.919
104 Phorate	0.20294	0.21268	0.19791	0.22034	0.21316	0.19924	0.20771	4.330
105 1,3,5-Trinitrobenzene	+++++	0.06580	0.07739	0.07677	0.07912	0.08610	0.07704	9.470<
106 4-Bromophenyl-phenylether	0.20558	0.20432	0.20785	0.21860	0.22963	0.22530	0.21522	5.033
107 Hexachlorobenzene	0.22641	0.21899	0.22023	0.23708	0.24319	0.23985	0.23096	4.522
108 Phenacetin	0.35652	0.42154	0.42994	0.42260	0.41224	0.42748	0.41172	6.733
109 Diallate 2	0.20912	0.21707	0.19538	0.21933	0.21057	0.19338	0.20747	5.235
110 Dimethoate	0.41475	0.45016	0.45722	0.47304	0.45834	0.38702	0.44009	7.379
111 Pentachlorophenol	0.07057	0.09117	0.10798	0.10950	0.12155	0.13437	0.10566	21.283<
112 Pentachloronitrobenzene	0.12222	0.12690	0.11859	0.12731	0.12379	0.11745	0.12271	3.355
113 4-Aminobiphenyl	0.51647	0.46485	0.38426	0.43850	0.49845	0.56640	0.47816	13.304
114 Pronamide	0.39707	0.40906	0.38254	0.42542	0.41853	0.39613	0.40479	3.925
115 Phenanthrene	0.98818	0.99375	0.99618	1.05561	1.10717	1.11402	1.04249	5.584
116 Anthracene	0.89455	0.95506	0.96059	1.00474	1.06742	1.07251	0.99248	7.007
117 Dinoseb	0.09197	0.13334	0.15389	0.17198	0.18890	0.20236	0.15708	25.620
118 Disulfoton	0.83430	0.80817	0.73236	0.80059	0.77695	0.70518	0.77626	6.300
119 Carbazole	0.58696	0.58249	0.67589	0.72743	0.79029	0.81498	0.72967	8.200
120 Di-n-Butylphthalate	1.29488	1.35767	1.38044	1.47019	1.48645	1.45603	1.40761	5.356
121 4-Nitroquinoline 1-oxide	0.01784	0.03375	0.04130	0.04198	0.04335	0.04641	0.03744	27.976
122 Mechapyrilene	0.21751	0.26031	0.21971	0.27821	0.25921	0.20186	0.23947	12.683
123 Fluoranthene	0.93183	0.95383	0.97362	1.03097	1.08915	1.12931	1.01812	7.750
124 Benzidine	0.27365	0.22523	0.24275	0.28809	0.36727	0.37258	0.29493	21.090
125 Pyrene	1.90355	1.96748	1.92325	1.85248	1.89626	1.92892	1.91199	2.006
126 Aramite 1	0.11199	0.13079	0.14287	0.14962	0.15245	0.14080	0.13809	10.760
M 191 Aramite, Total	0.34284	0.42845	0.51648	0.43214	0.44627	0.46888	0.43918	13.022
127 Aramite 2	0.17263	0.17962	0.20003	0.20730	0.21488	0.19687	0.19522	8.298

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-MAR-2001 09:24
 End Cal Date : 21-MAR-2001 15:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\8270D.m
 Cal Date : 21-Mar-2001 16:01 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.32518	0.35927	0.39579	0.38694	0.40165	0.42518	0.38233	9.218
129 p-Chlorobenzilate	0.92148	0.84032	0.87684	0.90829	0.92529	0.88086	0.89218	3.638
130 Famphur	0.73053	0.66621	0.51618	0.48425	0.40037	0.29035	0.51465	31.795
131 Butylbenzylphthalate	0.69427	0.81304	0.81332	0.79975	0.78269	0.76364	0.77778	5.803
132 3,3'-Dimethylbenzidine	0.50698	0.39824	0.31816	0.47567	0.52472	0.52119	0.45749	18.099
133 3,3'-Dimethoxybenzidine	0.11103	0.11336	0.10785	0.14894	0.18053	0.17827	0.14000	24.264
134 2-Acetylaminofluorene	0.18301	0.31844	0.39186	0.41515	0.43631	0.40634	0.35852	26.481
135 3,3'-Dichlorobenzidine	0.28259	0.28781	0.29005	0.31583	0.34398	0.33155	0.30864	8.303
136 Benzo(a)Anthracene	1.12742	1.14590	1.14180	1.18577	1.22402	1.22067	1.17426	3.575
137 Chrysene	1.02098	1.02444	1.01110	1.03954	1.07213	1.05090	1.03651	2.165
138 4,4'-Methylene bis(o-chloroa)	0.17318	0.18419	0.18451	0.19747	0.20618	0.20923	0.19246	7.341
139 bis(2-ethylhexyl)Phthalate	1.13056	1.25315	1.16880	1.19319	1.15381	1.10571	1.16754	4.429
140 Di-n-octylphthalate	1.72760	2.17921	2.17031	2.35373	2.22086	2.38932	2.17350	10.891
141 Benzo(b)fluoranthene	1.18809	1.16376	1.22226	1.23991	1.31401	1.32884	1.24281	5.355
142 Benzo(k)fluoranthene	1.13511	1.27672	1.20426	1.32487	1.34612	1.41880	1.28431	7.962
143 7,12-dimethylbenz[a]anthracen	0.67877	0.72576	0.66258	0.72910	0.74154	0.80317	0.72349	6.889
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	0.93827	0.97724	0.97345	1.03937	1.09373	1.10249	1.02076	6.686
148 3-Methylcholanthrene	0.55263	0.60561	0.59851	0.61729	0.62757	0.64432	0.60765	5.177
149 Indeno(1,2,3-cd)pyrene	0.92713	0.95742	0.96450	1.03934	1.11028	1.05664	1.00922	6.977
150 Dibenz(a,h)anthracene	0.74769	0.77160	0.77887	0.85106	0.92145	0.86075	0.82190	8.099
151 Benzo(g,h,i)perylene	0.83889	0.82099	0.82423	0.87423	0.91411	0.87888	0.85856	4.271
199 3-Picoline	1.76543	1.84067	1.87293	2.11498	2.11929	2.16543	1.97979	8.717
200 N,N-Dimethylacetamide	1.10033	1.12712	1.17962	1.17185	1.18335	1.19566	1.15965	3.222
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	1.88481	1.86652	1.84372	1.78754	1.80498	1.71028	1.81631	3.496

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-MAR-2001 09:24
 End Cal Date : 21-MAR-2001 15:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10321a.b\8270D.m
 Cal Date : 21-Mar-2001 16:01 GruberJ
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	15.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.07701	0.08819	0.08797	0.10025	0.09948	0.10009	0.09217	10.232
211 1,1'-Biphenyl	1.39122	1.42064	1.42151	1.52498	1.61617	1.59192	1.49441	6.465
212 Atrazine	0.20478	0.20992	0.21389	0.22628	0.23308	0.22114	0.21818	4.862
\$ 154 Nitrobenzene-d5	0.65122	0.67781	0.67015	0.67493	0.69515	0.68947	0.67645	2.289
\$ 155 2-Fluorobiphenyl	1.30656	1.29274	1.29474	1.38215	1.45767	1.43550	1.36156	5.432
\$ 156 Terphenyl-d14	1.06916	1.12046	1.10178	1.09362	1.11523	1.12734	1.10460	1.927
\$ 157 Phenol-d5	1.97165	2.09086	2.07289	2.10156	2.14883	2.18559	2.09523	3.499
\$ 158 2-Fluorophenol	1.30505	1.45626	1.44760	1.46773	1.52252	1.53258	1.45529	5.606
\$ 159 2,4,6-Tribromophenol	0.09956	0.11498	0.11876	0.12604	0.13245	0.14263	0.12240	12.193
\$ 186 2-Chlorophenol-d4	1.09606	1.14572	1.13701	1.17404	1.18618	1.20984	1.15814	3.489
\$ 187 1,2-Dichlorobenzene-d4	0.85301	0.86339	0.85492	0.89106	0.90906	0.91590	0.88122	3.161

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Lot #: A1C190000

WO #: DXLL31AC

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	35	70	31- 110	
Acenaphthene	50	40	80	39- 118	
2,4-Dinitrotoluene	50	43	86	47- 131	
Pyrene	50	36	73	46- 130	
N-Nitrosodi-n-propylamine	50	41	81	30- 115	
1,4-Dichlorobenzene	50	31	63	28- 110	
Pentachlorophenol	50	40	80	10- 140	
Phenol	50	39	79	10- 131	
2-Chlorophenol	50	39	77	19- 124	
4-Chloro-3-methylphenol	50	40	81	29- 124	
4-Nitrophenol	50	38	76	19- 144	
1,2-Dichlorobenzene	50	33	66	39- 90	
1,3-Dichlorobenzene	50	31	63	34- 85	
2,4,5-Trichlorophenol	50	43	86	41- 125	
4-Methylphenol	100	76	76	29- 144	
4-Nitroaniline	50	29	58	32- 106	
Acenaphthylene	50	39	78	48- 101	
Anthracene	50	41	81	56- 105	
Benzo(a)anthracene	50	38	76	56- 109	
Benzo(a)pyrene	50	39	79	50- 100	
Benzo(b)fluoranthene	50	41	83	52- 108	
Benzo(ghi)perylene	50	39	79	45- 115	
Benzo(k)fluoranthene	50	40	81	53- 112	
bis(2-Chloroethoxy)methan	50	41	83	39- 109	
bis(2-Chloroethyl) ether	50	43	86	45- 103	
2,2'-Oxybis(1-Chloropropa	50	40	80	49- 136	
bis(2-Ethylhexyl) phthala	50	41	83	56- 127	
2,4,6-Trichlorophenol	50	41	83	46- 135	
2,4-Dichlorophenol	50	41	82	48- 101	
2,4-Dimethylphenol	50	13	27	10- 88	
2,4-Dinitrophenol	50	45	90	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Lot #: A1C190000

WO #: DXLL31AC

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	45	90	62- 114	
2-Chloronaphthalene	50	39	79	51- 106	
2-Methylnaphthalene	50	39	78	49- 98	
2-Methylphenol	50	36	71	33- 115	
2-Nitroaniline	50	46	92	55- 119	
2-Nitrophenol	50	40	80	43- 104	
3,3'-Dichlorobenzidine	50	17	33	20- 76	
3-Nitroaniline	50	30	60	33- 107	
4,6-Dinitro-2-methylpheno	50	37	75	37- 137	
4-Bromophenyl phenyl ethe	50	40	81	57- 114	
4-Chloroaniline	50	28	57	19- 82	
4-Chlorophenyl phenyl eth	50	41	82	57- 114	
Butyl benzyl phthalate	50	37	73	53- 113	
Carbazole	50	41	82	37- 114	
Chrysene	50	40	81	59- 112	
Dibenz (a, h) anthracene	50	41	82	50- 112	
Dibenzofuran	50	42	83	55- 107	
Diethyl phthalate	50	16	32*	48- 112	a
Dimethyl phthalate	50	7.8	16*	46- 117	a
Di-n-octyl phthalate	50	42	83	49- 127	
Fluoranthene	50	42	84	53- 116	
Fluorene	50	43	85	57- 107	
Hexachlorobenzene	50	40	80	57- 128	
Hexachlorobutadiene	50	33	65	36- 116	
Hexachloroethane	50	30	60	30- 110	
Isophorone	50	40	79	48- 103	
Naphthalene	50	37	75	46- 95	
Nitrobenzene	50	42	84	45- 130	
N-Nitrosodiphenylamine	50	38	75	47- 112	
Phenanthrene	50	40	79	58- 110	
Indeno (1, 2, 3-cd) pyrene	50	40	79	49- 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP039

Lot #: A1C190000

WO #: DXLL31AC

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	38	75	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a
Benzoic acid	50	35	71	50- 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS :

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: LAB MS/MSD

Lot #: A1C160106

WO #: DXG7H1CF

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100	ND	72	72	22- 110	
Acenaphthene	100	ND	75	75	26- 118	
2,4-Dinitrotoluene	100	ND	83	83	31- 131	
Pyrene	100	ND	65	65	27- 138	
N-Nitrosodi-n-propylamine	100	ND	78	78	18- 115	
1,4-Dichlorobenzene	100	ND	66	66	18- 110	
Pentachlorophenol	100	ND	68	68	10- 140	
Phenol	100	ND	66	66	10- 131	
2-Chlorophenol	100	ND	68	68	19- 124	
4-Chloro-3-methylphenol	100	ND	72	72	21- 124	
4-Nitrophenol	100	ND	82	82	10- 145	
Acenaphthylene	100	ND	71	71	48- 96	
Anthracene	100	ND	78	78	52- 101	
Benzo(a)anthracene	100	ND	73	73	52- 110	
Benzo(b)fluoranthene	100	ND	80	80	48- 107	
Benzo(k)fluoranthene	100	ND	74	74	53- 109	
Benzo(ghi)perylene	100	ND	74	74	48- 109	
Benzo(a)pyrene	100	ND	73	73	47- 98	
bis(2-Chloroethoxy)methan	100	ND	77	77	40- 101	
bis(2-Chloroethyl) ether	100	ND	79	79	36- 104	
2,2'-Oxybis(1-Chloropropa	100	ND	75	75	43- 133	
bis(2-Ethylhexyl) phthala	100	ND	79	79	44- 133	
4-Bromophenyl phenyl ethe	100	ND	75	75	56- 110	
Butyl benzyl phthalate	100	ND	68	68	46- 115	
Carbazole	100	ND	85	85	42- 115	
4-Chloroaniline	100	ND	43	43	13- 71	
2-Chloronaphthalene	100	ND	76	76	46- 104	
4-Chlorophenyl phenyl eth	100	ND	78	78	55- 110	

(Continued on next page)

SW645 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: LAB MS/MSD

Lot #: A1C160106

WO #: DXG7H1CF

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Chrysene	100	ND	78	78	54 - 115	
Dibenz (a, h)anthracene	100	ND	77	77	49 - 110	
Dibenzofuran	100	ND	78	78	53 - 104	
Di-n-butyl phthalate	100	ND	72	72	53 - 109	
1,2-Dichlorobenzene	100	ND	69	69	33 - 91	
1,3-Dichlorobenzene	100	ND	66	66	30 - 86	
3,3'-Dichlorobenzidine	100	ND	34	34	10 - 71	
2,4-Dichlorophenol	100	ND	80	80	43 - 103	
Diethyl phthalate	100	ND	33	33*	36 - 117	a
2,4-Dimethylphenol	100	ND	24	24	10 - 88	
Dimethyl phthalate	100	ND	14	14*	32 - 124	a
4,6-Dinitro-2-methylpheno	100	ND	76	76	46 - 123	
2,4-Dinitrophenol	100	ND	95	95	30 - 133	
2,6-Dinitrotoluene	100	ND	84	84	58 - 109	
Di-n-octyl phthalate	100	ND	78	78	46 - 124	
Fluoranthene	100	ND	86	86	51 - 113	
Fluorene	100	ND	80	80	54 - 105	
Hexachlorobenzene	100	ND	74	74	36 - 132	
Hexachlorobutadiene	100	ND	67	67	18 - 116	
Hexachlorocyclopentadiene	100	ND	0.0	0*	10 - 45	a
Hexachloroethane	100	ND	63	63	18 - 110	
Indeno(1,2,3-cd)pyrene	100	ND	75	75	48 - 113	
Isophorone	100	ND	75	75	42 - 102	
2-Methylnaphthalene	100	ND	75	75	39 - 102	
Naphthalene	100	ND	74	74	39 - 96	
2-Nitroaniline	100	ND	86	86	44 - 116	
3-Nitroaniline	100	ND	71	71	20 - 102	
2-Methylphenol	100	ND	63	63	29 - 115	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP039

Matrix Spike ID: LAB MS/MSD

Lot #: ALC160106

WO #: DXG7H1CF

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
4-Methylphenol	200	ND	130	64	25 - 144	
4-Nitroaniline	100	ND	75	75	25 - 95	
Nitrobenzene	100	ND	79	79	10 - 211	
2-Nitrophenol	100	ND	73	73	35 - 104	
N-Nitrosodiphenylamine	100	ND	72	72	53 - 99	
Phenanthrene	100	ND	76	76	55 - 109	
2,4,5-Trichlorophenol	100	ND	75	75	24 - 143	
2,4,6-Trichlorophenol	100	ND	73	73	36 - 135	
Benzoic acid	100	ND	63	63	50 - 130	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits
 Spike Recovery: 3 out of 65 outside limits

COMMENTS:

FORM III

STL North Canton

206

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: LAB MS/MSD

Lot #: A1C160106

WO #: DXG7H1CG

BATCH: 1078386

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	76	76	6.5	37	22- 110	
Acenaphthene	100	81	81	7.9	35	26- 118	
2,4-Dinitrotoluene	100	93	93	11	32	31- 131	
Pyrene	100	68	68	5.2	31	27- 138	
N-Nitrosodi-n-propylamine	100	86	86	9.4	36	18- 115	
1,4-Dichlorobenzene	100	71	71	7.3	36	18- 110	
Pentachlorophenol	100	75	76	11	56	10- 140	
Phenol	100	67	66	1.0	43	10- 131	
2-Chlorophenol	100	68	68	1.1	43	19- 124	
4-Chloro-3-methylphenol	100	76	76	5.7	55	21- 124	
4-Nitrophenol	100	98	98	18	34	10- 145	
Acenaphthylene	100	77	77	8.1	21	48- 96	
Anthracene	100	82	82	5.0	18	52- 101	
Benzo(a)anthracene	100	81	80	9.2	16	52- 110	
Benzo(b)fluoranthene	100	86	86	6.8	20	48- 107	
Benzo(k)fluoranthene	100	82	82	9.6	20	53- 109	
Benzo(ghi)perylene	100	74	74	0.62	17	48- 109	
Benzo(a)pyrene	100	78	78	7.0	18	47- 98	
bis(2-Chloroethoxy)methan	100	84	84	8.3	40	40- 101	
bis(2-Chloroethyl) ether	100	89	89	12	26	36- 104	
2,2'-Oxybis(1-Chloropropa	100	82	82	9.6	25	43- 133	
bis(2-Ethylhexyl) phthala	100	84	84	6.1	23	44- 133	
4-Bromophenyl phenyl ethe	100	80	80	7.1	17	56- 110	
Butyl benzyl phthalate	100	69	69	1.9	18	46- 115	
Carbazole	100	92	92	7.6	21	42- 115	
4-Chloroaniline	100	62	62	34	41	13- 71	
2-Chloronaphthalene	100	82	82	7.7	25	46- 104	
4-Chlorophenyl phenyl eth	100	85	85	8.6	19	55- 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: LAB MS/MSD

Lot #: A1C160106

WO #: DXG7H1CG

EATCH: 1078386

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Chrysene	100	83	83	5.6	16	54- 115	
Dibenz(a,h)anthracene	100	76	76	0.88	18	49- 110	
Dibenzofuran	100	86	86	9.4	20	53- 104	
Di-n-butyl phthalate	100	74	74	2.6	17	53- 109	
1,2-Dichlorobenzene	100	74	74	7.0	29	33- 91	
1,3-Dichlorobenzene	100	71	71	7.3	31	30- 86	
3,3'-Dichlorobenzidine	100	40	40	18	36	10- 71	
2,4-Dichlorophenol	100	87	87	7.9	26	43- 103	
Diethyl phthalate	100	38	38	11	20	36- 117	
2,4-Dimethylphenol	100	27	27	11	28	10- 88	
Dimethyl phthalate	100	17	17*	17	22	32- 124	a
4,6-Dinitro-2-methylpheno	100	88	88	15	24	46- 123	
2,4-Dinitrophenol	100	120	115	19	32	30- 133	
2,6-Dinitrotoluene	100	93	93	11	16	58- 109	
Di-n-octyl phthalate	100	85	85	8.2	22	46- 124	
Fluoranthene	100	95	95	9.9	19	51- 113	
Fluorene	100	88	88	9.5	19	54- 105	
Hexachlorobenzene	100	78	78	5.2	22	36- 132	
Hexachlorobutadiene	100	73	73	8.5	32	18- 116	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10- 45	a
Hexachloroethane	100	68	68	6.7	33	18- 110	
Indeno(1,2,3-cd)pyrene	100	75	75	0.51	19	48- 113	
Isophorone	100	81	81	6.6	25	42- 102	
2-Methylnaphthalene	100	82	82	9.1	28	39- 102	
2-Methylphenol	100	71	71	12	31	29- 115	
4-Methylphenol	200	140	69	7.2	33	25- 144	
Naphthalene	100	81	81	8.4	26	39- 96	
2-Nitroaniline	100	97	97	11	17	44- 116	

(Continued on next page)

SW646 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: LAB MS/MSD

Lot #: A1C160106

WO #: DXG7H1CG

BATCH: 1078386

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	100	71	71	0.28	23	20- 102	
4-Nitroaniline	100	76	76	2.1	26	25- 95	
Nitrobenzene	100	86	86	8.2	50	10- 211	
2-Nitrophenol	100	87	87	17	26	35- 104	
N-Nitrosodiphenylamine	100	76	76	5.0	18	53- 99	
Phenanthrene	100	82	82	7.2	18	55- 109	
2,4,5-Trichlorophenol	100	77	77	3.4	22	24- 143	
2,4,6-Trichlorophenol	100	73	73	0.27	27	36- 135	
Benzoic acid	100	86	86	31	50	50- 130	

NOTES (S):

1 Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 65 outside limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

FORM III

STL North Canton

209

SWG46 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXLL31AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLCAN

SDG Number:MP039

Lab File ID: DXLL31AA.

Lot Number: A1C140217

Date Analyzed: 03/23/01

Time Analyzed: 11:01

Matrix: WATER

Date Extracted:03/20/01

GC Column: DB .625 ID: .32

Extraction Method: 3520C

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-47-DPW20S-01	DXDMJ1AA	DXDMJ1AA.	03/26/01	19:56
02	MPT-FP-DPW01S-01	DXDMN1AK	DXDMN1AK.	03/26/01	18:29
03	MPT-FP-DPW01I-01	DXDMR1AK	DXDMR1AK.	03/26/01	18:58
04	MPT-FP-DPW01D-01	DXDMW1AK	DXDMW1AK.	03/26/01	20:25
05	MPT-FP-DUP-01	DXDM01AK	DXDM01AK.	03/26/01	19:27
06	INTRA-LAB QC	DXG7H1CE	DXG7H1CE.	03/23/01	18:22
07	LAB MS/MSD	DXG7H1CF S	DXG7H1CF.	03/26/01	14:06
08	LAB MS/MSD	DXG7H1CG D	DXG7H1CG.	03/26/01	14:35
09	CHECK SAMPLE	DXLL31AC C	DXLL31AC.	03/23/01	11:30
10					
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COMMENTS:

FORM IV

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.1\10323a.b\9SM0323.D
 Report Date: 03/23/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.1
 Lab File ID: 9SM0323.D
 Analysis Type: NONE

Injection Date: 23-MAR-2001 09:04
 Lab Sample ID: sstd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.1\10323a.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Phenol	16.0000	15.6075	2.5	20.0
2 bis(2-Chloroethyl)ether	16.0000	15.6628	2.1	50.0
3 2-Chlorophenol	16.0000	15.5133	3.0	50.0
4 1,3-Dichlorobenzene	16.0000	15.4130	3.7	50.0
5 1,4-Dichlorobenzene	16.0000	15.5693	2.7	20.0
6 1,2-Dichlorobenzene	16.0000	15.4142	3.7	50.0
7 2-Methylphenol	16.0000	15.8641	0.8	50.0
8 bis(2-Chloroisopropyl)ether	16.0000	15.6392	2.3	50.0
9 4-Methylphenol	16.0000	15.5494	2.8	50.0
11 1,4-Dichlorobenzene-d4	8.0000	8.0000	0.0	50.0
12 Hexachloroethane	16.0000	15.7657	1.5	50.0
13 Nitrobenzene	16.0000	16.0847	0.5	50.0
14 Isophorone	16.0000	15.7031	1.9	50.0
15 2-Nitrophenol	16.0000	15.4599	3.4	20.0
16 2,4-Dimethylphenol	16.0000	15.6893	1.9	50.0
17 bis(2-Chloroethoxy)methane	16.0000	15.1685	5.2	50.0
18 2,4-Dichlorophenol	16.0000	15.4537	3.4	20.0
18 N-Nitroso-di-n-propylamine	16.0000	16.0963	0.6	50.0
19 1,2,4-Trichlorobenzene	16.0000	15.4094	3.7	50.0
20 Naphthalene	16.0000	15.3076	4.3	50.0
21 4-Chloroaniline	16.0000	14.3045	10.6	50.0
22 Hexachlorobutadiene	16.0000	15.2815	4.5	20.0
23 4-Chloro-3-Methylphenol	16.0000	16.0895	0.6	20.0
24 2-Methylnaphthalene	16.0000	15.4582	3.4	50.0
25 Hexachlorocyclopentadiene	16.0000	15.2323	4.8	50.0
26 2,4,6-Trichlorophenol	16.0000	16.6200	3.9	20.0
27 2,4,5-Trichlorophenol	16.0000	17.2736	8.0	50.0
28 2-Chloronaphthalene	16.0000	15.3439	4.1	50.0
29 2-Nitroaniline	16.0000	16.7842	4.9	50.0
30 Dimethylphthalate	16.0000	15.5350	2.9	50.0
31 Acenaphthylene	16.0000	15.5058	3.1	50.0
32 2,6-Dinitrotoluene	16.0000	16.2634	1.6	50.0
32 Naphthalene-d8	8.0000	8.0000	0.0	50.0
33 3-Nitroaniline	16.0000	14.0573	12.1	50.0
34 Acenaphthene	16.0000	15.3952	3.8	20.0
35 2,4-Dinitrophenol	16.0000	15.5391	2.9	50.0
36 4-Nitrophenol	16.0000	14.4973	9.4	50.0
37 Dibenzofuran	16.0000	15.6915	1.9	50.0
38 2,4-Dinitrotoluene	16.0000	16.4077	2.5	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10323a.b\9SM0323.D
 Report Date: 03/23/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9SM0323.D
 Analysis Type: NONE

Injection Date: 23-MAR-2001 09:04
 Lab Sample ID: sstd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
39 Diethylphthalate	16.0000	15.8478	1.0	50.0
40 4-Chlorophenyl-phenylether	16.0000	15.6674	2.1	50.0
41 Fluorene	16.0000	15.7796	1.4	50.0
42 4-Nitroaniline	16.0000	15.7598	1.5	50.0
43 4,6-Dinitro-2-methylphenol	16.0000	14.0008	12.5	50.0
44 N-Nitrosodiphenylamine	16.0000	15.3570	4.0	20.0
45 4-Bromophenyl-phenylether	16.0000	15.2512	4.7	50.0
46 Hexachlorobenzene	16.0000	15.1039	5.6	50.0
47 Pentachlorophenol	16.0000	15.1865	5.1	20.0
48 Phenanthrene	16.0000	15.4627	3.4	50.0
49 Anthracene	16.0000	15.2894	4.4	50.0
50 Carbazole	16.0000	14.4343	9.8	50.0
51 Di-n-Butylphthalate	16.0000	15.6797	2.0	50.0
52 Fluoranthene	16.0000	15.4555	3.4	20.0
52 Acenaphthene-d10	8.0000	8.0000	0.0	50.0
53 Pyrene	16.0000	15.4385	3.5	50.0
54 Butylbenzylphthalate	16.0000	16.0813	0.5	50.0
55 3,3'-Dichlorobenzidine	16.0000	14.7799	7.6	50.0
56 Benzo(a)Anthracene	16.0000	15.7497	1.6	50.0
57 Chrysene	16.0000	15.8955	0.7	50.0
58 bis(2-ethylhexyl)Phthalate	16.0000	16.6959	4.3	50.0
59 Di-n-octylphthalate	16.0000	15.3216	4.2	20.0
60 Benzo(b)fluoranthene	16.0000	15.4410	3.5	50.0
61 Benzo(k)fluoranthene	16.0000	15.6285	2.3	50.0
62 Benzo(a)pyrene	16.0000	15.6445	2.2	20.0
63 Indeno(1,2,3-cd)pyrene	16.0000	16.0461	0.3	50.0
64 Dibenz(a,h)anthracene	16.0000	16.1242	0.8	50.0
65 Benzo(g,h,i)perylene	16.0000	15.8912	0.7	50.0
66 Pyridine	16.0000	16.4262	2.7	50.0
67 N-Nitrosodimethylamine	16.0000	15.1667	5.2	50.0
68 Aniline	16.0000	14.9552	6.5	50.0
69 Benzyl Alcohol	16.0000	15.7206	1.7	50.0
71 Benzoic Acid	16.0000	12.1015	24.4	50.0
72 1-Methylnaphthalene	16.0000	15.5308	2.9	50.0
75 1,2-Dinitrobenzene	16.0000	15.9595	0.3	50.0
77 2,3,5,6-Tetrachlorophenol	16.0000	15.8242	1.1	50.0
78 Phenanthrene-d10	8.0000	8.0000	0.0	50.0
78 1,2-Diphenylhydrazine	16.0000	16.1091	0.7	50.0
79 Benzidine	16.0000	5.6286	64.8	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10323a.b\9SM0323.D
 Report Date: 03/23/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9SM0323.D
 Analysis Type: NONE

Injection Date: 23-MAR-2001 09:04
 Lab Sample ID: sstd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		%D
82 Ethyl methacrylate	16.0000	16.4104	2.6	50.0
83 3-Chloropropionitrile	16.0000	15.7759	1.4	50.0
84 Malononitrile	16.0000	15.7172	1.8	50.0
90 Chrysene-d12	8.0000	8.0000	0.0	50.0
92 Acetophenone	16.0000	15.0368	6.0	50.0
96 2,4-Toluenediamine	16.0000	0.0000	100.0	50.0
97 1,3,5-Trichlorobenzene	16.0000	15.3158	4.3	50.0
101 1,2,3-Trichlorobenzene	16.0000	15.3016	4.4	50.0
101 Perylene-d12	8.0000	8.0000	0.0	50.0
106 1,2,3,5-Tetrachlorobenzene	16.0000	15.0738	5.8	50.0
110 1,2,3,4-Tetrachlorobenzene	16.0000	15.4042	3.7	50.0
117 Diphenylamine	16.0000	15.3570	4.0	50.0
140 3,3'-Dimethoxybenzidine	16.0000	8.1485	49.1	50.0
142 4,4'-Methylene bis(o-chloroan	16.0000	14.4707	9.6	50.0
195 Cresols, total	16.0000	31.4134	96.3	50.0
209 Benzaldehyde	16.0000	16.1365	0.9	50.0
210 Caprolactam	16.0000	18.8953	18.1	50.0
211 1,1'-Biphenyl	16.0000	15.4142	3.7	50.0
212 Atrazine	16.0000	15.6100	2.4	50.0
181 Nitrobenzene-d5	16.0000	16.1048	0.7	50.0
182 2-Fluorobiphenyl	16.0000	15.2730	4.5	50.0
183 Terphenyl-d14	16.0000	15.9386	2.9	50.0
184 Phenol-d5	16.0000	15.6473	2.2	50.0
185 2-Fluorophenol	16.0000	15.4618	3.4	50.0
186 2,4,6-Tribromophenol	16.0000	16.0637	0.4	50.0
187 2-Chlorophenol-d4	16.0000	15.4393	3.5	50.0
188 1,2-Dichlorobenzene-d4	16.0000	15.5951	2.5	50.0

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP039
 Lab File ID: 9DF0323A DFTPP Injection Date: 03/23/01
 Instrument ID: A4HP9 DFTPP Injection Time: 0841

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	76.5
70	Less than 2.0% of mass 69	0.9 (1.2)1
127	40.0 - 60.0% of mass 198	53.3
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than mass 443	8.8
442	Greater than 40.0% of mass 198	52.9
443	17.0 - 23.0% of mass 442	11.1 (21.0)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0323	03/23/01	0904
02	ASTD008	ASTD008	9AM0323	03/23/01	0934
03	DXLL3BLK	DXLL31AA	DXLL31AA	03/23/01	1101
04	DXLL3CHK	DXLL31AC	DXLL31AC	03/23/01	1130
05					
06					
07					
08					
09					
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11					
12					
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14					
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19					
20					
21					
22					

at 10:20

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 23-MAR-2001 09:04
 Lab File ID: 9SM0323.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10323a.b\8270d.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
9 Pyridine	1.95342	2.00545	0.010	2.7	50.0
10 N-Nitrosodimethylamine	1.38280	1.31078	0.010	-5.2	50.0
11 Ethyl methacrylate	1.97740	2.02812	0.010	2.6	50.0
12 3-Chloropropionitrile	0.85128	0.83936	0.010	-1.4	50.0
13 Malononitrile	2.21694	2.17776	0.010	-1.8	50.0
209 Benzaldehyde	1.81631	1.83180	0.010	0.9	50.0
21 Aniline	2.73663	2.55792	0.010	-6.5	50.0
22 Phenol	2.40789	2.34882	0.010	-2.5	20.0
23 bis(2-Chloroethyl) ether	1.82068	1.78230	0.010	-2.1	50.0
24 2-Chlorophenol	1.30297	1.26334	0.010	-3.0	50.0
26 1,3-Dichlorobenzene	1.33626	1.28724	0.010	-3.7	50.0
27 1,4-Dichlorobenzene	1.37080	1.33390	0.010	-2.7	20.0
28 1,2-Dichlorobenzene	1.26918	1.22272	0.010	-3.7	50.0
29 Benzyl Alcohol	1.05620	1.03775	0.010	-1.7	50.0
30 2-Methylphenol	1.55533	1.54212	0.010	-0.8	50.0
31 bis(2-Chloroisopropyl) ether	1.52642	1.49200	0.010	-2.3	50.0
37 Acetophenone	2.43959	2.29273	0.010	-6.0	50.0
32 N-Nitroso-di-n-propylamine	1.74160	1.75209	0.050	0.6	50.0
192 4-Methylphenol	1.61072	1.56536	0.010	-2.8	50.0
34 Hexachloroethane	0.66571	0.65596	0.010	-1.5	50.0
35 Nitrobenzene	0.67127	0.67482	0.010	0.5	50.0
41 Isophorone	1.23447	1.21157	0.010	-1.9	50.0
42 2-Nitrophenol	0.17718	0.17120	0.010	-3.4	20.0
43 2,4-Dimethylphenol	0.49738	0.48772	0.010	-1.9	50.0
44 bis(2-Chloroethoxy) methane	0.60093	0.56970	0.010	-5.2	50.0
46 2,4-Toluenediamine	16.00000	4.66323	0.010	70.9	50.0
47 1,3,5-Trichlorobenzene	0.33073	0.31658	0.010	-4.3	50.0
48 2,4-Dichlorophenol	0.57875	0.55899	0.010	-3.4	20.0
49 Benzoic Acid	0.13865	0.10487	0.010	-24.4	50.0
50 1,2,4-Trichlorobenzene	0.30564	0.29436	0.010	-3.7	50.0
51 Naphthalene	1.07846	1.03178	0.010	-4.3	50.0
52 4-Chloroaniline	0.35259	0.31523	0.010	-10.6	50.0
56 Hexachlorobutadiene	0.20351	0.19438	0.010	-4.5	20.0
210 Caprolactam	0.09217	0.10884	0.010	18.1	50.0
57 1,2,3-Trichlorobenzene	0.29778	0.28479	0.010	-4.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 23-MAR-2001 09:04
 Lab File ID: 9SM0323.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10323a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.41037	0.41266	0.010	0.6	20.0
62 2-Methylnaphthalene	0.65403	0.63188	0.010	-3.4	50.0
63 1-Methylnaphthalene	0.64511	0.62619	0.010	-2.9	50.0
64 Hexachlorocyclopentadiene	0.35035	0.33354	0.050	-4.8	50.0
66 2,4,6-Trichlorophenol	0.33749	0.35057	0.010	3.9	20.0
67 2,4,5-Trichlorophenol	0.32929	0.35550	0.010	8.0	50.0
211 1,1'-Biphenyl	1.49441	1.43969	0.010	-3.7	50.0
68 1,2,3,5-Tetrachlorobenzene	0.63649	0.59965	0.010	-5.8	50.0
70 2-Chloronaphthalene	1.02723	0.98511	0.010	-4.1	50.0
73 2-Nitroaniline	0.48034	0.50389	0.010	4.9	50.0
74 1,2,3,4-Tetrachlorobenzene	0.57264	0.55132	0.010	-3.7	50.0
76 Dimethylphthalate	1.22988	1.19413	0.010	-2.9	50.0
78 2,6-Dinitrotoluene	0.24812	0.25221	0.010	1.6	50.0
79 Acenaphthylene	1.85027	1.79312	0.010	-3.1	50.0
80 1,2-Dinitrobenzene	0.12503	0.12471	0.010	-0.3	50.0
81 3-Nitroaniline	0.19767	0.17367	0.010	-12.1	50.0
82 Acenaphthene	1.17083	1.12657	0.010	-3.8	20.0
83 2,4-Dinitrophenol	16.00000	15.53909	0.050	2.9	50.0
85 4-Nitrophenol	0.16860	0.15276	0.050	-9.4	50.0
86 Dibenzofuran	1.49237	1.46360	0.010	-1.9	50.0
87 2,4-Dinitrotoluene	0.31161	0.31955	0.010	2.5	50.0
91 2,3,5,6-Tetrachlorophenol	0.28812	0.28495	0.010	-1.1	50.0
93 Diethylphthalate	1.38315	1.37000	0.010	-1.0	50.0
94 Fluorene	1.26220	1.24481	0.010	-1.4	50.0
95 4-Chlorophenyl-phenylether	0.68117	0.66730	0.010	-2.1	50.0
96 4-Nitroaniline	16.00000	15.75978	0.010	1.5	50.0
98 4,6-Dinitro-2-methylphenol	0.10520	0.09206	0.010	-12.5	50.0
99 N-Nitrosodiphenylamine	0.56205	0.53947	0.010	-4.0	20.0
100 1,2-Diphenylhydrazine	1.42293	1.43264	0.010	0.7	50.0
106 4-Bromophenyl-phenylether	0.21522	0.20514	0.010	-4.7	50.0
107 Hexachlorobenzene	0.23096	0.21802	0.010	-5.6	50.0
112 Atrazine	0.21818	0.21286	0.010	-2.4	50.0
111 Pentachlorophenol	16.00000	15.18653	0.010	5.1	20.0
115 Phenanthrene	1.04249	1.00748	0.010	-3.4	50.0
116 Anthracene	0.99248	0.94840	0.010	-4.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 23-MAR-2001 09:04
 Lab File ID: 9SM0323.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10323a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	±D	MAX ±D
119 Carbazole	0.72967	0.65827	0.010	-9.8	50.0
120 Di-n-Butylphthalate	1.40761	1.37943	0.010	-2.0	50.0
123 Fluoranthene	1.01812	0.98347	0.010	-3.4	20.0
124 Benzidine	15.00000	5.62859	0.010	64.8	50.0
125 Pyrene	1.91199	1.84489	0.010	-3.5	50.0
131 Butylbenzylphthalate	0.77778	0.78173	0.010	0.5	50.0
133 3,3'-Dimethoxybenzidine	16.00000	8.14854	0.010	49.1	50.0
135 3,3'-Dichlorobenzidine	0.30864	0.28510	0.010	-7.6	50.0
136 Benzo(a)Anthracene	1.17426	1.15589	0.010	-1.6	50.0
137 Chrysene	1.03651	1.02975	0.010	-0.7	50.0
138 4,4'-Methylene bis(o-chloro	0.19246	0.17406	0.010	-9.6	50.0
139 bis(2-ethylhexyl)Phthalate	1.16754	1.21832	0.010	4.3	50.0
140 Di-n-octylphthalate	2.17350	2.08135	0.010	-4.2	20.0
141 Benzo(b)fluoranthene	1.24281	1.19939	0.010	-3.5	50.0
142 Benzo(k)fluoranthene	1.28431	1.25449	0.010	-2.3	50.0
146 Benzo(a)pyrene	1.02076	0.99808	0.010	-2.2	20.0
149 Indeno(1,2,3-cd)pyrene	1.00922	1.01212	0.010	0.3	50.0
150 Dibenz(a,h)anthracene	0.82190	0.82828	0.010	0.8	50.0
151 Benzo(g,h,i)perylene	0.85856	0.85272	0.010	-0.7	50.0
\$ 154 Nitrobenzene-d5	0.67645	0.68088	0.010	0.7	50.0
\$ 155 2-Fluorobiphenyl	1.36156	1.29970	0.010	-4.5	50.0
\$ 156 Terphenyl-d14	1.10460	1.07274	0.010	-2.9	50.0
\$ 157 Phenol-d5	2.09523	2.04904	0.010	-2.2	50.0
\$ 158 2-Fluorophenol	1.45529	1.40634	0.010	-3.4	50.0
\$ 159 2,4,6-Tribromophenol	0.12240	0.12289	0.010	0.4	50.0
\$ 166 2-Chlorophenol-d4	1.15814	1.11756	0.010	-3.5	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.88122	0.85893	0.010	-2.5	50.0
M 195 Cresols, total	3.16606	3.10747	0.010	-1.9	50.0
101 Diphenylamine	0.56205	0.53947	0.010	-4.0	50.0

44 4746

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 23-MAR-2001 09:34
 Lab File ID: 9AM0323.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10323a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.06055	1.10673	0.010	4.4	50.0
8 Ethyl methanesulfonate	1.77013	1.76250	0.010	-0.4	50.0
14 2-Picoline	2.27952	2.16909	0.010	-4.8	50.0
15 N-Nitrosomethylethylamine	1.03999	1.06300	0.010	2.2	50.0
16 Methyl methanesulfonate	1.34811	1.36519	0.010	1.3	50.0
18 1,3-Dichloro-2-propanol	2.55469	2.58065	0.010	1.0	50.0
19 N-Nitrosodiethylamine	0.94791	0.97563	0.010	2.9	50.0
25 Pentachloroethane	0.56963	0.56167	0.010	-1.4	50.0
36 N-Nitrosopyrrolidine	0.94975	0.97829	0.010	3.0	50.0
37 Acetophenone	2.43959	2.63390	0.010	8.0	50.0
39 o-Toluidine	2.79113	2.81806	0.010	1.0	50.0
40 N-Nitrosopiperidine	0.21694	0.21485	0.010	-1.0	50.0
45 O,O,O-Triethyl phosphorothi	0.20335	0.19586	0.010	-3.7	50.0
53 a,a-Dimethyl-phenethylamine	16.00000	10.53334	0.010	34.2	50.0
54 2,6-Dichlorophenol	0.27725	0.27947	0.010	0.8	50.0
55 Hexachloropropene	0.18668	0.18297	0.010	-2.0	50.0
58 N-Nitrosodi-n-butylamine	0.43294	0.44234	0.010	2.2	50.0
60 p-Phenylene diamine	16.00000	10.66586	0.010	33.3	50.0
61 Safrole	0.28714	0.28215	0.010	-1.7	50.0
65 1,2,4,5-Tetrachlorobenzene	0.67309	0.63911	0.010	-5.0	50.0
71 Isosafrole 1	0.15423	0.14599	0.010	-5.3	50.0
M 188 Isosafrole, Total	1.17669	1.15024	0.010	-2.2	50.0
72 Isosafrole 2	1.02247	1.00425	0.010	-1.8	50.0
75 1,4-Naphthoquinone	0.36540	0.39792	0.010	8.9	50.0
84 Pentachlorobenzene	0.52554	0.50580	0.010	-3.8	50.0
89 1-Naphthylamine	0.88239	0.78419	0.010	-11.1	50.0
92 2-Naphthylamine	0.72680	0.60600	0.010	-16.6	50.0
90 Zinophos	0.46706	0.47984	0.010	2.7	50.0
102 Tetraethyl dithiopyrophosph	0.14589	0.13573	0.010	-7.0	50.0
103 Diallyl 1	1.27365	1.22382	0.010	-3.9	50.0
M 189 Diallyl, Total	4.27609	4.74996	0.010	11.1	50.0
109 Diallyl 2	0.20747	0.19747	0.010	-4.8	50.0
104 Phorate	0.20771	0.19492	0.010	-6.2	50.0
105 1,3,5-Trinitrobenzene	0.07704	0.08294	0.010	7.7	50.0
108 Phenacetin	0.41172	0.43813	0.010	6.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 23-MAR-2001 09:34
 Lab File ID: 9AM0323.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10323a.b\8270d.m

COMPOUND	RRF		MIN		MAX	
	RRF	RP16	RRF	%D	%D	%D
110 Dimethoate	0.44009	0.44261	0.010	0.6	50.0	
112 Pentachloronitrobenzene	0.12271	0.12232	0.010	-0.3	50.0	
113 4-Aminobiphenyl	0.47816	0.39428	0.010	-17.5	50.0	
114 Pronamide	0.40479	0.39828	0.010	-1.6	50.0	
117 Dinoseb	16.00000	17.59758	0.010	-10.0	50.0	
118 Disulfoton	0.77626	0.75901	0.010	-2.2	50.0	
121 4-Nitroquinoline 1-oxide	16.00000	17.19709	0.010	-8.7	50.0	
122 Methapyrilene	0.23947	0.16652	0.010	-30.5	50.0	
126 Aramite 1	0.13809	0.12701	0.010	-8.0	50.0	
M 191 Aramite, Total	0.43918	0.53570	0.010	22.0	50.0	
127 Aramite 2	0.19522	0.17411	0.010	-10.8	50.0	
128 p-Dimethylamino azobenzene	0.38233	0.37130	0.010	-2.9	50.0	
129 p-Chlorobenzilate	0.89218	0.83424	0.010	-6.5	50.0	
130 Pamphur	0.51465	0.48566	0.010	-5.6	50.0	
132 3,3'-Dimethylbenzidine	16.00000	14.38067	0.010	10.1	50.0	
134 2-Acetylaminofluorene	16.00000	16.33500	0.010	-2.1	50.0	
143 7,12-dimethylbenz[a]anthrac	0.72349	0.63156	0.010	-12.7	50.0	
144 Hexachlorophene	++++	++++	0.010	++++	50.0	<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0	<-
148 3-Methylcholanthrene	0.60765	0.59869	0.010	-1.5	50.0	
193 3-Methylphenol	1.69151	1.74480	0.010	3.2	50.0	
69 1,4-Dinitrobenzene	0.16464	0.18670	0.010	13.4	50.0	
77 m-Dinitrobenzene	0.18613	0.20548	0.010	10.4	50.0	
198 1,4-Dioxane	0.82915	0.85344	0.010	2.9	50.0	
88 2,3,4,6-Tetrachlorophenol	0.26362	0.27929	0.010	5.9	50.0	
97 5-Nitro-o-toluidine	0.26024	0.29391	0.010	12.9	50.0	
199 3-Picoline	1.97979	2.00807	0.010	1.4	50.0	
200 N,N-Dimethylacetamide	1.15965	1.18540	0.010	2.2	50.0	

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10323a.b\9AM0323.D
 Report Date: 03/23/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9AM0323.D
 Analysis Type: NONE

Injection Date: 23-MAR-2001 09:34
 Lab Sample ID: astd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10323a.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 Hexachlorophene product	16.0000	0.0000	100.0	50.0
11 1,4-Dichlorobenzene-d4	8.0000	8.0000	0.0	50.0
32 Naphthalene-d8	8.0000	8.0000	0.0	50.0
52 Acenaphthene-d10	8.0000	8.0000	0.0	50.0
70 3-Methylphenol	16.0000	16.5041	3.2	50.0
73 1,4-Dinitrobenzene	16.0000	18.1439	13.4	50.0
74 m-Dinitrobenzene	16.0000	17.6632	10.4	50.0
76 2,3,4,6-Tetrachlorophenol	16.0000	16.9511	5.9	50.0
78 Phenanthrene-d10	8.0000	8.0000	0.0	50.0
80 N-Nitrosomorpholine	16.0000	16.6967	4.4	50.0
81 Ethyl methanesulfonate	16.0000	15.9311	0.4	50.0
85 2-Picoline	16.0000	15.2249	4.8	50.0
86 N-Nitrosomethylethylamine	16.0000	16.3540	2.2	50.0
87 Methyl methanesulfonate	16.0000	16.2026	1.3	50.0
88 1,3-Dichloro-2-propanol	16.0000	16.1626	1.0	50.0
89 N-Nitrosodiethylamine	16.0000	16.4679	2.9	50.0
90 Pentachloroethane	16.0000	15.7763	1.4	50.0
90 Chrysene-d12	8.0000	8.0000	0.0	50.0
91 N-Nitrosopyrrolidine	16.0000	16.4808	3.0	50.0
92 Acetophenone	16.0000	17.2744	8.0	50.0
93 o-Toluidine	16.0000	16.1544	1.0	50.0
94 N-Nitrosopiperidine	16.0000	15.8455	1.0	50.0
95 O,O,O-Triethyl phosphorothioa	16.0000	15.4108	3.7	50.0
98 a,a-Dimethyl-phenethylamine	16.0000	10.5333	24.3	50.0
99 2,6-Dichlorophenol	16.0000	16.1281	0.8	50.0
100 Hexachloropropene	16.0000	15.6821	2.0	50.0
101 Perylene-d12	8.0000	8.0000	0.0	50.0
102 N-Nitrosodi-n-butylamine	16.0000	16.3472	2.2	50.0
103 p-Phenylene diamine	16.0000	10.6659	33.3	50.0
104 Safrole	16.0000	15.7220	1.7	50.0
105 1,2,4,5-Tetrachlorobenzene	16.0000	15.1922	5.0	50.0
107 Isosafrole 1	16.0000	15.1456	5.3	50.0
108 Isosafrole; Total	16.0000	15.6403	2.2	50.0
109 Isosafrole 2	16.0000	15.7149	1.8	50.0
111 1,4-Naphthoquinone	16.0000	17.4241	8.9	50.0
112 Pentachlorobenzene	16.0000	15.3990	3.8	50.0
113 1-Naphthylamine	16.0000	14.2193	11.1	50.0
114 2-Naphthylamine	16.0000	13.3407	16.6	50.0
115 Zinophos	16.0000	16.4376	2.7	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10323a.b\9AM0323.D
 Report Date: 03/23/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9AM0323.D
 Analysis Type: NONE

Injection Date: 23-MAR-2001 09:34
 Lab Sample ID: astd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
116 5-Nitro-o-toluidine	16.0000	18.0701	12.9	50.0
118 Tetraethyl dithiopyrophosphat	16.0000	14.8853	7.0	50.0
119 Diallate 1	16.0000	15.3740	3.9	50.0
120 Diallate, Total	16.0000	17.7731	11.1	50.0
121 Diallate 2	16.0000	15.2283	4.8	50.0
122 Phorate	16.0000	15.0151	6.2	50.0
123 1,3,5-Trinitrobenzene	16.0000	17.2265	7.7	50.0
124 Phenacetin	16.0000	17.0264	6.4	50.0
125 Dimethoate	16.0000	16.0917	0.6	50.0
126 Pentachloronitrobenzene	16.0000	15.9494	0.3	50.0
127 4-Aminobiphenyl	16.0000	13.1932	17.5	50.0
128 Pronamide	16.0000	15.7424	1.6	50.0
129 Dinoseb	16.0000	17.5976	10.0	50.0
130 Disulfoton	16.0000	15.6445	2.2	50.0
131 4-Nitroquinoline 1-oxide	16.0000	17.3971	8.7	50.0
132 Methapyrilene	16.0000	11.1256	30.5	50.0
133 Aramite 1	16.0000	14.7160	8.0	50.0
134 Aramite, Total	16.0000	19.5164	22.0	50.0
135 Aramite 2	16.0000	14.2697	10.8	50.0
136 p-Dimethylamino azobenzene	16.0000	15.5382	2.9	50.0
137 p-Chlorobenzilate	16.0000	14.9609	6.5	50.0
138 Famphur	16.0000	15.0987	5.6	50.0
139 3,3'-Dimethylbenzidine	16.0000	14.3807	10.1	50.0
141 2-Acetylaminofluorene	16.0000	16.3350	2.1	50.0
143 7,12-dimethylbenz[a]anthracen	16.0000	13.9671	12.7	50.0
144 Hexachlorophene	16.0000	0.0000	100.0	50.0
145 3-Methylcholanthrene	16.0000	15.7641	1.5	50.0
198 1,4-Dioxane	16.0000	16.4686	2.9	50.0
199 3-Picoline	16.0000	16.2286	1.4	50.0
200 N,N-Dimethylacetamide	16.0000	16.3552	2.2	50.0

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP039
 Lab File ID: 9DF0326G DFTPP Injection Date: 03/26/01
 Instrument ID: A4HP9 DFTPP Injection Time: 1012

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	78.2
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	54.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
205	10.0 - 30.0% of mass 198	23.1
305	Greater than 1.0% of mass 198	3.3
441	Present, but less than mass 443	8.2
442	Greater than 40.0% of mass 198	49.1
443	17.0 - 23.0% of mass 442	9.6 (19.6)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0326	03/26/01	1012
02	ASTD008	ASTD008	9AM0326	03/26/01	1041
03	MPT-FP-DPW01	DXDMN1AK	DXDMN1AK	03/26/01	1829
04	MPT-FP-DPW01	DXDMR1AK	DXDMR1AK	03/26/01	1858
05	MPT-FP-DUP-0	DXDM01AK	DXDM01AK	03/26/01	1927
06	MPT-47-DPW20	DXDMJ1AA	DXDMJ1AA	03/26/01	1956
07	MPT-FP-DPW01	DXDMW1AK	DXDMW1AK	03/26/01	2025
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STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 26-MAR-2001 10:12
 Lab File ID: 9SM0326.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\8270d.m

COMPOUND	RRP	RP16	MIN RRP	%D	MAX %D
9 Pyridine	1.95342	2.07412	0.010	6.2	50.0
10 N-Nitrosodimethylamine	1.38280	1.44011	0.010	4.1	50.0
11 Ethyl methacrylate	1.97740	2.05215	0.010	3.8	50.0
12 3-Chloropropionitrile	0.85128	0.83031	0.010	-2.5	50.0
13 Malononitrile	2.21694	2.13709	0.010	-3.6	50.0
209 Benzaldehyde	1.81631	1.85105	0.010	1.9	50.0
21 Aniline	2.73663	2.61259	0.010	-4.5	50.0
22 Phenol	2.40789	2.36561	0.010	-1.8	20.0
23 bis(2-Chloroethyl)ether	1.82068	1.79862	0.010	-1.2	50.0
24 2-Chlorophenol	1.30297	1.26492	0.010	-2.9	50.0
26 1,3-Dichlorobenzene	1.33626	1.29888	0.010	-2.8	50.0
27 1,4-Dichlorobenzene	1.37080	1.33231	0.010	-2.8	20.0
28 1,2-Dichlorobenzene	1.26918	1.23089	0.010	-3.0	50.0
29 Benzyl Alcohol	1.05620	1.03043	0.010	-2.4	50.0
30 2-Methylphenol	1.55533	1.53374	0.010	-1.4	50.0
31 bis(2-Chloroisopropyl)ether	1.52642	1.52140	0.010	-0.3	50.0
37 Acetophenone	2.43959	2.34483	0.010	-3.9	50.0
32 N-Nitroso-di-n-propylamine	1.74160	1.80238	0.050	3.5	50.0
192 4-Methylphenol	1.61072	1.59379	0.010	-1.1	50.0
34 Hexachloroethane	0.66571	0.67139	0.010	0.9	50.0
35 Nitrobenzene	0.67127	0.67789	0.010	1.0	50.0
41 Isophorone	1.23447	1.23491	0.010	0.0	50.0
42 2-Nitrophenol	0.17718	0.17122	0.010	-3.4	20.0
43 2,4-Dimethylphenol	0.49738	0.49262	0.010	-1.0	50.0
44 bis(2-Chloroethoxy)methane	0.60093	0.58386	0.010	-2.8	50.0
46 2,4-Toluediamene	16.00000	9.41951	0.010	41.1	50.0
47 1,3,5-Trichlorobenzene	0.33073	0.31481	0.010	-4.8	50.0
48 2,4-Dichlorophenol	0.57875	0.57041	0.010	-1.4	20.0
49 Benzoic Acid	0.13865	0.10236	0.010	-26.2	50.0
50 1,2,4-Trichlorobenzene	0.30564	0.29271	0.010	-4.2	50.0
51 Naphthalene	1.07846	1.04156	0.010	-3.4	50.0
52 4-Chloroaniline	0.35259	0.33857	0.010	-4.0	50.0
56 Hexachlorobutadiene	0.20351	0.19529	0.010	-4.0	20.0
210 Caprolactam	0.09217	0.11421	0.010	23.9	50.0
57 1,2,3-Trichlorobenzene	0.29778	0.28530	0.010	-4.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 26-MAR-2001 10:12
 Lab File ID: 9SM0326.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\8270d.m

COMPOUND	RRF	RF16	MIN	%D	MAX
59 4-Chloro-3-Methylphenol	0.41037	0.42124	0.010	2.7	20.0
62 2-Methylnaphthalene	0.65403	0.63329	0.010	-3.2	50.0
63 1-Methylnaphthalene	0.64511	0.63032	0.010	-2.3	50.0
64 Hexachlorocyclopentadiene	0.35035	0.32760	0.050	-6.5	50.0
66 2,4,6-Trichlorophenol	0.33749	0.34691	0.010	2.8	20.0
67 2,4,5-Trichlorophenol	0.32929	0.34290	0.010	4.1	50.0
211 1,1'-Biphenyl	1.49441	1.42946	0.010	-4.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.63649	0.59118	0.010	-7.1	50.0
70 2-Chloronaphthalene	1.02723	0.98453	0.010	-4.2	50.0
73 2-Nitroaniline	0.48034	0.50354	0.010	4.8	50.0
74 1,2,3,4-Tetrachlorobenzene	0.57264	0.53530	0.010	-6.5	50.0
76 Dimethylphthalate	1.22988	1.17652	0.010	-4.3	50.0
78 2,6-Dinitrotoluene	0.24812	0.24708	0.010	-0.4	50.0
79 Acenaphthylene	1.85027	1.77542	0.010	-4.0	50.0
80 1,2-Dinitrobenzene	0.12503	0.12573	0.010	0.6	50.0
81 3-Nitroaniline	0.19767	0.17738	0.010	-10.3	50.0
82 Acenaphthene	1.17083	1.12224	0.010	-4.2	20.0
83 2,4-Dinitrophenol	16.00000	17.07271	0.050	-6.7	50.0
85 4-Nitrophenol	0.16860	0.16488	0.050	-2.2	50.0
86 Dibenzofuran	1.49237	1.43960	0.010	-3.5	50.0
87 2,4-Dinitrotoluene	0.31161	0.32155	0.010	3.2	50.0
91 2,3,5,6-Tetrachlorophenol	0.28812	0.27747	0.010	-3.7	50.0
93 Diethylphthalate	1.38315	1.35228	0.010	-2.2	50.0
94 Fluorene	1.26220	1.24712	0.010	-1.2	50.0
95 4-Chlorophenyl-phenylether	0.68147	0.65958	0.010	-3.2	50.0
96 4-Nitroaniline	16.00000	14.51746	0.010	9.3	50.0
98 4,6-Dinitro-2-methylphenol	0.10520	0.09460	0.010	-10.1	50.0
99 N-Nitrosodiphenylamine	0.56205	0.53377	0.010	-5.0	20.0
100 1,2-Diphenylhydrazine	1.42293	1.41734	0.010	-0.4	50.0
106 4-Bromophenyl-phenylether	0.21522	0.20336	0.010	-5.5	50.0
107 Hexachlorobenzene	0.23096	0.21264	0.010	-7.9	50.0
212 Atrazine	0.21818	0.21336	0.010	-2.2	50.0
111 Pentachlorophenol	16.00000	15.98093	0.010	0.1	20.0
115 Phenanthrene	1.04249	1.00227	0.010	-3.9	50.0
116 Anthracene	0.99248	0.95254	0.010	-4.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 26-MAR-2001 10:12
 Lab File ID: 9SM0326.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.72967	0.67226	0.010	-7.9	50.0
120 Di-n-Butylphthalate	1.40761	1.37964	0.010	-2.0	50.0
123 Fluoranthene	1.01812	1.00723	0.010	-1.1	20.0
124 Benzidine	16.00000	11.08210	0.010	30.7	50.0
125 Pyrene	1.91199	1.72967	0.010	-9.5	50.0
131 Butylbenzylphthalate	0.77778	0.77766	0.010	-0.0	50.0
133 3,3'-Dimethoxybenzidine	16.00000	12.93106	0.010	19.2	50.0
135 3,3'-Dichlorobenzidine	0.30864	0.28215	0.010	-8.6	50.0
136 Benzo(a)Anthracene	1.17426	1.13698	0.010	-3.2	50.0
137 Chrysene	1.03651	0.99912	0.010	-3.6	50.0
138 4,4'-Methylene bis(o-chloro	0.19246	0.17659	0.010	-8.2	50.0
139 bis(2-ethylhexyl)Phthalate	1.16754	1.17594	0.010	0.7	50.0
140 Di-n-octylphthalate	2.17350	2.30970	0.010	6.3	20.0
141 Benzo(b)fluoranthene	1.24281	1.18250	0.010	-4.9	50.0
142 Benzo(k)fluoranthene	1.28431	1.25802	0.010	-2.0	50.0
146 Benzo(a)pyrene	1.02076	0.97297	0.010	-4.7	20.0
149 Indeno(1,2,3-cd)pyrene	1.00922	0.90884	0.010	-9.9	50.0
150 Dibenz(a,h)anthracene	0.82190	0.73154	0.010	-11.0	50.0
151 Benzo(g,h,i)perylene	0.85856	0.75462	0.010	-12.1	50.0
\$ 154 Nitrobenzene-d5	0.67645	0.68956	0.010	1.9	50.0
\$ 155 2-Fluorobiphenyl	1.36156	1.27083	0.010	-6.7	50.0
\$ 156 Terphenyl-d14	1.10460	1.01725	0.010	-7.9	50.0
\$ 157 Phenol-d5	2.09523	2.08116	0.010	-0.7	50.0
\$ 158 2-Fluorophenol	1.45529	1.40182	0.010	-3.7	50.0
\$ 159 2,4,6-Tribromophenol	0.12240	0.11922	0.010	-2.6	50.0
\$ 186 2-Chlorophenol-d4	1.15814	1.14196	0.010	-1.4	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.88122	0.86261	0.010	-2.1	50.0
M 195 Cresols, total	3.16606	3.12753	0.010	-1.2	50.0
101 Diphenylamine	0.56205	0.53377	0.010	-5.0	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10326a.b\9SM0326.D
Report Date: 03/26/2001

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
Lab File ID: 9SM0326.D
Analysis Type: NONE

Injection Date: 26-MAR-2001 10:12
Lab Sample ID: sstd008
Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Phenol	16.0000	15.7191	1.8	20.0
2 bis(2-Chloroethyl) ether	16.0000	15.8062	1.2	50.0
3 2-Chlorophenol	16.0000	15.5327	2.9	50.0
4 1,3-Dichlorobenzene	16.0000	15.5524	2.8	50.0
5 1,4-Dichlorobenzene	16.0000	15.5508	2.8	20.0
6 1,2-Dichlorobenzene	16.0000	15.5173	3.0	50.0
7 2-Methylphenol	16.0000	15.7779	1.4	50.0
8 bis(2-Chloroisopropyl) ether	16.0000	15.9473	0.3	50.0
9 4-Methylphenol	16.0000	15.8318	1.1	50.0
11 1,4-Dichlorobenzene-d4	8.0000	8.0000	0.0	50.0
12 Hexachloroethane	16.0000	16.1366	0.9	50.0
13 Nitrobenzene	16.0000	16.1578	1.0	50.0
14 Isophorone	16.0000	16.0057	0.0	50.0
15 2-Nitrophenol	16.0000	15.4618	3.4	20.0
16 2,4-Dimethylphenol	16.0000	15.8470	1.0	50.0
17 bis(2-Chloroethoxy)methane	16.0000	15.5457	2.8	50.0
18 2,4-Dichlorophenol	16.0000	15.7693	1.4	20.0
18 N-Nitroso-di-n-propylamine	16.0000	16.5584	3.5	50.0
19 1,2,4-Trichlorobenzene	16.0000	15.3232	4.2	50.0
20 Naphthalene	16.0000	15.4527	3.4	50.0
21 4-Chloroaniline	16.0000	15.3638	4.0	50.0
22 Hexachlorobutadiene	16.0000	15.3531	4.0	20.0
23 4-Chloro-3-Methylphenol	16.0000	16.4241	2.7	20.0
24 2-Methylnaphthalene	16.0000	15.4927	3.2	50.0
25 Hexachlorocyclopentadiene	16.0000	14.9608	6.5	50.0
26 2,4,6-Trichlorophenol	16.0000	16.4466	2.8	20.0
27 2,4,5-Trichlorophenol	16.0000	16.6615	4.1	50.0
28 2-Chloronaphthalene	16.0000	15.3349	4.2	50.0
29 2-Nitroaniline	16.0000	16.7725	4.8	50.0
30 Dimethylphthalate	16.0000	15.3059	4.3	50.0
31 Acenaphthylene	16.0000	15.3528	4.0	50.0
32 2,6-Dinitrotoluene	16.0000	15.9327	0.4	50.0
32 Naphthalene-d8	8.0000	8.0000	0.0	50.0
33 3-Nitroaniline	16.0000	14.3582	10.3	50.0
34 Acenaphthene	16.0000	15.3360	4.2	20.0
35 2,4-Dinitrophenol	16.0000	17.0727	6.7	50.0
36 4-Nitrophenol	16.0000	15.6476	2.2	50.0
37 Dibenzofuran	16.0000	15.4342	3.5	50.0
38 2,4-Dinitrotoluene	16.0000	16.5106	3.2	50.0

Data File: \\qcanoh05\dd\chem\MSS\ā4hp9.i\10326a.b\9SM0326.D
 Report Date: 03/26/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9SM0326.D
 Analysis Type: NONE

Injection Date: 26-MAR-2001 10:12
 Lab Sample ID: sstd008
 Method File: \\QCANOH05\dd\chem\MSS\ā4hp9.i\10

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
39 Diethylphthalate	16.0000	15.6428	2.2	50.0
40 4-Chlorophenyl-phenylether	16.0000	15.4860	3.2	50.0
41 Fluorene	16.0000	15.8088	1.2	50.0
42 4-Nitroaniline	16.0000	14.5175	9.3	50.0
43 4,6-Dinitro-2-methylphenol	16.0000	14.3884	10.1	50.0
44 N-Nitrosodiphenylamine	16.0000	15.1948	5.0	20.0
45 4-Bromophenyl-phenylether	16.0000	15.1189	5.5	50.0
46 Hexachlorobenzene	16.0000	14.7311	7.9	50.0
47 Pentachlorophenol	16.0000	15.9809	0.1	20.0
48 Phenanthrene	16.0000	15.3828	3.9	50.0
49 Anthracene	16.0000	15.3562	4.0	50.0
50 Carbazole	16.0000	14.7410	7.9	50.0
51 Di-n-Butylphthalate	16.0000	15.6821	2.0	50.0
52 Fluoranthene	16.0000	15.8288	1.1	20.0
52 Acenaphthene-d10	8.0000	8.0000	0.0	50.0
53 Pyrene	16.0000	14.4743	9.5	50.0
54 Butylbenzylphthalate	16.0000	15.9974	0.0	50.0
55 3,3'-Dichlorobenzidine	16.0000	14.6269	8.6	50.0
56 Benzo(a)Anthracene	16.0000	15.4920	3.2	50.0
57 Chrysene	16.0000	15.4228	3.6	50.0
58 bis(2-ethylhexyl)Phthalate	16.0000	16.1152	0.7	50.0
59 Di-n-octylphthalate	16.0000	17.0026	6.3	20.0
60 Benzo(b)fluoranthene	16.0000	15.2235	4.9	50.0
61 Benzo(k)fluoranthene	16.0000	15.6724	2.0	50.0
62 Benzo(a)pyrene	16.0000	15.2509	4.7	20.0
63 Indeno(1,2,3-cd)pyrene	16.0000	14.4086	9.9	50.0
64 Dibenz(a,h)anthracene	16.0000	14.2408	11.0	50.0
65 Benzo(g,h,i)perylene	16.0000	14.0631	12.1	50.0
66 Pyridine	16.0000	16.9887	6.2	50.0
67 N-Nitrosodimethylamine	16.0000	16.6631	4.1	50.0
68 Aniline	16.0000	15.2748	4.5	50.0
69 Benzyl Alcohol	16.0000	15.6096	2.4	50.0
71 Benzoic Acid	16.0000	11.8122	26.2	50.0
72 1-Methylnaphthalene	16.0000	15.6332	2.3	50.0
75 1,2-Dinitrobenzene	16.0000	16.0902	0.6	50.0
77 2,3,5,6-Tetrachlorophenol	16.0000	15.4089	3.7	50.0
78 Phenanthrene-d10	8.0000	8.0000	0.0	50.0
78 1,2-Diphenylhydrazine	16.0000	15.9371	0.4	50.0
79 Benzidine	16.0000	11.0821	30.7	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10326a.b\9SM0326.D
Report Date: 03/26/2001

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
Lab File ID: 9SM0326.D
Analysis Type: NONE

Injection Date: 26-MAR-2001 10:12
Lab Sample ID: sstd008
Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
82 Ethyl methacrylate	16.0000	16.6049	3.8	50.0
83 3-Chloropropionitrile	16.0000	15.6060	2.5	50.0
84 Malononitrile	16.0000	15.4237	3.6	50.0
90 Chrysene-d12	8.0000	8.0000	0.0	50.0
92 Acetophenone	16.0000	15.3785	3.9	50.0
96 2,4-Toluediamene	16.0000	9.4195	41.1	50.0
97 1,3,5-Trichlorobenzene	16.0000	15.2301	4.8	50.0
101 1,2,3-Trichlorobenzene	16.0000	15.3291	4.2	50.0
101 Perylene-d12	8.0000	8.0000	0.0	50.0
106 1,2,3,5-Tetrachlorobenzene	16.0000	14.8611	7.1	50.0
110 1,2,3,4-Tetrachlorobenzene	16.0000	14.9566	6.5	50.0
117 Diphenylamine	16.0000	15.1948	5.0	50.0
140 3,3'-Dimethoxybenzidine	16.0000	12.9311	19.2	50.0
142 4,4'-Methylene bis(o-chloroan	16.0000	14.6803	8.2	50.0
195 Cresols, total	16.0000	31.6097	97.6	50.0
209 Benzaldehyde	16.0000	16.3060	1.9	50.0
210 Caprolactam	16.0000	19.8267	23.9	50.0
211 1,1'-Biphenyl	16.0000	15.3046	4.3	50.0
212 Atrazine	16.0000	15.6467	2.2	50.0
181 Nitrobenzene-d5	16.0000	16.3101	1.9	50.0
182 2-Fluorobiphenyl	16.0000	14.9338	6.7	50.0
183 Terphenyl-d14	16.0000	14.7347	7.9	50.0
184 Phenol-d5	16.0000	15.8926	0.7	50.0
185 2-Fluorophenol	16.0000	15.4121	3.7	50.0
186 2,4,6-Tribromophenol	16.0000	15.5835	2.6	50.0
187 2-Chlorophenol-d4	16.0000	15.7765	1.4	50.0
188 1,2-Dichlorobenzene-d4	16.0000	15.6620	2.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 26-MAR-2001 10:41
 Lab File ID: 9AM0326.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	1.06055	1.15277	0.010	8.7	50.0
8 Ethyl methanesulfonate	1.77013	1.79478	0.010	1.4	50.0
14 2-Picoline	2.27952	2.22604	0.010	-2.3	50.0
15 N-Nitrosomethylethylamine	1.03999	1.06372	0.010	2.3	50.0
16 Methyl methanesulfonate	1.34811	1.39616	0.010	3.6	50.0
18 1,3-Dichloro-2-propanol	2.55469	2.63361	0.010	3.1	50.0
19 N-Nitrosodiethylamine	0.94791	0.98839	0.010	4.3	50.0
25 Pentachloroethane	0.56963	0.57697	0.010	1.3	50.0
36 N-Nitrosopyrrolidine	0.94975	1.00150	0.010	5.4	50.0
37 Acetophenone	2.43959	2.69088	0.010	10.3	50.0
39 o-Toluidine	2.79113	2.88557	0.010	3.4	50.0
40 N-Nitrosopiperidine	0.21694	0.21568	0.010	-0.6	50.0
45 O,O,O-Triethyl phosphorothi	0.20335	0.19504	0.010	-4.1	50.0
53 a,a-Dimethyl-phenethylamine	16.00000	11.10862	0.010	30.8	50.0
54 2,6-Dichlorophenol	0.27725	0.28364	0.010	2.3	50.0
55 Hexachloropropene	0.18668	0.19028	0.010	1.9	50.0
58 N-Nitrosodi-n-butylamine	0.43294	0.44882	0.010	1.7	50.0
60 p-Phenylene diamine	16.00000	10.02245	0.010	37.4	50.0
61 Safrole	0.28714	0.28496	0.010	-0.8	50.0
65 1,2,4,5-Tetrachlorobenzene	0.67309	0.64167	0.010	-4.7	50.0
71 Isosafrole 1	0.15423	0.14858	0.010	-3.7	50.0
M 188 Isosafrole, Total	1.17669	1.16799	0.010	-0.7	50.0
72 Isosafrole 2	1.02247	1.01940	0.010	-0.3	50.0
75 1,4-Naphthoquinone	0.36540	0.39960	0.010	9.4	50.0
84 Pentachlorobenzene	0.52554	0.50966	0.010	-3.0	50.0
89 1-Naphthylamine	0.88239	0.79545	0.010	-9.9	50.0
92 2-Naphthylamine	0.72680	0.62388	0.010	-14.2	50.0
90 Zinophos	0.46706	0.49532	0.010	6.1	50.0
102 Tetraethyl dithiopyrophosph	0.14589	0.13839	0.010	-5.1	50.0
103 Diallate 1	1.27365	1.24914	0.010	-1.9	50.0
M 189 Diallate, Total	4.27609	4.87714	0.010	14.1	50.0
109 Diallate 2	0.20747	0.20237	0.010	-2.5	50.0
104 Phorate	0.20771	0.20402	0.010	-1.8	50.0
105 1,3,5-Trinitrobenzene	0.07704	0.08172	0.010	6.1	50.0
108 Phenacetin	0.41172	0.45586	0.010	10.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 26-MAR-2001 10:41
 Lab File ID: 9AM0326.D Init. Cal. Date(s): 21-MAR-2001 21-MAR-2001
 Analysis Type: Init. Cal. Times: 09:24 15:15
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.44009	0.46510	0.010	5.7	50.0
112 Pentachloronitrobenzene	0.12271	0.12389	0.010	1.0	50.0
113 4-Aminobiphenyl	0.47816	0.35522	0.010	-25.7	50.0
114 Pronamide	0.40479	0.40254	0.010	-0.6	50.0
117 Dinoseb	16.00000	18.22661	0.010	-13.9	50.0
118 Disulfoton	0.77626	0.78421	0.010	1.0	50.0
121 4-Nitroquinoline 1-oxide	16.00000	19.08923	0.010	-19.3	50.0
122 Methapyrilene	0.23947	0.24449	0.010	2.1	50.0
126 Aramite 1	0.13809	0.13153	0.010	-4.7	50.0
M 191 Aramite, Total	0.43918	0.55597	0.010	26.6	50.0
127 Aramite 2	0.19522	0.18119	0.010	-7.2	50.0
128 p-Dimethylamino azobenzene	0.38233	0.37661	0.010	-1.5	50.0
129 p-Chlorobenzilate	0.89218	0.84328	0.010	-5.5	50.0
130 Pamphur	0.51465	0.47918	0.010	-6.9	50.0
132 3,3'-Dimethylbenzidine	16.00000	13.34958	0.010	-16.6	50.0
134 2-Acetylaminofluorene	16.00000	17.67557	0.010	-10.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.72349	0.63549	0.010	-12.2	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0|<-
145 Hexachlorophens product	++++	++++	0.010	++++	50.0|<-
148 3-Methylcholanthrene	0.60765	0.60214	0.010	-0.9	50.0
193 3-Methylphenol	1.69151	1.79929	0.010	6.4	50.0
69 1,4-Dinitrobenzene	0.16464	0.17961	0.010	9.1	50.0
77 m-Dinitrobenzene	0.18613	0.20270	0.010	8.9	50.0
198 1,4-Dioxane	0.82915	0.87949	0.010	6.1	50.0
88 2,3,4,6-Tetrachlorophenol	0.26362	0.28250	0.010	7.2	50.0
97 5-Nitro-o-toluidine	0.26024	0.29665	0.010	14.0	50.0
199 1-Picoline	1.97979	2.06905	0.010	4.5	50.0
200 N,N-Dimethylacetamide	1.15965	1.20054	0.010	3.5	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10326a.b\9AM0326.D
 Report Date: 03/26/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9AM0326.D
 Analysis Type: NONE

Injection Date: 26-MAR-2001 10:41
 Lab Sample ID: astd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 Hexachlorophene product	16.0000	0.0000	100.0	50.0
11 1,4-Dichlorobenzene-d4	8.0000	8.0000	0.0	50.0
32 Naphthalene-d8	8.0000	8.0000	0.0	50.0
52 Acenaphthene-d10	8.0000	8.0000	0.0	50.0
70 3-Methylphenol	16.0000	17.0195	6.4	50.0
73 1,4-Dinitrobenzene	16.0000	17.4549	9.1	50.0
74 m-Dinitrobenzene	16.0000	17.4243	8.9	50.0
76 2,3,4,6-Tetrachlorophenol	16.0000	17.1461	7.2	50.0
78 Phenanthrene-d10	8.0000	8.0000	0.0	50.0
80 N-Nitrosomorpholine	16.0000	17.3913	8.7	50.0
81 Ethyl methanesulfonate	16.0000	16.2228	1.4	50.0
85 2-Picoline	16.0000	15.6246	2.3	50.0
86 N-Nitrosomethylethylamine	16.0000	16.3651	2.3	50.0
87 Methyl methanesulfonate	16.0000	16.5703	3.6	50.0
88 1,3-Dichloro-2-propanol	16.0000	16.4943	3.1	50.0
89 N-Nitrosodiethylamine	16.0000	16.6833	4.3	50.0
90 Pentachloroethane	16.0000	16.2060	1.3	50.0
90 Chrysene-d12	8.0000	8.0000	0.0	50.0
91 N-Nitrosopyrrolidine	16.0000	16.8719	5.4	50.0
92 Acetophenone	16.0000	17.6481	10.3	50.0
93 o-Toluidine	16.0000	16.5414	3.4	50.0
94 N-Nitrosopiperidine	16.0000	15.9068	0.6	50.0
95 O,O,O-Triethyl phosphorothioa	16.0000	15.3466	4.1	50.0
98 a,a-Dimethyl-phenethylamine	16.0000	11.1086	30.6	50.0
99 2,6-Dichlorophenol	16.0000	16.3686	2.3	50.0
100 Hexachloropropene	16.0000	16.3082	1.9	50.0
101 Perylene-d12	8.0000	8.0000	0.0	50.0
102 N-Nitrosodi-n-butylamine	16.0000	16.5865	3.7	50.0
103 p-Phenylene diamine	16.0000	10.0225	37.4	50.0
104 Safrole	16.0000	15.8784	0.8	50.0
105 1,2,4,5-Tetrachlorobenzene	16.0000	15.2531	4.7	50.0
107 Isosafrole 1	16.0000	15.4146	1.7	50.0
108 Isosafrole, Total	16.0000	15.8817	0.7	50.0
109 Isosafrole 2	16.0000	15.9521	0.3	50.0
111 1,4-Naphthoquinone	16.0000	17.4974	9.4	50.0
112 Pentachlorobenzene	16.0000	15.5165	3.0	50.0
113 1-Naphthylamine	16.0000	14.4235	9.9	50.0
114 2-Naphthylamine	16.0000	13.7344	14.2	50.0
115 Zinophos	16.0000	16.9680	6.1	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\10326a.b\9AM0326.D
 Report Date: 03/26/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a4hp9.i
 Lab File ID: 9AM0326.D
 Analysis Type: NONE

Injection Date: 26-MAR-2001 10:41
 Lab Sample ID: astd008
 Method File: \\QCANOH05\dd\chem\MSS\a4hp9.i\10

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
116 5-Nitro-o-toluidine	16.0000	18.2388	14.0	50.0
118 Tetraethyl dithiopyrophosphat	16.0000	15.1773	5.1	50.0
119 Diallate 1	16.0000	15.6921	1.9	50.0
120 Diallate, Total	16.0000	18.2490	14.1	50.0
121 Diallate 2	16.0000	15.6061	2.5	50.0
122 Phorate	16.0000	15.7154	1.8	50.0
123 1,3,5-Trinitrobenzene	16.0000	16.9734	6.1	50.0
124 Phenacetin	16.0000	17.7154	10.7	50.0
125 Dimethoate	16.0000	16.9094	5.7	50.0
126 Pentachloronitrobenzene	16.0000	16.1543	1.0	50.0
127 4-Aminobiphenyl	16.0000	11.8864	25.7	50.0
128 Pronamide	16.0000	15.9110	0.6	50.0
129 Dinoseb	16.0000	18.2266	13.9	50.0
130 Disulfoton	16.0000	16.1639	1.0	50.0
131 4-Nitroquinoline 1-oxide	16.0000	19.0892	19.3	50.0
132 Methapyrilene	16.0000	16.3354	2.1	50.0
133 Aramite 1	16.0000	15.2402	4.7	50.0
134 Aramite, Total	16.0000	20.2550	26.6	50.0
135 Aramite 2	16.0000	14.8503	7.2	50.0
136 p-Dimethylamino azobenzene	16.0000	15.7603	1.5	50.0
137 p-Chlorobenzilate	16.0000	15.1231	5.5	50.0
138 Famphur	16.0000	14.8974	6.9	50.0
139 3,3'-Dimethylbenzidine	16.0000	13.3496	16.6	50.0
141 2-Acetylaminofluorene	16.0000	17.6756	10.5	50.0
143 7,12-dimethylbenz[a]anthracen	16.0000	14.0539	12.2	50.0
144 Hexachlorophene	16.0000	0.0000	100.0	50.0
145 3-Methylcholanthrene	16.0000	15.8547	0.9	50.0
198 1,4-Dioxane	16.0000	16.9714	6.1	50.0
199 3-Picoline	16.0000	16.7214	4.5	50.0
200 N,N-Dimethylacetamide	16.0000	16.5641	3.5	50.0

CLIENT NS MAYPORT		JOB NUMBER MP039	
SUBJECT SUOCs			
BASED ON SW-846-8270C		DRAWING NUMBER	
BY SCS	CHECKED BY	APPROVED BY JAA	DATE 5-22-01

p. 259-262 139) Bis(2-ethyl hexyl) phthalate

$$\frac{566635}{410587} \times \frac{40mg (1)(1)}{(1.21832)(2.4)} = 22.68 = \boxed{23 \mu g/L}$$

1.16752

24

STL - North Canton

Semivolatile REPORT SW-846 Method 8270
 Data file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10326a.b\DXDMW1AK.D
 Lab Smp Id: DXDMW1AK Client Smp ID: MPT-FP-DPW01D-01
 Inj Date : 26-MAR-2001 20:25
 Operator : 001710 Inst ID: a4hp9.i
 Smp Info : dxdmwlak,10326a.b,8270d,4-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp9.i\10326a.b\8270d.m
 Meth Date : 27-Mar-2001 14:20 gruberj Quant Type: ISTD
 Cal Date : 21-MAR-2001 15:15 Cal File: 9AHH0321.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV02

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4		152	5.907	5.909	(1.000)	234014	8.00000	(Q)
* 2 Naphthalene-d8		136	7.547	7.549	(1.000)	870941	8.00000	
* 3 Acenaphthene-d10		164	9.925	9.921	(1.000)	495886	8.00000	
* 4 Phenanthrene-d10		188	11.949	11.951	(1.000)	728701	8.00000	
* 5 Chrysene-d12		240	15.582	15.579	(1.000)	410587	8.00000	
* 6 Perylene-d12		264	17.457	17.454	(1.000)	285655	8.00000	
7 N-Nitrosomorpholine		56						Compound Not Detected.
8 Ethyl methanesulfonate		79						Compound Not Detected.
9 Pyridine		79						Compound Not Detected.
10 N-Nitrosodimethylamine		74						Compound Not Detected.
11 Ethyl methacrylate		69						Compound Not Detected.
12 3-Chloropropionitrile		54						Compound Not Detected.
13 Malononitrile		66						Compound Not Detected.
14 2-Picoline		93						Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
15 N-Nitrosomethyl ethylamine	88				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
18 1,3-Dichloro-2-propanol	79				Compound Not Detected.		
19 N-Nitrosodiethylamine	102				Compound Not Detected.		
21 Aniline	93				Compound Not Detected.		
22 Phenol	94				Compound Not Detected.		
23 bis(2-Chloroethyl) ether	93				Compound Not Detected.		
24 2-Chlorophenol	128				Compound Not Detected.		
25 Pentachloroethane	167				Compound Not Detected.		
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 bis(2-Chloroisopropyl) ether	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
193 3-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
36 N-Nitrosopyrrolidine	100				Compound Not Detected.		
37 Acetophenone	105				Compound Not Detected.		
39 o-Toluidine	106				Compound Not Detected.		
40 N-Nitrosopiperidine	114				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
45 O,O,O-Triethyl phosphorothioa	198				Compound Not Detected.		
46 2,4-Toluenediamine	121				Compound Not Detected.		
47 1,3,5-Trichlorobenzene	180				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
53 a,a-Dimethyl-phenethylamine	58				Compound Not Detected.		
54 2,6-Dichlorophenol	162				Compound Not Detected.		
55 Hexachloropropene	213				Compound Not Detected.		
56 Hexachlorobutadiene	225				Compound Not Detected.		
57 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
58 N-Nitrosodi-n-butylamine	84				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
60 p-Phenylene diamine	108				Compound Not Detected.		
61 Safrole	162				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		
63 1-Methylnaphthalene	142				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
64 Hexachlorocyclopentadiene	237				Compound Not Detected.		
65 1,2,4,5-Tetrachlorobenzene	216				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
68 1,2,3,5-Tetrachlorobenzene	216				Compound Not Detected.		
69 1,4-Dinitrobenzene	168				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
71 Isosafrole 1	162				Compound Not Detected.		
M 188 Isosafrole, Total	162				Compound Not Detected.		
72 Isosafrole 2	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
74 1,2,3,4-Tetrachlorobenzene	216				Compound Not Detected.		
75 1,4-Naphthoquinone	158				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
77 m-Dinitrobenzene	168				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
80 1,2-Dinitrobenzene	168				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
84 Pentachlorobenzene	250				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
89 1-Naphthylamine	143				Compound Not Detected.		
90 Zinphos	97				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
101 Diphenylamine	169				Compound Not Detected.		
102 Tetraethyl dithiopyrophosphat	202				Compound Not Detected.		
103 Diallate 1	86				Compound Not Detected.		
M 189 Diallate, Total	100				Compound Not Detected.		
104 Phorate	121				Compound Not Detected.		
105 1,3,5-Trinitrobenzene	213				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	284				Compound Not Detected.		
108 Phenacetin	108				Compound Not Detected.		
109 Diallate 2	86				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
110 Dimethoate	87				Compound Not Detected.		
111 Pentachlorophenol	266				Compound Not Detected.		
112 Pentachloronitrobenzene	237				Compound Not Detected.		
113 4-Aminobiphenyl	169				Compound Not Detected.		
114 Pronamide	173				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
117 Dinoseb	211				Compound Not Detected.		
118 Disulfoton	88				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
121 4-Nitroquinoline 1-oxide	190				Compound Not Detected.		
122 Methapyrilene	58				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
126 Aramite 1	185				Compound Not Detected.		
M 191 Aramite, Total	100				Compound Not Detected.		
127 Aramite 2	185				Compound Not Detected.		
128 p-Dimethylamino azobenzene	225				Compound Not Detected.		
129 p-Chlorobenzilate	139				Compound Not Detected.		
130 Famphur	218				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
132 3,3'-Dimethylbenzidine	212				Compound Not Detected.		
133 3,3'-Dimethoxybenzidine	244				Compound Not Detected.		
134 2-Acetylaminofluorene	181				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
138 4,4'-Methylene bis(o-chloroan	231				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149	15.593	15.589	(1.001)	566635	9.45622	23.640
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz(a)anthracen	256				Compound Not Detected.		
144 Hexachlorophene	198				Compound Not Detected.		
145 Hexachlorophene product	462				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
148 3-Methylcholanthrene	268				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	6.628	6.631	(0.878)	1213617	16.4795	41.199
\$ 155 2-Fluorobiphenyl	172	9.000	9.002	(0.907)	1256532	14.8883	37.221
\$ 156 Terphenyl-d14	244	14.140	14.142	(0.907)	1010836	17.8304	44.576
\$ 157 Phenol-d5	99	5.448	5.450	(0.922)	1533301	25.0175	62.544
\$ 158 2-Fluorophenol	112	4.369	4.376	(0.740)	1020290	23.9675	59.919(M) 2

APPENDIX C
Support Documentation

MP039HOLDING TIME
04/13/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	CN	03/13/01	03/25/01	03/25/01	12	0	12
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	HG	03/13/01	03/22/01	03/23/01	9	1	10
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	M	03/13/01	03/22/01	03/24/01	9	2	11
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	OS	03/13/01	03/20/01	03/26/01	7	6	13
UG/L	MPT-47-DPW20S-01	A1C140217001	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DPW01D-01	A1C140217004	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DPW01I-01	A1C140217003	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DPW01S-01	A1C140217002	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7
UG/L	MPT-FP-DUP-01	A1C140217005	NORMAL	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7

<i>Units</i>	<i>Nsample</i>	<i>Lab Id</i>	<i>Qc Type</i>	<i>Sdg</i>	<i>Sort</i>	<i>Samp Date</i>	<i>Extr Date</i>	<i>Anal Date</i>	<i>SAMP_DATE TO EXTR_DATE</i>	<i>EXTR_DATE TO ANAL_DATE</i>	<i>SAMP_DATE TO ANAL_DATE</i>
UG/L	TRIP BLANK	A1C140217006	TRIP BLANK	MP039	OV	03/13/01	03/20/01	03/20/01	7	0	7



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER MPT-G4-031301-A₁

PAGE 1 OF 1

PROJECT NO: NC123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen 860-385-9866				LABORATORY NAME AND CONTACT: STL/Quanterra Denise Pohl							
SAMPLERS (SIGNATURE) <i>[Signature]</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400				ADDRESS 4101 Shuffel Dr NW									
		CARRIER/WAYBILL NUMBER Fed Ex 80442558 4570				CITY, STATE N Canton, OH 44720									
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED									
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS						COMMENTS			
						APP IX * TEL CLP	APP IX * TEL CLP	APP IX * TEL CLP	Cyanide	Mercury	Molybdenum	Tin	APP IX * TAL Metals		
3-13	1450	MPT-47-DPWZOS-01	GW	G	7	X	X	X	X	X	X	X	X	Cool to 4°C	
3-13	1345	MPT-FP-DPWOCIS-01	GW	G	7	X	X	X	X	X	X	X	X		
3-13	1305	MPT-FP-DPW01E-01	GW	G	7	X	X	X	X	X	X	X	X		
3-13	1055	MPT-FP-DPW01D-01	GW	G	7	X	X	X	X	X	X	X	X		
3-13	0800	MPT-FP-DUP01	GW	G	7	X	X	X	X	X	X	X	X		
3-13	1650	TRIP Blank	GW	G	2	X									
1. RELINQUISHED BY <i>[Signature]</i>		DATE 3-13	TIME 1700	1. RECEIVED BY <i>[Signature]</i>		DATE 3-14-01	TIME 9:20	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME			DATE	TIME
3. RELINQUISHED BY		DATE	TIME			DATE	TIME			DATE	TIME			DATE	TIME
COMMENTS In accord w/ lab contract. 1.8°C															

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

Field Duplicates for MP039

VOLATILE FRACTION				
Compound	Sample	Duplicate	RPD	Difference
	MPT-FP-DPW01S-01	MPT-FP-DUP-01	%	
	UG/L	UG/L		
	ND	ND	NA	NA
SEMIVOLATILE FRACTION				
	ND	ND	NA	NA

ND = All reported results were nondetects

SDG NARRATIVE

MP039

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Lot #: AIC210000

WO #: DXNTLIAC

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	21	105	61 - 129	
Bromomethane	20	17	86	47 - 160	
Vinyl chloride	20	19	95	69 - 121	
Chlcroethane	20	19	94	80 - 118	
Methylene chloride	20	17	86	81 - 134	
Acetone	20	14	71	10 - 279	
Carbon disulfide	20	15	76*	81 - 125	a
1,1-Dichloroethene	20	17	87	63 - 130	
1,1-Dichloroethane	20	18	92	87 - 120	
1,2-Dichloroethene (total	40	35	87	50 - 150	
Chloroform	20	18	90	90 - 117	
1,2-Dichloroethane	20	19	95	88 - 119	
2-Butanone (MEK)	20	19	93	20 - 232	
1,1,1-Trichloroethane	20	16	81*	91 - 113	a
Carbon tetrachloride	20	17	84	84 - 119	
Bromodichloromethane	20	18	92	90 - 114	
1,2-Dichloropropane	20	19	94	91 - 113	
cis-1,3-Dichloropropene	20	19	95	85 - 112	
Trichloroethene	20	18	88	75 - 122	
Dibromochloromethane	20	18	92	81 - 112	
1,1,2-Trichloroethane	20	19	94	81 - 117	
Benzene	20	19	93	80 - 116	
trans-1,3-Dichloropropene	20	18	92	84 - 112	
Bromoform	20	18	90	71 - 118	
4-Methyl-2-pentanone (MIB	20	19	97	11 - 210	
2-Hexanone	20	18	88	10 - 225	
Tetrachloroethene	20	18	89	83 - 111	
1,1,2,2-Tetrachloroethane	20	22	112	80 - 127	
Toluene	20	19	95	74 - 119	
Chlorobenzene	20	18	92	76 - 117	
Ethylbenzene	20	19	94	90 - 116	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP039

Lot #: A1C210000

WO #: DXNTL1AC

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	19	96	81 - 113	
Xylenes (total)	60	57	95	90 - 114	
cis-1,2-Dichloroethene	20	18	88	50 - 150	
trans-1,2-Dichloroethene	20	17	87	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 35 outside limits

COMMENTS:

FORM III

STL North Canton

20

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Lot #: A1C210000

WO #: DXNTLIAD

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	22	112	61 - 129	
Bromomethane	20	18	91	47 - 160	
Vinyl chloride	20	20	100	69 - 121	
Chloroethane	20	20	100	80 - 118	
Methylene chloride	20	18	92	81 - 134	
Acetone	20	14	72	10 - 279	
Carbon disulfide	20	16	80*	81 - 125	a
1,1-Dichloroethene	20	18	89	63 - 130	
1,1-Dichloroethane	20	20	99	87 - 120	
1,2-Dichloroethene (total)	40	37	94	50 - 150	
Chloroform	20	20	98	90 - 117	
1,2-Dichloroethane	20	20	101	88 - 119	
2-Butanone (MEK)	20	19	94	20 - 232	
1,1,1-Trichloroethane	20	17	87*	91 - 113	a
Carbon tetrachloride	20	17	87	84 - 119	
Bromodichloromethane	20	20	98	90 - 114	
1,2-Dichloropropane	20	20	101	91 - 113	
cis-1,3-Dichloropropene	20	20	100	85 - 112	
Trichloroethene	20	18	92	75 - 122	
Dibromochloromethane	20	20	98	81 - 112	
1,1,2-Trichloroethane	20	20	100	81 - 117	
Benzene	20	20	99	80 - 116	
trans-1,3-Dichloropropene	20	20	100	84 - 112	
Bromoform	20	19	95	71 - 119	
4-Methyl-2-pentanone (MIB)	20	20	102	11 - 210	
2-Hexanone	20	19	94	10 - 225	
Tetrachloroethene	20	19	93	83 - 111	
1,1,2,2-Tetrachloroethane	20	23	117	80 - 127	
Toluene	20	21	103	74 - 119	
Chlorobenzene	20	20	100	76 - 117	
Ethylbenzene	20	21	103	90 - 116	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Lot #: A1C210000

WO #: DXNTL1AD

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	20	102	81- 113	
Xylenes (total)	60	62	104	90- 114	
cis-1,2-Dichloroethene	20	19	94	50- 150	
trans-1,2-Dichloroethene	20	19	93	70- 130	

NOTES (S) :

a. Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 35 outside limits

COMMENTS:

FORM III

STL North Canton

22

SW846 6260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: MPT-47-DPW20S-01

Lot #: A1C140217

WO #: DXDMJ1A8

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	20	ND	18	89	62 - 130	
Chloromethane	20	ND	22	110	61 - 129	
Bromomethane	20	ND	17	85	47 - 160	
Vinyl chloride	20	ND	20	100	69 - 121	
Chloroethane	20	ND	20	100	80 - 118	
Methylene chloride	20	ND	18	89	81 - 134	
Acetone	20	ND	13	63	10 - 279	
Carbon disulfide	20	ND	15	77*	81 - 125	a
1,1-Dichloroethane	20	ND	19	96	87 - 120	
1,2-Dichloroethene (total)	40	ND	37	91	50 - 150	
Chloroform	20	ND	19	96	90 - 117	
1,2-Dichloroethane	20	ND	20	98	88 - 119	
2-Butanone (MEK)	20	ND	18	89	20 - 232	
1,1,1-Trichloroethane	20	ND	17	85*	91 - 113	a
Carbon tetrachloride	20	ND	17	85	84 - 119	
Bromodichloromethane	20	ND	19	95	90 - 114	
1,2-Dichloropropane	20	ND	20	98	91 - 113	
cis-1,3-Dichloropropene	20	ND	19	94	85 - 112	
Trichloroethene	20	ND	18	90	62 - 130	
Dibromochloromethane	20	ND	18	92	81 - 112	
1,1,2-Trichloroethane	20	ND	19	97	81 - 117	
Benzene	20	ND	19	97	76 - 118	
trans-1,3-Dichloropropene	20	ND	19	93	84 - 112	
Bromoform	20	ND	17	85	71 - 118	
4-Methyl-2-pentanone (MIB)	20	ND	20	102	11 - 210	
2-Hexanone	20	ND	18	88	10 - 225	
Tetrachloroethene	20	ND	18	91	83 - 111	
1,1,2,2-Tetrachloroethane	20	ND	23	113	80 - 127	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: MPT-47-DPW20S-01

Lot #: A1C140217

WO #: DXDMJ1A8

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Toluene	20	ND	20	100	70 - 119	
Chlorobenzene	20	ND	19	96	76 - 117	
Ethylbenzene	20	ND	20	98	90 - 116	
Styrene	20	ND	19	93	81 - 113	
Xylenes (total)	60	ND	60	100	90 - 114	
cis-1,2-Dichloroethene	20	ND	18	92	50 - 150	
trans-1,2-Dichloroethene	20	ND	18	91	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits
 Spike Recovery: 2 out of 35 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: MPT-47-DPW20S-01

Lot #: A1C140217

WO #: DXDMJ1A9

BATCH: 1080114

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,1-Dichloroethene	20	19	94	5.7	17	62 - 130	
Chloromethane	20	23	113	3.3	20	61 - 129	
Bromomethane	20	18	88	3.8	22	47 - 160	
Vinyl chloride	20	21	105	4.6	27	69 - 121	
Chloroethane	20	21	103	2.7	17	80 - 118	
Methylene chloride	20	19	93	4.4	27	81 - 134	
Acetone	20	13	66	3.6	32	10 - 279	
Carbon disulfide	20	16	81	4.4	19	81 - 125	
1,1-Dichloroethane	20	20	100	4.5	22	87 - 120	
1,2-Dichloroethene (total)	40	38	95	4.2	50	50 - 150	
Chloroform	20	20	99	3.7	18	90 - 117	
1,2-Dichloroethane	20	21	103	4.9	12	88 - 119	
2-Butanone (MEK)	20	18	92	3.0	35	20 - 232	
1,1,1-Trichloroethane	20	18	88*	4.1	17	91 - 113	a
Carbon tetrachloride	20	18	90	6.4	17	84 - 119	
Bromodichloromethane	20	20	98	2.3	18	90 - 114	
1,2-Dichloropropane	20	20	102	4.1	18	91 - 113	
cis-1,3-Dichloropropene	20	20	99	4.9	19	85 - 112	
Trichloroethene	20	19	94	3.9	14	62 - 130	
Dibromochloromethane	20	20	98	6.2	18	81 - 112	
1,1,2-Trichloroethane	20	21	104	6.4	20	81 - 117	
Benzene	20	20	101	4.5	14	76 - 118	
trans-1,3-Dichloropropene	20	20	100	6.8	32	84 - 112	
Bromoform	20	19	93	8.5	34	71 - 118	
4-Methyl-2-pentanone (MIB)	20	22	108	6.2	34	11 - 210	
2-Hexanone	20	19	96	9.3	24	10 - 225	
Tetrachloroethene	20	20	98	8.2	26	83 - 111	
1,1,2,2-Tetrachloroethane	20	24	119	5.0	24	80 - 127	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP039

Matrix Spike ID: MPT-47-DPW20S-01

Lot #: A1C140217

WO #: DXDMJ1A9

BATCH: 1080114

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Toluene	20	21	105	5.6	16	70 - 119	
Chlorobenzene	20	20	102	5.7	15	76 - 117	
Ethylbenzene	20	21	106	8.1	18	90 - 116	
Styrene	20	20	98	6.0	18	81 - 113	
Xylenes (total)	60	63	106	5.8	25	90 - 114	
cis-1,2-Dichloroethene	20	19	96	4.2	50	50 - 150	
trans-1,2-Dichloroethene	20	19	95	4.0	50	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 35 outside limits

Spike Recovery: 1 out of 35 outside limits

COMMENTS:

FORM III

STL North Canton

26

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP039
 Lab File ID: BFB088 BFB Injection Date: 03/20/01
 Instrument ID: A3UX11 BFB Injection Time: 0721
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 120.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.4 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	71.8 (97.5)1
177	5.0 - 9.0% of mass 176	5.8 (8.1)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UXJ2308	03/20/01	0742
02	VSTD010	50NG-A9CC	UXJ2309	03/20/01	0805
03	DXNTL-CHK	DXNTL1AC	UXJ2310	03/20/01	0828
04	DXNTL-BLK	DXNTL1AA	UXJ2311	03/20/01	0851
05	DXNTL-CKDUP	DXNTL1AD	UXJ2312	03/20/01	0914
06	MPT-47-DPW20	DXDMJ1A6	UXJ2318	03/20/01	1131
07	MPT-FP-DPW01	DXDMN1AH	UXJ2319	03/20/01	1154
08	MPT-FP-DPW01	DXDMR1AH	UXJ2320	03/20/01	1218
09	MPT-FP-DPW01	DXDMW1AH	UXJ2321	03/20/01	1241
10	MPT-FP-DUP-0	DXDM01AH	UXJ2322	03/20/01	1304
11	TRIP BLANK	DXDM21AA	UXJ2323	03/20/01	1327
12	MPT-47-DPW20	DXDMJ1A8	UXJ2327	03/20/01	1459
13	MPT-47-DPW20	DXDMJ1A9	UXJ2328	03/20/01	1522
14					
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Data File: \\qcanch04\dd\chem\MSV\a3ux11.i\J10320A.b\UXJ2308.D
 Report Date: 03/20/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a3ux11.i
 Lab File ID: UXJ2308.D
 Analysis Type: WATER

Injection Date: 20-MAR-2001 07:42
 Lab Sample ID: 50NG-CC
 Method File: \\QCANCH04\dd\chem\MSV\a3ux11.i\J10320A

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 Chlorobenzene	50.0000	53.1753	6.4	50.0
0 Bromodichloromethane	50.0000	53.5332	7.1	50.0
0 1,1,2,2-Tetrachloroethane	50.0000	55.4722	10.9	50.0
0 Bromoform	50.0000	48.1931	3.6	50.0
0 Styrene	50.0000	54.6137	9.2	50.0
0 Xylene-o	50.0000	52.3293	4.7	50.0
0 Xylenes (total)	150.0000	162.4268	8.3	50.0
0 2-Hexanone	100.0000	87.1608	12.8	50.0
0 Chloromethane	50.0000	49.3664	1.3	50.0
0 Vinyl Chloride	50.0000	47.4325	5.1	20.0
0 Bromomethane	50.0000	47.3305	5.3	50.0
0 Chloroethane	50.0000	50.2467	0.5	50.0
0 1,1-Dichloroethane	50.0000	51.5138	3.0	50.0
0 Tetrachloroethene	50.0000	52.1446	4.3	50.0
0 Acetone	100.0000	74.0072	26.0	50.0
0 1,1-Dichloroethene	50.0000	49.1109	1.8	20.0
0 m + p-Xylene	100.0000	110.0975	10.1	50.0
0 Ethylbenzene	50.0000	55.0657	10.1	20.0
0 Carbon Disulfide	50.0000	44.9568	10.1	50.0
0 Methylene Chloride	50.0000	49.8604	0.3	50.0
0 1,2-Dichloropropane	50.0000	54.5962	9.2	20.0
0 1,1,2-Trichloroethane	50.0000	53.1924	6.4	50.0
0 Dibromochloromethane	50.0000	50.8771	1.8	50.0
0 trans-1,2-Dichloroethene	50.0000	49.8649	0.3	50.0
0 trans-1,3-Dichloropropene	50.0000	53.6618	7.3	50.0
0 cis-1,3-Dichloropropene	50.0000	53.3163	6.6	50.0
0 Chloroform	50.0000	52.4711	4.9	20.0
0 Toluene	50.0000	54.8000	9.6	20.0
0 2-Butanone	100.0000	91.0379	9.0	50.0
0 1,2-Dichloroethene (total)	100.0000	100.9825	1.0	50.0
0 cis-1,2-dichloroethene	50.0000	51.1176	2.2	50.0
0 4-Methyl-2-pentanone	100.0000	97.6458	2.4	50.0
0 1,2-Dichloroethane	50.0000	53.6345	7.3	50.0
0 Trichloroethene	50.0000	50.1186	0.2	50.0
0 1,1,1-Trichloroethane	50.0000	47.2685	5.5	50.0
0 Carbon Tetrachloride	50.0000	48.6949	2.6	50.0
0 Benzene	50.0000	53.0589	6.1	50.0
38 Dichlorodifluoromethane	50.0000	45.5210	9.0	50.0
39 Trichlorofluoromethane	50.0000	47.5101	5.0	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: A3UX11.I
 Lab File ID: UKJ2308.D
 Analysis Type: WATER

Injection Date: 20-MAR-2001 07:42
 Lab Sample ID: 50NG-CC
 Method File: \\QCANOH04\dd\chem\MSV\A3UX11.I\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
39 Chlorobenzene-d5	50.0000	50.0000	0.0	50.0
40 Acrolein	500.0000	336.8091	32.6	50.0
41 Acrylonitrile	500.0000	500.7833	0.2	50.0
42 Vinyl acetate	50.0000	44.0528	11.9	50.0
43 2-Chloroethyl vinyl ether	100.0000	111.6326	11.6	50.0
47 Freon-113	50.0000	43.6902	12.6	50.0
48 1,3-Dichlorobenzene	50.0000	53.7940	7.6	50.0
49 1,4-Dichlorobenzene	50.0000	52.7298	5.5	50.0
50 1,2-Dichlorobenzene	50.0000	51.7887	3.6	50.0
51 Acetonitrile	500.0000	491.9425	1.6	50.0
52 Iodomethane	50.0000	41.5420	16.9	50.0
59 1,4-Dioxane	2500.0000	2417.1309	3.3	50.0
60 Dibromomethane	50.0000	50.5135	1.0	50.0
62 Ethyl Methacrylate	50.0000	53.5830	7.2	50.0
63 1,2-Dibromoethane	50.0000	53.0187	6.0	50.0
64 1,1,1,2-Tetrachloroethane	50.0000	47.7207	4.6	50.0
65 1,2,3-Trichloropropane	50.0000	54.5954	9.2	50.0
66 1,4-Dichloro-2-butene	50.0000	58.9926	18.0	50.0
69 1,2-Dibromo-3-chloropropane	50.0000	42.6367	14.7	50.0
82 Methyl tert-butyl ether	50.0000	44.0184	12.0	50.0
84 Tetrahydrofuran	50.0000	49.8762	0.2	50.0
98 2,2-Dichloropropane	50.0000	42.7954	14.4	50.0
99 1,1-Dichloropropane	50.0000	55.7031	11.4	50.0
100 1,3-Dichloropropane	50.0000	55.0074	10.0	50.0
102 Bromobenzene	50.0000	55.7279	11.5	50.0
103 2-Chlorotoluene	50.0000	56.2538	12.5	50.0
104 n-Propylbenzene	50.0000	58.6395	17.3	50.0
105 4-Chlorotoluene	50.0000	57.1013	14.2	50.0
106 1,3,5-Trimethylbenzene	50.0000	56.8750	13.8	50.0
107 tert-Butylbenzene	50.0000	55.1222	10.2	50.0
108 1,2,4-Trimethylbenzene	50.0000	55.7857	11.6	50.0
109 sec-Butylbenzene	50.0000	57.3104	14.6	50.0
110 4-Isopropyltoluene	50.0000	56.1874	12.4	50.0
111 n-Butylbenzene	50.0000	57.1932	14.4	50.0
112 1,2,4-Trichlorobenzene	50.0000	42.1971	15.6	50.0
113 Naphthalene	50.0000	44.6297	10.7	50.0
114 Hexachlorobutadiene	50.0000	46.7479	6.5	50.0
115 1,2,3-Trichlorobenzene	50.0000	45.0574	9.9	50.0
124 tert-Butyl Alcohol	1000.0000	792.9334	20.7	50.0

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10320A.b\UXJ2308.D
Report Date: 03/20/2001

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a3ux11.i
Lab File ID: UXJ2308.D
Analysis Type: WATER

Injection Date: 20-MAR-2001 07:42
Lab Sample ID: 50NG-CC
Method File: \\QCANOH04\dd\chem\MSV\a3ux11.i\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
125 Hexane	50.0000	57.2658	14.5	50.0
127 Cyclohexane	50.0000	53.4484	6.9	50.0
128 Isopropylbenzene	50.0000	51.8165	3.6	50.0
130 Fluorobenzene	50.0000	50.0000	0.0	50.0
132 1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	50.0
133 Bromochloromethane	50.0000	48.8491	2.3	50.0
141 1,3,5-Trichlorobenzene	50.0000	44.4208	11.2	50.0
143 Methyl Acetate	100.0000	115.5327	15.5	50.0
144 Methylcyclohexane	50.0000	56.5790	13.2	50.0
22 Toluene-d8	50.0000	53.2467	6.5	50.0
32 Bromofluorobenzene	50.0000	50.3800	0.8	50.0
47 1,2-Dichloroethane-d4	50.0000	51.1907	2.4	50.0
131 Dibromofluoromethane	50.0000	48.2108	3.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-MAR-2001 07:42
 Lab File ID: UXJ2308.D Init. Cal. Date(s): 09-NOV-2000 25-JAN-2001
 Analysis Type: WATER Init. Cal. Times: 17:49 19:53
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J10320A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	RD	MAX RD
\$ 4 Dibromofluoromethane	0.22207	0.21412	0.010	-3.5	50.0
\$ 5 1,2-Dichloroethane-d4	0.27118	0.27763	0.010	2.4	50.0
\$ 6 Toluene-d8	1.11775	1.19033	0.010	6.5	50.0
\$ 7 Bromofluorobenzene	0.43772	0.44104	0.010	0.8	50.0
8 Dichlorodifluoromethane	0.16905	0.15391	0.010	-9.0	50.0
9 Chloromethane	0.26311	0.25978	0.100	-1.3	50.0
10 Vinyl Chloride	0.26418	0.25062	0.010	-5.1	20.0
11 Bromomethane	0.21479	0.20332	0.010	-5.3	50.0
12 Chloroethane	0.18582	0.18674	0.010	0.5	50.0
13 Trichlorofluoromethane	0.31648	0.30072	0.010	-5.0	50.0
15 Acrolein	0.03806	0.02564	0.010	-12.8	50.0
16 Acetone	0.10340	0.07652	0.010	-26.0	50.0
17 1,1-Dichloroethene	0.20934	0.20561	0.010	-1.8	20.0
18 Freon-113	0.21069	0.18410	0.010	-12.6	50.0
19 Iodomethane	0.39871	0.33127	0.010	-16.9	50.0
20 Carbon Disulfide	0.80727	0.72585	0.010	-10.1	50.0
21 Methylene Chloride	0.24289	0.24221	0.010	-0.3	50.0
22 Acetonitrile	0.02775	0.0273	0.010	-1.6	50.0
23 Acrylonitrile	0.08276	0.08289	0.010	0.2	50.0
24 Methyl tert-butyl ether	0.65939	0.58051	0.010	-12.0	50.0
25 trans-1,2-Dichloroethene	0.24626	0.24560	0.010	-0.3	50.0
26 Hexane	50.00000	57.26584	0.010	-14.5	50.0
27 Vinyl acetate	0.33551	0.29560	0.010	-11.9	50.0
28 1,1-Dichloroethane	0.40341	0.41563	0.100	3.0	50.0
29 tert-Butyl Alcohol	0.01700	0.01348	0.010	-20.7	50.0
30 2-Butanone	0.10996	0.10010	0.010	-9.0	50.0
M 31 1,2-Dichloroethene (total)	0.24998	0.25248	0.010	1.0	50.0
32 cis-1,2-dichloroethene	0.25370	0.25937	0.010	2.2	50.0
33 2,2-Dichloropropane	0.34987	0.29946	0.010	-14.4	50.0
34 Bromochloromethane	0.13322	0.13016	0.010	-2.3	50.0
35 Chloroform	0.39467	0.41417	0.010	4.9	20.0
36 Tetrahydrofuran	0.05845	0.05830	0.010	-0.2	50.0
37 1,1,1-Trichloroethane	0.37973	0.35899	0.010	-5.5	50.0
38 1,1-Dichloropropene	0.29850	0.33255	0.010	12.4	50.0
39 Carbon Tetrachloride	0.34058	0.33169	0.010	-2.6	50.0
40 1,2-Dichloroethane	0.31841	0.34155	0.010	7.3	50.0

Data File: \\qcanoh04\dd\chem\MSV\asux11.i\J10320A.B\UXJ2308.D
 Report Date: 20-Mar-2001 12:01

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-MAR-2001 07:42
 Lab File ID: UXJ2308.D Init. Cal. Date(s): 09-NOV-2000 25-JAN-2001
 Analysis Type: WATER Init. Cal. Times: 17:49 19:53
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\asux11.i\J10320A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
41 Benzene	0.96153	1.02035	0.010	6.1	50.0
42 Trichloroethene	0.27606	0.27672	0.010	0.2	50.0
43 1,2-Dichloropropane	0.22847	0.24948	0.010	9.2	20.0
44 1,4-Dioxane	0.00234	0.00226	0.010	-3.3	50.0
45 Dibromomethane	0.13900	0.14042	0.010	1.0	50.0
46 Bromodichloromethane	0.29782	0.31887	0.010	7.1	50.0
47 2-Chloroethyl vinyl ether	0.10197	0.11383	0.010	11.6	50.0
48 cis-1,3-Dichloropropene	0.37253	0.39724	0.010	6.6	50.0
49 4-Methyl-2-pentanone	0.19726	0.19262	0.010	-2.4	50.0
50 Toluene	1.32492	1.45211	0.010	9.6	20.0
51 trans-1,3-Dichloropropene	0.43524	0.46712	0.010	7.3	50.0
52 Ethyl Methacrylate	0.33872	0.36299	0.010	7.2	50.0
53 1,1,2-Trichloroethane	0.25946	0.27602	0.010	6.4	50.0
54 1,3-Dichloropropane	0.45878	0.50472	0.010	10.0	50.0
55 Tetrachloroethene	0.28875	0.30114	0.010	4.3	50.0
56 2-Hexanone	0.19196	0.16731	0.010	-12.8	50.0
57 Dibromochloromethane	0.30725	0.31264	0.010	1.8	50.0
58 1,2-Dibromoethane	0.25636	0.27183	0.010	6.0	50.0
59 Chlorobenzene	0.90087	0.95808	0.300	6.4	50.0
60 1,1,1,2-Tetrachloroethane	0.33278	0.31761	0.010	-4.6	50.0
61 Ethylbenzene	0.47989	0.52851	0.010	10.1	20.0
62 m + p-Xylene	0.59372	0.65367	0.010	10.1	50.0
M 63 Xylenes (total)	0.59292	0.64207	0.010	8.3	50.0
64 Xylene-o	0.59133	0.61888	0.010	4.7	50.0
65 Styrene	0.97878	1.06909	0.010	9.2	50.0
66 Bromoform	0.20777	0.20026	0.100	-3.6	50.0
67 Isopropylbenzene	1.46780	1.52113	0.010	3.6	50.0
68 1,1,2,2-Tetrachloroethane	0.50998	0.56579	0.300	10.9	50.0
69 1,4-Dichloro-2-butene	0.14061	0.16590	0.010	18.0	50.0
70 1,2,3-Trichloropropane	0.17727	0.19357	0.010	9.2	50.0
71 Bromobenzene	0.62600	0.69771	0.010	11.5	50.0
72 n-Propylbenzene	0.68096	0.79863	0.010	17.3	50.0
73 2-Chlorotoluene	0.59017	0.66399	0.010	12.5	50.0
74 1,3,5-Trimethylbenzene	2.00208	2.27737	0.010	13.8	50.0
75 4-Chlorotoluene	0.61125	0.69807	0.010	14.2	50.0
76 tert-Butylbenzene	1.82719	2.01437	0.010	10.2	50.0

Data File: \\qcanoh04\dd\chem\MSV\3ux11.i\J10320A.b\UXJ2308.D
Report Date: 20-Mar-2001 12:01

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-MAR-2001 07:42
Lab File ID: UXJ2308.D Init. Cal. Date(s): 09-NOV-2000 25-JAN-2001
Analysis Type: WATER Init. Cal. Times: 17:49 19:53
Lab Sample ID: 5ONG-CC Quant Type: ISTD
Method: \\QCANOH04\dd\chem\MSV\3ux11.i\J10320A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
77 1,2,4-Trimethylbenzene	2.09486	2.33727	0.010	11.6	50.0
78 sec-Butylbenzene	2.49932	2.86474	0.010	14.6	50.0
79 4-Isopropyltoluene	2.22637	2.50188	0.010	12.4	50.0
80 1,3-Dichlorobenzene	1.26581	1.36186	0.010	7.6	50.0
81 1,4-Dichlorobenzene	1.34045	1.41363	0.010	5.5	50.0
82 n-Butylbenzene	1.94545	2.22533	0.010	14.4	50.0
83 1,2-Dichlorobenzene	1.27883	1.32458	0.010	3.6	50.0
84 1,2-Dibromo-3-chloropropane	0.13737	0.11714	0.010	-14.7	50.0
85 1,2,4-Trichlorobenzene	1.02221	0.86269	0.010	-15.6	50.0
86 Hexachlorobutadiene	0.42404	0.39646	0.010	-6.5	50.0
87 Naphthalene	2.16167	1.92949	0.010	-10.7	50.0
88 1,2,3-Trichlorobenzene	0.92315	0.83190	0.010	-9.9	50.0
98 Cyclohexane	0.37587	0.40180	0.010	6.9	50.0
143 Methyl Acetate	0.14952	0.17275	0.010	15.5	50.0
144 Methylcyclohexane	0.39040	0.44177	0.010	13.2	50.0
141 1,3,5-Trichlorobenzene	1.06736	0.94826	0.010	-11.2	50.0

Data File: \\qcanoh04\dd\chem\MSV\A3ux11.i\J10320A.b\UKJ2309.D
Report Date: 03/20/2001

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a3ux11.i
Lab File ID: UKJ2309.D
Analysis Type: WATER

Injection Date: 20-MAR-2001 08:05
Lab Sample ID: 50NG-A9CC
Method File: \\QCANOH04\dd\chem\MSV\A3ux11.i\J10320A

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
39 Chlorobenzene-d5	50.0000	50.0000	0.0	50.0
53 3-Chloropropene	50.0000	47.4092	5.2	50.0
54 2-Chloro-1,3-butadiene	50.0000	48.7661	2.5	50.0
55 Propionitrile	100.0000	112.6204	12.6	50.0
56 Methacrylonitrile	50.0000	56.5315	13.1	50.0
57 Isobutanol	1000.0000	1075.6664	7.6	50.0
58 Methyl Methacrylate	50.0000	60.9726	21.9	50.0
73 n-Butanol	1000.0000	970.0595	3.0	50.0
74 Ethyl Acetate	100.0000	119.7394	19.7	50.0
75 Cyclohexanone	500.0000	564.0968	12.8	50.0
76 Ethyl Ether	50.0000	55.1689	10.3	50.0
85 Dichlorofluoromethane	50.0000	47.4012	5.2	50.0
86 2-Nitropropane	100.0000	120.9432	20.9	50.0
126 Isopropyl Ether	250.0000	251.5026	0.6	50.0
130 Fluorobenzene	50.0000	50.0000	0.0	50.0
132 1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	50.0

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10320A.b\UXJ2309.D
 Report Date: 20-Mar-2001 12:01

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 20-MAR-2001 08:05
 Lab File ID: UXJ2309.D Init. Cal. Date(s): 09-NOV-2000 25-JAN-2001
 Analysis Type: WATER Init. Cal. Times: 17:49 19:53
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\QCANOH04\dd\chem\MSV\a3ux11.i\J10320A.b\8260LLUX11.m

COMPOUND	RRF	RF50	MIN RRF	RD	MAX RD
14 Dichlorofluoromethane	0.45688	0.43313	0.010	-5.2	50.0
89 Ethyl Ether	0.18474	0.20384	0.010	10.3	50.0
91 3-Chloropropene	0.12523	0.11874	0.010	-5.2	50.0
92 Isopropyl Ether	0.21508	0.21638	0.010	0.6	50.0
93 2-Chloro-1,3-butadiene	0.35687	0.34806	0.010	-2.5	50.0
94 Propionitrile	0.02800	0.03153	0.010	12.6	50.0
95 Ethyl Acetate	0.18462	0.22107	0.010	19.7	50.0
96 Methacrylonitrile	0.12752	0.14418	0.010	13.1	50.0
97 Isobutanol	0.00713	0.00767	0.010	7.6	50.0 <-
99 n-Butanol	1000	970	0.010	3.0	50.0
100 Methyl Methacrylate	0.16585	0.20225	0.010	21.9	50.0
101 2-Nitropropane	0.04269	0.05162	0.010	20.9	50.0
103 Cyclohexanone	0.03343	0.03772	0.010	12.8	50.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP039
 Lab File ID: BFB062 BFB Injection Date: 01/25/01
 Instrument ID: A3UX11 BFB Injection Time: 1521
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	84.3
175	5.0 - 9.0% of mass 174	5.8 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.8 (98.2)1
177	5.0 - 9.0% of mass 176	5.6 (6.8)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-IC	UXJ16093	01/25/01	1539
02	VSTD020	100NG-IC	UXJ16094	01/25/01	1603
03	VSTD010	50NG-IC	UXJ16095	01/25/01	1626
04	VSTD005	25NG-IC	UXJ16096	01/25/01	1649
05	VSTD002	10NG-IC	UXJ16097	01/25/01	1712
06	VSTD001	5NG-IC	UXJ16098	01/25/01	1735
07	VSTD040	200NG-A9IC	UXJ16099	01/25/01	1758
08	VSTD020	100NG-A9IC	UXJ16100	01/25/01	1821
09	VSTD010	50NG-A9IC	UXJ16101	01/25/01	1844
10	VSTD005	25NG-A9IC	UXJ16102	01/25/01	1907
11	VSTD002	10NG-A9IC	UXJ16103	01/25/01	1930
12	VSTD001	5NG-A9IC	UXJ16104	01/25/01	1953
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Report Date : 26-Jan-2001 08:48

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
End Cal Date : 25-JAN-2001 19:53
Quant Method : ISTD
Origin : Disabled
Target Version : 4.04
Integrator : HP RTE
Method file : \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\8260LLUX11.m
Cal Date : 25-Jan-2001 20:08 tapsvc
Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\UXJ16104.D
Level 2: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\UXJ16103.D
Level 3: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\UXJ16102.D
Level 4: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\UXJ16101.D
Level 5: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\UXJ16100.D
Level 6: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10125A.b\UXJ16099.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	RSD
8 Dichlorodifluoromethane	0.14376	0.15195	0.18114	0.18254	0.17620	0.17871	0.16905	9.916
9 Chloromethane	0.26526	0.26232	0.27064	0.26457	0.26122	0.25465	0.26311	2.005
10 Vinyl Chloride	0.27330	0.25703	0.26908	0.26105	0.26534	0.25928	0.26418	2.355
11 Bromomethane	0.23173	0.20447	0.20579	0.21196	0.21706	0.21772	0.21479	4.639
12 Chloroethane	0.19024	0.18346	0.18792	0.18132	0.18807	0.18391	0.18582	1.840
13 Trichlorofluoromethane	0.25153	0.28614	0.32931	0.31617	0.34972	0.36600	0.31648	13.302
14 Dichlorofluoromethane	0.42082	0.45494	0.46321	0.46187	0.47474	0.46566	0.45688	4.112
15 Acrolein	0.03772	0.03817	0.03754	0.03861	0.04240	0.03393	0.03806	7.112
16 Acetone	0.12248	0.11209	0.10105	0.09737	0.10705	0.08037	0.10340	13.847
17 1,1-Dichloroethene	0.18313	0.21559	0.20378	0.20942	0.22236	0.22174	0.20934	7.020
18 Freon-113	0.17644	0.21416	0.21872	0.20832	0.22029	0.22618	0.21069	8.457
19 Iodomethane	0.39156	0.40224	0.39490	0.39586	0.41078	0.39693	0.39871	1.720
20 Carbon Disulfide	0.78486	0.82610	0.80066	0.77648	0.83405	0.82148	0.80727	2.914
21 Methylene Chloride	0.25061	0.25087	0.24232	0.23193	0.24154	0.24007	0.24289	2.931
22 Acetonitrile	0.03096	0.03066	0.02645	0.02626	0.02990	0.02224	0.02775	12.238
23 Acrylonitrile	0.08616	0.08522	0.08050	0.08232	0.09119	0.07108	0.08276	8.233
24 Methyl tert-butyl ether	0.63418	0.68279	0.63389	0.65327	0.72153	0.63069	0.65939	5.491
25 trans-1,2-Dichloroethene	0.24414	0.24042	0.24557	0.24047	0.25261	0.25437	0.24626	2.427
26 Hexane	0.03387	0.05813	0.05931	0.05372	0.06163	0.06295	0.05493	19.668
27 Vinyl acetate	0.31286	0.32317	0.32457	0.33804	0.38714	0.32725	0.33551	7.914
28 1,1-Dichloroethane	0.38129	0.40819	0.40158	0.39473	0.41917	0.41552	0.40341	3.481
29 tert-Butyl Alcohol	0.01721	0.01747	0.01607	0.01675	0.02058	0.01394	0.01700	12.711
30 2-Butanone	0.11436	0.11507	0.10490	0.11168	0.12248	0.09127	0.10996	9.795
M 31 1,2-Dichloroethene (total)	0.24412	0.24740	0.24942	0.24509	0.25700	0.25685	0.24998	2.274
32 cis-1,2-dichloroethene	0.24409	0.25439	0.25327	0.24971	0.26138	0.25934	0.25370	2.492

Report Date : 26-Jan-2001 08:48

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 25-JAN-2001 19:53
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\aux11.i\J10125A.b\8260LLUX11.m
 Cal Date : 25-Jan-2001 20:08 tapsvc
 Curve Type : Average

Compound	5.000	10.000	25.000	50.000	100.000	200.000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
33 2,2-Dichloropropane	0.31924	0.35709	0.34554	0.34590	0.36983	0.36162	0.34987	5.051
34 Bromochloromethane	0.13666	0.13312	0.13205	0.13030	0.13554	0.13167	0.13322	1.824
35 Chloroform	0.38577	0.40476	0.39026	0.38723	0.40502	0.39496	0.39467	2.159
36 Tetrahydrofuran	0.05992	0.06110	0.05731	0.05996	0.06526	0.04713	0.05845	10.470
37 1,1,1-Trichloroethane	0.36307	0.38175	0.38311	0.36995	0.39183	0.38868	0.37973	2.921
38 1,1-Dichloropropene	0.27587	0.30183	0.29813	0.29354	0.30881	0.31282	0.29850	4.392
39 Carbon Tetrachloride	0.32472	0.35225	0.34578	0.32650	0.34644	0.34781	0.34058	3.473
40 1,2-Dichloroethane	0.32036	0.31841	0.31559	0.31600	0.32638	0.31372	0.31841	1.426
41 Benzene	0.93461	1.01912	0.95089	0.93645	0.96846	0.95963	0.96153	3.234
42 Trichloroethene	0.27730	0.28673	0.27138	0.26479	0.27984	0.27634	0.27606	2.705
43 1,2-Dichloropropane	0.22540	0.23621	0.22574	0.22124	0.23123	0.23102	0.22847	2.342
44 1,4-Dioxane	0.00223	0.00253	0.00231	0.00233	0.00267	0.00196	0.00234	10.528
45 Dibromomethane	0.14653	0.13912	0.13816	0.13763	0.14282	0.12951	0.13900	4.115
46 Bromodichloromethane	0.30522	0.29858	0.29656	0.28941	0.29919	0.29799	0.29782	1.708
47 2-Chloroethyl vinyl ether	0.09398	0.10279	0.09798	0.10315	0.11379	0.10013	0.10197	6.578
48 cis-1,3-Dichloropropene	0.36753	0.37455	0.36299	0.36871	0.38070	0.38073	0.37253	1.968
49 4-Methyl-2-pentanone	0.18867	0.20437	0.19686	0.19705	0.22349	0.17311	0.19726	8.470
50 Toluene	1.22870	1.34737	1.32595	1.33302	1.37058	1.34387	1.32492	3.739
51 trans-1,3-Dichloropropene	0.42082	0.44304	0.42645	0.42935	0.46274	0.42905	0.43524	3.523
52 Ethyl Methacrylate	0.30238	0.33028	0.33861	0.35307	0.38723	0.32073	0.33872	8.632
53 1,1,2-Trichloroethane	0.27428	0.26270	0.25019	0.25693	0.27126	0.24137	0.25946	4.841
54 1,3-Dichloropropane	0.45670	0.47314	0.45937	0.45598	0.47349	0.43399	0.45878	3.158
55 Tetrachloroethane	0.26115	0.29122	0.29859	0.28864	0.29799	0.29493	0.28875	4.869
56 2-Hexanone	0.18383	0.19268	0.19486	0.19465	0.22103	0.16471	0.19196	9.520
57 Dibromochloromethane	0.31908	0.30428	0.29534	0.30707	0.32027	0.29748	0.30725	3.431
58 1,2-Dibromoethane	0.24371	0.27199	0.25519	0.25725	0.27314	0.23684	0.25636	5.704
59 Chlorobenzene	0.89855	0.92598	0.89837	0.88788	0.89884	0.89557	0.90087	1.442
60 1,1,1,2-Tetrachloroethane	0.33333	0.32926	0.32973	0.32763	0.34041	0.33634	0.33278	1.469
61 Ethylbenzene	0.43295	0.48623	0.48508	0.47438	0.50672	0.49397	0.47989	5.287
62 m + p-Xylene	0.54300	0.60471	0.59087	0.59082	0.61866	0.61423	0.59372	4.614
M 63 Xylenes (total)	0.53194	0.60019	0.59390	0.59197	0.62114	0.61839	0.59292	5.448
64 Xylene-o	0.50983	0.59115	0.59996	0.59426	0.62611	0.62670	0.59133	7.248
65 Styrene	0.85311	0.95982	0.97666	0.99683	1.04642	1.03983	0.97878	7.193

Report Date : 26-Jan-2001 08:48

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 25-JAN-2001 19:53
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\aux11.i\J10125A.b\8260LLUX11.m
 Cal Date : 25-Jan-2001 20:08 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
66 Bromoform	0.20803	0.21024	0.20316	0.20524	0.22492	0.19502	0.20777	4.767
67 Isopropylbenzene	1.25602	1.47538	1.48824	1.46518	1.57881	1.54317	1.46780	7.668
68 1,1,2,2-Tetrachloroethane	0.53095	0.53912	0.50090	0.51063	0.54610	0.43216	0.50998	8.195
69 1,4-Dichloro-2-butene	0.13136	0.14190	0.13699	0.14691	0.15842	0.12808	0.14061	7.881
70 1,2,3-Trichloropropane	0.17985	0.18759	0.17508	0.18494	0.18731	0.14888	0.17727	8.304
71 Bromobenzene	0.63433	0.64248	0.60559	0.62619	0.63567	0.61174	0.62600	2.320
72 n-Propylbenzene	0.60214	0.66150	0.69565	0.70677	0.71825	0.70147	0.68096	6.328
73 2-Chlorotoluene	0.54040	0.60165	0.59312	0.60567	0.60360	0.59659	0.59017	4.205
74 1,3,5-Trimethylbenzene	1.75973	1.99281	2.03654	2.05539	2.11819	2.04981	2.00208	6.263
75 4-Chlorotoluene	0.59044	0.60917	0.60944	0.61883	0.62410	0.61555	0.61125	1.910
76 tert-Butylbenzene	1.57281	1.81841	1.85762	1.87717	1.93763	1.89949	1.82719	7.162
77 1,2,4-Trimethylbenzene	1.87604	2.08523	2.11211	2.12880	2.19665	2.17033	2.09486	5.463
78 sec-Butylbenzene	2.19754	2.44160	2.53948	2.55814	2.65279	2.60637	2.49932	6.562
79 4-Isopropyltoluene	1.93362	2.17771	2.26875	2.26282	2.38344	2.33190	2.22637	7.159
80 1,3-Dichlorobenzene	1.19318	1.32542	1.26565	1.26194	1.28941	1.25927	1.26581	3.433
81 1,4-Dichlorobenzene	1.35289	1.39242	1.32553	1.32294	1.33925	1.30968	1.34045	2.196
82 n-Butylbenzene	1.74416	1.93090	1.94853	1.97728	2.06274	2.00910	1.94545	5.610
83 1,2-Dichlorobenzene	1.25660	1.32989	1.26667	1.26889	1.28837	1.26259	1.27883	2.128
84 1,2-Dibromo-3-chloropropane	0.14748	0.13517	0.13342	0.13772	0.15366	0.11678	0.13737	9.276
85 1,2,4-Trichlorobenzene	1.01702	1.01344	1.03235	1.03894	1.06980	0.96174	1.02221	3.502
86 Hexachlorobutadiene	0.42519	0.44421	0.44186	0.40751	0.43241	0.39308	0.42404	4.749
87 Naphthalene	2.04388	2.09001	2.16037	2.29717	2.48285	1.89571	2.16167	9.509
88 1,2,3-Trichlorobenzene	0.92144	0.94982	0.93510	0.93591	0.96209	0.83455	0.92315	4.937
89 Ethyl Ether	0.17438	0.18417	0.18470	0.19248	0.19180	0.18091	0.18474	3.688
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 3-Chloropropene	0.11730	0.11956	0.13387	0.12377	0.12970	0.12719	0.12523	4.995
92 Isopropyl Ether	0.19950	0.21264	0.21737	0.21637	0.22401	0.22061	0.21508	3.978
93 2-Chloro-1,3-butadiene	0.34144	0.35082	0.36579	0.35625	0.36548	0.36143	0.35687	2.657
94 Propionitrile	0.02522	0.02696	0.02716	0.02968	0.03035	0.02863	0.02800	6.825
95 Ethyl Acetate	0.18821	0.19012	0.17148	0.18953	0.19056	0.17784	0.18462	4.340
96 Methacrylonitrile	0.12741	0.12918	0.11913	0.13218	0.13134	0.12590	0.12752	3.714
97 Isobutanol	0.00628	0.00691	0.00671	0.00763	0.00781	0.00743	0.00713	8.300 <-
98 Cyclohexane	0.33448	0.37040	0.37456	0.37146	0.40240	0.40194	0.37587	6.675

Report Date : 26-Jan-2001 08:48

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-NOV-2000 17:49
 End Cal Date : 25-JAN-2001 19:53
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\A3UX11.I\J10125A.B\8260LLUX11.M
 Cal Date : 25-Jan-2001 20:08 tpsvc
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
99 n-Butanol	0.00428	0.00457	0.00440	0.00580	0.00621	0.00573	0.00516	16.325
100 Methyl Methacrylate	0.15062	0.15610	0.15907	0.17409	0.18286	0.17239	0.16585	7.496
101 2-Nitropropane	0.04095	0.04154	0.04118	0.04241	0.04473	0.04529	0.04269	4.402
102 Chloropicrin	++++	++++	++++	++++	++++	++++	++++	++++
103 Cyclohexanone	0.02971	0.03119	0.03031	0.03643	0.03761	0.03536	0.03343	10.266
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++	++++
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++	++++
134 Thiophene	++++	++++	++++	++++	++++	++++	++++	++++
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	++++	++++
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	++++	++++
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	++++	++++
138 Paraldehyde	++++	++++	++++	++++	++++	++++	++++	++++
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	++++	++++
140 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++	++++
141 1,3,5-Trichlorobenzene	1.05811	1.08212	1.07657	1.04777	1.10087	1.03870	1.06736	2.183
143 Methyl Acetate	0.16189	0.15087	0.14593	0.14765	0.16377	0.12703	0.14952	8.874
144 Methylcyclohexane	0.32739	0.38165	0.40542	0.38714	0.41852	0.42228	0.39040	8.940
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++	++++
\$ 4 Dibromofluoromethane	0.22331	0.22909	0.22822	0.21051	0.22032	0.22098	0.22207	3.031
\$ 5 1,2-Dichloroethane-d4	0.28965	0.28670	0.25960	0.25924	0.27156	0.26030	0.27118	5.156
\$ 6 Toluene-d8	1.04909	1.13318	1.14252	1.09839	1.14417	1.13916	1.11775	3.370
\$ 7 Bromofluorobenzene	0.41713	0.44423	0.45245	0.41982	0.45000	0.44266	0.43772	3.508

Data File: \\qcanoh04\dd\chem\MSV\a3ux11.i\J10320A.b\UXJ2323.D
 Report Date: 21-Mar-2001 08:44

STL - North Canton

VOLATILE REPORT SW-846 Method

Data file : \\qcanoh04\dd\chem\MSV\a3ux11.i\J10320A.b\UXJ2323.D
 Lab Smp Id: DXDM21AA Client Smp ID: TRIP BLANK
 Inj Date : 20-MAR-2001 13:27
 Operator : 01715 Inst ID: a3ux11.i
 Smp Info : DXDM21AA, 5ML/5ML
 Misc Info : J10320A, 8260LLUX11,, 01715
 Comment :
 Method : \\QCANOH04\dd\chem\MSV\a3ux11.i\J10320A.b\8260LLUX11.m
 Meth Date : 21-Mar-2001 08:40 mccroryj Quant Type: ISTD
 Cal Date : 25-JAN-2001 19:53 Cal File: UXJ16104.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.04
 Processing Host: QCANOH05

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.131	5.131	(1.000)	611138	50.0000	
* 2 Chlorobenzene-d5	117	7.782	7.782	(1.000)	468406	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.030	10.030	(1.000)	247515	50.0000	
\$ 4 Dibromofluoromethane	113	4.575	4.575	(0.892)	134186	49.4362	9.887
\$ 5 1,2-Dichloroethane-d4	65	4.847	4.847	(0.945)	165456	49.9185	9.984
\$ 6 Toluene-d8	98	6.480	6.480	(0.833)	548378	52.3699	10.474
\$ 7 Bromofluorobenzene	95	8.894	8.894	(1.143)	184200	44.9205	8.984
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.812	2.813	(0.548)	38175	30.2051	6.041
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142				Compound Not Detected.		
20 Carbon Disulfide	76				Compound Not Detected.		
21 Methylene Chloride	84				Compound Not Detected.		
22 Acetonitrile	41				Compound Not Detected.		
23 Acrylonitrile	53				Compound Not Detected.		
24 Methyl tert-butyl ether	73				Compound Not Detected.		
25 trans-1,2-Dichloroethene	96				Compound Not Detected.		
26 Hexane	86				Compound Not Detected.		
27 Vinyl acetate	43				Compound Not Detected.		
28 1,1-Dichloroethane	63				Compound Not Detected.		
29 tert-Butyl Alcohol	59				Compound Not Detected.		
30 2-Butanone	43				Compound Not Detected.		
M 31 1,2-Dichloroethene (total)	96				Compound Not Detected.		
32 cis-1,2-dichloroethene	96				Compound Not Detected.		
33 2,2-Dichloropropane	77				Compound Not Detected.		
34 Bromochloromethane	128				Compound Not Detected.		
35 Chloroform	83				Compound Not Detected.		
36 Tetrahydrofuran	42				Compound Not Detected.		
37 1,1,1-Trichloroethane	97				Compound Not Detected.		
38 1,1-Dichloropropene	75				Compound Not Detected.		
39 Carbon Tetrachloride	117				Compound Not Detected.		
40 1,2-Dichloroethane	62				Compound Not Detected.		
41 Benzene	78				Compound Not Detected.		
42 Trichloroethene	130				Compound Not Detected.		
43 1,2-Dichloropropane	63				Compound Not Detected.		
44 1,4-Dioxane	88				Compound Not Detected.		
45 Dibromomethane	93				Compound Not Detected.		
46 Bromodichloromethane	83				Compound Not Detected.		
47 2-Chloroethyl vinyl ether	63				Compound Not Detected.		
48 cis-1,3-Dichloropropene	75				Compound Not Detected.		
49 4-Methyl-2-pentanone	43				Compound Not Detected.		
50 Toluene	91	6.540	6.540	(0.840)	26333	2.12158	0.4243
51 trans-1,3-Dichloropropene	75				Compound Not Detected.		
52 Ethyl Methacrylate	69				Compound Not Detected.		
53 1,1,2-Trichloroethane	97				Compound Not Detected.		
54 1,3-Dichloropropane	76				Compound Not Detected.		
55 Tetrachloroethene	164				Compound Not Detected.		
56 2-Hexanone	43				Compound Not Detected.		
57 Dibromochloromethane	129				Compound Not Detected.		
58 1,2-Dibromoethane	107				Compound Not Detected.		
59 Chlorobenzene	112				Compound Not Detected.		
60 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
61 Ethylbenzene	106				Compound Not Detected.		
62 m + p-Xylene	106	8.019	8.019	(1.030)	12832	2.30708	0.4614
M 63 Xylenes (total)	106				12832	2.30708	0.4614
64 Xylene-o	106				Compound Not Detected.		
65 Styrene	104				Compound Not Detected.		

CLIENT NS MAYPORT		JOB NUMBER MPO39	
SUBJECT VOC			
BASED ON SW-846-8260B		DRAWING NUMBER	
BY SCS	CHECKED BY	APPROVED BY JAA	DATE 5-22-01

Sample: Trip Blank @ Toluene = .42 ug/L

$$\frac{26333}{468406} \times \frac{50ng}{1.45211} \times (1) = 1.93 = \frac{1.93}{5} = 0.39 \text{ ug/L}$$

^{50ng}
^{2.12}
 (1)
 (5 ml)
~~1.32492~~

p. 71-72

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

Affected samples : All

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level (aqueous)</u>
Aluminum ⁽¹⁾	139 ug/L	695 ug/L
Barium	0.70 ug/L	3.5 ug/L
Beryllium	0.80 ug/L	4.0 ug/L
Calcium ⁽¹⁾	334 ug/L	1670 ug/L
Chromium	1.1 ug/L	5.5 ug/L
Cobalt	1.3 ug/L	6.5 ug/L
Copper	2.8 ug/L	14.0 ug/L
Cyanide ⁽¹⁾	5.0 ug/L	25.0 ug/L
Iron ⁽¹⁾	81.5 ug/L	407.5 ug/L
Magnesium	36.5 ug/L	182.5 ug/L
Manganese ⁽¹⁾	11.9 ug/L	59.5 ug/L
Potassium	30.7 ug/L	153.5 ug/L
Silver	1.4 ug/L	7.0 ug/L
Sodium	591 ug/L	2955 ug/L
Tin	3.8 ug/L	19.0 ug/L
Vanadium	0.80 ug/L	4.0 ug/L
Zinc ⁽¹⁾	9.5 ug/L	47.5 ug/L

⁽¹⁾ - Maximum concentration present in an aqueous preparation blank

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration in evaluation for blank contamination. Positive results less than the blank action level for aluminum, beryllium, chromium, cobalt, copper, cyanide, iron, manganese, vanadium and zinc were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as the results reported were either greater than the blank action level or were nondetected.

ICP Serial Dilution

The ICP Serial Dilution Percent Difference (%D) reported for manganese was greater than the 10% quality control limits. The positive results reported for manganese were qualified as estimated, "J".

Notes

A field duplicate summary table is included in Appendix C.

A continuing calibration verification for cyanide affecting sample MPT-G4-GW-DU01 was greater than 120%. However, the result reported was nondetected and a positive bias did not affect the reported result. The total cyanide analysis was reanalyzed at a later date and confirmed the original nondetected result. The original results are being reported.

TO: T. HANSEN
DATE: DECEMBER 7, 2000

- PAGE 3

Executive Summary

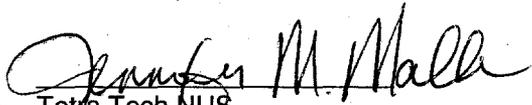
Laboratory Performance: Several analytes were present in the laboratory/preparation blanks.

Other Factors Affecting Data Quality: ICP serial dilution noncompliance was noted for manganese.

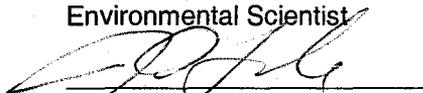
The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist



Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $< CRQL$ for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCB D% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$. (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = % Solid content is less than 30%

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	11.8	U	A	135	U	A	120	U	A	10.9	U	A
ANTIMONY	3.1	U		3.1	U		3.1	U		3.1	U	
ARSENIC	2.9	U		2.9	U		2.9	U		4.3		
BARIUM	3.7			26.7			8.2			5.2		
BERYLLIUM	0.20	U		0.42	U	A	0.20	U		0.20	U	A
CADMIUM	0.30	U		0.30	U		0.30	U		0.30	U	
CALCIUM	79900			78200			115000			57300		
CHROMIUM	0.80	U		2.6	U	A	0.80	U		1.9	U	A
COBALT	0.70	U		0.70	U		0.70	U		0.70	U	
COPPER	1.3	U		2.5	U	A	1.3	U		1.3	U	
IRON	110	U	A	1180			1750			372	U	A
LEAD	1.3	U		1.3	U		1.3	U		1.3	U	
MAGNESIUM	9980			9990			6860			17200		
MANGANESE	15.9	U	A	67.3	J	I	37.7	U	A	20.1	U	A
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
NICKEL	5.4			12.9			2.8			8.1		
POTASSIUM	4360			8310			3620			4060		
SELENIUM	4.9	U		4.9	U		4.9	U		4.9	U	
SILVER	1.0	U		1.0	U		1.0	U		1.0	U	
SODIUM	22100			237000			41400			17700		
THALLIUM	6.3	U		6.3	U		6.3	U		6.3	U	
TIN	2.8	U										
VANADIUM	0.80	U		4.4			0.80	U		0.80	U	
ZINC	1.0	U		6.0	U	A	12.0	U	A	10.9	U	A

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
ALUMINUM	21.7	U	A	12.6	U	A	34.7	U	A	61.7	U	A
ANTIMONY	3.1	U										
ARSENIC	2.9	U		2.9	U		2.9	U		4.8		
BARIUM	9.4			4.2			9.2			9.3		
BERYLLIUM	0.20	U										
CADMIUM	0.30	U										
CALCIUM	93500			129000			147000			120000		
CHROMIUM	0.80	U		0.80	U		0.84	U	A	1.6	U	A
COBALT	0.70	U		0.70	U		0.70	U		0.95	U	A
COPPER	1.3	U										
IRON	1220			1120			1180			1040		
LEAD	1.3	U										
MAGNESIUM	28000			10200			10200			10900		
MANGANESE	90.8	J	I	34.4	U	A	138	J	I	37.8	U	A
MERCURY	0.10	U										
NICKEL	4.3			1.5			5.4			12.2		
POTASSIUM	2460			9110			3120			4500		
SELENIUM	4.9	U										
SILVER	1.0	U										
SODIUM	45100			30100			11700			30700		
THALLIUM	6.3	U										
TIN	2.8	U										
VANADIUM	0.80	U										
ZINC	9.4	U	A	5.5	U	A	5.3	U	A	6.0	U	A

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-09-11	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010106002	A0G010106003	A0G010106004	A0G010106005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
ALUMINUM	52.9	U	A	52.4	U	A	97.4	U	A	77.6	U	A
ANTIMONY	3.1	U										
ARSENIC	2.9	U										
BARIUM	6.3			5.4			30.3			13.3		
BERYLLIUM	0.20	U										
CADMIUM	0.30	U										
CALCIUM	93200			101000			128000			108000		
CHROMIUM	0.80	U										
COBALT	1.1	U	A	0.70	U		0.70	U		0.74	U	A
COPPER	1.3	U										
IRON	436			288	U	A	1890			1830		
LEAD	1.3	U										
MAGNESIUM	7820			14800			33100			7490		
MANGANESE	35.0	U	A	28.8	U	A	247	J	I	361	J	I
MERCURY	0.10	U										
NICKEL	4.9			1.5			1.3	U		1.3	U	
POTASSIUM	3410			4750			22000			3880		
SELENIUM	4.9	U										
SILVER	1.0	U										
SODIUM	10200			34100			57000			25500		
THALLIUM	6.3	U										
TIN	2.8	U										
VANADIUM	0.80	U										
ZINC	5.9	U	A	3.1	U	A	28.6	U	A	6.0	U	A

CTO091-NS MAYPORT

WATER DATA

QUANTERRA

SDG: MP013

SAMPLE NUMBER:	MPT-G4-GW-13-06	MPT-G4-GW-14-10	MPT-G4-GW-15-09	MPT-G4-GW-16-08
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010107001	A0G010107002	A0G010107003	A0G010107004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	76.8	U	A	48.6	U	A	39.3	U	A	43.5	U	A
ANTIMONY	3.1	U		3.1	U		3.1	U		3.1	U	
ARSENIC	7.2			7.6			2.9	U		9.4		
BARIUM	10.9			6.7			4.8			12.7		
BERYLLIUM	0.20	U		0.20	U		0.20	U		0.20	U	
CADMIUM	0.30	U		0.30	U		0.30	U		0.30	U	
CALCIUM	112000			96500			110000			156000		
CHROMIUM	0.80	U		0.97	U	A	0.80	U		1.1	U	A
COBALT	0.70	U		0.70	U		0.70	U		0.78	U	A
COPPER	1.3	U		1.3	U		1.3	U		1.3	U	
IRON	4370			748			486			1680		
LEAD	1.3	U		1.3	U		1.3	U		1.3	U	
MAGNESIUM	8060			8400			6360			8790		
MANGANESE	390	J	I	157	J	I	8.8	U	A	91.0	J	I
MERCURY	0.10	U		0.10	U		0.12			0.10	U	
NICKEL	1.3	U		2.0			1.3	U		1.3	U	
POTASSIUM	2540			12700			5660			6800		
SELENIUM	4.9	U		4.9	U		4.9	U		4.9	U	
SILVER	1.0	U		1.0	U		1.0	U		1.0	U	
SODIUM	21700			31400			20800			12700		
THALLIUM	6.3	U		6.3	U		6.3	U		6.3	U	
TIN	2.8	U										
VANADIUM	0.80	U		1.2	U	A	4.4			0.80	U	
ZINC	13.1	U	A	9.0	U	A	7.4	U	A	17.0	U	A

CTO091-NS MAYPORT

WATER DATA

QUANTERRA

SDG: MP013

SAMPLE NUMBER:

MPT-G4-GW-17-09

MPT-G4-GW-DU01

SAMPLE DATE:

06/29/00

06/29/00

LABORATORY ID:

A0G010107006

A0G010107007

QC_TYPE:

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

100.0 %

100.0 %

UNITS:

UG/L

UG/L

FIELD DUPLICATE OF:

MPT-G4-GW-17-09

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	67.9	U	A	46.2	U	A						
ANTIMONY	3.1	U		3.1	U							
ARSENIC	3.1			3.2								
BARIUM	7.0			7.6								
BERYLLIUM	0.20	U		0.20	U							
CADMIUM	0.30	U		0.30	U							
CALCIUM	119000			131000								
CHROMIUM	1.1	U	A	0.80	U							
COBALT	0.70	U		0.70	U							
COPPER	1.3	U		1.3	U							
IRON	341	U	A	360	U	A						
LEAD	1.3	U		1.3	U							
MAGNESIUM	4320			4770								
MANGANESE	17.6	U	A	19.7	U	A						
MERCURY	0.10	U		0.10	U							
NICKEL	1.9			1.9								
POTASSIUM	5060			5610								
SELENIUM	4.9	U		4.9	U							
SILVER	1.0	U		1.0	U							
SODIUM	12300			13600								
THALLIUM	6.3	U		6.3	U							
TIN	2.8	U		2.8	U							
VANADIUM	6.5			6.7								
ZINC	3.5	U	A	12.3	U	A						

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04	MPT-G4-GW-05-04
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235002	A0F280235003	A0F280235004	A0F280235005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U										

CTO091-NS MAYPORT

WATER DATA

QUANTERRA

SDG: MP013

SAMPLE NUMBER:	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05	MPT-G4-GW-09-11
SAMPLE DATE:	06/27/00	06/27/00	06/28/00	06/28/00
LABORATORY ID:	A0F280235006	A0F280235007	A0G010106001	A0G010106002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP013

SAMPLE NUMBER:	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05	MPT-G4-GW-13-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/29/00
LABORATORY ID:	A0G010106003	A0G010106004	A0G010106005	A0G010107001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U		10	U		10	U		4.4	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP013

SAMPLE NUMBER:	MPT-G4-GW-14-10	MPT-G4-GW-15-09	MPT-G4-GW-16-08	MPT-G4-GW-17-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010107002	A0G010107003	A0G010107004	A0G010107006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U										

APPENDIX B
Results as Reported by the Laboratory

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFE8V Client ID: MPT-G4-GW-01-11
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	11.8	B	1	ICPST	7/18/00	16:39
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	16:39
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/18/00	16:39
Barium	493.41	0.30	200	3.7	B	1	ICPST	7/18/00	16:39
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/18/00	16:39
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	16:39
Calcium	317.93	22.4	5000	79900		1	ICPST	7/18/00	16:39
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/18/00	16:39
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	16:39
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/18/00	16:39
Iron	271.44	14.9	100	110		1	ICPST	7/18/00	16:39
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	16:39
Magnesium	279.08	10.2	5000	9980		1	ICPST	7/18/00	16:39
Manganese	257.61	0.20	15.0	15.9	L	1	ICPST	7/18/00	16:39
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:34
Nickel	231.60	1.3	40.0	5.4	B	1	ICPST	7/18/00	16:39
Potassium	766.49	19.8	5000	4360	B	1	ICPST	7/18/00	16:39
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	16:39
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	16:39
Sodium	330.23	155	5000	22100		1	ICPST	7/18/00	16:39
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	16:39
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	16:39
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/18/00	16:39
Zinc	213.86	1.0	20.0	1.0	U	1	ICPST	7/18/00	16:39

Comments: Lot #: A0F280235 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFF97 Client ID: MPT-G4-GW-02-05
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	135	B	1	ICPST	7/18/00	17:12
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	17:12
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/18/00	17:12
Barium	493.41	0.30	200	26.7	B	1	ICPST	7/18/00	17:12
Beryllium	313.04	0.20	5.0	0.42	B	1	ICPST	7/18/00	17:12
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	17:12
Calcium	317.93	22.4	5000	78200		1	ICPST	7/18/00	17:12
Chromium	267.72	0.80	5.0	2.6	B	1	ICPST	7/18/00	17:12
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	17:12
Copper	324.75	1.3	25.0	2.5	B	1	ICPST	7/18/00	17:12
Iron	271.44	14.9	100	1180		1	ICPST	7/18/00	17:12
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	17:12
Magnesium	279.08	10.2	5000	9990		1	ICPST	7/18/00	17:12
Manganese	257.61	0.20	15.0	67.3	L	1	ICPST	7/18/00	17:12
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:42
Nickel	231.60	1.3	40.0	12.9	B	1	ICPST	7/18/00	17:12
Potassium	766.49	19.8	5000	8310		1	ICPST	7/18/00	17:12
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	17:12
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	17:12
Sodium	330.23	155	5000	237000		1	ICPST	7/18/00	17:12
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	17:12
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	17:12
Vanadium	292.40	0.80	7.0	4.4	B	1	ICPST	7/18/00	17:12
Zinc	213.86	1.0	20.0	6.0	B	1	ICPST	7/18/00	17:12

Comments: Lot #: A0F280235 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFE98 Client ID: MPT-G4-GW-03-05
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	120	B	1	ICPST	7/18/00	17:17
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	17:17
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/18/00	17:17
Barium	493.41	0.30	200	8.2	B	1	ICPST	7/18/00	17:17
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/18/00	17:17
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	17:17
Calcium	317.93	22.4	5000	115000		1	ICPST	7/18/00	17:17
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/18/00	17:17
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	17:17
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/18/00	17:17
Iron	271.44	14.9	100	1750		1	ICPST	7/18/00	17:17
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	17:17
Magnesium	279.08	10.2	5000	6860		1	ICPST	7/18/00	17:17
Manganese	257.61	0.20	15.0	37.7	L	1	ICPST	7/18/00	17:17
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:43
Nickel	231.60	1.3	40.0	2.8	B	1	ICPST	7/18/00	17:17
Potassium	766.49	19.8	5000	3620	B	1	ICPST	7/18/00	17:17
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	17:17
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	17:17
Sodium	330.23	155	5000	41400		1	ICPST	7/18/00	17:17
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	17:17
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	17:17
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/18/00	17:17
Zinc	213.86	1.0	20.0	12.0	B	1	ICPST	7/18/00	17:17

Comments: Lot #: A0F280235 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFE99 Client ID: MPT-G4-GW-04-04
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	10.9	B	1	ICPST	7/18/00	17:21
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	17:21
Arsenic	189.04	2.9	10.0	4.3	B	1	ICPST	7/18/00	17:21
Barium	493.41	0.30	200	5.2	B	1	ICPST	7/18/00	17:21
Beryllium	313.04	0.20	5.0	0.20	B	1	ICPST	7/18/00	17:21
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	17:21
Calcium	317.93	22.4	5000	57300		1	ICPST	7/18/00	17:21
Chromium	267.72	0.80	5.0	1.9	B	1	ICPST	7/18/00	17:21
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	17:21
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/18/00	17:21
Iron	271.44	14.9	100	372		1	ICPST	7/18/00	17:21
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	17:21
Magnesium	279.08	10.2	5000	17200		1	ICPST	7/18/00	17:21
Manganese	257.61	0.20	15.0	20.1	L	1	ICPST	7/18/00	17:21
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:47
Nickel	231.60	1.3	40.0	8.1	B	1	ICPST	7/18/00	17:21
Potassium	766.49	19.8	5000	4060	B	1	ICPST	7/18/00	17:21
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	17:21
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	17:21
Sodium	330.23	155	5000	17700		1	ICPST	7/18/00	17:21
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	17:21
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	17:21
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/18/00	17:21
Zinc	213.86	1.0	20.0	10.9	B	1	ICPST	7/18/00	17:21

Comments: Lot #: A0F280235 Sample #: 4

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFF9C Client ID: MPT-G4-GW-05-04
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	21.7	B	1	ICPST	7/18/00	17:26
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	17:26
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/18/00	17:26
Barium	493.41	0.30	200	9.4	B	1	ICPST	7/18/00	17:26
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/18/00	17:26
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	17:26
Calcium	317.93	22.4	5000	93500		1	ICPST	7/18/00	17:26
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/18/00	17:26
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	17:26
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/18/00	17:26
Iron	271.44	14.9	100	1220		1	ICPST	7/18/00	17:26
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	17:26
Magnesium	279.08	10.2	5000	28000		1	ICPST	7/18/00	17:26
Manganese	257.61	0.20	15.0	90.8	L	1	ICPST	7/18/00	17:26
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:38
Nickel	231.60	1.3	40.0	4.3	B	1	ICPST	7/18/00	17:26
Potassium	766.49	19.8	5000	2460	B	1	ICPST	7/18/00	17:26
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	17:26
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	17:26
Sodium	330.23	155	5000	45100		1	ICPST	7/18/00	17:26
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	17:26
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	17:26
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/18/00	17:26
Zinc	213.86	1.0	20.0	9.4	B	1	ICPST	7/18/00	17:26

Comments: Lot #: A0F280235 Sample #: 5

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFF9D Client ID: MPT-G4-GW-06-07
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	12.6	B	1	ICPST	7/18/00	17:31
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	17:31
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/18/00	17:31
Barium	493.41	0.30	200	4.2	B	1	ICPST	7/18/00	17:31
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/18/00	17:31
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	17:31
Calcium	317.93	22.4	5000	129000		1	ICPST	7/18/00	17:31
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/18/00	17:31
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	17:31
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/18/00	17:31
Iron	271.44	14.9	100	1120		1	ICPST	7/18/00	17:31
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	17:31
Magnesium	279.08	10.2	5000	10200		1	ICPST	7/18/00	17:31
Manganese	257.61	0.20	15.0	34.4	L	1	ICPST	7/18/00	17:31
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:39
Nickel	231.60	1.3	40.0	1.5	B	1	ICPST	7/18/00	17:31
Potassium	766.49	19.8	5000	9110		1	ICPST	7/18/00	17:31
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	17:31
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	17:31
Sodium	330.23	155	5000	30100		1	ICPST	7/18/00	17:31
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	17:31
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	17:31
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/18/00	17:31
Zinc	213.86	1.0	20.0	5.5	B	1	ICPST	7/18/00	17:31

Comments: Lot #: A0F280235 Sample #: 6

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFF9F Client ID: MPT-G4-GW-07-05
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	34.7	B	1	ICPST	7/18/00	17:36
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/18/00	17:36
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/18/00	17:36
Barium	493.41	0.30	200	9.2	B	1	ICPST	7/18/00	17:36
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/18/00	17:36
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/18/00	17:36
Calcium	317.93	22.4	5000	147000		1	ICPST	7/18/00	17:36
Chromium	267.72	0.80	5.0	0.84	B	1	ICPST	7/18/00	17:36
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/18/00	17:36
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/18/00	17:36
Iron	271.44	14.9	100	1180		1	ICPST	7/18/00	17:36
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/18/00	17:36
Magnesium	279.08	10.2	5000	10200		1	ICPST	7/18/00	17:36
Manganese	257.61	0.20	15.0	138	L	1	ICPST	7/18/00	17:36
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:41
Nickel	231.60	1.3	40.0	5.4	B	1	ICPST	7/18/00	17:36
Potassium	766.49	19.8	5000	3120	B	1	ICPST	7/18/00	17:36
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/18/00	17:36
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/18/00	17:36
Sodium	330.23	155	5000	11700		1	ICPST	7/18/00	17:36
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/18/00	17:36
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/18/00	17:36
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/18/00	17:36
Zinc	213.86	1.0	20.0	5.3	B	1	ICPST	7/18/00	17:36

Comments: Lot #: A0F280235 Sample #: 7

U Result is less than the IDL
 B Result is between IDL and RL

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM12 Client ID: MPT-G4-GW-08-05
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	61.7	B	1	ICPST	7/11/00	13:31
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	13:31
Arsenic	189.04	2.9	10.0	4.8	B	1	ICPST	7/11/00	13:31
Barium	493.41	0.30	200	9.3	B	1	ICPST	7/11/00	13:31
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	13:31
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	13:31
Calcium	317.93	22.4	5000	120000		1	ICPST	7/11/00	13:31
Chromium	267.72	0.80	5.0	1.6	B	1	ICPST	7/11/00	13:31
Cobalt	228.62	0.70	7.0	0.95	B	1	ICPST	7/11/00	13:31
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	13:31
Iron	271.44	14.9	100	1040		1	ICPST	7/11/00	13:31
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	13:31
Magnesium	279.08	10.2	5000	10900		1	ICPST	7/11/00	13:31
Manganese	257.61	0.20	15.0	37.8		1	ICPST	7/11/00	13:31
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:00
Nickel	231.60	1.3	40.0	12.2	B	1	ICPST	7/11/00	13:31
Potassium	766.49	19.8	5000	4500	B	1	ICPST	7/11/00	13:31
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	13:31
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	13:31
Sodium	330.23	155	5000	30700		1	ICPST	7/11/00	13:31
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	13:31
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	13:31
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	13:31
Zinc	213.86	1.0	20.0	6.0	B	1	ICPST	7/11/00	13:31

Comments: Lot #: A0G010106 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM13 Client ID: MPT-G4-GW-09-11
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	52.9	B	1	ICPST	7/11/00	14:03
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:03
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/11/00	14:03
Barium	493.41	0.30	200	6.3	B	1	ICPST	7/11/00	14:03
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:03
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:03
Calcium	317.93	22.4	5000	93200		1	ICPST	7/11/00	14:03
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:03
Cobalt	228.62	0.70	7.0	1.1	B	1	ICPST	7/11/00	14:03
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:03
Iron	271.44	14.9	100	436		1	ICPST	7/11/00	14:03
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:03
Magnesium	279.08	10.2	5000	7820		1	ICPST	7/11/00	14:03
Manganese	257.61	0.20	15.0	35.0		1	ICPST	7/11/00	14:03
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:04
Nickel	231.60	1.3	40.0	4.9	B	1	ICPST	7/11/00	14:03
Potassium	766.49	19.8	5000	3410	B	1	ICPST	7/11/00	14:03
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:03
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:03
Sodium	330.23	155	5000	10200		1	ICPST	7/11/00	14:03
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:03
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:03
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	14:03
Zinc	213.86	1.0	20.0	5.9	B	1	ICPST	7/11/00	14:03

Comments: Lot #: A0G010106 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM14 Client ID: MPT-G4-GW-10-10
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	52.4	B	1	ICPST	7/11/00	14:08
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:08
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/11/00	14:08
Barium	493.41	0.30	200	5.4	B	1	ICPST	7/11/00	14:08
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:08
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:08
Calcium	317.93	22.4	5000	101000		1	ICPST	7/11/00	14:08
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:08
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:08
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:08
Iron	271.44	14.9	100	288		1	ICPST	7/11/00	14:08
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:08
Magnesium	279.08	10.2	5000	14800		1	ICPST	7/11/00	14:08
Manganese	257.61	0.20	15.0	28.8		1	ICPST	7/11/00	14:08
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:08
Nickel	231.60	1.3	40.0	1.5	B	1	ICPST	7/11/00	14:08
Potassium	766.49	19.8	5000	4750	B	1	ICPST	7/11/00	14:08
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:08
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:08
Sodium	330.23	155	5000	34100		1	ICPST	7/11/00	14:08
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:08
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:08
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	14:08
Zinc	213.86	1.0	20.0	3.1	B	1	ICPST	7/11/00	14:08

Comments: Lot #: A0G010106 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM15 Client ID: MPT-G4-GW-11-05
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	97.4	B	1	ICPST	7/11/00	14:13
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:13
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/11/00	14:13
Barium	493.41	0.30	200	30.3	B	1	ICPST	7/11/00	14:13
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:13
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:13
Calcium	317.93	22.4	5000	128000		1	ICPST	7/11/00	14:13
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:13
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:13
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:13
Iron	271.44	14.9	100	1890		1	ICPST	7/11/00	14:13
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:13
Magnesium	279.08	10.2	5000	33100		1	ICPST	7/11/00	14:13
Manganese	257.61	0.20	15.0	247		1	ICPST	7/11/00	14:13
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:09
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/11/00	14:13
Potassium	766.49	19.8	5000	22000		1	ICPST	7/11/00	14:13
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:13
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:13
Sodium	330.23	155	5000	57000		1	ICPST	7/11/00	14:13
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:13
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:13
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	14:13
Zinc	213.86	1.0	20.0	28.6		1	ICPST	7/11/00	14:13

Comments: Lot #: A0G010106 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM16 Client ID: MPT-G4-GW-12-05
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	77.6	B	1	ICPST	7/11/00	14:18
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:18
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/11/00	14:18
Barium	493.41	0.30	200	13.3	B	1	ICPST	7/11/00	14:18
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:18
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:18
Calcium	317.93	22.4	5000	108000		1	ICPST	7/11/00	14:18
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:18
Cobalt	228.62	0.70	7.0	0.74	B	1	ICPST	7/11/00	14:18
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:18
Iron	271.44	14.9	100	1830		1	ICPST	7/11/00	14:18
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:18
Magnesium	279.08	10.2	5000	7490		1	ICPST	7/11/00	14:18
Manganese	257.61	0.20	15.0	361		1	ICPST	7/11/00	14:18
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:10
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/11/00	14:18
Potassium	766.49	19.8	5000	3880	B	1	ICPST	7/11/00	14:18
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:18
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:18
Sodium	330.23	155	5000	25500		1	ICPST	7/11/00	14:18
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:18
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:18
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	14:18
Zinc	213.86	1.0	20.0	6.0	B	1	ICPST	7/11/00	14:18

Comments: Lot #: A0G010106 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM1E Client ID: MPT-G4-GW-13-06
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	76.8	B	1	ICPST	7/11/00	14:22
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:22
Arsenic	189.04	2.9	10.0	7.2	B	1	ICPST	7/11/00	14:22
Barium	493.41	0.30	200	10.9	B	1	ICPST	7/11/00	14:22
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:22
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:22
Calcium	317.93	22.4	5000	112000		1	ICPST	7/11/00	14:22
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:22
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:22
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:22
Iron	271.44	14.9	100	4370		1	ICPST	7/11/00	14:22
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:22
Magnesium	279.08	10.2	5000	8060		1	ICPST	7/11/00	14:22
Manganese	257.61	0.20	15.0	390		1	ICPST	7/11/00	14:22
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:12
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/11/00	14:22
Potassium	766.49	19.8	5000	2540	B	1	ICPST	7/11/00	14:22
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:22
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:22
Sodium	330.23	155	5000	21700		1	ICPST	7/11/00	14:22
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:22
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:22
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	14:22
Zinc	213.86	1.0	20.0	13.1	B	1	ICPST	7/11/00	14:22

Comments: Lot #: A0G010107 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM1G Client ID: MPT-G4-GW-14-10
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	48.6	B	1	ICPST	7/11/00	14:27
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:27
Arsenic	189.04	2.9	10.0	7.6	B	1	ICPST	7/11/00	14:27
Barium	493.41	0.30	200	6.7	B	1	ICPST	7/11/00	14:27
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:27
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:27
Calcium	317.93	22.4	5000	96500		1	ICPST	7/11/00	14:27
Chromium	267.72	0.80	5.0	0.97	B	1	ICPST	7/11/00	14:27
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:27
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:27
Iron	271.44	14.9	100	748		1	ICPST	7/11/00	14:27
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:27
Magnesium	279.08	10.2	5000	8400		1	ICPST	7/11/00	14:27
Manganese	257.61	0.20	15.0	157		1	ICPST	7/11/00	14:27
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:13
Nickel	231.60	1.3	40.0	2.0	B	1	ICPST	7/11/00	14:27
Potassium	766.49	19.8	5000	12700		1	ICPST	7/11/00	14:27
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:27
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:27
Sodium	330.23	155	5000	31400		1	ICPST	7/11/00	14:27
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:27
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:27
Vanadium	292.40	0.80	7.0	1.2	B	1	ICPST	7/11/00	14:27
Zinc	213.86	1.0	20.0	9.0	B	1	ICPST	7/11/00	14:27

Comments: Lot #: A0G010107 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM1H Client ID: MPT-G4-GW-15-09
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	39.3	B	1	ICPST	7/11/00	14:32
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:32
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/11/00	14:32
Barium	493.41	0.30	200	4.8	B	1	ICPST	7/11/00	14:32
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:32
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:32
Calcium	317.93	22.4	5000	110000		1	ICPST	7/11/00	14:32
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:32
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:32
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:32
Iron	271.44	14.9	100	486		1	ICPST	7/11/00	14:32
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:32
Magnesium	279.08	10.2	5000	6360		1	ICPST	7/11/00	14:32
Manganese	257.61	0.20	15.0	8.8	B	1	ICPST	7/11/00	14:32
Mercury	253.7	0.10	0.20	0.12	B	1	CVAA	7/11/00	11:15
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/11/00	14:32
Potassium	766.49	19.8	5000	5660		1	ICPST	7/11/00	14:32
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:32
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:32
Sodium	330.23	155	5000	20800		1	ICPST	7/11/00	14:32
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:32
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:32
Vanadium	292.40	0.80	7.0	4.4	B	1	ICPST	7/11/00	14:32
Zinc	213.86	1.0	20.0	7.4	B	1	ICPST	7/11/00	14:32

Comments: Lot #: A0G010107 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM1J Client ID: MPT-G4-GW-16-08
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	43.5	B	1	ICPST	7/11/00	14:37
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:37
Arsenic	189.04	2.9	10.0	9.4	B	1	ICPST	7/11/00	14:37
Barium	493.41	0.30	200	12.7	B	1	ICPST	7/11/00	14:37
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:37
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:37
Calcium	317.93	22.4	5000	156000		1	ICPST	7/11/00	14:37
Chromium	267.72	0.80	5.0	1.1	B	1	ICPST	7/11/00	14:37
Cobalt	228.62	0.70	7.0	0.78	B	1	ICPST	7/11/00	14:37
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:37
Iron	271.44	14.9	100	1680		1	ICPST	7/11/00	14:37
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:37
Magnesium	279.08	10.2	5000	8790		1	ICPST	7/11/00	14:37
Manganese	257.61	0.20	15.0	91.0		1	ICPST	7/11/00	14:37
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:17
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/11/00	14:37
Potassium	766.49	19.8	5000	6800		1	ICPST	7/11/00	14:37
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:37
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:37
Sodium	330.23	155	5000	12700		1	ICPST	7/11/00	14:37
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:37
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:37
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/11/00	14:37
Zinc	213.86	1.0	20.0	17.0	B	1	ICPST	7/11/00	14:37

Comments: Lot #: A0G010107 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFMIL Client ID: MPT-G4-GW-17-09
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	67.9	B	1	ICPST	7/11/00	14:53
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:53
Arsenic	189.04	2.9	10.0	3.1	B	1	ICPST	7/11/00	14:53
Barium	493.41	0.30	200	7.0	B	1	ICPST	7/11/00	14:53
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:53
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:53
Calcium	317.93	22.4	5000	119000		1	ICPST	7/11/00	14:53
Chromium	267.72	0.80	5.0	1.1	B	1	ICPST	7/11/00	14:53
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:53
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:53
Iron	271.44	14.9	100	341		1	ICPST	7/11/00	14:53
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:53
Magnesium	279.08	10.2	5000	4320	B	1	ICPST	7/11/00	14:53
Manganese	257.61	0.20	15.0	17.6		1	ICPST	7/11/00	14:53
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	11:18
Nickel	231.60	1.3	40.0	1.9	B	1	ICPST	7/11/00	14:53
Potassium	766.49	19.8	5000	5060		1	ICPST	7/11/00	14:53
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:53
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:53
Sodium	330.23	155	5000	12300		1	ICPST	7/11/00	14:53
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:53
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:53
Vanadium	292.40	0.80	7.0	6.5	B	1	ICPST	7/11/00	14:53
Zinc	213.86	1.0	20.0	3.5	B	1	ICPST	7/11/00	14:53

Comments: Lot #: A0G010107 Sample #: 6

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM1N Client ID: MPT-G4-GW-DU01
 Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	46.2	B	1	ICPST	7/11/00	14:58
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/11/00	14:58
Arsenic	189.04	2.9	10.0	3.2	B	1	ICPST	7/11/00	14:58
Barium	493.41	0.30	200	7.6	B	1	ICPST	7/11/00	14:58
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/11/00	14:58
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/11/00	14:58
Calcium	317.93	22.4	5000	131000		1	ICPST	7/11/00	14:58
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/11/00	14:58
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/11/00	14:58
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/11/00	14:58
Iron	271.44	14.9	100	360		1	ICPST	7/11/00	14:58
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/11/00	14:58
Magnesium	279.08	10.2	5000	4770	B	1	ICPST	7/11/00	14:58
Manganese	257.61	0.20	15.0	19.7		1	ICPST	7/11/00	14:58
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	13:54
Nickel	231.60	1.3	40.0	1.9	B	1	ICPST	7/11/00	14:58
Potassium	766.49	19.8	5000	5610		1	ICPST	7/11/00	14:58
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/11/00	14:58
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/11/00	14:58
Sodium	330.23	155	5000	13600		1	ICPST	7/11/00	14:58
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/11/00	14:58
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/11/00	14:58
Vanadium	292.40	0.80	7.0	6.7	B	1	ICPST	7/11/00	14:58
Zinc	213.86	1.0	20.0	12.3	B	1	ICPST	7/11/00	14:58

Comments: Lot #: A0G010107 Sample #: 7

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-02-05

General Chemistry

Lot-Sample #...: AOF280235-002 Work Order #...: DFF97 Matrix.....: WG
Date Sampled...: 06/27/00 09:00 Date Received...: 06/28/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/07-07/11/00	0189294

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-03-05

General Chemistry

Lot-Sample #....: A0F280235-003 Work Order #....: DFF98 Matrix.....: WG
Date Sampled...: 06/27/00 10:40 Date Received...: 06/28/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/07-07/11/00	0189294

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-04-04

General Chemistry

Lot-Sample #....: A0F280235-004 Work Order #....: DFF99 Matrix.....: WG
Date Sampled....: 06/27/00 12:10 Date Received...: 06/28/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/07-07/11/00	0189294

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-05-04

General Chemistry

Lot-Sample #...: A0F280235-005 Work Order #...: DFF9C Matrix.....: WG
Date Sampled...: 06/27/00 13:55 Date Received...: 06/28/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/07-07/11/00	0189294

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-06-07

General Chemistry

Lot-Sample #....: AOF280235-006 Work Order #....: DFF9D Matrix.....: WG
Date Sampled....: 06/27/00 15:10 Date Received...: 06/28/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/07-07/11/00	0189294

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-07-05

General Chemistry

Lot-Sample #: AOF280235-007 Work Order #: DFF9F Matrix: WG
Date Sampled: 06/27/00 15:50 Date Received: 06/28/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/07-07/11/00	0189294

Dilution Factor: 1

TKTRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-08-05

General Chemistry

Lot-Sample #....: AOG010106-001 Work Order #....: DFM12 Matrix.....: WG
Date Sampled....: 06/28/00 09:10 Date Received...: 06/29/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/12/00	0195177

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-09-11

General Chemistry

Lot-Sample #....: AOG010106-002 Work Order #....: DFM13 Matrix.....: WG
Date Sampled....: 06/28/00 10:30 Date Received...: 06/29/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/12/00	0195177

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-10-10

General Chemistry

Lot-Sample #....: AOG010106-003 Work Order #....: DFMI4 Matrix.....: WG
Date Sampled....: 06/28/00 12:10 Date Received...: 06/29/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/12/00	0195177

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-11-05

General Chemistry

Lot-Sample #....: A0G010106-004 Work Order #....: DFM15 Matrix.....: WG
Date Sampled....: 06/28/00 14:40 Date Received...: 06/29/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/12/00	0195177

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-12-05

General Chemistry

Lot-Sample #....: AOG010106-005 Work Order #....: DFM16 Matrix.....: WG
Date Sampled....: 06/28/00 16:25 Date Received...: 06/29/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/12/00	0195177

Dilution Factor: 1

TETRA TECH BUS, INC.

Client Sample ID: MPT-G4-GW-13-06

General Chemistry

Lot-Sample #....: AOG010107-001 Work Order #....: DFM1E Matrix.....: WG
Date Sampled...: 06/29/00 08:35 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	4.4 B	10.0	ug/L	SW846 9012A	07/13/00	0196107

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NGS, INC.

Client Sample ID: MPT-G4-GW-14-10

General Chemistry

Lot-Sample #....: AOG010107-002 Work Order #....: DFM1G Matrix.....: WG
Date Sampled....: 06/29/00 10:20 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13/00	0196107

Dilution Factor: 1

TETRA TECH NOS, INC.

Client Sample ID: MPT-G4-GW-15-09

General Chemistry

Lot-Sample #....: A0G010107-003 Work Order #....: DFM1H Matrix.....: WG
Date Sampled....: 06/29/00 12:00 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13/00	0196107

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-16-08

General Chemistry

Lot-Sample #....: AOG010107-004 Work Order #....: DFMIJ Matrix.....: WG
Date Sampled....: 06/29/00 15:20 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13/00	0196107

Dilution Factor: 1

TETRA TECH BUS, INC.

Client Sample ID: MPT-G4-GW-17-09

General Chemistry

Lot-Sample #....: A0G010107-006 Work Order #....: DFMLL Matrix.....: WG
Date Sampled....: 06/29/00 15:55 Date Received...: 06/30/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13/00	0196107
	Dilution Factor: 1					

TEIRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-DU01

General Chemistry

Lot-Sample #....: AOG010107-007
Date Sampled....: 06/29/00

Work Order #....: DFMLN
Date Received...: 06/30/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13/00	0196107

Dilution Factor: 1

APPENDIX C
Support Documentation



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed EX 7926 1240 1730				CITY, STATE N Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						CONTAINER TYPE PLASTIC (P) or GLASS (G)					
						PRESERVATIVE USED					
						TYPE OF ANALYSIS					
						TCL VOC 5035/8260		HCl			
						TCL SVOC 8270		H ₂ O ₂			
						TAL Metals + Ti ₂		NaOH			
						Cyanide					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS						COMMENTS
6-29	1500	MPT-G4-SU-17-08	Soil	G	5	X	X	X	X		Cool to 4°C
	1555	MPT-G4-GW-17-09	GW		7	X	X	X	X		
	0000	MPT-G4-GW-DU01	GW		7	X	X	X	X		
	0000	MPT-G4-SU-DU01	Soil		7	X	X	X	X		
		TB062904	W		2	X					
1. RELINQUISHED BY 		DATE 6-29-00	TIME 1900	1. RECEIVED BY 		DATE 6/30/00	TIME 9:11				
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME				
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME				
COMMENTS											

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

3
FORM NO. TINUS-1

PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra									
SAMPLERS (SIGNATURE) Thomas Thompson Chad Wall		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400				ADDRESS 4101 Shuffel Dr NW											
		CARRIER/WAYBILL NUMBER FedEx 7911 0634 4344				CITY, STATE N. Canton, OH											
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED													
DATE YEAR 2000		TIME		SAMPLE ID		MATRIX		GRAB (G) COMP (C)		No. OF CONTAINERS		TYPE OF ANALYSIS TEL VOCs 5035/8260 HCl TEL SVOCs 8270 TAL Metals + Tin Cyanide MNO ₃ NaOH				COMMENTS	
6-29		0745		MPT-G4-SU-13-06		Soil		G		5		X X X X		Cool to 4°C			
		0835		MPT-G4-GW-13-06		GW				7		X X X X					
		0937		MPT-G4-SU-14-09		Soil				5		X X X X					
		1020		MPT-G4-GW-14-10		GW				7		X X X X					
		1115		MPT-G4-SU-15-08		Soil				5		X X X X					
		1200		MPT-G4-GW-15-09		GW				7		X X X X					
		1415		MPT-G4-SU-16-09		Soil				5		X X X X					
		1520		MPT-G4-GW-16-08		GW				7		X X X X					
				TBO62903		W				2		X					
1. RELINQUISHED BY Thomas Thompson		DATE 6-29-00		TIME 1900		1. RECEIVED BY Dore J. ...		DATE 6/30/00		TIME 9-10							
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY		DATE		TIME							
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY		DATE		TIME							
COMMENTS																	

DISTRIBUTION:

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3/99
FORM NO. TINUS-001



PROJECT NO: NO123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. THOMPSON (904) 281-0400				ADDRESS					
		CARRIER/WAYBILL NUMBER Fed Ex: 7911 0569 2234				CITY, STATE N. Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						CONTAINER TYPE PLASTIC (P) or GLASS (G)					
						PRESERVATIVE USED		HCl		HNO3	
								NaOH			
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
6-28	0800	MPT-G4-SU-08-04	S	G	12	X	X	X	X		Cool to 4°C
	0910	MPT-G4-GW-08-05	GW		12	X	X	X	X		
	1030	MPT-G4-GW-09-11	GW		12	X	X	X	X		
	0955	MPT-G4-SU-09-11	S		12	X	X	X	X		
	1120	MPT-G4-SU-10-10	S		12	X	X	X	X		
	1210	MPT-G4-GW-10-10	G		3	X			X		
	1400	MPT-G4-SU-11-06	S		12	X	X	X	X		
	1440	MPT-G4-GW-11-05	GW		3	X			X		
	1540	MPT-G4-SU-12-06	S		12	X	X	X	X		
	1625	MPT-G4-GW-12-05	GW		3	X			X		
1. RELINQUISHED BY		DATE	TIME	1. RECEIVED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
COMMENTS											

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Jun 29 2000 7:42 P.M.

TTNUS JACKSONVILLE Fax: 9042810070



PROJECT NO: No123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) <i>[Signature]</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW						
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 8198 0334 4513				CITY, STATE North Canton, OH 44720						
				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED						
				TYPE OF ANALYSIS		Soil/GW		-1HCl P/G		-1HNO3 G/P		
				TCL VOC		TCL SVOC		TAL Metals + Tin		Cyanide		
DATE YEAR	TIME	SAMPLE ID		MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS					COMMENTS	
6-26		MPT-G4-SU-01-08		Soil	G	5	X	X	X	X		Cool to 4°C
6-26	1600	MPT-G4-GW-01-11		GW		3		X	X			
6-27	0805	MPT-G4-SU-02-05		Soil		5	X	X	X	X		
	0900	MPT-G4-GW-02-05		GW		3		X	X			
	1040	MPT-G4-GW-03-05		GW		3		X	X			
	0935	MPT-G4-SU-03-05		Soil		5	X	X	X	X		
	1120	MPT-G4-SU-04-04		Soil		5	X	X	X	X		
	1210	MPT-G4-GW-04-04		GW		3		X	X			
	1320	MPT-G4-SU-05-04		Soil		5	X	X	X	X		
	1355	MPT-G4-GW-05-04		GW		1		* ⁽¹⁾	X			
	1430	MPT-G4-SU-06-07		Soil	✓	5	X	X	X	X		
1. RELINQUISHED BY <i>[Signature]</i>				DATE 6-27-00	TIME 1700	1. RECEIVED BY <i>[Signature]</i>				DATE	TIME	
2. RELINQUISHED BY				DATE	TIME	2. RECEIVED BY <i>[Signature]</i>				DATE 6/29/00	TIME 9:15	
3. RELINQUISHED BY				DATE	TIME	3. RECEIVED BY				DATE	TIME	

COMMENTS: All GW samples filtered in the field. Time for MPT-G4-SU-01-08 is on sample container label.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)



PROJECT NO: N0123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex 5198 0334 4524				CITY, STATE North Canton, OH 44720					
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED					
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				Soil GW		- HCl -		- HNO ₃ -		- NaOH	
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
6/26	1600	MPT-G4-GW-01-11	GW	G	4	X				X	Cool to 4°C
6/27	0900	MPT-G4-GW-02-05			4	X				X	
	1040	MPT-G4-GW-03-05			4	X				X	
	1210	MPT-G4-GW-04-04			4	X				X	
	1355	MPT-G4-GW-05-04			⑩ 46	X	X			X	
	1510	MPT-G4-GW-06-07			4	X				X	
	1550	MPT-G4-GW-07-05			7	X	X	X		X	
	1625	MPT-G4-SU-07-05	Soil		5	X	X	X		X	
		TBO62701	W		1	X					
1. RELINQUISHED BY 			DATE 6-27-06	TIME 1100	1. RECEIVED BY			DATE	TIME		
2. RELINQUISHED BY			DATE	TIME	2. RECEIVED BY 			DATE 6/28/06	TIME 9:15		
3. RELINQUISHED BY			DATE	TIME	3. RECEIVED BY			DATE	TIME		
COMMENTS All GW samples filtered in the field.											

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

3/99

FORM NO. TINUS-001

SDG NARRATIVE
MP013

The following report contains the analytical results for twenty one water samples and one quality control sample submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received June 28, 29 and 30, 2000, according to documented sample acceptance procedures.

This SDG consists of three (3) laboratory ID's: A0F280235, A0G010106 and A0G010107.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 0.4, 2.6, 1.9, 2.2 and 3.0° C.

(See STL's Cooler Receipt Form for additional information.)

ANALYTICAL METHODS SUMMARY

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SDG NARRATIVE

MP013

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the IDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these value. The continuing calibration blanks and method blanks may not support the lower RL.

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

**SDG NARRATIVE
MP013**

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples MPT-G4-GW-13-06, MPT-G4-GW-14-10, MPT-G4-GW-15-09, MPT-G4-GW-16-08, MPT-G4-GW-17-09 and MPT-G4-GW-DU01 for batch 0196107 were not prepped with the Magnesium Chloride reagent as stated in the SOP.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The analyst used the secondary stock solution, which was a 1 ppm solution, for the Initial Calibration Verification (ICV) for the Total Cyanide analysis on batch 0196107. This should have been diluted within range. The digested LCS passed QC criteria. Due to the use of the 1 ppm standard, the subsequent Initial Calibration Blank (ICB) was out of control. The associated sample results were ND, and the data was reported.

The closing Continuing Calibration Verification (CCV) and Continuing Calibration Blank (CCB) failed. Sample MPT-G4-GW-DU01 associated with batch 0196107 for the Total Cyanide analysis was reanalyzed on July 26, 2000 to verify the original ND results. The reanalysis was performed after the recommended holding time had been exceeded. Only the original results are being reported.

FIELD DUPLICATE PRECISION

COMPOUND	MPT-G4-GW-17-09	MPT-G4-GW-DU01	RPD
	ug/L	ug/L	%
Aluminum	67.9	46.2	38.04 ✓
Antimony	3.1	3.1	0.00 ✓
Arsenic	3.1	3.2	3.17 ✓
Barium	7	7.6	8.22 ✓
Beryllium	0.2	0.2	0.00 ✓
Cadmium	0.3	0.3	0.00 ✓
Calcium	119000	131000	9.60 ✓
Chromium	1.1	0.8	31.58 ✓
Cobalt	0.7	0.7	0.00 ✓
Copper	1.3	1.3	0.00 ✓
Iron	341	360	5.42 ✓
Lead	1.3	1.3	0.00 ✓
Magnesium	4320	4770	9.90 ✓
Manganese	17.6	19.7	11.26 ✓
Mercury	0.1	0.1	0.00 ✓
Nickel	1.9	1.9	0.00 ✓
Potassium	5060	5610	10.31 ✓
Selenium	4.9	4.9	0.00 ✓
Silver	1	1	0.00 ✓
Sodium	12300	13600	10.04 ✓
Thallium	6.3	6.3	0.00 ✓
Tin	2.8	2.8	0.00 ✓
Vanadium	6.5	6.7	3.03 ✓
Zinc	3.5	12.3	111.39 ✓

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOG010107

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Cyanide	5.0 B	10.0	ug/L	SW846 9012A	07/13/00	0196107
		Dilution Factor: 1				

Work Order #: DG6RH101 MB Lot-Sample #: AOG140000-107

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0F280235

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DFTLR101 10.0	ug/L	MB Lot-Sample #: SW846 9012A	A0G070000-294 07/07-07/11/00	0189294

Dilution Factor: 1

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOG010106

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Cyanide	ND	10.0	ug/L	SW846 9012A	07/12/00	0195177

Work Order #: DG4LW101 MB Lot-Sample #: AOG130000-177
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Kun #1

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000713D
 Date of Report : 7/25/00
 Date of Run : 7/13/00
 Operator : TAR
 Comment :

Name of Analysis : CYANIDE2.ANL
 System No. : 2
 Type of System : TRAACS
 Start/Stop time : 18:39 - 19:21

Channel Type :	Real	Data	Data
Channel :	1	1	2
Method :	CYANIDE	Weight	Dilution
Unit :	mg/L	mg/kg	
Calibr. Fit :	Linear		
Corr. Coeff. :	0.9997		
Base :	57		
Gain :	145		
Sensitivity :	0.0404		
Sample Limit 1 :			
Sample Limit 2 :			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0012	0.0000	0.0000
1	1	P Primer	0.0981	1.0000	1.0000
2	2	C 0.1000	0.0998	1.0000	1.0000
3	3	C 0.0500	0.0509	1.0000	1.0000
4	4	C 0.02500	0.0235	1.0000	1.0000
5	5	C 0.0100	0.0104	1.0000	1.0000
6	6	C 0.0050	0.0054	1.0000	1.0000
7	2	H1 High	0.0994	1.0000	1.0000
8	0	L1 Low	0.0025	1.0000	1.0000
9	0	L1 Low	0.0025	1.0000	1.0000
10	0	B Baseline	-0.0012	1.0000	1.0000
11	4	D Drift	0.0226	1.0000	1.0000
12	8	N Null	0.0007N	1.0000	1.0000
13	7	QC1 ICV	0.1733*	1.0000	1.0000
14	8	QC2 ICB	0.0237	1.0000	1.0000
15	9	QC3 PREP BLANK	0.0046	1.0000	1.0000
16	10	QC4 LCS	0.0384 ✓ 1.04	1.0000	1.0000
17	11	S DFPMT	0.0022	1.0000	1.0000
18	12	S DFPMT MS	0.0371	1.0000	1.0000
19	13	S DFPMT MSD	0.0323	1.0000	1.0000
20	14	S DFM1E	0.0044	1.0000	1.0000
21	15	S DFM1G	0.0011	1.0000	1.0000
22	16	S DFM1H	0.0002	1.0000	1.0000
23	17	S DFM1J	0.0023	1.0000	1.0000
24	18	S DFM1L	0.0030	1.0000	1.0000

*Rad source stock
 Solution (1ppm) used
 should have been diluted
 within range*

*(1ppm Distilled)
 96%
 NEAR
 0*

25	3	QC1	CCV	0.0451 ^{1.15}	1.0000	1.0000
26	8	QC2	CCB	0.0003	1.0000	1.0000
27	19	S	DFM1N	0.0010	1.0000	1.0000
28	20	S	DFN4A	0.0009	1.0000	1.0000
29	21	S	DFN4E	0.0007	1.0000	1.0000
30	22	S	DFN4F	0.0016	1.0000	1.0000
31	23	S	DFN4G	-0.0000	1.0000	1.0000
32	24	S	DFN4V	0.1537*	1.0000	1.0000
33	25	S	DFN4X	0.1516*	1.0000	1.0000
34	3	QC1	CCV	0.0795 ^{1.005}	1.0000	1.0000
35	8	QC2	CCB	0.0189	1.0000	1.0000
36	4	D	Drift	0.0226	1.0000	1.0000
37	0	B	FinalBase	-0.0012	1.0000	1.0000

90%
 }
 rerun
 159%
 9mm
 12/17/00

QC Limits

Channel	:	1
QC 1	:	Unused
QC 2	:	Unused
QC 3	:	Unused
QC 4	:	Unused
QC 5	:	Unused
QC 6	:	Unused
QC 7	:	Unused
QC 8	:	Unused
QC 9	:	Unused
QC10	:	Unused

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:	:	0.7

- * ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

** <END OF REPORT> **

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000726B
 Date of Report : 7/26/00
 Date of Run : 7/26/00
 Operator : MEL
 Comment :

Name of Analysis : CYANIDE2.ANL
 System No. : 2
 Type of System : TRAACS
 Start/Stop time : 14:13 - 15:19

Channel Type	:	Real	Data	Data
Channel	:	1	1	2
Method	:	CYANIDE	Weight	Dilution
Unit	:	mg/L	mg/kg	
Calibr. Fit	:	Linear		
Corr. Coeff.	:	0.9998 ✓		
Base	:	51		
Gain	:	169		
Sensitivity	:	0.0325		
Sample Limit 1	:			
Sample Limit 2	:			

*Copy -
 returns from
 7.13/7.14*

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0014	0.0000	0.0000
1	1	P Primer	0.0975	1.0000	1.0000
2	2	C 0.1000	0.0999	1.0000	1.0000
3	3	C 0.0500	0.0506	1.0000	1.0000
4	4	C 0.0250	0.0240	1.0000	1.0000
5	5	C 0.0100	0.0107	1.0000	1.0000
6	6	C 0.0050	0.0048	1.0000	1.0000
7	2	H1 High	0.1024	1.0000	1.0000
8	0	L1 Low	-0.0002	1.0000	1.0000
9	0	L1 Low	-0.0002	1.0000	1.0000
10	0	B Baseline	-0.0014	1.0000	1.0000
11	4	D Drift	0.0237	1.0000	1.0000
12	8	N Null	0.0015N	1.0000	1.0000
13	7	QC1 ICV	0.0438/0.04	1.0000	1.0000 109%
14	8	QC2 ICB	0.0014	1.0000	1.0000
15	9	S PREP BLANK	0.0002	1.0000	1.0000
16	10	S .025	0.0269/0.025	1.0000	1.0000 108%
17	11	S .075	0.0832/0.075	1.0000	1.0000 111%
18	12	S DG4KV	0.0001	1.0000	1.0000
19	13	S DG4KV MS	0.0493	1.0000	1.0000
20	14	S DG4KV MSD	0.0441	1.0000	1.0000
21	15	S DG4L8	0.0018	1.0000	1.0000
22	16	S DG4LE	0.0026	1.0000	1.0000
23	17	S DG4LH	0.0009	1.0000	1.0000
24	18	S DG4LK	0.0028	1.0000	1.0000

25	19	QC1	CCV	0.0527 ^{1.05}	1.0000	1.0000	105%
26	20	QC2	CCB	0.0018	1.0000	1.0000	
27	21	S	DG4LN	0.0018	1.0000	1.0000	
28	19	QC1	CCV	0.0507 ^{1.05}	1.0000	1.0000	101%
29	20	QC2	CCB	0.0012	1.0000	1.0000	
30	22	S	ICV/LCS	0.0433 ^{1.04}	1.0000	1.0000	107%
31	23	S	ICB	0.0013 ^{1.05}	1.0000	1.0000	
32	24	S	PREP BLK	0.0013 ^{1.50}	1.0000	1.0000	.065
33	25	S	DG9LJ	0.0034 ^{1.50}	1.0000	1.0000	.065
34	26	S	DG9LQ	0.0014 ^{1.50}	1.0000	1.0000	.07
35	27	S	DG9LR	0.0020 ^{1.50}	1.0000	1.0000	.10
36	28	S	DG9LT	0.0008 ^{1.50}	1.0000	1.0000	.04
37	29	S	DG9LV	0.0003 ^{1.50}	1.0000	1.0000	.0015
38	30	S	DG9LV MS	0.0418 ^{1.50}	1.0000	1.0000	2.09
39	31	S	DG9LV MSD	0.0406 ^{1.50}	1.0000	1.0000	2.03
40	19	QC1	CCV	0.0503 ^{1.50}	1.0000	1.0000	100%
41	20	QC2	CCB	0.0024	1.0000	1.0000	1.2 NFG 00072L
42	32	S	DG9LW	0.0024 ^{1.50}	1.0000	1.0000	.12
43	33	S	DGA9D	0.0018 ^{1.50}	1.0000	1.0000	.09
44	34	S	DGA9E	0.0033 ^{1.50}	1.0000	1.0000	.165
45	35	S	DGA9F	0.0011 ^{1.50}	1.0000	1.0000	.085
46	36	S	DGA9G	0.0019 ^{1.50}	1.0000	1.0000	.095
47	37	S	DGA9H	0.0027 ^{1.50}	1.0000	1.0000	.135
48	38	S	DGA9K	0.0018 ^{1.50}	1.0000	1.0000	.09
49	39	S	DGA9N	0.0012 ^{1.50}	1.0000	1.0000	.06
50	40	S	DGA9L	0.0016 ^{1.50}	1.0000	1.0000	.08
51	41	S	DGA9P	0.0033 ^{1.50}	1.0000	1.0000	.165
52	19	QC1	CCV	0.0494 ^{1.05}	1.0000	1.0000	100%
53	20	QC2	CCB	0.0009	1.0000	1.0000	1.06 NFG 00072L
54	42	S	DGA9R	0.0012 ^{1.50}	1.0000	1.0000	.06
55	43	S	DGA9T	0.0018 ^{1.50}	1.0000	1.0000	.09
56	44	S	DGA9X	0.0007 ^{1.50}	1.0000	1.0000	.035
57	45	S	DGAA0	0.0017 ^{1.50}	1.0000	1.0000	.085
58	19	QC1	CCV	0.0505 ^{1.05}	1.0000	1.0000	
59	20	QC2	CCB	0.0014	1.0000	1.0000	
60	46	S	DFM1N	0.0017	1.0000	1.0000	} remove from 7.13/7.14 NFG 00072L
61	47	S	DFN4A	0.0011	1.0000	1.0000	
62	48	S	DFN4E	0.0005	1.0000	1.0000	
63	49	S	DFN4F	0.0031	1.0000	1.0000	
64	50	S	DFN4G	0.0012	1.0000	1.0000	
65	19	QC1	CCV	0.0481 ^{1.05}	1.0000	1.0000	96%
66	20	QC2	CCB	0.0023	1.0000	1.0000	
67	0	B	Baseline	-0.0014	1.0000	1.0000	
68	4	D	Drift	0.0237	1.0000	1.0000	
69	0	B	FinalBase	-0.0014	1.0000	1.0000	

0433.50 = 2.165

QC Limits

Channel : 1
QC 1 Unused

Run # 4

0196107

Post-run report

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000714B
 Date of Report : 7/14/00
 Date of Run : ~~7/14/00~~
 Operator : MEL
 Comment :

Name of Analysis : CYANIDE2.ANL
 System No. : 2
 Type of System : TRAACS
 Start/Stop time : 13:47 - 14:14

Channel Type	:	Real	Data	Data
Channel	:	1	1	2
Method	:	CYANIDE	Weight	Dilution
Unit	:	mg/L	mg/kg	
Calibr. Fit	:	Linear		
Corr. Coeff.	:	0.9997		
Base	:	57		
Gain	:	160		
Sensitivity	:	0.0378		
Sample Limit 1	:			
Sample Limit 2	:			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0003	0.0000	0.0000
1	1	P Primer	0.1001	1.0000	1.0000
2	2	C 0.1000	0.1001	1.0000	1.0000
3	3	C 0.0500	0.0503	1.0000	1.0000
4	4	C 0.0250	0.0234	1.0000	1.0000
5	5	C 0.0100	0.0106	1.0000	1.0000
6	6	C 0.0050	0.0056	1.0000	1.0000
7	2	H1 High	0.0990	1.0000	1.0000
8	0	L1 Low	0.0003	1.0000	1.0000
9	0	L1 Low	0.0003	1.0000	1.0000
10	0	B Baseline	-0.0003	1.0000	1.0000
11	4	D Drift	0.0235	1.0000	1.0000
12	8	N Null	0.0013N	1.0000	1.0000
13	7	QC1 CCV	0.0522/05	1.0000	1.0000 104%
14	8	QC2 CCB	0.0013	1.0000	1.0000
15	9	S DFN4V 50X	0.0750.50	1.0000	1.0000 3.75
16	7	QC1 CCV	0.0517/05	1.0000	1.0000 103%
17	8	QC2 CCB	0.0018	1.0000	1.0000
18	0	B Baseline	-0.0003	1.0000	1.0000
19	4	D Drift	0.0235	1.0000	1.0000
20	0	B FinalBase	-0.0003	1.0000	1.0000

QC Limits

Channel	:	1
QC 1	:	Unused
QC 2	:	Unused
QC 3	:	Unused
QC 4	:	Unused
QC 5	:	Unused
QC 6	:	Unused
QC 7	:	Unused
QC 8	:	Unused
QC 9	:	Unused
QC10	:	Unused

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
	§:	1.4

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 7/11/00 9:02 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10718c.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 7/18/00 1:27 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60711a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/11/00 9:45 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.3	U								
Antimony	206.838	10	-3.9	B								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.3	B								
Beryllium	313.042	5	0.3	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	22.4	U								
Chromium	267.716	5	0.8	U								
Cobalt	228.616	7	1.3	B								
Copper	324.753	25	1.3	U								
Iron	271.441	100	14.9	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	17.1	B								
Manganese	257.61	15	0.3	B								
Nickel	231.604	40	1.3	U								
Potassium	766.491	5000	26.6	B								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.4	B								
Sodium	330.232	5000	155.0	U								
Thallium	190.864	10	6.3	U								
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	0.8	U								
Zinc	213.856	20	1.0	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60718b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/18/00 2:14 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.3	U								
Antimony	206.838	10	-5.0	B								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.4	B								
Beryllium	313.042	5	0.4	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	22.4	U								
Chromium	267.716	5	0.8	U								
Cobalt	228.616	7	0.7	B								
Copper	324.753	25	1.3	U								
Iron	271.441	100	14.9	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	16.3	B								
Manganese	257.61	15	0.2	U								
Nickel	231.604	40	1.3	U								
Potassium	766.491	5000	19.8	U								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.0	U								
Sodium	330.232	5000	-190.0	B								
Thallium	190.864	10	6.3	U								
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	0.8	U								
Zinc	213.856	20	1.0	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 9:06 AM	Ck1CCB 7/11/00 9:22 AM	Ck1CCB 7/11/00 9:35 AM	Ck1CCB 7/11/00 9:51 AM	Ck1CCB 7/11/00 10:06 AM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 10:21 AM	Ck1CCB 7/11/00 10:36 AM	Ck1CCB 7/11/00 10:51 AM	Ck1CCB 7/11/00 11:07 AM	Ck1CCB 7/11/00 11:21 AM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 1:52 PM		Ck1CCB 7/11/00 2:07 PM					
			Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U				

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10718c.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/18/00 1:30 PM	Ck1CCB 7/18/00 1:46 PM	Ck1CCB 7/18/00 2:00 PM		
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U		

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60711a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/11/00 10:19 AM		CCB 7/11/00 11:34 AM		CCB 7/11/00 12:42 PM		CCB 7/11/00 1:47 PM		CCB 7/11/00 2:48 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	19.0	B	10.3	U	10.3	U	10.3	U	10.3	U
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Barium	493.409	200	0.5	B	0.5	B	0.6	B	0.5	B	0.6	B
Beryllium	313.042	5	0.4	B	0.4	B	0.5	B	0.4	B	0.5	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	23.5	B	22.4	U	22.4	U	22.4	U	22.4	U
Chromium	267.716	5	0.8	U	0.8	B	1.0	B	0.8	U	0.8	U
Cobalt	228.616	7	1.0	B	0.9	B	1.1	B	0.7	U	0.8	B
Copper	324.753	25	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Iron	271.441	100	17.5	B	14.9	U	14.9	U	14.9	U	14.9	U
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	29.7	B	10.9	B	13.5	B	13.2	B	12.9	B
Manganese	257.61	15	0.4	B	0.4	B	0.6	B	0.4	B	0.5	B
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Potassium	766.491	5000	19.8	U	23.2	B	29.1	B	19.8	U	19.8	U
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U
Silver	328.068	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Sodium	330.232	5000	156.0	B	177.0	B	591.0	B	172.0	B	179.0	B
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
Tin	189.989	50	2.8	U	2.8	U	3.8	B	2.8	U	2.8	U
Vanadium	292.402	7	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Zinc	213.856	20	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60711a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/11/00 3:53 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	-17.0	B								
Antimony	206.838	10	3.1	U								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.6	B								
Beryllium	313.042	5	0.5	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	22.4	U								
Chromium	267.716	5	1.1	B								
Cobalt	228.616	7	1.0	B								
Copper	324.753	25	-2.0	B								
Iron	271.441	100	14.9	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	16.8	B								
Manganese	257.61	15	0.6	B								
Nickel	231.604	40	1.3	U								
Potassium	766.491	5000	30.7	B								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.0	U								
Sodium	330.232	5000	206.0	B								
Thallium	190.864	10	6.3	U								
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	0.8	U								
Zinc	213.856	20	1.0	U								

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60718b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/18/00 2:59 PM		CCB 7/18/00 4:00 PM		CCB 7/18/00 5:07 PM		CCB 7/18/00 6:09 PM			
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	10.5	B	10.3	U	10.3	U	10.3	U		
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U		
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U		
Barium	493.409	200	0.5	B	0.7	B	0.7	B	0.7	B		
Beryllium	313.042	5	0.6	B	0.8	B	0.7	B	0.7	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U		
Calcium	317.933	5000	22.4	U	40.5	B	22.4	U	22.4	U		
Chromium	267.716	5	0.8	U	0.8	U	0.8	U	0.8	U		
Cobalt	228.616	7	0.7	U	0.9	B	0.7	U	0.7	U		
Copper	324.753	25	1.3	U	2.8	B	1.3	U	1.3	U		
Iron	271.441	100	23.6	B	14.9	U	14.9	U	14.9	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	36.5	B	25.3	B	13.1	B	12.8	B		
Manganese	257.61	15	0.6	B	0.8	B	0.5	B	0.5	B		
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U		
Potassium	766.491	5000	19.8	U	19.8	U	19.8	U	19.8	U		
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U		
Silver	328.068	5	1.0	U	1.0	U	1.0	U	1.0	U		
Sodium	330.232	5000	-220.0	B	155.0	U	155.0	U	155.0	U		
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U		
Tin	189.989	50	2.8	U	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	7	0.8	B	0.8	U	0.8	U	0.8	U		
Zinc	213.856	20	-3.5	B	-3.1	B	-3.4	B	-3.1	B		

STL North Canton

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFW3LB

Matrix: Water Units: ug/L Prep Date: 7/10/00 Prep Batch: 0190100

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.3	200	34.3	B	1	ICPST	7/11/00	13:19
Antimony	206.838	3.1	10.0	3.1	U	1	ICPST	7/11/00	13:19
Arsenic	189.042	2.9	10.0	2.9	U	1	ICPST	7/11/00	13:19
Barium	493.409	0.30	200	0.63	B	1	ICPST	7/11/00	13:19
Beryllium	313.042	0.20	5.0	0.20	U	1	ICPST	7/11/00	13:19
Cadmium	226.502	0.30	2.0	0.30	U	1	ICPST	7/11/00	13:19
Calcium	317.933	22.4	5000	334	B	1	ICPST	7/11/00	13:19
Chromium	267.716	0.80	5.0	0.80	U	1	ICPST	7/11/00	13:19
Cobalt	228.616	0.70	7.0	0.70	U	1	ICPST	7/11/00	13:19
Copper	324.753	1.3	25.0	1.3	U	1	ICPST	7/11/00	13:19
Iron	271.441	14.9	100	14.9	U	1	ICPST	7/11/00	13:19
Lead	220.353	1.3	3.0	1.3	U	1	ICPST	7/11/00	13:19
Magnesium	279.078	10.2	5000	17.3	B	1	ICPST	7/11/00	13:19
Manganese	257.61	0.20	15.0	0.94	B	1	ICPST	7/11/00	13:19
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	10:58
Nickel	231.604	1.3	40.0	1.3	U	1	ICPST	7/11/00	13:19
Potassium	766.491	19.8	5000	19.8	U	1	ICPST	7/11/00	13:19
Selenium	196.026	4.9	5.0	4.9	U	1	ICPST	7/11/00	13:19
Silver	328.068	1.0	5.0	1.0	U	1	ICPST	7/11/00	13:19
Sodium	330.232	155	5000	212	B	1	ICPST	7/11/00	13:19
Thallium	190.864	6.3	10.0	6.3	U	1	ICPST	7/11/00	13:19
Tin	189.989	2.8	50.0	2.8	U	1	ICPST	7/11/00	13:19
Vanadium	292.402	0.80	7.0	0.80	U	1	ICPST	7/11/00	13:19
Zinc	213.856	1.0	20.0	9.5	B	1	ICPST	7/11/00	13:19

Comments: Lot #: A0G010107

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DGAXCB

Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.3	200	139	B	1	ICPST	7/18/00	16:28
Antimony	206.838	3.1	10.0	3.1	U	1	ICPST	7/18/00	16:28
Arsenic	189.042	2.9	10.0	2.9	U	1	ICPST	7/18/00	16:28
Barium	493.409	0.30	200	0.30	U	1	ICPST	7/18/00	16:28
Beryllium	313.042	0.20	5.0	0.20	U	1	ICPST	7/18/00	16:28
Cadmium	226.502	0.30	2.0	0.30	U	1	ICPST	7/18/00	16:28
Calcium	317.933	22.4	5000	75.1	B	1	ICPST	7/18/00	16:28
Chromium	267.716	0.80	5.0	0.80	U	1	ICPST	7/18/00	16:28
Cobalt	228.616	0.70	7.0	0.70	U	1	ICPST	7/18/00	16:28
Copper	324.753	1.3	25.0	1.3	U	1	ICPST	7/18/00	16:28
Iron	271.441	14.9	100	81.5	B	1	ICPST	7/18/00	16:28
Lead	220.353	1.3	3.0	1.3	U	1	ICPST	7/18/00	16:28
Magnesium	279.078	10.2	5000	10.2	U	1	ICPST	7/18/00	16:28
Manganesec	257.61	0.20	15.0	11.9	B	1	ICPST	7/18/00	16:28
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/18/00	13:32
Nickel	231.604	1.3	40.0	1.3	U	1	ICPST	7/18/00	16:28
Potassium	766.491	19.8	5000	19.8	U	1	ICPST	7/18/00	16:28
Selenium	196.026	4.9	5.0	4.9	U	1	ICPST	7/18/00	16:28
Silver	328.068	1.0	5.0	1.0	U	1	ICPST	7/18/00	16:28
Sodium	330.232	155	5000	155	U	1	ICPST	7/18/00	16:28
Thallium	190.864	6.3	10.0	6.3	U	1	ICPST	7/18/00	16:28
Tin	189.989	2.8	50.0	2.8	U	1	ICPST	7/18/00	16:28
Vanadium	292.402	0.80	7.0	0.80	U	1	ICPST	7/18/00	16:28
Zinc	213.856	1.0	20.0	3.7	B	1	ICPST	7/18/00	16:28

Comments: Lot #: A0F280235

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DFE8VL
 Original Sample ID: DFE8V Client ID: MPT-G4-GW-01-11
 Matrix: Water Units: ug/L Prep Date: 7/17/00 Prep Batch: 0199227
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	11.8	B	51.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Antimony	206.838	3.1	U	15.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Arsenic	189.042	2.9	U	14.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Barium	493.409	3.7	B	4.7	B		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Beryllium	313.042	0.20	U	1.2	B		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Cadmium	226.502	0.30	U	1.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Calcium	317.933	79900		78700		1.5 %	1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Chromium	267.716	0.80	U	4.0	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Cobalt	228.616	0.70	U	3.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Copper	324.753	1.3	U	6.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Iron	271.441	110		74.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Lead	220.353	1.3	U	6.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Magnesium	279.078	9980		9820	B	1.7 %	1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Manganese	257.61	15.9		18.8	BL	18.4 %	1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Nickel	231.604	5.4	B	9.8	B		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Potassium	766.491	4360	B	4010	B	8.1 %	1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Selenium	196.026	4.9	U	24.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Silver	328.068	1.0	U	5.0	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Sodium	330.232	22100		21000	B	5.0 %	1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Thallium	190.864	6.3	U	31.5	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Tin	189.989	2.8	U	14.0	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Vanadium	292.402	0.80	U	4.0	U		1	5	ICPST	7/18/00	16:39	7/18/00	16:44
Zinc	213.856	1.0	U	8.6	B		1	5	ICPST	7/18/00	16:39	7/18/00	16:44

Comments: _____

- U Result is less than the IDL
- B Result is between IDL and RL
- L Serial dilution percent difference not within limits

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	3/21/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	10.3	4/18/00
Antimony	206.84	10	3.1	4/18/00
Arsenic	189.04	10	2.9	4/18/00
Barium	493.41	200	0.30	4/18/00
Beryllium	313.04	5	0.20	4/18/00
Cadmium	226.50	2	0.30	4/18/00
Calcium	317.93	5000	22.4	4/18/00
Chromium	267.72	5	0.80	4/18/00
Cobalt	228.62	7	0.70	4/18/00
Copper	324.75	25	1.3	4/18/00
Iron	271.44	100	14.9	4/18/00
Lead	220.35	3	1.3	4/18/00
Magnesium	279.08	5000	10.2	4/18/00
Manganese	257.61	15	0.20	4/18/00
Nickel	231.60	40	1.3	4/18/00
Potassium	766.49	5000	19.8	4/18/00
Selenium	196.03	5	4.9	4/18/00
Silver	328.07	5	1.0	4/18/00
Sodium	330.23	5000	155	4/18/00
Thallium	190.86	10	6.3	4/18/00
Tin	189.99	50	2.8	4/18/00
Vanadium	292.40	7	0.80	4/18/00
Zinc	213.86	20	1.0	4/18/00

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60711a.arc

Sample Name	Date of Analysis	Time of Analysis
S0	7/11/00	9:22 AM
CALSTD	7/11/00	9:27 AM
CAL 2	7/11/00	9:32 AM
S100	7/11/00	9:35 AM
ICV	7/11/00	9:38 AM
ICB	7/11/00	9:45 AM
CRI	7/11/00	9:50 AM
ICSA	7/11/00	9:56 AM
ICSAB	7/11/00	10:05 AM
CCV	7/11/00	10:12 AM
CCB	7/11/00	10:19 AM
ZZZZZZ	7/11/00	10:25 AM
ZZZZZZ	7/11/00	10:29 AM
ZZZZZZ	7/11/00	10:33 AM
ZZZZZZ	7/11/00	10:38 AM
ZZZZZZ	7/11/00	10:43 AM
ZZZZZZ	7/11/00	10:47 AM
ZZZZZZ	7/11/00	10:52 AM
CCV	7/11/00	11:27 AM
CCB	7/11/00	11:34 AM
ZZZZZZ	7/11/00	11:39 AM
ZZZZZZ	7/11/00	11:45 AM
ZZZZZZ	7/11/00	11:52 AM
ZZZZZZ	7/11/00	11:57 AM
ZZZZZZ	7/11/00	12:03 PM
ZZZZZZ	7/11/00	12:08 PM
ZZZZZZ	7/11/00	12:15 PM
ZZZZZZ	7/11/00	12:19 PM
ZZZZZZ	7/11/00	12:26 PM
ZZZZZZ	7/11/00	12:31 PM
CCV	7/11/00	12:36 PM
CCB	7/11/00	12:42 PM
ZZZZZZ	7/11/00	12:47 PM
ZZZZZZ	7/11/00	12:52 PM
ZZZZZZ	7/11/00	12:57 PM
ZZZZZZ	7/11/00	1:01 PM
ZZZZZZ	7/11/00	1:08 PM
ZZZZZZ	7/11/00	1:13 PM
DFW3LB	7/11/00	1:19 PM
DFW3LC	7/11/00	1:24 PM
DFM12	7/11/00	1:31 PM

SIL NORTH CANTON

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60711a.arc

Sample Name	Date of Analysis	Time of Analysis
DFM12L	7/11/00	1:36 PM
CCV	7/11/00	1:40 PM
CCB	7/11/00	1:47 PM
DFM12S	7/11/00	1:52 PM
DFM12D	7/11/00	1:57 PM
DFM13	7/11/00	2:03 PM
DFM14	7/11/00	2:08 PM
DFM15	7/11/00	2:13 PM
DFM16	7/11/00	2:18 PM
DFM1E	7/11/00	2:22 PM
DFM1G	7/11/00	2:27 PM
DFM1H	7/11/00	2:32 PM
DFM1J	7/11/00	2:37 PM
CCV	7/11/00	2:42 PM
CCB	7/11/00	2:48 PM
DFM1L	7/11/00	2:53 PM
DFM1N	7/11/00	2:58 PM
ZZZZZZ	7/11/00	3:05 PM
ZZZZZZ	7/11/00	3:09 PM
ZZZZZZ	7/11/00	3:16 PM
ZZZZZZ	7/11/00	3:21 PM
ZZZZZZ	7/11/00	3:26 PM
ZZZZZZ	7/11/00	3:30 PM
ZZZZZZ	7/11/00	3:37 PM
ZZZZZZ	7/11/00	3:42 PM
CCV	7/11/00	3:47 PM
CCB	7/11/00	3:53 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60718b.arc

Sample Name	Date of Analysis	Time of Analysis
SO	7/18/00	1:51 PM
CALSTD	7/18/00	1:56 PM
CAL 2	7/18/00	2:01 PM
S100	7/18/00	2:04 PM
ICV	7/18/00	2:08 PM
ICB	7/18/00	2:14 PM
CRI	7/18/00	2:19 PM
ZZZZZ	7/18/00	2:24 PM
ZZZZZ	7/18/00	2:29 PM
ZZZZZ	7/18/00	2:33 PM
ICSA	7/18/00	2:40 PM
ICSAB	7/18/00	2:46 PM
CCV	7/18/00	2:53 PM
CCB	7/18/00	2:59 PM
ZZZZZ	7/18/00	3:04 PM
ZZZZZ	7/18/00	3:09 PM
ZZZZZ	7/18/00	3:15 PM
ZZZZZ	7/18/00	3:20 PM
ZZZZZ	7/18/00	3:25 PM
ZZZZZ	7/18/00	3:30 PM
ZZZZZ	7/18/00	3:35 PM
ZZZZZ	7/18/00	3:39 PM
ZZZZZ	7/18/00	3:44 PM
ZZZZZ	7/18/00	3:49 PM
CCV	7/18/00	3:54 PM
CCB	7/18/00	4:00 PM
ZZZZZ	7/18/00	4:05 PM
ZZZZZ	7/18/00	4:12 PM
ZZZZZ	7/18/00	4:17 PM
ZZZZZ	7/18/00	4:21 PM
DGAXCB	7/18/00	4:28 PM
DGAXCC	7/18/00	4:33 PM
DFF8V	7/18/00	4:39 PM
DFF8VL	7/18/00	4:44 PM
DFF8VS	7/18/00	4:49 PM
DFF8VD	7/18/00	4:54 PM
CCV	7/18/00	5:00 PM
CCB	7/18/00	5:07 PM
DFF97	7/18/00	5:12 PM
DFF98	7/18/00	5:17 PM
DFF99	7/18/00	5:21 PM

SIL NORTH CANTON

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60718b.arc

Sample Name	Date of Analysis	Time of Analysis
DF9C	7/18/00	5:26 PM
DF9D	7/18/00	5:31 PM
DF9F	7/18/00	5:36 PM
ZZZZZZ	7/18/00	5:42 PM
ZZZZZZ	7/18/00	5:47 PM
ZZZZZZ	7/18/00	5:53 PM
ZZZZZZ	7/18/00	5:58 PM
CCV	7/18/00	6:03 PM
CCB	7/18/00	6:09 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.prn

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/11/00	8:53 AM
Std2Rep1	7/11/00	8:54 AM
Std3Rep1	7/11/00	8:55 AM
Std4Rep1	7/11/00	8:57 AM
Std5Rep1	7/11/00	8:58 AM
Std6Rep1	7/11/00	8:59 AM
Ck5ICV	7/11/00	9:01 AM
Ck4ICB	7/11/00	9:02 AM
Ck3CRA	7/11/00	9:04 AM
Ck2CCV	7/11/00	9:05 AM
Ck1CCB	7/11/00	9:06 AM
ZZZZZZ	7/11/00	9:08 AM
ZZZZZZ	7/11/00	9:09 AM
ZZZZZZ	7/11/00	9:10 AM
ZZZZZZ	7/11/00	9:12 AM
ZZZZZZ	7/11/00	9:13 AM
ZZZZZZ	7/11/00	9:14 AM
ZZZZZZ	7/11/00	9:15 AM
ZZZZZZ	7/11/00	9:16 AM
ZZZZZZ	7/11/00	9:18 AM
ZZZZZZ	7/11/00	9:19 AM
Ck2CCV	7/11/00	9:20 AM
Ck1CCB	7/11/00	9:22 AM
ZZZZZZ	7/11/00	9:23 AM
ZZZZZZ	7/11/00	9:24 AM
ZZZZZZ	7/11/00	9:25 AM
ZZZZZZ	7/11/00	9:26 AM
ZZZZZZ	7/11/00	9:27 AM
ZZZZZZ	7/11/00	9:29 AM
ZZZZZZ	7/11/00	9:30 AM
ZZZZZZ	7/11/00	9:31 AM
ZZZZZZ	7/11/00	9:32 AM
ZZZZZZ	7/11/00	9:33 AM
Ck2CCV	7/11/00	9:34 AM
Ck1CCB	7/11/00	9:35 AM
ZZZZZZ	7/11/00	9:37 AM
ZZZZZZ	7/11/00	9:38 AM
ZZZZZZ	7/11/00	9:39 AM
ZZZZZZ	7/11/00	9:40 AM
ZZZZZZ	7/11/00	9:41 AM
ZZZZZZ	7/11/00	9:43 AM

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.prn

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/11/00	9:44 AM
ZZZZZZ	7/11/00	9:46 AM
ZZZZZZ	7/11/00	9:47 AM
ZZZZZZ	7/11/00	9:48 AM
Ck2CCV	7/11/00	9:49 AM
Ck1CCB	7/11/00	9:51 AM
ZZZZZZ	7/11/00	9:52 AM
ZZZZZZ	7/11/00	9:54 AM
ZZZZZZ	7/11/00	9:55 AM
ZZZZZZ	7/11/00	9:56 AM
ZZZZZZ	7/11/00	9:57 AM
ZZZZZZ	7/11/00	9:58 AM
ZZZZZZ	7/11/00	9:59 AM
ZZZZZZ	7/11/00	10:01 AM
ZZZZZZ	7/11/00	10:02 AM
ZZZZZZ	7/11/00	10:03 AM
Ck2CCV	7/11/00	10:04 AM
Ck1CCB	7/11/00	10:06 AM
ZZZZZZ	7/11/00	10:07 AM
ZZZZZZ	7/11/00	10:08 AM
ZZZZZZ	7/11/00	10:09 AM
ZZZZZZ	7/11/00	10:11 AM
ZZZZZZ	7/11/00	10:12 AM
ZZZZZZ	7/11/00	10:13 AM
ZZZZZZ	7/11/00	10:15 AM
ZZZZZZ	7/11/00	10:16 AM
ZZZZZZ	7/11/00	10:17 AM
ZZZZZZ	7/11/00	10:18 AM
Ck2CCV	7/11/00	10:20 AM
Ck1CCB	7/11/00	10:21 AM
ZZZZZZ	7/11/00	10:22 AM
ZZZZZZ	7/11/00	10:23 AM
ZZZZZZ	7/11/00	10:24 AM
ZZZZZZ	7/11/00	10:26 AM
ZZZZZZ	7/11/00	10:27 AM
ZZZZZZ	7/11/00	10:28 AM
ZZZZZZ	7/11/00	10:29 AM
ZZZZZZ	7/11/00	10:31 AM
ZZZZZZ	7/11/00	10:32 AM
ZZZZZZ	7/11/00	10:33 AM
Ck2CCV	7/11/00	10:34 AM

STL NORTH CANTON

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.prn

Sample Name	Date of Analysis	Time of Analysis
Ck1CCB	7/11/00	10:36 AM
ZZZZZZ	7/11/00	10:37 AM
ZZZZZZ	7/11/00	10:38 AM
ZZZZZZ	7/11/00	10:39 AM
ZZZZZZ	7/11/00	10:40 AM
ZZZZZZ	7/11/00	10:42 AM
ZZZZZZ	7/11/00	10:43 AM
ZZZZZZ	7/11/00	10:45 AM
ZZZZZZ	7/11/00	10:46 AM
ZZZZZZ	7/11/00	10:47 AM
ZZZZZZ	7/11/00	10:49 AM
Ck2CCV	7/11/00	10:50 AM
Ck1CCB	7/11/00	10:51 AM
ZZZZZZ	7/11/00	10:52 AM
ZZZZZZ	7/11/00	10:54 AM
ZZZZZZ	7/11/00	10:55 AM
ZZZZZZ	7/11/00	10:56 AM
DFW3LB	7/11/00	10:58 AM
DFW3LC	7/11/00	10:59 AM
DFM12	7/11/00	11:00 AM
DFM12S	7/11/00	11:01 AM
DFM12D	7/11/00	11:03 AM
DFM13	7/11/00	11:04 AM
Ck2CCV	7/11/00	11:05 AM
Ck1CCB	7/11/00	11:07 AM
DFM14	7/11/00	11:08 AM
DFM15	7/11/00	11:09 AM
DFM16	7/11/00	11:10 AM
DFM1E	7/11/00	11:12 AM
DFM1G	7/11/00	11:13 AM
DFM1H	7/11/00	11:15 AM
DFM1J	7/11/00	11:17 AM
DFM1L	7/11/00	11:18 AM
Ck2CCV	7/11/00	11:19 AM
Ck1CCB	7/11/00	11:21 AM
Ck2CCV	7/11/00	1:51 PM
Ck1CCB	7/11/00	1:52 PM
DFMIN	7/11/00	1:54 PM
ZZZZZZ	7/11/00	1:55 PM
ZZZZZZ	7/11/00	1:56 PM
ZZZZZZ	7/11/00	1:57 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.pn

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/11/00	1:58 PM
ZZZZZZ	7/11/00	2:00 PM
ZZZZZZ	7/11/00	2:01 PM
ZZZZZZ	7/11/00	2:02 PM
ZZZZZZ	7/11/00	2:04 PM
ZZZZZZ	7/11/00	2:05 PM
CK2CCV	7/11/00	2:06 PM
CK1CCB	7/11/00	2:07 PM

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10718c.prn

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/18/00	1:13 PM
Std1Rep1	7/18/00	1:18 PM
Std2Rep1	7/18/00	1:20 PM
Std3Rep1	7/18/00	1:21 PM
Std4Rep1	7/18/00	1:22 PM
Std5Rep1	7/18/00	1:23 PM
Std6Rep1	7/18/00	1:24 PM
Ck5ICV	7/18/00	1:26 PM
Ck4ICB	7/18/00	1:27 PM
Ck3CRA	7/18/00	1:28 PM
Ck2CCV	7/18/00	1:29 PM
Ck1CCB	7/18/00	1:30 PM
DGAXCB	7/18/00	1:32 PM
DGAXCC	7/18/00	1:33 PM
DFF8V	7/18/00	1:34 PM
DFF8VS	7/18/00	1:36 PM
DFF8VD	7/18/00	1:37 PM
DFF9C	7/18/00	1:38 PM
DFF9D	7/18/00	1:39 PM
DFF9F	7/18/00	1:41 PM
DFF97	7/18/00	1:42 PM
DFF98	7/18/00	1:43 PM
Ck2CCV	7/18/00	1:45 PM
Ck1CCB	7/18/00	1:46 PM
DFF99	7/18/00	1:47 PM
ZZZZZZ	7/18/00	1:48 PM
ZZZZZZ	7/18/00	1:49 PM
ZZZZZZ	7/18/00	1:50 PM
ZZZZZZ	7/18/00	1:51 PM
ZZZZZZ	7/18/00	1:53 PM
ZZZZZZ	7/18/00	1:54 PM
ZZZZZZ	7/18/00	1:55 PM
ZZZZZZ	7/18/00	1:57 PM
ZZZZZZ	7/18/00	1:58 PM
Ck2CCV	7/18/00	1:59 PM
Ck1CCB	7/18/00	2:00 PM

Errors NOCHECK NOCHECK NOCHECK
Value
Range

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12338	--	--	--	--	--	--
SDev	24.04163	--	--	--	--	--	--
%RSD	.1948663	--	--	--	--	--	--
#1	12354	--	--	--	--	--	--
#2	12320	--	--	--	--	--	--

YAP 12-5-00

Method: TOTAL Sample Name: DFM1L Operator: MJC

Run Time: 07/11/00 14:53:36

MPT-64-6W-17-09

Chromium

Operator: MJC

Comment:

Mode: CONC Corr. Factor: 1

1.132 ppb = 1.1 ug/L Imm 9/14/00

Elem	Ag	Al	As	B	Ba	Be	Ca
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.5355	67.89	3.135	127.9	7.013	.1763	118500.
SDev	.2288	2.19	1.460	1.6	.031	.0377	41.
%RSD	42.72	3.230	46.58	1.231	.4389	21.36	.0350
#1	.3737	66.34	4.168	129.1	6.991	.2029	118500.
#2	.6972	69.44	2.103	126.8	7.035	.1497	118400.

Errors	LC Pass						
High	2000.	500000.	10000.	50000.	25000.	4000.	600000.
Low	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.1278	.4775	1.132	-1.085	341.3	5061.	4320.
SDev	.1036	.1217	.219	.221	10.0	1.	3.
%RSD	81.03	25.49	19.39	20.37	2.933	.0140	.0793
#1	.0546	.5635	1.287	-.9291	348.4	5062.	4322.
#2	.2011	.3914	.9768	-1.242	334.2	5061.	4317.

Errors	LC Pass						
High	2500.	50000.	50000.	30000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.

Elem	Mn	Mo	Na3102	Ni	Pb	Se	Sb
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	17.55	11.44	12250.	1.848	-1.122	2.496	.1579
SDev	.02	.14	24.	.361	.077	.399	.3416
%RSD	.0986	1.230	.1952	19.52	6.840	15.98	216.4
#1	17.54	11.34	12240.	1.593	-1.177	2.214	.3994
#2	17.57	11.53	12270.	2.103	-1.068	2.778	-.0837

Errors	LC Pass						
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.

Date: 11/17/00

VOA

The following compounds were detected in field quality control blanks* and laboratory method blanks:

<u>Compound</u>	<u>Maximum concentration (ug/L)</u>	<u>Action Level (ug/L)</u>
Benzene	0.11	0.55
*Methylene chloride	3.3	33.0
*Toluene	0.52	2.6
*1,1-dichloroethene	7.6	38.0
*Ethylbenzene	0.16	0.8
*Acetone	1.6	16.0
*4-methyl-2-pentanone	0.5	2.5

Sample aliquot and dilution factors were taken into consideration when applying the blank action level. Positive results less than blank action levels were qualified as undetected (U) in the affected samples. Field quality control blanks were not qualified on the basis of laboratory method blank contamination.

Initial calibration Relative Response Factors (RRFs) fell below the 0.05 quality control limit for acrolein, acetonitrile, propionitrile and isobutyl alcohol on 7/7/00, on instrument A3UX7. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

An initial calibration % Relative Standard Deviation (%RSD) exceeded the 30% (but <50%) quality control limit for acetone on 7/7/00, on instrument A3UX7. The positive results reported for acetone were *previously qualified for blank contamination and did not require further qualification. The positive results for acetone in the trip blanks were qualified as estimated (J).

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/8/00, 09:28, on instrument A3UX7. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification %Differences (%Ds) exceeded the 25% quality control limit for acrolein, vinyl acetate and trans-1,4-dichloro-2-butene on 7/8/00, 09:28, on instrument A3UX7. Only nondetected results were reported for vinyl acetate and trans-1,4-dichloro-2-butene and these were qualified as estimated (UJ) in the affected samples. The nondetected result reported for acrolein was previously qualified for the above RRF noncompliance and did not require further qualification.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for propionitrile and isobutyl alcohol on 7/8/00, 09:55, on instrument A3UX7. Only nondetected results were reported for propionitrile and isobutyl alcohol and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/11/00, 08:46, on instrument A3UX7. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for trichlorofluoromethane, carbon tetrachloride, dibromochloromethane and bromoform on 7/11/00, 08:46, on instrument A3UX7. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U	B	1	U		1	U		1	U	B
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

Date: 11/16/00

A continuing calibration verification %D exceeded the 25% quality control limit for 1,3,5-trinitrobenzene on 7/7/00, 09:22, on instrument A4HP7. Only nondetected results were reported for 1,3,5-trinitrobenzene, which were previously qualified for initial calibration noncompliance and did not require further qualification.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 2,4-dinitrophenol and 4-nitrophenol on 7/12/00, 11:44, on instrument A4HP7. Only nondetected results were reported for 2,4-dinitrophenol and 4-nitrophenol and these were qualified as estimated (UJ) in the affected samples.

Initial calibration % RSDs exceeded the 30% (but <50%) quality control limit for 4-nitroquinoline-1-oxide and p-phenylamine diamine on 7/8/00, on instrument A4HP6. Only nondetected results were reported for 4-nitroquinoline-1-oxide and p-phenylamine diamine, which do not require qualification based on this calibration noncompliance.

Continuing calibration verification %Ds exceeded the 25% quality control limit for a,a-dimethyl phenethylamine, 7,12-dimethylbenz(A)anthracene and 3-methylcholanthrene on 7/11/00, 07:52, on instrument A4HP6. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

Additional Comments

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

The laboratory received a trip blank that was not on the chain of custody documentation. The sample named "Trip Blank" by the laboratory is reflected on the form 1 results. The sample named Trip Blank on the form 1 corresponds to TB062801 of the electronic deliverable.

Sample MPT-G4-GW-06-07 was not on the chain of custody documentation for semivolatile analysis, but was recorded on the vial label.

The volatile Matrix Spike and Matrix Spike Duplicate (MS/MSD) for sample MPT-G4-GW-08-05 had % recoveries that exceeded the upper quality control limit for carbon tetrachloride, bromodichloromethane, dibromochloromethane and bromoform. No qualifiers were required on this basis.

The volatile Matrix Spike and Matrix Spike Duplicate (MS/MSD) for sample MPT-G4-GW-01-11 had % recoveries that exceeded the upper quality control limit for dibromochloromethane and bromoform, and an MSD % recovery that exceeded the upper quality control limit for carbon tetrachloride. No qualifiers were required on this basis.

The semivolatile MS / MSD for sample MPT-G4-GW-01-11 had % recoveries that exceeded upper quality control limits for 4-chloroaniline and lower quality control limits for dimethyl phthalate and hexachlorocyclopentadiene. In sample MPT-G4-GW-01-11, the non-detected result for hexachlorocyclopentadiene was rejected (UR).

The laboratory reported Dinoseb as 2-sec-butyl-4,6-dinitrophenol.

Date: 11/16/00

It should be noted that according to the laboratory statement of work (SOW) both the volatile and semivolatile fraction both were to contain 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Since this would create data management problems, the laboratory reported these compounds in the semivolatile fraction only. It was not necessary to qualify any data based on this issue.

The analytical SOW listed pentachloroethane to be analyzed and reported as a volatile compound but the laboratory analyzed and reported this compound as a semivolatile compound. It was not necessary to qualify any data based on this issue.

The laboratory reported allyl chloride, which according to the analytical SOW was not a required volatile target compound. Because allyl chloride is an Appendix IX compound it was determined that this compound should remain in the database.

The laboratory reported Dinoseb, Diallylate, a,a-dimethylphenethylamine, chlorobenzilate, diallate, and N-nitrosopiperidine, which according to the analytical SOW were not required semivolatile target compounds. Because the aforementioned are Appendix IX compounds it was determined that these compounds should remain in the database.

The laboratory did not report hexachlorophene as requested in the analytical SOW. This compound is unstable and could not be analyzed.

The laboratory did not report results for Sulfotepp and Zinophos as required by the analytical SOW. A resubmission was solicited and results for these compounds were provided and included in the database.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The volatile Laboratory Control Sample (LCS) on 7/8/00 had % recoveries that exceeded the upper quality control limit for dibromochloromethane and bromoform. No qualifiers were required on this basis.

The volatile LCS on 7/11/00 had % recoveries that exceeded the upper quality control limit for 1,1,1-trichloroethane, carbon tetrachloride, bromodichloromethane, dibromochloromethane and bromoform. No qualifiers were required on this basis.

The volatile LCS on 7/12/00 had % recoveries that exceeded the upper quality control limit for carbon tetrachloride, bromodichloromethane, dibromochloromethane and bromoform, and % recoveries that exceeded the lower quality control limit for tetrachloroethene, ethylbenzene and total xylenes. No qualifiers were required on this basis.

The semivolatile LCSs on 7/7, 11 and 12/00 on instruments A4HP6 and A4HP7 had % recoveries that fell below lower quality control limits for hexachlorocyclopentadiene and dimethyl phthalate. In all samples non-detected results for hexachlorocyclopentadiene and dimethyl phthalate were rejected (UR).

The semivolatile LCS on 7/7/00 had % recoveries that exceeded quality control limits for diethyl phthalate and naphthalene. No qualifiers were required on this basis.

The semivolatile LCS on 7/11/00 had % recoveries that exceeded quality control limits for diethyl phthalate. No qualifiers were required on this basis.

Memo to: T. Hansen – Page 6

Date: 11/16/00

The semivolatile LCS on 7/12/00 had % recoveries that exceeded quality control limits for 1,2-dichlorobenzene, 1,3-dichlorobenzene, 2,4-dichlorophenol, 2-chloronaphthalene, 2-methylnaphthalene, 2-nitrophenol, 4-chloroaniline, fluorene, naphthalene and diethyl phthalate. No qualifiers were required on this basis.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator


Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

FIELD DUPLICATES					
FRACTION	COMPOUND	MPT-G4-GW-17-19	MPT-G4-GW-DU01	RPD	
		RESULT	RESULT		
Volatile					
	Chloromethane	0.22 J	0.37 J	-50.8	
Semivolatile					
	1,3-dichlorobenzene	10 U	2.6 J	NC	
	1,4-dichlorobenzene	10 U	1.1 J	NC	
	bis(2-ethylhexyl)phthalate	26 U	5 U	135.5	
ND - Compound not detected.					
NC - RPD not calculated.					

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U	B	1	U	B	1	U	B	1	U	B
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		0.67	J	P
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U	B	10	U		10	U	B	10	U	B
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U	A	1	U	A	1	U	A
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	0.43	J	P	0.18	J	P	0.23	J	P	1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.28	J	P	0.73	J	P	0.32	J	P	0.23	J	P
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

Date: 11/16/00

Continuing calibration verification RRFs fell below the 0.05 quality control limit for propionitrile and isobutyl alcohol on 7/11/00, 09:12, on instrument A3UX7. Only nondetected results were reported for propionitrile and isobutyl alcohol and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/12/00, 22:59, on instrument A3UX7. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for dichlorodifluoromethane, trichlorofluoromethane, carbon tetrachloride, bromodichloromethane, 2-hexanone, dibromochloromethane, 1,1,1,2-tetrachloroethane and bromoform on 7/12/00, 22:59, on instrument A3UX7. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for isobutyl alcohol on 7/12/00, 23:25, on instrument A3UX7. Only nondetected results were reported for isobutyl alcohol and these were rejected (UR) in the affected samples.

A continuing calibration verification %D exceeded the 25% quality control limit for isobutyl alcohol on 7/12/00, 23:25, on instrument A3UX7. The nondetected results reported for isobutyl alcohol were previously qualified for the above RRF noncompliance and did not require further qualification.

SVOA

The common laboratory contaminant bis(2-ethylhexyl)phthalate was detected in the laboratory method blanks at a maximum concentration of 3.0 ug/L. An action level of 30.0 ug/L was established. Positive results less than blank action levels were qualified as undetected (U) in the affected environmental samples. Sample aliquot and dilution factors were taken into consideration when applying the blank action level.

Initial calibration RRFs fell below the 0.05 quality control limit for 1,3,5-trinitrobenzene on 6/6/00, on instrument A4HP7. Only nondetected results were reported for 1,3,5-trinitrobenzene and these were rejected (UR) in the affected samples.

Initial calibration % RSDs exceeded the 30% (but <50%) quality control limit for 1,3,5-trinitrobenzene, Dinoseb and 4-nitroquinoline-1-oxide on 6/6/00, on instrument A4HP7. Only nondetected results were reported for Dinoseb and 4-nitroquinoline-1-oxide, which do not require qualification based on this calibration noncompliance. The nondetected result reported for 1,3,5-trinitrobenzene was previously qualified for the above RRF noncompliance and did not require further qualification.

An initial calibration %RSD exceeded the 30% (but <50%) quality control limit for 4-nitroquinoline-1-oxide on 7/12/00, on instrument A4HP7. Only nondetected results were reported for 4-nitroquinoline-1-oxide, which do not require qualification based on this calibration noncompliance.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/7/00, 09:22, on instrument A4HP7. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WZ

Lab Sample ID: A0F280235 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9H101

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: TB062701

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	0.14		J
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.23		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.44		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	UJ	C
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		2.8	U	B
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	UJ	C
VINYL ACETATE	1	UJ	C	1	UJ	C	1	UJ	C	1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-09-11	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010106002	A0G010106003	A0G010106004	A0G010106005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U	B	1	U	B	1	U	B	1	U	B
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		0.7	J	P	10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U	B	10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		0.11	J	P	0.21	J	P	1	U	
CARBON TETRACHLORIDE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.31	J	P	1	U		0.37	J	P	0.33	J	P
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-09-11	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010106002	A0G010106003	A0G010106004	A0G010106005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	3	U	B	3	U	B	3.2	U	B	3	U	B
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	UJ	C	2	UJ	C	2	UJ	C	2	UJ	C
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-13-06
06/29/00
A0G010107001
NORMAL
0.0 %
UG/L

MPT-G4-GW-14-10
06/29/00
A0G010107002
NORMAL
0.0 %
UG/L

MPT-G4-GW-15-09
06/29/00
A0G010107003
NORMAL
0.0 %
UG/L

MPT-G4-GW-16-08
06/29/00
A0G010107004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U	B	1	U	B	1	U	B	1	U	B
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		0.67	J	P	10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	UJ	C	10	UJ	C	10	UJ	C	10	UJ	C
4-METHYL-2-PENTANONE	10	U		10	U	B	10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
BROMOFORM	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	0.14	J	P	0.24	J	P	1	U		1	U	
CARBON TETRACHLORIDE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.42	J	P	0.17	J	P	0.41	J	P	1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-13-06
06/29/00
A0G010107001
NORMAL
0.0 %
UG/L

MPT-G4-GW-14-10
06/29/00
A0G010107002
NORMAL
0.0 %
UG/L

MPT-G4-GW-15-09
06/29/00
A0G010107003
NORMAL
0.0 %
UG/L

MPT-G4-GW-16-08
06/29/00
A0G010107004
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	2	U	B	2.2	U	B	1.9	U	B	1.8	U	B
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	UJ	C	2	UJ	C	2	UJ	C	2	UJ	C
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-17-09	MPT-G4-GW-DU01	TB062701	TB062801
SAMPLE DATE:	06/29/00	06/29/00	06/27/00	06/28/00
LABORATORY ID:	A0G010107006	A0G010107007	A0F280235008	A0G010106006
QC_TYPE:	NORMAL	NORMAL	TRIP BLANK	TRIP BLANK
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:		MPT-G4-GW-17-09		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	UJ	C	1	UJ	C	1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U	B	6.4			1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	UJ	C	10	UJ	C	10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U		1.6	J	CP
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		0.073	J	P	1	U	
BROMODICHLOROMETHANE	1	UJ	C	1	UJ	C	1	U		1	U	
BROMOFORM	1	UJ	C	1	UJ	C	1	U		1	UJ	C
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	UJ	C	1	UJ	C	1	U		1	UJ	C
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.22	J	P	0.37	J	P	1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-17-09	MPT-G4-GW-DU01	TB062701	TB062801
SAMPLE DATE:	06/29/00	06/29/00	06/27/00	06/28/00
LABORATORY ID:	A0G010107006	A0G010107007	A0F280235008	A0G010106006
QC_TYPE:	NORMAL	NORMAL	TRIP BLANK	TRIP BLANK
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:		MPT-G4-GW-17-09		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	UJ	C	1	UJ	C	1	U		1	UJ	C
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	UJ	C	1	UJ	C	1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		0.14	J	P	1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	2.1	U	B	2.2	U	B	0.23	J	P	3.3		
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	0.44	J	P	1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	UJ	C	1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	UJ	C	2	UJ	C	2	U		2	UJ	C
VINYL ACETATE	1	U		1	U		1	UJ	C	1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	TB062903	TB062904		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010107005	A0G010107008		
QC_TYPE:	TRIP BLANK	TRIP BLANK		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	UJ	C	1	UJ	C						
1,1,1-TRICHLOROETHANE	1	U		1	U							
1,1,2,2-TETRACHLOROETHANE	1	U		1	U							
1,1,2-TRICHLOROETHANE	1	U		1	U							
1,1-DICHLOROETHANE	1	U		1	U							
1,1-DICHLOROETHENE	7.6			7.2								
1,2,3-TRICHLOROPROPANE	1	U		1	U							
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U							
1,2-DIBROMOETHANE	1	U		1	U							
1,2-DICHLOROETHANE	1	U		1	U							
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U							
1,2-DICHLOROPROPANE	1	U		1	U							
2-BUTANONE	10	U		10	U							
2-CHLOROETHYL VINYL ETHER	1	U		1	U							
2-HEXANONE	10	UJ	C	10	UJ	C						
4-METHYL-2-PENTANONE	0.5	J	P	10	U							
ACETONE	10	U		10	U							
ACETONITRILE	20	UR	C	20	UR	C						
ACROLEIN	10	UR	C	10	UR	C						
ACRYLONITRILE	10	U		10	U							
ALLYL CHLORIDE	1	U		1	U							
BENZENE	1	U		1	U							
BROMODICHLOROMETHANE	1	UJ	C	1	UJ	C						
BROMOFORM	1	UJ	C	1	UJ	C						
BROMOMETHANE	2	U		2	U							
CARBON DISULFIDE	1	U		1	U							
CARBON TETRACHLORIDE	1	UJ	C	1	UJ	C						
CHLOROBENZENE	1	U		1	U							
CHLOROETHANE	1	U		1	U							
CHLOROFORM	1	U		1	U							
CHLOROMETHANE	1	U		1	U							
CHLOROPRENE	1	U		1	U							
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	TB062903	TB062904		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010107005	A0G010107008		
QC_TYPE:	TRIP BLANK	TRIP BLANK		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U							
DIBROMOCHLOROMETHANE	1	UJ	C	1	UJ	C						
DIBROMOMETHANE	1	U		1	U							
DICHLORODIFLUOROMETHANE	1	UJ	C	1	UJ	C						
ETHYL METHACRYLATE	1	U		1	U							
ETHYLBENZENE	0.16	J	P	0.14	J	P						
IODOMETHANE	1	U		1	U							
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C						
METHACRYLONITRILE	1	U		1	U							
METHYL METHACRYLATE	1	U		1	U							
METHYL TERT-BUTYL ETHER	5	U		5	U							
METHYLENE CHLORIDE	2.1			2.2								
PROPIONITRILE	4	UR	C	4	UR	C						
STYRENE	1	U		1	U							
TETRACHLOROETHENE	1	U		1	U							
TOLUENE	0.52	J	P	0.51	J	P						
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U							
TRANS-1,3-DICHLOROPROPENE	1	U		1	U							
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U							
TRICHLOROETHENE	1	U		1	U							
TRICHLOROFLUOROMETHANE	2	UJ	C	2	UJ	C						
VINYL ACETATE	1	U		1	U							
VINYL CHLORIDE	1	U		1	U							
XYLENES, TOTAL	1	U		1	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	UR	C									
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UJ	C									
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U	A	5	U	A	5	U		5.1	U	A
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLORO BENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	DE	10	UR	E	10	UR	E	10	UR	E
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-01-11	MPT-G4-GW-02-05	MPT-G4-GW-03-05	MPT-G4-GW-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F280235001	A0F280235002	A0F280235003	A0F280235004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	UR	C	10	UR	C	10	UR	C	10	U	
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U		25	U		25	U		25	UJ	C
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U		25	U		25	U		25	UJ	C
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	A
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLORO BENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPIRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-09-11	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010106002	A0G010106003	A0G010106004	A0G010106005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	U										
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	UJ	C									
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-09-11	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010106002	A0G010106003	A0G010106004	A0G010106005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	UJ	C									
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	7.7	U	A	5	U		9.1	U	A	5	U	A
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-09-11	MPT-G4-GW-10-10	MPT-G4-GW-11-05	MPT-G4-GW-12-05
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010106002	A0G010106003	A0G010106004	A0G010106005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLORO BENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-09-11
06/28/00
A0G010106002
NORMAL
0.0 %
UG/L

MPT-G4-GW-10-10
06/28/00
A0G010106003
NORMAL
0.0 %
UG/L

MPT-G4-GW-11-05
06/28/00
A0G010106004
NORMAL
0.0 %
UG/L

MPT-G4-GW-12-05
06/28/00
A0G010106005
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-13-06	MPT-G4-GW-14-10	MPT-G4-GW-15-09	MPT-G4-GW-16-08
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010107001	A0G010107002	A0G010107003	A0G010107004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	10	U										
1,2,4-TRICHLORO BENZENE	10	U										
1,2-DICHLORO BENZENE	10	U										
1,3,5-TRINITRO BENZENE	10	U										
1,3-DICHLORO BENZENE	10	U										
1,3-DINITRO BENZENE	10	U										
1,4-DICHLORO BENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLORO BENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	UJ	C									
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-13-06	MPT-G4-GW-14-10	MPT-G4-GW-15-09	MPT-G4-GW-16-08
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010107001	A0G010107002	A0G010107003	A0G010107004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	UJ	C									
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-13-06	MPT-G4-GW-14-10	MPT-G4-GW-15-09	MPT-G4-GW-16-08
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010107001	A0G010107002	A0G010107003	A0G010107004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPIRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-13-06	MPT-G4-GW-14-10	MPT-G4-GW-15-09	MPT-G4-GW-16-08
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010107001	A0G010107002	A0G010107003	A0G010107004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-17-09	MPT-G4-GW-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010107006	A0G010107007		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:		MPT-G4-GW-17-09		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	10	U		10	U							
1,2,4-TRICHLORO BENZENE	10	U		10	U							
1,2-DICHLORO BENZENE	10	U		10	U							
1,3,5-TRINITRO BENZENE	10	U		10	U							
1,3-DICHLORO BENZENE	10	U		2.6	J	P						
1,3-DINITRO BENZENE	10	U		10	U							
1,4-DICHLORO BENZENE	10	U		1.1	J	P						
1,4-DIOXANE	10	U		10	U							
1,4-NAPHTHOQUINONE	10	U		10	U							
1-NAPHTHYLAMINE	10	U		10	U							
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U		10	U							
2,3,4,6-TETRACHLOROPHENOL	10	U		10	U							
2,4,5-TRICHLOROPHENOL	10	U		10	U							
2,4,6-TRICHLOROPHENOL	10	U		10	U							
2,4-DICHLOROPHENOL	10	U		10	U							
2,4-DIMETHYLPHENOL	10	U		10	U							
2,4-DINITROPHENOL	25	U		25	U							
2,4-DINITROTOLUENE	10	U		10	U							
2,6-DICHLOROPHENOL	10	U		10	U							
2,6-DINITROTOLUENE	10	U		10	U							
2-ACETYLAMINOFLUORENE	10	U		10	U							
2-CHLORONAPHTHALENE	10	U		10	U							
2-CHLOROPHENOL	10	U		10	U							
2-METHYLNAPHTHALENE	10	U		10	U							
2-METHYLPHENOL	10	U		10	U							
2-NAPHTHYLAMINE	10	U		10	U							
2-NITROANILINE	25	U		25	U							
2-NITROPHENOL	10	U		10	U							
2-PICOLINE	10	U		10	U							
3,3'-DICHLOROBENZIDINE	10	U		10	U							
3,3'-DIMETHYLBENZIDINE	10	U		10	U							
3-METHYLCHOLANTHRENE	10	UJ	C	10	UJ	C						
3-METHYLPHENOL	10	U		10	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-17-09	MPT-G4-GW-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010107006	A0G010107007		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:		MPT-G4-GW-17-09		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	25	U		25	U							
4,6-DINITRO-2-METHYLPHENOL	25	U		25	U							
4-AMINOBIHENYL	10	U		10	U							
4-BROMOPHENYL PHENYL ETHER	10	U		10	U							
4-CHLORO-3-METHYLPHENOL	10	U		10	U							
4-CHLOROANILINE	10	U		10	U							
4-CHLOROPHENYL PHENYL ETHER	10	U		10	U							
4-METHYLPHENOL	10	U		10	U							
4-NITROANILINE	25	U		25	U							
4-NITROPHENOL	25	U		25	U							
4-NITROQUINOLINE-1-OXIDE	10	U		10	U							
5-NITRO-O-TOLUIDINE	10	U		10	U							
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	UJ	C	10	UJ	C						
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C	50	UJ	C						
ACENAPHTHENE	10	U		10	U							
ACENAPHTHYLENE	10	U		10	U							
ACETOPHENONE	10	U		10	U							
ANILINE	10	U		10	U							
ANTHRACENE	10	U		10	U							
ARAMITE	10	U		10	U							
BENZO(A)ANTHRACENE	10	U		10	U							
BENZO(A)PYRENE	10	U		10	U							
BENZO(B)FLUORANTHENE	10	U		10	U							
BENZO(G,H,I)PERYLENE	10	U		10	U							
BENZO(K)FLUORANTHENE	10	U		10	U							
BENZYL ALCOHOL	10	U		10	U							
BIS(2-CHLOROETHOXY)METHANE	10	U		10	U							
BIS(2-CHLOROETHYL)ETHER	10	U		10	U							
BIS(2-ETHYLHEXYL)PHTHALATE	26	U	A	5	U	A						
BUTYLBENZYL PHTHALATE	10	U		10	U							
CARBAZOLE	10	U		10	U							
CHLOROBENZILATE	10	U		10	U							
CHRYSENE	10	U		10	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-17-09	MPT-G4-GW-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010107006	A0G010107007		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:		MPT-G4-GW-17-09		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U		10	U							
DI-N-OCTYL PHTHALATE	10	U		10	U							
DIALLATE	20	U		20	U							
DIBENZO(A,H)ANTHRACENE	10	U		10	U							
DIBENZOFURAN	10	U		10	U							
DIETHYL PHTHALATE	10	U		10	U							
DIMETHYL PHTHALATE	10	UR	E	10	UR	E						
DINOSEB	20	U		20	U							
DIPHENYLAMINE	10	U		10	U							
ETHYL METHANESULFONATE	10	U		10	U							
FLUORANTHENE	10	U		10	U							
FLUORENE	10	U		10	U							
HEXACHLOROBENZENE	10	U		10	U							
HEXACHLOROBUTADIENE	10	U		10	U							
HEXACHLOROCYCLOPENTADIENE	10	UR	E	10	UR	E						
HEXACHLOROETHANE	10	U		10	U							
HEXACHLOROPROPENE	10	U		10	U							
INDENO(1,2,3-CD)PYRENE	10	U		10	U							
ISOPHORONE	10	U		10	U							
ISOSAFROLE	10	U		10	U							
METHAPYRILENE	10	U		10	U							
METHYL METHANESULFONATE	10	U		10	U							
N-NITROSO-DI-N-BUTYLAMINE	10	U		10	U							
N-NITROSO-DI-N-PROPYLAMINE	10	U		10	U							
N-NITROSODIETHYLAMINE	10	U		10	U							
N-NITROSODIMETHYLAMINE	10	U		10	U							
N-NITROSODIPHENYLAMINE	10	U		10	U							
N-NITROSOMETHYLETHYLAMINE	10	U		10	U							
N-NITROSOMORPHOLINE	10	U		10	U							
N-NITROSOPIPERIDINE	10	U		10	U							
N-NITROSOPYRROLIDINE	10	U		10	U							
NAPHTHALENE	10	U		10	U							
NITROBENZENE	10	U		10	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-17-09	MPT-G4-GW-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010107006	A0G010107007		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:		MPT-G4-GW-17-09		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	10	U		10	U							
P-DIMETHYLAMINOAZOBENZENE	10	U		10	U							
P-PHENYLENEDIAMINE	10	U		10	U							
PENTACHLOROBENZENE	10	U		10	U							
PENTACHLOROETHANE	50	U		50	U							
PENTACHLORONITROBENZENE	10	U		10	U							
PENTACHLOROPHENOL	10	U		10	U							
PHENACETIN	10	U		10	U							
PHENANTHRENE	10	U		10	U							
PHENOL	10	U		10	U							
PRONAMIDE	10	U		10	U							
PYRENE	10	U		10	U							
PYRIDINE	10	U		10	U							
SAFROLE	10	U		10	U							

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WZ

Lab Sample ID: AOF280235 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9H101

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: TB062701

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.073	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	6.4	
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP013**

SAMPLE NUMBER:	MPT-G4-GW-05-04	MPT-G4-GW-06-07	MPT-G4-GW-07-05	MPT-G4-GW-08-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F280235005	A0F280235006	A0F280235007	A0G010106001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U	B	1	U	B	1	U	B	1	U	B
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		0.68	J	P	10	U		0.66	J	P
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U	B	10	U	B	10	U	B
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U	A	1	U	A	1	U	A	1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	UJ	C
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	0.29	J	P	1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	UJ	C
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.36	J	P	0.43	J	P	0.48	J	P	0.48	J	P
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1610V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-12-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.33	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.24	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: A0G010106 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM17101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: TRIP BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.6	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: AOG010106 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM17101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: TRIP BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	3.3		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: AOG010106 006

Method: SWS46 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFMI7101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: TRIP BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: AOG010107 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1K101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: TB062903

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	7.6	
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: A0G010107 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1K101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: TB062903

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	0.16		J
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.1		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.52		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50		J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: A0G010107 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1K101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: TB062903

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP013

Matrix: (soil/water) WQ

Lab Sample ID:A0G010107 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1P101

Date Extracted:07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: TB062904

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-64-1	Acetone	10		U
75-05-8	Acetonitrile	20		U
107-02-8	Acrolein	10		U
107-13-1	Acrylonitrile	10		U
71-43-2	Benzene	1.0		U
75-27-4	Bromodichloromethane	1.0		U
75-25-2	Bromoform	1.0		U
74-83-9	Bromomethane	2.0		U
75-15-0	Carbon disulfide	1.0		U
56-23-5	Carbon tetrachloride	1.0		U
108-90-7	Chlorobenzene	1.0		U
126-99-8	Chloroprene	1.0		U
124-48-1	Dibromochloromethane	1.0		U
96-12-8	1,2-Dibromo-3-chloropropane	1.0		U
75-00-3	Chloroethane	1.0		U
110-75-8	2-Chloroethyl vinyl ether	1.0		U
67-66-3	Chloroform	1.0		U
74-87-3	Chloromethane	1.0		U
107-05-1	Allyl chloride	1.0		U
74-95-3	Dibromomethane	1.0		U
110-57-6	trans-1,4-Dichloro-2-butene	1.0		U
75-71-8	Dichlorodifluoromethane	1.0		U
75-34-3	1,1-Dichloroethane	1.0		U
107-06-2	1,2-Dichloroethane	1.0		U
75-35-4	1,1-Dichloroethene	7.2		
156-59-2	cis-1,2-Dichloroethene	0.50		U
156-60-5	trans-1,2-Dichloroethene	0.50		U
540-59-0	1,2-Dichloroethene (total)	1.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: A0G010107 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLP101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: TB062904

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	0.14	J
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	2.2	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.51	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WQ

Lab Sample ID: A0G010107 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLP101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: TB062904

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF8V102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-01-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.7	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.43	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.28	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.49	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF8V102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-01-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	0.083	J
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethane	1.0	U
108-88-3	Toluene	0.074	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.50	J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF8V102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-01-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF97102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.7	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.073	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.18	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.73	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.46	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF97102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-02-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.093		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF97102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF98102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.6	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.067	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.23	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.32	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.72	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF98102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.048	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (HDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.64	J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF98102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF99102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-04-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	3.0	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.073	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.23	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.40	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF99102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	0.077	J
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.081	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	0.67	J
108-10-1	4-Methyl-2-pentanone (MIBK)	1.1	J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF99102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9C102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-05-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.4	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.063	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.29	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.36	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.59	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9C102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-05-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		Q
10061-01-5	cis-1,3-Dichloropropene	1.0		Q
10061-02-6	trans-1,3-Dichloropropene	1.0		Q
100-41-4	Ethylbenzene	1.0		Q
97-63-2	Ethyl methacrylate	1.0		Q
75-69-4	Trichlorofluoromethane	2.0		Q
591-78-6	2-Hexanone	10		Q
74-88-4	Iodomethane	1.0		Q
78-83-1	Isobutyl alcohol	50		Q
126-98-7	Methacrylonitrile	1.0		Q
75-09-2	Methylene chloride	1.0		Q
80-62-6	Methyl methacrylate	1.0		Q
107-12-0	Propionitrile	4.0		Q
100-42-5	Styrene	1.0		Q
630-20-6	1,1,1,2-Tetrachloroethane	1.0		Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0		Q
127-18-4	Tetrachloroethene	1.0		Q
108-88-3	Toluene	0.046		J B
71-55-6	1,1,1-Trichloroethane	1.0		Q
79-00-5	1,1,2-Trichloroethane	1.0		Q
79-01-6	Trichloroethene	1.0		Q
96-18-4	1,2,3-Trichloropropane	1.0		Q
108-05-4	Vinyl acetate	1.0		Q
75-01-4	Vinyl chloride	1.0		Q
1330-20-7	Xylenes (total)	1.0		Q
106-93-4	1,2-Dibromoethane (EDB)	1.0		Q
78-93-3	2-Butanone (MEK)	10		Q
108-10-1	4-Methyl-2-pentanone (MIBK)	10		Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9C102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9D102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.6	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.066	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.43	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.92	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9D102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-06-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.059		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	0.68		J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.71		J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013
Matrix: (soil/water) WG Lab Sample ID: A0F280235 006
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/28/00
Work Order: DFF9D102 Date Extracted: 07/08/00
Dilution factor: 1 Date Analyzed: 07/08/00
Moisture %:

Client Sample Id: MPT-G4-GW-06-07 QC Batch: 0192104

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9F102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.8	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.064	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.48	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.1	
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9F102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.057		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.92		J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFF9F102

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: MPT-G4-GW-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFMI210V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-08-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	3.3	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.48	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.81	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFML210V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-08-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.8		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.064		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	0.66		J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.63		J

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013
Matrix: (soil/water) WG Lab Sample ID: A0G010106 001
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/29/00
Work Order: DFM1210V Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/11/00
Moisture %:

Client Sample Id: MPT-G4-GW-08-05 QC Batch: 0194135

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1310V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.8	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.31	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.18	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFMI310V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	3.0		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.047		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1310V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1410V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-10-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.8	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.11	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.62	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFML410V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	3.0		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.046		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.65		J

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1410V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1510V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-11-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	3.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.21	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.37	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.53	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1510V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-11-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	3.2		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.048		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	0.70		J
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1510V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-11-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WZ

Lab Sample ID: A0F280235 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/28/00

Work Order: DFP9H101

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/08/00

Moisture %:

QC Batch: 0192104

Client Sample Id: TB062701

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF98103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1610V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1E10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.6	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.14	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.42	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.33	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLE10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	2.0	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.076	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1E10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMIG10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	3.8	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.24	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.17	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.18	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1G10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture †:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-14-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.2		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.056		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	0.67		J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.84		J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1G10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP013

Matrix: (soil/water) WG

Lab Sample ID:A0G010107 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLH10V

Date Extracted:07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.8	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.41	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.27	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLH10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.9	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.055	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	2.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013
Matrix: (soil/water) WG Lab Sample ID: A0G010107 003
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/30/00
Work Order: DFMLH10V Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %:

Client Sample Id: MPT-G4-GW-15-09 QC Batch: 0195170

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1J10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.0	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.27	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLJ10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-16-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.8		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLJ10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WG Lab Sample ID: A0G010107 006

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/30/00

Work Order: DFM1L10V Date Extracted: 07/13/00

Dilution factor: 1 Date Analyzed: 07/13/00

Moisture %:
 QC Batch: 0195170

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.2	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolsin	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.22	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1L10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture †:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.1		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.047		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFM1L10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture †:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMLN10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-DU01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.4	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.37	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.27	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMIN10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-DU01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.2		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.052		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFMIN10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0195170

Client Sample Id: MPT-G4-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF8V103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-01-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	3.2		J B
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF8V103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-01-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF8V103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-01-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF8V103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-01-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF8V103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-01-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF97103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-02-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	2.1		J B
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF97103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-02-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF97103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF97103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF97103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF98103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF98103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DFM1610V

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0194135

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	3.0	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.045	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MSK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF98103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF98103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF99103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.1		B
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF99103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF99103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q	
		(ug/L or ug/kg)	ug/L		
67-72-1	Hexachloroethane	10			U
1888-71-7	Hexachloropropene	10			U
193-39-5	Indeno (1,2,3-cd) pyrene	10			U
78-59-1	Isophorone	10			U
120-58-1	Isosafrole	10			U
91-80-5	Methapyrilene	10			U
95-53-4	o-Toluidine	10			U
56-49-5	3-Methylcholanthrene	10			U
66-27-3	Methyl methanesulfonate	10			U
91-57-6	2-Methylnaphthalene	10			U
95-48-7	2-Methylphenol	10			U
108-39-4	3-Methylphenol	10			U
106-44-5	4-Methylphenol	10			U
91-20-3	Naphthalene	10			U
130-15-4	1,4-Naphthoquinone	10			U
134-32-7	1-Naphthylamine	10			U
91-59-8	2-Naphthylamine	10			U
88-74-4	2-Nitroaniline	25			U
99-09-2	3-Nitroaniline	25			U
100-01-6	4-Nitroaniline	25			U
98-95-3	Nitrobenzene	10			U
88-75-5	2-Nitrophenol	10			U
100-02-7	4-Nitrophenol	25			U
56-57-5	4-Nitroquinoline-1-oxide	10			U
924-16-3	N-Nitrosodi-n-butylamine	10			U
55-18-5	N-Nitrosodiethylamine	10			U
62-75-9	N-Nitrosodimethylamine	10			U
621-64-7	N-Nitrosodi-n-propylamine	10			U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF99103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOF280235 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF99103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite		10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9C103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9C103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9C103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-05-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WG Lab Sample ID: A0F280235 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/28/00
 Work Order: DFF9C103 Date Extracted: 06/29/00
 Dilution factor: 1 Date Analyzed: 07/07/00
 Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9C103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9D103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-06-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9D103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9D103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9D103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9D103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9F103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9F103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9F103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9F103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0F280235 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFF9F103

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %:

QC Batch: 0181154

Client Sample Id: MPT-G4-GW-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM12101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-08-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	4.7	J B
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFML2101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-08-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM12101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-08-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1, 4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM12101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-08-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM12101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-08-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM13101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2, 2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	7.7		B
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM13101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM13101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM13101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1, 2, 4, 5-Tetrachlorobenzene	10		U
58-90-2	2, 3, 4, 6-Tetrachlorophenol	10		U
120-82-1	1, 2, 4-Trichlorobenzene	10		U
95-95-4	2, 4, 5-Trichlorophenol	10		U
88-06-2	2, 4, 6-Trichlorophenol	10		U
99-35-4	1, 3, 5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM13101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM14101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM14101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFMI4101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q	
		(ug/L or ug/kg)	ug/L		
67-72-1	Hexachloroethane	10			U
1888-71-7	Hexachloropropene	10			U
193-39-5	Indeno (1,2,3-cd) pyrene	10			U
78-59-1	Isophorone	10			U
120-58-1	Isosafrole	10			U
91-80-5	Methapyrilene	10			U
95-53-4	o-Toluidine	10			U
56-49-5	3-Methylcholanthrene	10			U
66-27-3	Methyl methanesulfonate	10			U
91-57-6	2-Methylnaphthalene	10			U
95-48-7	2-Methylphenol	10			U
108-39-4	3-Methylphenol	10			U
106-44-5	4-Methylphenol	10			U
91-20-3	Naphthalene	10			U
130-15-4	1,4-Naphthoquinone	10			U
134-32-7	1-Naphthylamine	10			U
91-59-8	2-Naphthylamine	10			U
88-74-4	2-Nitroaniline	25			U
99-09-2	3-Nitroaniline	25			U
100-01-6	4-Nitroaniline	25			U
98-95-3	Nitrobenzene	10			U
88-75-5	2-Nitrophenol	10			U
100-02-7	4-Nitrophenol	25			U
56-57-5	4-Nitroquinoline-1-oxide	10			U
924-16-3	N-Nitrosodi-n-butylamine	10			U
55-18-5	N-Nitrosodiethylamine	10			U
62-75-9	N-Nitrosodimethylamine	10			U
621-64-7	N-Nitrosodi-n-propylamine	10			U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM14101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM14101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM15101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-11-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	9.1		B
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM15101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-11-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM15101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-11-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM15101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-11-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM15101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-11-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM16101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	4.9	J B
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WG Lab Sample ID: A0G010106 005
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/29/00
 Work Order: DFM16101 Date Extracted: 07/05/00
 Dilution factor: 1 Date Analyzed: 07/12/00
 Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010106 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM16101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM16101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010106 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFM16101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0187103

Client Sample Id: MPT-G4-GW-12-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1E101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1E101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1E101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1E101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a, a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1E101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite		10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1G101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1G101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1G101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WG Lab Sample ID: AOG010107 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/30/00
 Work Order: DFM1G101 Date Extracted: 07/06/00
 Dilution factor: 1 Date Analyzed: 07/11/00
 Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1G101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-14-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1H101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WG Lab Sample ID: A0G010107 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/30/00
 Work Order: DFMLH101 Date Extracted: 07/06/00
 Dilution factor: 1 Date Analyzed: 07/11/00
 Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1H101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1H101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1, 2, 4, 5-Tetrachlorobenzene	10	U
58-90-2	2, 3, 4, 6-Tetrachlorophenol	10	U
120-82-1	1, 2, 4-Trichlorobenzene	10	U
95-95-4	2, 4, 5-Trichlorophenol	10	U
88-06-2	2, 4, 6-Trichlorophenol	10	U
99-35-4	1, 3, 5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFMLH101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-15-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1J101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFMLJ101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFMLJ101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1J101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / .mL

Date Received: 06/30/00

Work Order: DFM1J101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-16-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WG Lab Sample ID: A0G010107 006
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/30/00
 Work Order: DFM1L101 Date Extracted: 07/06/00
 Dilution factor: 1 Date Analyzed: 07/11/00
 Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	26		
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFML101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1L101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFML101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFMLL101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-17-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1N101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	3.6	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFMIN101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	2.6	J
106-46-7	1,4-Dichlorobenzene	1.1	J
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1N101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: A0G010107 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1N101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WG

Lab Sample ID: AOG010107 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFM1N101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %:

QC Batch: 0187342

Client Sample Id: MPT-G4-GW-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite		10	U

APPENDIX C

SUPPORT DOCUMENTATION

MP013

HOLDING TIME

09/13/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-01-11	A0F280235001	NORMAL	MP013	OS	06/26/00	06/29/00	07/07/00	3	8	11
UG/L	MPT-G4-GW-02-05	A0F280235002	NORMAL	MP013	OS	06/27/00	06/29/00	07/07/00	2	8	10
UG/L	MPT-G4-GW-03-05	A0F280235003	NORMAL	MP013	OS	06/27/00	06/29/00	07/07/00	2	8	10
UG/L	MPT-G4-GW-04-04	A0F280235004	NORMAL	MP013	OS	06/27/00	06/29/00	07/07/00	2	8	10
UG/L	MPT-G4-GW-05-04	A0F280235005	NORMAL	MP013	OS	06/27/00	06/29/00	07/07/00	2	8	10
UG/L	MPT-G4-GW-06-07	A0F280235006	NORMAL	MP013	OS	06/27/00	06/29/00	07/07/00	2	8	10
UG/L	MPT-G4-GW-07-05	A0F280235007	NORMAL	MP013	OS	06/27/00	06/29/00	07/07/00	2	8	10
UG/L	MPT-G4-GW-08-05	A0G010106001	NORMAL	MP013	OS	06/28/00	07/05/00	07/12/00	7	7	14
UG/L	MPT-G4-GW-09-11	A0G010106002	NORMAL	MP013	OS	06/28/00	07/05/00	07/12/00	7	7	14
UG/L	MPT-G4-GW-10-10	A0G010106003	NORMAL	MP013	OS	06/28/00	07/05/00	07/12/00	7	7	14
UG/L	MPT-G4-GW-11-05	A0G010106004	NORMAL	MP013	OS	06/28/00	07/05/00	07/12/00	7	7	14
UG/L	MPT-G4-GW-12-05	A0G010106005	NORMAL	MP013	OS	06/28/00	07/05/00	07/12/00	7	7	14
UG/L	MPT-G4-GW-13-06	A0G010107001	NORMAL	MP013	OS	06/29/00	07/06/00	07/11/00	7	5	12
UG/L	MPT-G4-GW-14-10	A0G010107002	NORMAL	MP013	OS	06/29/00	07/06/00	07/11/00	7	5	12
UG/L	MPT-G4-GW-15-09	A0G010107003	NORMAL	MP013	OS	06/29/00	07/06/00	07/11/00	7	5	12
UG/L	MPT-G4-GW-16-08	A0G010107004	NORMAL	MP013	OS	06/29/00	07/06/00	07/11/00	7	5	12
UG/L	MPT-G4-GW-17-09	A0G010107006	NORMAL	MP013	OS	06/29/00	07/06/00	07/11/00	7	5	12
UG/L	MPT-G4-GW-DU01	A0G010107007	NORMAL	MP013	OS	06/29/00	07/06/00	07/11/00	7	5	12
UG/L	MPT-G4-GW-01-11	A0F280235001	NORMAL	MP013	OV	06/26/00	07/08/00	07/08/00	12	0	12
UG/L	MPT-G4-GW-02-05	A0F280235002	NORMAL	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11
UG/L	MPT-G4-GW-03-05	A0F280235003	NORMAL	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11
UG/L	MPT-G4-GW-04-04	A0F280235004	NORMAL	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11
UG/L	MPT-G4-GW-05-04	A0F280235005	NORMAL	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11
UG/L	MPT-G4-GW-06-07	A0F280235006	NORMAL	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-07-05	A0F280235007	NORMAL	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11
UG/L	MPT-G4-GW-08-05	A0G010106001	NORMAL	MP013	OV	06/28/00	07/11/00	07/11/00	13	0	13
UG/L	MPT-G4-GW-09-11	A0G010106002	NORMAL	MP013	OV	06/28/00	07/11/00	07/11/00	13	0	13
UG/L	MPT-G4-GW-10-10	A0G010106003	NORMAL	MP013	OV	06/28/00	07/11/00	07/11/00	13	0	13
UG/L	MPT-G4-GW-11-05	A0G010106004	NORMAL	MP013	OV	06/28/00	07/11/00	07/11/00	13	0	13
UG/L	MPT-G4-GW-12-05	A0G010106005	NORMAL	MP013	OV	06/28/00	07/11/00	07/11/00	13	0	13
UG/L	MPT-G4-GW-13-06	A0G010107001	NORMAL	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	MPT-G4-GW-14-10	A0G010107002	NORMAL	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	MPT-G4-GW-15-09	A0G010107003	NORMAL	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	MPT-G4-GW-16-08	A0G010107004	NORMAL	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	MPT-G4-GW-17-09	A0G010107006	NORMAL	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	MPT-G4-GW-DU01	A0G010107007	NORMAL	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	TB062701	A0F280235008	TRIP BLANK	MP013	OV	06/27/00	07/08/00	07/08/00	11	0	11
UG/L	TB062801	A0G010106006	TRIP BLANK	MP013	OV	06/28/00	07/11/00	07/11/00	13	0	13
UG/L	TB062903	A0G010107005	TRIP BLANK	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14
UG/L	TB062904	A0G010107008	TRIP BLANK	MP013	OV	06/29/00	07/13/00	07/13/00	14	0	14

**SDG NARRATIVE
MP013**

The following report contains the analytical results for twenty one water samples and one quality control sample submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received June 28, 29 and 30, 2000, according to documented sample acceptance procedures.

This SDG consists of three (3) laboratory ID's: A0F280235, A0G010106 and A0G010107.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 0.4, 2.62.6, 1.9, 2.2 and 3.0° C.

(See STL's Cooler Receipt Form for additional information.)

Cooler Receipt Form/Narrative

North Canton Facility

Client: TOHA TECH Project: _____ Quote#: _____
Cooler Received on: 6/28/00 Opened on: 6/28/00 by: [Signature]
(Signature)

Fedx Client Drop Off UPS Airborne
Other: _____

Cooler Safe Foam Box Client Cooler Other: _____
STL Shipper No#: See BACK

- Were custody seals on the outside of the cooler and intact? Yes No
If YES, Quantity 2 Location Overltd
Were the custody seals signed and dated? Yes No NA
 - Shipper's packing slip attached to this form? Yes No
 - Were custody papers included inside the cooler and relinquished? Yes No
 - Did you sign the custody papers in the appropriate place? Yes No
 - Packing material used:
Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 - Cooler temperature upon receipt See BACK °C (see back of form for multiple coolers/temp)
METHOD: Temperature Vial Coolant Against Bottles
COOLANT: Wet Ice Blue Ice Dry Ice Water None
 - Were all the bottles sealed in separate plastic bags? Yes No
 - Did all bottles arrive in good condition (Unbroken)? Yes No
 - Did all bottle labels and tags agree with the custody papers? Yes No
 - Were samples at the correct pH? Yes No NA
 - Were correct bottles used for the tests indicated? Yes No
 - Were air bubbles >6 mm in any VOA vials? Yes No NA
 - Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM DJP Date: 6/28/00 by: SDE via Voice Mail Verbal Other
Concerning: Incorrect preserved cyanide bottle, broken vial, mislabeled bottle

MACRO | MACRO

- CHAIN OF CUSTODY archive this on bottle per DJP
 - SR1A Samples were received under proper custody procedures and without discrepancies.
 - SR1B The chain of custody and sample bottles did not agree. The following discrepancies occurred didn't receive MPT-64-SV01-08 from COC, did receive MPT-64-SV01-07 not on COC.

- SAMPLE CONDITION
 - SR2A Sample(s) _____ were received or requested after the recommended holding time had expired.
 - SR2B Sample(s) _____ were received with insufficient volume
 - SR2C Sample(s) vial of MPT-64-GW-07-05 were received in a broken container.

- SAMPLE PRESERVATION
 - SR3A Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
 - SR3B Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

- NCM
 - SR4A NCM has been generated. Refer to Clouseau for details

Other Anomalies (see below or back)
Cyanide bottle for MPT-64-GW-01-11 was preserved with HNO₃. Instead of NASH, Archive per DJP

✓ Log TB in ledger list per DJP
✓ Also rec'd MPT-64-GW-06-07 BNAs/met not on COC

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: TETRA TECH Project: _____ Quote#: _____
 Cooler Received on: 6/29/00 Opened on: 6/29/00 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS Airborne

Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: SEE BACK

- Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity _____ Location _____
 Were the custody seals signed and dated? Yes No NA
- Shipper's packing slip attached to this form? Yes No
- Were custody papers included inside the cooler and relinquished? Yes No
- Did you sign the custody papers in the appropriate place? Yes No

5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____

6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

- Were all the bottles sealed in separate plastic bags? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Did all bottle labels and tags agree with the custody papers? Yes No
- Were samples at the correct pH? Yes No NA
- Were correct bottles used for the tests indicated? Yes No
- Were air bubbles >6 mm in any VOA vials? Yes No NA
- Was a sufficient amount of sample sent in each bottle? Yes No

Contacted PM DJP Date: 6-29-00 by: TB via Voice Mail Verbal Other

Concerning: anomalies

MACRO MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
X SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred <u>Did not receive MPT-64-6W-1205 on Coc. TB</u> <u>did not receive 3 TRIP BLANKS NOTALOC. OK to log per TB</u> <u>DJP, GJM 7-7-00</u>

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

NCM

SR4A	NCM has been generated. Refer to Clouseau for details
------	---

Other Anomalies (see below or back) MPT-60-50-08-04 on Coc = MPT-60-50-08-05
on label - logged per Coc. TB 7-1-00. Also see attached sheet
about error. MPT-64-6W-12-05 on Coc = MPT-64-6W-12-06
on label - logged per Coc. TB 7-1-00. (dates + times match)
 Revision 15, June 19, 2000
 SOP: NC-SC-0003, Sample Receiving
 n:\qa\cnarrativ\stl\cooler_stl.doc

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: Tetra Tech Project: _____ Quote#: _____
 Cooler Received on: 6/30/00 Opened on: 6/30/00 by: [Signature]
 Fedx Client Drop Off UPS Airborne
 Other: _____

Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: SOABACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location OVER Lid
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt 2.2 °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning: MACRO MACRO

1. CHAIN OF CUSTODY

<input checked="" type="checkbox"/>	SR1A	Samples were received under proper custody procedures and without discrepancies.
	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) _____ were received with insufficient volume
	SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

	SR4A	NCM has been generated. Refer to Clouseau for details
--	------	---

5. Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativ\stl\cooler_stl.doc



PROJECT NO: N0123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen			LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400			ADDRESS 4101 Shuffel Dr NW						
		CARRIER/WAYBILL NUMBER Fed Ex 8198 0334 4524			CITY, STATE North Canton, OH 44720						
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/>		CONTAINER TYPE PLASTIC (P) or GLASS (G)			TYPE OF ANALYSIS TCL VOC TCL SVOC TAL Metals + Tin Cyanide						
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		PRESERVATIVE USED Soil GW -HCl - -HNO3 -NaOH									
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (G)	No. OF CONTAINERS					COMMENTS	
6/26	1600	MPT-G4-GW-01-11	GW	G	4	X				X	Cool to 4°C
6/27	0900	MPT-G4-GW-02-05			4	X				X	
	1040	MPT-G4-GW-03-05			4	X				X	
	1210	MPT-G4-GW-04-04			4	X				X	
	1355	MPT-G4-GW-05-04			4	X	X			X	
	1510	MPT-G4-GW-06-07			4	X				X	
	1550	MPT-G4-GW-07-05			7	X	X	X	X		
	1625	MPT-G4-SU-07-05	Soil		5	X	X	X	X		
		TBO62701	W		1	X					
1. RELINQUISHED BY		DATE 6-27-00		TIME 1700		1. RECEIVED BY			DATE		TIME
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY			DATE 6/28/00		TIME 9:15
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY			DATE		TIME
COMMENTS All GW samples filtered in the field.											



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen.			LABORATORY NAME AND CONTACT: Quanterra		
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400			ADDRESS			CITY, STATE N. Canton	
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed. Ex			CONTAINER TYPE PLASTIC (P) or GLASS (G) G			PRESERVATIVE USED HNO3 P	
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS TCL SVOC TAL Metals + Tin			COMMENTS
6/28	1210	MPT-G4-GW-10-10	GW	G	3	X	X		Cool to 4°C
6/28	1440	MPT-G4-GW-11-05	↓	↓	3	X	X		↓
6/28	1625	MPT-G4-GW-12-05	↓	↓	3	X	X		↓
1. RELINQUISHED BY		DATE	TIME	1. RECEIVED BY			DATE	TIME	
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY			DATE	TIME	
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY			DATE	TIME	
COMMENTS									



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. THOMPSON (904) 281-0400				ADDRESS							
		CARRIER/WAYBILL NUMBER Fed Ex: 7911 0569 2234				CITY, STATE N. Canton, OH							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		HCl		HNO ₃		NaOH	
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS						COMMENTS	
6-28	0600	MPT-G4-SU-08-04	S	G	12	TCL VOCs	TCL SVOC	TAL Metals + Tin	Cyanide				Cool to 4°C
	0910	MPT-G4-GW-08-05	GW		12	X	X	X	X				
	1030	MPT-G4-GW-09-11	GW		12	X	X	X	X				
	0955	MPT-G4-SU-09-11	S		12	X	X	X	X				
	1120	MPT-G4-SU-10-10	S		12	X	X	X	X				
	1210	MPT-G4-GW-10-10	G		3	X			X				
	1400	MPT-G4-SU-11-06	S		12	X	X	X	X				
	1440	MPT-G4-GW-11-05	GW		3	X			X				
	1540	MPT-G4-SU-12-06	S		12	X	X	X	X				
	1625	MPT-G4-GW-12-05	GW		3	X			X				
1. RELINQUISHED BY		DATE	TIME	1. RECEIVED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY	
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY	
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY	
COMMENTS													

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

Jun 29 2000 7:42 P.02

TTNUS JACKSONVILLE Fax: 9042810070

PROJECT NO: N0123	SITE NAME: Group IV	PROJECT MANAGER AND PHONE NUMBER Terry Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE) <i>Thomas Thompson</i> <i>Chad Wall</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400	ADDRESS 4101 Shuffel Dr NW
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 7911 0634 4344	CITY, STATE N. Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (G)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)				COMMENTS
						TYPE OF ANALYSIS	PRESERVATIVE USED			
6-29	0745	MPT-G4-SU-13-06	Soil	G	5	X	X	X	X	Cool to 4°C
	0835	MPT-G4-GW-13-06	GW		7	X	X	X	X	
	0937	MPT-G4-SU-14-09	Soil		5	X	X	X	X	
	1020	MPT-G4-GW-14-10	GW		7	X	X	X	X	
	1115	MPT-G4-SU-15-08	Soil		5	X	X	X	X	
	1200	MPT-G4-GW-15-09	GW		7	X	X	X	X	
	1415	MPT-G4-SU-16-09	Soil		5	X	X	X	X	
	1520	MPT-G4-GW-16-08	GW		7	X	X	X	X	
		TB062903	W		2	X				

1. RELINQUISHED BY <i>Thomas Thompson</i>	DATE 6-29-00	TIME 1900	1. RECEIVED BY <i>Abel Anolis</i>	DATE 6/30/00	TIME 9:10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) <i>Chuck Waller</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex 7926 1240 1730				CITY, STATE N Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED					
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						HCl		H ₂ O ₂		NaOH	
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
6-29	1500	MPT-G4-SU-17-08	Soil	G	5	TCL VOC	TCL SVOC	TAL Metals+Ti ₂	Cyanide		Cool to 4°C
	1555	MPT-G4-GW-17-09	GW		7	X	X	X	X		
	0000	MPT-G4-GW-DU01	GW		7	X	X	X	X		
	0000	MPT-G4-SU-DU01	Soil		7	X	X	X	X		
		TB062904	W		2	X					
1. RELINQUISHED BY <i>[Signature]</i>		DATE 6-29-00	TIME 1900	1. RECEIVED BY <i>[Signature]</i>		DATE 6/30/00	TIME 9	2. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME				
3. RELINQUISHED BY		DATE	TIME			DATE	TIME				
COMMENTS											

SDG NARRATIVE

MP013

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Acid preservation causes 2-Chloroethyl vinyl ether to decompose. When detected, the concentration found will be reported; however, a true reporting limit cannot be reported when the compound is not detected.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SAMPLE SUMMARY

A0F280235

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFF8V	001	MPT-G4-GW-01-11	06/26/00	16:00
DFF97	002	MPT-G4-GW-02-05	06/27/00	09:00
DFF98	003	MPT-G4-GW-03-05	06/27/00	10:40
DFF99	004	MPT-G4-GW-04-04	06/27/00	12:10
DFF9C	005	MPT-G4-GW-05-04	06/27/00	13:55
DFF9D	006	MPT-G4-GW-06-07	06/27/00	15:10
DFF9F	007	MPT-G4-GW-07-05	06/27/00	15:50
DFF9H	008	TB062701	06/27/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G010106

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFM12	001	MPT-G4-GW-08-05	06/28/00	09:10
DFM13	002	MPT-G4-GW-09-11	06/28/00	10:30
DFM14	003	MPT-G4-GW-10-10	06/28/00	12:10
DFM15	004	MPT-G4-GW-11-05	06/28/00	14:40
DFM16	005	MPT-G4-GW-12-05	06/28/00	16:25
DFM17	006	TRIP BLANK	06/28/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G010107

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFM1E	001	MPT-G4-GW-13-06	06/29/00	08:35
DFM1G	002	MPT-G4-GW-14-10	06/29/00	10:20
DFM1H	003	MPT-G4-GW-15-09	06/29/00	12:00
DFM1J	004	MPT-G4-GW-16-08	06/29/00	15:20
DFM1K	005	TB062903	06/29/00	
DFM1L	006	MPT-G4-GW-17-09	06/29/00	15:55
DFM1N	007	MPT-G4-GW-DU01	06/29/00	
DFM1P	008	TB062904	06/29/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Also received

MPT	G4	GW	1206-1	Encece	
MPT	G4	GW	12	"	
MPT	G4	SU	12-08	"	

log as 1 sample
MPT-0123
6-28-00
15:40

Also received

3 trip BLANKS NOT
ON COC

ANALYTICAL METHODS SUMMARY

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

5LCA
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP013

Lab File ID: BFB542B BFB Injection Date: 07/07/00

Instrument ID: A3UX7 BFB Injection Time: 0809

GC Column: DB624 75M ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	5.9 (7.6)1
176	95.0 - 101.0% of mass 174	76.4 (98.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-IC	UX74088	07/07/00	0839
02	VSTD040	200NG-IC	UX74090	07/07/00	0936
03	VSTD020	100NG-IC	UX74091	07/07/00	1002
04	VSTD005	25NG-IC	UX74092	07/07/00	1029
05	VSTD001	5NG-IC	UX74093	07/07/00	1056
06	VSTD040	200NG-A9IC	UX74095	07/07/00	1149
07	VSTD020	100NG-A9IC	UX74096	07/07/00	1216
08	VSTD010	50NG-A9IC	UX74097	07/07/00	1255
09	VSTD005	25NG-A9IC	UX74098	07/07/00	1321
10	VSTD001	5NG-A9IC	UX74099	07/07/00	1348
11					
12					
13					
14					
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19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2000 15:49
 End Cal Date : 07-JUL-2000 13:48
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00707A.b/N8260UX7-3.m
 Cal Date : 07-Jul-2000 14:08 evansl
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux7.i/U00707A.b/ux74093.d
 Level 2: /chem/can/msv/a3ux7.i/U00707A.b/ux74092.d
 Level 3: /chem/can/msv/a3ux7.i/U00707A.b/ux74088.d
 Level 4: /chem/can/msv/a3ux7.i/U00707A.b/ux74091.d
 Level 5: /chem/can/msv/a3ux7.i/U00707A.b/ux74090.d

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRP	% RSD
8 Dichlorodifluoromethane	0.24060	0.23235	0.21461	0.21966	0.20377	0.22220	6.543
9 Chloromethane	0.33263	0.32322	0.29409	0.29989	0.29342	0.30865	5.859
10 Vinyl Chloride	0.27796	0.27106	0.25482	0.26586	0.24212	0.26236	5.382
11 Bromomethane	0.11802	0.11386	0.10719	0.10324	0.09090	0.10664	9.851
12 Chloroethane	0.11879	0.11433	0.11130	0.11434	0.10314	0.11238	5.175
13 Trichlorofluoromethane	0.21163	0.21824	0.21288	0.23405	0.21098	0.21756	4.437
14 Dichlorofluoromethane	0.08601	0.11701	0.11360	0.12778	0.14367	0.11762	18.019
15 Acrolein	0.02001	0.01733	0.01719	0.01824	0.01676	0.01791	7.239
16 Acetone	0.23355	0.12442	0.12651	0.09218	0.08026	0.13138	46.077
17 1,1-Dichloroethene	0.30726	0.29086	0.27835	0.26792	0.24952	0.27878	7.883
18 Freon-113	0.27558	0.25663	0.26536	0.26291	0.23473	0.25904	5.872
19 Iodomethane	0.52938	0.53246	0.53379	0.54387	0.50045	0.52799	3.092
20 Carbon Disulfide	0.86570	0.82144	0.82242	0.82891	0.77439	0.82257	3.950
21 Methylene Chloride	0.33767	0.30123	0.28069	0.27791	0.26155	0.29181	10.027
22 Acetonitrile	0.02913	0.02881	0.02323	0.02402	0.02406	0.02585	11.091
23 Acrylonitrile	0.09941	0.09402	0.08395	0.09488	0.09036	0.09253	6.242
24 Methyl tert-butyl ether	0.73119	0.69766	0.62794	0.70544	0.64611	0.68167	6.320
25 trans-1,2-Dichloroethene	0.32783	0.31140	0.29735	0.29914	0.28543	0.30423	5.287
26 Hexane	0.04427	0.04594	0.04826	0.04697	0.04402	0.04589	3.911
27 Vinyl acetate	0.34861	0.34248	0.26999	0.36585	0.33017	0.33142	11.064
28 1,1-Dichloroethane	0.61251	0.57794	0.55881	0.56853	0.54875	0.57331	4.267
29 tert-Butyl Alcohol	0.01265	0.01690	0.01254	0.01795	0.01614	0.01524	16.390
30 2-Butanone	0.17456	0.14118	0.12428	0.13170	0.12592	0.13953	14.814
M 31 1,2-Dichloroethene (total)	0.33321	0.31961	0.30447	0.30492	0.29144	0.31073	5.162
32 cis-1,2-dichloroethene	0.33859	0.32783	0.31160	0.31071	0.29746	0.31724	5.068
33 2,2-Dichloropropane	0.33292	0.32183	0.25000	0.31612	0.27609	0.29939	11.679

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2000 15:49
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00707A.b/N8260UX7-3.m
 Cal Date : 07-Jul-2000 14:08 evansl
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.15681	0.15300	0.14626	0.15364	0.14855	0.15165	2.780
35 Chloroform	0.56957	0.56134	0.52952	0.53672	0.51790	0.54301	4.006
36 Tetrahydrofuran	0.17649	0.08708	0.07108	0.07532	0.06727	0.09545	48.100
37 1,1,1-Trichloroethane	0.47883	0.46449	0.42147	0.46796	0.42821	0.45219	5.669
38 1,1-Dichloropropene	0.42321	0.40792	0.39579	0.39825	0.38256	0.40154	3.766
39 Carbon Tetrachloride	0.30659	0.30144	0.27331	0.33822	0.31286	0.30648	7.605
40 1,2-Dichloroethane	0.53301	0.50208	0.46290	0.47982	0.46806	0.48917	5.882
41 Benzene	1.40669	1.18726	1.14740	1.11274	1.06253	1.18332	11.241
42 Trichloroethene	0.34100	0.33760	0.32187	0.32639	0.31327	0.32803	3.471
43 1,2-Dichloropropane	0.31911	0.31207	0.29208	0.30003	0.28221	0.30110	4.938
44 1,4-Dioxane	0.00187	0.00197	0.00179	0.00202	0.00190	0.00191	4.752
45 Dibromomethane	0.17837	0.18540	0.16475	0.17776	0.17052	0.17536	4.523
46 Bromodichloromethane	0.35200	0.34555	0.33497	0.36208	0.35279	0.34948	2.870
47 2-Chloroethyl vinyl ether	0.13742	0.13660	0.12473	0.14241	0.13971	0.13617	4.980
48 cis-1,3-Dichloropropene	0.45401	0.45706	0.42830	0.46324	0.44674	0.44987	2.988
49 4-Methyl-2-pentanone	0.22991	0.24661	0.20378	0.24024	0.23290	0.23069	7.105
50 Toluene	1.76046	1.64752	1.60302	1.59728	1.55629	1.63292	4.794
51 trans-1,3-Dichloropropene	0.50338	0.50117	0.45085	0.52170	0.52463	0.50034	5.917
52 Ethyl Methacrylate	0.28990	0.33734	0.27012	0.36904	0.37764	0.32880	14.453
53 1,1,2-Trichloroethane	0.31662	0.30559	0.28130	0.30497	0.29673	0.30104	4.354
54 1,3-Dichloropropane	0.56186	0.54445	0.49751	0.52428	0.50438	0.52649	5.121
55 Tetrachloroethene	0.34899	0.33042	0.32003	0.31803	0.30461	0.32442	5.094
56 2-Hexanone	0.21106	0.21462	0.17707	0.21100	0.20714	0.20418	7.534
57 Dibromochloromethane	0.23427	0.25357	0.24946	0.29438	0.30071	0.26648	11.012
58 1,2-Dibromoethane	0.30271	0.30841	0.27546	0.31257	0.30558	0.30095	4.887
59 Chlorobenzene	1.20351	1.14915	1.10564	1.11050	1.07570	1.12890	4.359
60 1,1,1,2-Tetrachloroethane	0.31751	0.32274	0.28875	0.34802	0.34255	0.32391	7.252
61 Ethylbenzene	0.61138	0.56535	0.54564	0.54547	0.52337	0.55824	5.950
62 m + p-Xylene	0.73577	0.68810	0.65656	0.65112	0.62063	0.67044	6.513
M 63 Xylenes (total)	0.73128	0.68362	0.65166	0.64568	0.61288	0.66502	6.728
64 Xylene-o	0.72229	0.67465	0.64186	0.63481	0.59738	0.65420	7.174
65 Styrene	1.22051	1.16830	1.11052	1.11105	1.06234	1.13454	5.374
66 Bromoform	0.07845	0.09148	0.09884	0.12889	0.13624	0.10678	23.208

Handwritten notes:
 0.0012
 5.1510
 2.77

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2000 15:49
 End Cal Date : 07-JUL-2000 13:48
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 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00707A.b/N8260UX7-3.m
 Cal Date : 07-Jul-2000 14:08 evansl
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
67 Isopropylbenzene	3.36702	3.37937	2.97287	2.90866	2.69234	3.00405	8.233
68 1,1,2,2-Tetrachloroethane	0.58636	0.37333	0.50100	0.55615	0.52682	0.54873	6.336
69 1,4-Dichloro-2-butene	0.18538	0.15895	0.16458	0.19508	0.18084	0.17697	8.437
70 1,2,3-Trichloropropane	0.22293	0.20255	0.17879	0.19887	0.18299	0.19723	8.906
71 Bromobenzene	0.97094	0.90049	0.84496	0.84090	0.76987	0.86543	8.669
72 n-Propylbenzene	1.06916	0.94778	0.90394	0.88305	0.81646	0.92408	10.163
73 2-Chlorotoluene	0.87767	0.82929	0.78937	0.77920	0.71707	0.79852	7.489
74 1,3,5-Trimethylbenzene	2.90687	2.66710	2.52013	2.52832	2.36049	2.59658	7.881
75 4-Chlorotoluene	0.91220	0.86273	0.81991	0.81095	0.76327	0.83381	6.751
76 tert-Butylbenzene	3.01048	2.37318	2.20621	2.22580	2.07184	2.37750	15.546
77 1,2,4-Trimethylbenzene	3.15615	2.80414	2.64629	2.65746	2.46909	2.74663	9.390
78 sec-Butylbenzene	3.54650	2.99845	2.82248	2.84026	2.63667	2.96887	11.703
79 4-Isopropyltoluene	3.24223	2.84647	2.61926	2.60341	2.38736	2.73975	11.844
80 1,3-Dichlorobenzene	1.95411	1.70937	1.62563	1.58063	1.43971	1.66189	11.454
81 1,4-Dichlorobenzene	2.13630	1.81875	1.69648	1.68734	1.58392	1.78456	11.964
82 n-Butylbenzene	3.13152	2.65540	2.35885	2.41284	2.22448	2.55662	13.972
83 1,2-Dichlorobenzene	1.88060	1.66874	1.56895	1.57851	1.46094	1.63155	9.655
84 1,2-Dibromo-3-chloropropane	0.10757	0.11271	0.07833	0.11661	0.10964	0.10497	14.585
85 1,2,4-Trichlorobenzene	1.27147	0.88731	0.62827	0.70559	0.59286	0.79710	29.879
86 Hexachlorobutadiene	0.76614	0.49189	0.34091	0.36636	0.30107	0.45327	41.673
87 Naphthalene	2.74234	2.04601	1.07539	1.53012	1.18347	1.71547	40.078
88 1,2,3-Trichlorobenzene	1.15864	0.74500	0.39929	0.55066	0.43766	0.65825	47.144
89 Ethyl Ether	0.22149	0.21020	0.19801	0.19175	0.19240	0.20277	6.323
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.14254	0.15337	0.14928	0.15151	0.14818	0.14898	2.763
92 Isopropyl Ether	0.23748	0.24326	0.23110	0.22578	0.21371	0.23027	4.932
93 2-Chloro-1,3-butadiene	0.60688	0.62760	0.61424	0.63027	0.61868	0.61954	1.550
94 Propionitrile	0.03357	0.03618	0.03502	0.03267	0.03263	0.03402	4.556
95 Ethyl Acetate	0.23350	0.22745	0.21547	0.22669	0.21930	0.22448	3.175
96 Methacrylonitrile	0.17416	0.17101	0.16045	0.16576	0.16121	0.16552	3.608
97 Isobutanol	0.00488	0.00341	0.00469	0.00489	0.00552	0.00468	16.563 <-
98 Cyclohexane	0.51535	0.50947	0.52136	0.52183	0.48803	0.51121	2.720
99 n-Butanol	0.00238	0.00254	0.00259	0.00308	0.00337	0.00279	14.878 <-

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2000 15:49
 End Cal Date : 07-JUL-2000 13:48
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00707A.b/N8260UX7-3.m
 Cal Date : 07-Jul-2000 14:08 evansl
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
100 Methyl Methacrylate	0.24842	0.26699	0.26310	0.27805	0.28426	0.26817	5.185
101 2-Nitropropane	0.03044	0.03109	0.33197	0.03434	0.03676	0.03292	7.911
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
103 Cyclohexanone	0.02561	0.02403	0.32497	0.02447	0.02342	0.02450	3.449
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
141 1,3,5-Trichlorobenzene	1.40908	1.13480	0.95936	1.00254	0.87424	1.07600	19.390
143 Methyl Acetate	0.23628	0.24075	0.16721	0.22684	0.22013	0.21824	13.581
144 Methylcyclohexane	0.43977	0.40542	0.38989	0.39720	0.36772	0.40000	6.571
\$ 4 Dibromofluoromethane	0.31148	0.30674	0.29968	0.30672	0.29560	0.30405	2.080
\$ 5 1,2-Dichloroethane-d4	0.39712	0.38847	0.35981	0.35389	0.34810	0.36948	5.927
\$ 6 Toluene-d8	1.34046	1.32617	1.27532	1.29944	1.25902	1.30009	2.611
\$ 7 Bromofluorobenzene	1.16187	1.06614	1.00922	0.99982	0.94371	1.03615	7.972

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 08-JUL-2000 09:28
 Lab File ID: ux74128.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00708A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.30405	0.27520	0.010	9.5	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.36948	0.31971	0.010	13.5	50.0	Averaged	
\$ 6 Toluene-d8	1.30009	1.10923	0.010	14.7	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.03615	0.87889	0.010	15.2	50.0	Averaged	
8 Dichlorodifluoromethane	0.22220	0.23706	0.010	-6.7	50.0	Averaged	
9 Chloromethane	0.30865	0.29311	0.100	5.0	50.0	Averaged	
10 Vinyl Chloride	0.26236	0.23452	0.010	10.6	20.0	Averaged	
11 Bromomethane	0.10664	0.09985	0.010	6.4	50.0	Averaged	
12 Chloroethane	0.11238	0.10782	0.010	4.1	50.0	Averaged	
13 Trichlorofluoromethane	0.21756	0.22735	0.010	-4.5	50.0	Averaged	
15 Acrolein	0.01791	0.01011	0.010	43.6	50.0	Averaged	
16 Acetone	0.13138	0.10605	0.010	19.3	50.0	Averaged	
17 1,1-Dichloroethene	0.27878	0.26447	0.010	5.1	20.0	Averaged	
18 Freon-113	0.25904	0.24304	0.010	6.2	50.0	Averaged	
19 Iodomethane	0.52799	0.53262	0.010	-0.9	50.0	Averaged	
20 Carbon Disulfide	0.82257	0.85375	0.010	-3.8	50.0	Averaged	
21 Methylene Chloride	0.29181	0.28784	0.010	1.4	50.0	Averaged	
22 Acetonitrile	0.02585	0.02510	0.010	2.9	50.0	Averaged	
23 Acrylonitrile	0.09253	0.09249	0.010	0.0	50.0	Averaged	
24 Methyl tert-butyl ether	0.68167	0.62870	0.010	7.8	50.0	Averaged	
25 trans-1,2-Dichloroethane	0.30423	0.29932	0.010	1.6	50.0	Averaged	
26 Hexane	0.04589	0.04483	0.010	2.3	50.0	Averaged	
27 Vinyl acetate	0.33142	0.21551	0.010	35.0	50.0	Averaged	
28 1,1-Dichloroethane	0.57331	0.58813	0.100	-2.6	50.0	Averaged	
29 tert-Butyl Alcohol	0.01524	0.01163	0.010	23.7	50.0	Averaged	
30 2-Butanone	0.13953	0.12872	0.010	7.7	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.31073	0.30639	0.010	1.4	50.0	Averaged	
32 cis-1,2-dichloroethene	0.31724	0.31346	0.010	1.2	50.0	Averaged	
33 2,2-Dichloropropane	0.29939	0.22785	0.010	23.9	50.0	Averaged	
34 Bromochloromethane	0.15165	0.15221	0.010	-0.4	50.0	Averaged	
35 Chloroform	0.54301	0.55094	0.010	-1.5	20.0	Averaged	
36 Tetrahydrofuran	0.09545	0.07120	0.010	25.4	50.0	Averaged	
37 1,1,1-Trichloroethane	0.45219	0.42994	0.010	4.9	50.0	Averaged	
38 1,1-Dichloropropene	0.40154	0.39955	0.010	0.5	50.0	Averaged	
39 Carbon Tetrachloride	0.30648	0.31277	0.010	-2.1	50.0	Averaged	
40 1,2-Dichloroethane	0.48917	0.51395	0.010	-5.1	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 08-JUL-2000 09:28
 Lab File ID: ux74128.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00708A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
41 Benzene	1.18332	1.13463	0.010	4.1	50.0	Averaged
42 Trichloroethene	0.32803	0.32474	0.010	1.0	50.0	Averaged
43 1,2-Dichloropropane	0.30110	0.30489	0.010	-1.3	20.0	Averaged
44 1,4-Dioxane	0.00191	0.00161	0.010	15.5	50.0	Averaged
45 Dibromomethane	0.17536	0.17688	0.010	-0.9	50.0	Averaged
46 Bromodichloromethane	0.34948	0.37340	0.010	-6.8	50.0	Averaged
47 2-Chloroethyl vinyl ether	0.13617	0.12482	0.010	8.3	50.0	Averaged
48 cis-1,3-Dichloropropene	0.44987	0.41276	0.010	8.3	50.0	Averaged
49 4-Methyl-2-pentanone	0.23069	0.23487	0.010	-1.8	50.0	Averaged
50 Toluene	1.63292	1.57567	0.010	3.5	20.0	Averaged
51 trans-1,3-Dichloropropene	0.50034	0.42260	0.010	15.5	50.0	Averaged
52 Ethyl Methacrylate	0.32880	0.27043	0.010	17.8	50.0	Averaged
53 1,1,2-Trichloroethane	0.30104	0.29873	0.010	0.8	50.0	Averaged
54 1,3-Dichloropropane	0.52649	0.50776	0.010	3.6	50.0	Averaged
55 Tetrachloroethene	0.32442	0.30949	0.010	4.6	50.0	Averaged
56 2-Hexanone	0.20418	0.19716	0.010	3.4	50.0	Averaged
57 Dibromochloromethane	0.26648	0.29333	0.010	-10.1	50.0	Averaged
58 1,2-Dibromoethane	0.30095	0.29054	0.010	3.5	50.0	Averaged
59 Chlorobenzene	1.12890	1.08970	0.300	3.5	50.0	Averaged
60 1,1,1,2-Tetrachloroethane	0.32391	0.30855	0.010	4.7	50.0	Averaged
61 Ethylbenzene	0.55824	0.53087	0.010	4.9	20.0	Averaged
62 m + p-Xylene	0.67044	0.64165	0.010	4.3	50.0	Averaged
M 63 Xylenes (total)	0.66502	0.63369	0.010	4.7	50.0	Averaged
64 Xylene-o	0.65420	0.61778	0.010	5.6	50.0	Averaged
65 Styrene	1.13454	1.09565	0.010	3.4	50.0	Averaged
66 Bromoform	0.10678	0.13150	0.100	-23.1	50.0	Averaged
67 Isopropylbenzene	3.00405	2.89347	0.010	3.7	50.0	Averaged
68 1,1,2,2-Tetrachloroethane	0.54873	0.53116	0.300	3.2	50.0	Averaged
69 1,4-Dichloro-2-butene	0.17697	0.10499	0.010	40.7	50.0	Averaged
70 1,2,3-Trichloropropane	0.19723	0.19114	0.010	3.1	50.0	Averaged
71 Bromobenzene	0.86543	0.84444	0.010	2.4	50.0	Averaged
72 n-Propylbenzene	0.92408	0.86411	0.010	6.5	50.0	Averaged
73 2-Chlorotoluene	0.79852	0.78389	0.010	1.8	50.0	Averaged
74 1,3,5-Trimethylbenzene	2.59658	2.43727	0.010	6.1	50.0	Averaged
75 4-Chlorotoluene	0.83381	0.79516	0.010	4.6	50.0	Averaged
76 tert-Butylbenzene	2.37750	2.11184	0.010	11.2	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 08-JUL-2000 09:28
 Lab File ID: ux74128.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00708A.b/N8260UX7-3.m

COMPOUND	_____		MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	
77 1,2,4-Trimethylbenzene	2.74663	2.57713	0.010	6.2	50.0	Averaged
78 sec-Butylbenzene	2.96887	2.64583	0.010	10.9	50.0	Averaged
79 4-Isopropyltoluene	2.73975	2.41176	0.010	12.0	50.0	Averaged
80 1,3-Dichlorobenzene	1.66189	1.55853	0.010	6.2	50.0	Averaged
81 1,4-Dichlorobenzene	1.78455	1.64807	0.010	7.6	50.0	Averaged
82 n-Butylbenzene	2.55652	2.13445	0.010	16.5	50.0	Averaged
83 1,2-Dichlorobenzene	1.63155	1.49121	0.010	8.6	50.0	Averaged
84 1,2-Dibromo-3-chloropropane	0.10497	0.09114	0.010	13.2	50.0	Averaged
85 1,2,4-Trichlorobenzene	0.79710	0.56921	0.010	28.6	50.0	Averaged
86 Hexachlorobutadiene	0.45327	0.23659	0.010	47.8	50.0	Averaged
87 Naphthalene	1.71547	1.15552	0.010	32.6	50.0	Averaged
88 1,2,3-Trichlorobenzene	0.65823	0.38918	0.010	40.9	50.0	Averaged
98 Cyclohexane	0.51121	0.51576	0.010	-0.9	50.0	Averaged
143 Methyl Acetate	0.21824	0.22467	0.010	-2.9	50.0	Averaged
144 Methylcyclohexane	0.40000	0.38288	0.010	4.3	50.0	Averaged
141 1,3,5-Trichlorobenzene	1.07600	0.82367	0.010	23.5	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 08-JUL-2000 09:55
 Lab File ID: ux74129.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00708A.b/N8260UX7-3.m

COMPOUND	RF50		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.11761	0.13233	0.010	-12.5	50.0	Averaged	
89 Ethyl Ether	0.20277	0.19257	0.010	5.0	50.0	Averaged	
91 3-Chloropropene	0.14898	0.14628	0.010	1.8	50.0	Averaged	
92 Isopropyl Ether	0.23027	0.23007	0.010	0.1	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.61954	0.64739	0.010	-4.5	50.0	Averaged	
94 Propionitrile	0.03401	0.03299	0.010	3.1	50.0	Averaged	
95 Ethyl Acetate	0.22448	0.21680	0.010	3.4	50.0	Averaged	
96 Methacrylonitrile	0.16652	0.17139	0.010	-2.9	50.0	Averaged	
97 Isobutanol	0.00468	0.00400	0.010	14.5	50.0	Averaged<-	
99 n-Butanol	0.00279	0.00241	0.010	13.6	50.0	Averaged<-	
100 Methyl Methacrylate	0.26817	0.25029	0.010	6.7	50.0	Averaged	
101 2-Nitropropane	0.03292	0.04212	0.010	-28.0	50.0	Averaged	
103 Cyclohexanone	0.02450	0.02204	0.010	10.0	50.0	Averaged	

5LCA
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP013

Lab File ID: BFB547 BFB Injection Date: 07/11/00

Instrument ID: A3UX7 BFB Injection Time: 0830

GC Column: DB624 75M ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.9
75	30.0 - 60.0% of mass 95	53.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.1 (7.5)1
176	95.0 - 101.0% of mass 174	66.0 (96.7)1
177	5.0 - 9.0% of mass 176	4.2 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74265	07/11/00	0846
02	VSTD010	50NG-A9CC	UX74266	07/11/00	0912
03	DG2FN-CHK	DG2FN102	UX74267	07/11/00	0939
04	DG2FN-BLK	DG2FN101	UX74268	07/11/00	1005
05	MPT-G4-GW-08	DFM1210V	UX74276	07/11/00	1337
06	MPT-G4-GW-09	DFM1310V	UX74277	07/11/00	1404
07	MPT-G4-GW-10	DFM1410V	UX74278	07/11/00	1430
08	MPT-G4-GW-11	DFM1510V	UX74279	07/11/00	1457
09	MPT-G4-GW-12	DFM1610V	UX74280	07/11/00	1523
10	TRIP BLANK	DFM17101	UX74281	07/11/00	1550
11	MPT-G4-GW-08	DFM1212H	UX74287	07/11/00	1830
12	MPT-G4-GW-08	DFM1212J	UX74288	07/11/00	1857
13					
14					
15					
16					
17					
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21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 11-JUL-2000 08:46
 Lab File ID: ux74265.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00711A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.30405	0.28986	0.010	4.7	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.36948	0.35292	0.010	4.5	50.0	Averaged	
\$ 6 Toluene-d8	1.30009	1.11732	0.010	14.1	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.03615	0.88633	0.010	14.5	50.0	Averaged	
8 Dichlorodifluoromethane	0.22220	0.27550	0.010	-24.0	50.0	Averaged	
9 Chloromethane	0.30865	0.32977	0.100	-6.8	50.0	Averaged	
10 Vinyl Chloride	0.26236	0.26081	0.010	0.6	20.0	Averaged	
11 Bromomethane	0.10664	0.12866	0.010	-20.6	50.0	Averaged	
12 Chloroethane	0.11238	0.13219	0.010	-17.6	50.0	Averaged	
13 Trichlorofluoromethane	0.21756	0.30016	0.010	-38.0	50.0	Averaged	
15 Acrolein	0.01791	0.01245	0.010	30.5	50.0	Averaged	
16 Acetone	0.13138	0.10658	0.010	18.9	50.0	Averaged	
17 1,1-Dichloroethane	0.27878	0.25159	0.010	9.8	20.0	Averaged	
18 Freon-113	0.25904	0.26976	0.010	-4.1	50.0	Averaged	
19 Iodomethane	0.52799	0.54576	0.010	-3.4	50.0	Averaged	
20 Carbon Disulfide	0.82257	0.73057	0.010	11.2	50.0	Averaged	
21 Methylene Chloride	0.29181	0.28309	0.010	3.0	50.0	Averaged	
22 Acetonitrile	0.02585	0.02684	0.010	-3.8	50.0	Averaged	
23 Acrylonitrile	0.09253	0.09592	0.010	-3.7	50.0	Averaged	
24 Methyl tert-butyl ether	0.68167	0.64540	0.010	5.3	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.30423	0.29256	0.010	3.8	50.0	Averaged	
26 Hexane	0.04589	0.04110	0.010	10.5	50.0	Averaged	
27 Vinyl acetate	0.33142	0.33056	0.010	0.3	50.0	Averaged	
28 1,1-Dichloroethane	0.57331	0.60553	0.100	-5.6	50.0	Averaged	
29 tert-Butyl Alcohol	0.01524	0.01207	0.010	20.8	50.0	Averaged	
30 2-Butanone	0.13953	0.13257	0.010	5.0	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.31073	0.30359	0.010	2.3	50.0	Averaged	
32 cis-1,2-dichloroethene	0.31724	0.31461	0.010	0.8	50.0	Averaged	
33 2,2-Dichloropropane	0.29939	0.29583	0.010	1.2	50.0	Averaged	
34 Bromochloromethane	0.15165	0.15608	0.010	-2.9	50.0	Averaged	
35 Chloroform	0.54301	0.59284	0.010	-9.2	20.0	Averaged	
36 Tetrahydrofuran	0.09545	0.06650	0.010	30.3	50.0	Averaged	
37 1,1,1-Trichloroethane	0.45219	0.50553	0.010	-11.8	50.0	Averaged	
38 1,1-Dichloropropene	0.40154	0.39431	0.010	-1.8	50.0	Averaged	
39 Carbon Tetrachloride	0.30648	0.42161	0.010	-37.6	50.0	Averaged	
40 1,2-Dichloroethane	0.48917	0.56731	0.010	-16.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 11-JUL-2000 08:46
 Lab File ID: ux74265.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00711A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RFSO	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
41 Benzene	1.18332	1.08856	0.010	8.0	50.0	Averaged	
42 Trichloroethene	0.32803	0.31576	0.010	3.7	50.0	Averaged	
43 1,2-Dichloropropane	0.30110	0.30658	0.010	-1.8	20.0	Averaged	
44 1,4-Dioxane	0.00191	0.00139	0.010	27.4	50.0	Averaged	
45 Dibromomethane	0.17536	0.18454	0.010	-5.2	50.0	Averaged	
46 Bromodichloromethane	0.34948	0.43642	0.010	-24.9	50.0	Averaged	
47 2-Chloroethyl vinyl ether	0.13617	0.13139	0.010	3.5	50.0	Averaged	
48 cis-1,3-Dichloropropene	0.44987	0.44487	0.010	1.1	50.0	Averaged	
49 4-Methyl-2-pentanone	0.23069	0.22664	0.010	1.8	50.0	Averaged	
50 Toluene	1.63292	1.55756	0.010	4.6	20.0	Averaged	
51 trans-1,3-Dichloropropene	0.50034	0.49339	0.010	1.4	50.0	Averaged	
52 Ethyl Methacrylate	0.32880	0.32932	0.010	-0.2	50.0	Averaged	
53 1,1,2-Trichloroethane	0.30104	0.30491	0.010	-1.3	50.0	Averaged	
54 1,3-Dichloropropane	0.52649	0.52439	0.010	0.4	50.0	Averaged	
55 Tetrachloroethene	0.32442	0.29639	0.010	8.6	50.0	Averaged	
56 2-Hexanone	0.20418	0.19409	0.010	4.9	50.0	Averaged	
57 Dibromochloromethane	0.26648	0.36048	0.010	-35.3	50.0	Averaged	
58 1,2-Dibromoethane	0.30095	0.29779	0.010	1.0	50.0	Averaged	
59 Chlorobenzene	1.12890	1.09627	0.300	2.9	50.0	Averaged	
60 1,1,1,2-Tetrachloroethane	0.32391	0.39134	0.010	-20.8	50.0	Averaged	
61 Ethylbenzene	0.55824	0.53065	0.010	4.9	20.0	Averaged	
62 m + p-Xylene	0.67044	0.63771	0.010	4.9	50.0	Averaged	
M 63 Xylenes (total)	0.66502	0.63283	0.010	4.8	50.0	Averaged	
64 Xylene-o	0.65420	0.62308	0.010	4.8	50.0	Averaged	
65 Styrene	1.13454	1.09284	0.010	3.7	50.0	Averaged	
66 Bromoform	0.10678	0.17730	0.100	-66.0	50.0	Averaged	
67 Isopropylbenzene	3.00405	2.83384	0.010	5.7	50.0	Averaged	
68 1,1,2,2-Tetrachloroethane	0.54873	0.56763	0.300	-3.4	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.17697	0.16920	0.010	4.4	50.0	Averaged	
70 1,2,3-Trichloropropane	0.19723	0.20222	0.010	-2.5	50.0	Averaged	
71 Bromobenzene	0.86543	0.83566	0.010	3.4	50.0	Averaged	
72 n-Propylbenzene	0.92408	0.84735	0.010	8.3	50.0	Averaged	
73 2-Chlorotoluene	0.79852	0.76090	0.010	4.7	50.0	Averaged	
74 1,3,5-Trimethylbenzene	2.59658	2.46042	0.010	5.2	50.0	Averaged	
75 4-Chlorotoluene	0.83381	0.80262	0.010	3.7	50.0	Averaged	
76 tert-Butylbenzene	2.37750	2.39832	0.010	-0.9	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 11-JUL-2000 08:46
 Lab File ID: ux74265.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.1/U00711A.b/N8260UX7-3.m

COMPOUND	RF50		MIN		MAX		CURVE TYPE
	RF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT		
77 1,2,4-Trimethylbenzene	2.74663	2.60273	0.010	5.2	50.0	Averaged	
78 sec-Butylbenzene	2.96887	2.69495	0.010	9.2	50.0	Averaged	
79 4-Isopropyltoluene	2.73975	2.43323	0.010	11.2	50.0	Averaged	
80 1,3-Dichlorobenzene	1.66189	1.56592	0.010	5.8	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78456	1.64179	0.010	8.0	50.0	Averaged	
82 n-Butylbenzene	2.55662	2.25568	0.010	11.8	50.0	Averaged	
83 1,2-Dichlorobenzene	1.63155	1.50134	0.010	8.0	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.10497	0.10209	0.010	2.7	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.79710	0.57794	0.010	27.5	50.0	Averaged	
86 Hexachlorobutadiene	0.45327	0.29185	0.010	35.6	50.0	Averaged	
87 Naphthalene	1.71547	1.11117	0.010	35.2	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.65825	0.39543	0.010	39.9	50.0	Averaged	
98 Cyclohexane	0.51121	0.51452	0.010	-0.6	50.0	Averaged	
143 Methyl Acetate	0.21824	0.24866	0.010	-13.9	50.0	Averaged	
144 Methylcyclohexane	0.40000	0.37928	0.010	5.2	50.0	Averaged	
141 1,3,5-Trichlorobenzene	1.07600	0.85173	0.010	20.8	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 11-JUL-2000 09:12
 Lab File ID: ux74266.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00711A.b/N8260UX7-3.m

COMPOUND	RF50		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.11761	0.15395	0.010	-30.9	50.0	Averaged	
89 Ethyl Ether	0.20277	0.20087	0.010	0.9	50.0	Averaged	
91 3-Chloropropene	0.14898	0.15041	0.010	-1.0	50.0	Averaged	
92 Isopropyl Ether	0.23027	0.22912	0.010	0.5	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.61954	0.67504	0.010	-9.0	50.0	Averaged	
94 Propionitrile	0.03401	0.03379	0.010	0.7	50.0	Averaged	
95 Ethyl Acetate	0.22448	0.24277	0.010	-8.1	50.0	Averaged	
96 Methacrylonitrile	0.16652	0.17352	0.010	-4.2	50.0	Averaged	
97 Isobutanol	0.00468	0.00578	0.010	-23.6	50.0	Averaged<-	
99 n-Butanol	0.00279	0.00297	0.010	-6.2	50.0	Averaged<-	
100 Methyl Methacrylate	0.26817	0.29250	0.010	-9.1	50.0	Averaged	
101 2-Nitropropane	0.03292	0.06394	0.010	-94.3	50.0	Averaged<-	
103 Cyclohexanone	0.02450	0.01962	0.010	19.9	50.0	Averaged	

5LCA
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP013

Lab File ID: UX74326 BFB Injection Date: 07/12/00

Instrument ID: A3UX7 BFB Injection Time: 2206

GC Column: DB624 75M ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.8
75	30.0 - 60.0% of mass 95	54.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.3 (7.4)1
176	95.0 - 101.0% of mass 174	69.2 (96.7)1
177	5.0 - 9.0% of mass 176	4.9 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74328	07/12/00	2259
02	VSTD010	50NGA9CC	UX74329	07/12/00	2325
03	DG4KG-CHK	DG4KG102	UX74330	07/12/00	2352
04	DG4KG-BLK	DG4KG101	UX74331	07/13/00	0018
05	MPT-G4-GW-13	DFM1E10V	UX74340	07/13/00	0416
06	MPT-G4-GW-14	DFM1G10V	UX74341	07/13/00	0442
07	MPT-G4-GW-15	DFM1H10V	UX74342	07/13/00	0509
08	MPT-G4-GW-16	DFM1J10V	UX74343	07/13/00	0535
09	TB062903	DFM1K101	UX74344	07/13/00	0602
10	MPT-G4-GW-17	DFM1L10V	UX74345	07/13/00	0628
11	MPT-G4-GW-DU	DFM1N10V	UX74346	07/13/00	0654
12	TB062904	DFM1P101	UX74347	07/13/00	0721
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14					
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22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 12-JUL-2000 22:59
 Lab File ID: ux74328.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00712B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.30405	0.27814	0.010	8.5	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.36948	0.35295	0.010	4.5	50.0	Averaged	
\$ 6 Toluene-d8	1.30009	1.12232	0.010	13.7	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.03615	0.88268	0.010	14.8	50.0	Averaged	
8 Dichlorodifluoromethane	0.22220	0.29219	0.010	-31.5	50.0	Averaged	
9 Chloromethane	0.30865	0.36223	0.100	-17.4	50.0	Averaged	
10 Vinyl Chloride	0.26236	0.25926	0.010	1.2	20.0	Averaged	
11 Bromomethane	0.10664	0.12996	0.010	-21.9	50.0	Averaged	
12 Chloroethane	0.11238	0.13353	0.010	-18.8	50.0	Averaged	
13 Trichlorofluoromethane	0.21756	0.28268	0.010	-29.9	50.0	Averaged	
15 Acrolein	0.01791	0.01537	0.010	14.2	50.0	Averaged	
16 Acetone	0.13138	0.14407	0.010	-9.7	50.0	Averaged	
17 1,1-Dichloroethene	0.27878	0.24960	0.010	10.5	20.0	Averaged	
18 Freon-113	0.25904	0.19553	0.010	24.5	50.0	Averaged	
19 Iodomethane	0.52799	0.48683	0.010	7.8	50.0	Averaged	
20 Carbon Disulfide	0.82257	0.91218	0.010	-10.9	50.0	Averaged	
21 Methylene Chloride	0.29181	0.30369	0.010	-4.1	50.0	Averaged	
22 Acetonitrile	0.02585	0.02804	0.010	-8.5	50.0	Averaged	
23 Acrylonitrile	0.09253	0.09879	0.010	-6.8	50.0	Averaged	
24 Methyl tert-butyl ether	0.68167	0.73110	0.010	-7.3	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.30423	0.30971	0.010	-1.8	50.0	Averaged	
26 Hexane	0.04589	0.02914	0.010	36.5	50.0	Averaged	
27 Vinyl acetate	0.33142	0.29582	0.010	10.7	50.0	Averaged	
28 1,1-Dichloroethane	0.57331	0.63141	0.100	-10.1	50.0	Averaged	
29 tert-Butyl Alcohol	0.01524	0.01545	0.010	-1.4	50.0	Averaged	
30 2-Butanone	0.13953	0.16206	0.010	-16.1	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.31073	0.31715	0.010	-2.1	50.0	Averaged	
32 cis-1,2-dichloroethene	0.31724	0.32458	0.010	-2.3	50.0	Averaged	
33 2,2-Dichloropropane	0.29939	0.29778	0.010	0.5	50.0	Averaged	
34 Bromochloromethane	0.15165	0.16191	0.010	-6.8	50.0	Averaged	
35 Chloroform	0.54301	0.60757	0.010	-11.9	20.0	Averaged	
36 Tetrahydrofuran	0.09545	0.06898	0.010	27.7	50.0	Averaged	
37 1,1,1-Trichloroethane	0.45219	0.51300	0.010	-13.4	50.0	Averaged	
38 1,1-Dichloropropene	0.40154	0.38811	0.010	3.3	50.0	Averaged	
39 Carbon Tetrachloride	0.30648	0.42088	0.010	-37.1	50.0	Averaged	
40 1,2-Dichloroethane	0.48917	0.59214	0.010	-21.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 12-JUL-2000 22:59
 Lab File ID: ux74328.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00712B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
41 Benzene	1.18332	1.13155	0.010	4.4	50.0	Averaged	
42 Trichloroethene	0.32803	0.32246	0.010	1.7	50.0	Averaged	
43 1,2-Dichloropropane	0.30110	0.32579	0.010	-8.2	20.0	Averaged	
44 1,4-Dioxane	0.00191	0.00139	0.010	27.0	50.0	Averaged|<-	
45 Dibromomethane	0.17536	0.19747	0.010	-12.6	50.0	Averaged	
46 Bromodichloromethane	0.34948	0.44063	0.010	-26.1	50.0	Averaged	
47 2-Chloroethyl vinyl ether	0.13617	0.13554	0.010	0.5	50.0	Averaged	
48 cis-1,3-Dichloropropene	0.44987	0.44472	0.010	1.1	50.0	Averaged	
49 4-Methyl-2-pentanone	0.23069	0.26979	0.010	-16.9	50.0	Averaged	
50 Toluene	1.63292	1.55621	0.010	4.7	20.0	Averaged	
51 trans-1,3-Dichloropropene	0.50034	0.49997	0.010	0.1	50.0	Averaged	
52 Ethyl Methacrylate	0.32880	0.36628	0.010	-11.4	50.0	Averaged	
53 1,1,2-Trichloroethane	0.30104	0.32365	0.010	-7.5	50.0	Averaged	
54 1,3-Dichloropropene	0.52649	0.56248	0.010	-6.8	50.0	Averaged	
55 Tetrachloroethene	0.32442	0.28504	0.010	12.1	50.0	Averaged	
56 2-Hexanone	0.20418	0.25750	0.010	-26.1	50.0	Averaged	
57 Dibromochloromethane	0.26648	0.38714	0.010	-45.3	50.0	Averaged	
58 1,2-Dibromoethane	0.30095	0.31708	0.010	-5.4	50.0	Averaged	
59 Chlorobenzene	1.12890	1.08145	0.300	4.2	50.0	Averaged	
60 1,1,1,2-Tetrachloroethane	0.32391	0.41175	0.010	-27.1	50.0	Averaged	
61 Ethylbenzene	0.55824	0.50600	0.010	9.4	20.0	Averaged	
62 m + p-Xylene	0.67044	0.60836	0.010	9.3	50.0	Averaged	
M 63 Xylenes (total)	0.66502	0.60848	0.010	8.5	50.0	Averaged	
64 Xylene-o	0.65420	0.60871	0.010	7.0	50.0	Averaged	
65 Styrene	1.13454	1.06134	0.010	6.5	50.0	Averaged	
66 Bromoform	0.10678	0.20254	0.100	-89.7	50.0	Averaged|<-	
67 Isopropylbenzene	3.00405	2.59783	0.010	13.5	50.0	Averaged	
68 1,1,1,2,2-Tetrachloroethane	0.54873	0.57868	0.300	-5.5	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.17697	0.16392	0.010	7.4	50.0	Averaged	
70 1,2,3-Trichloropropane	0.19723	0.21204	0.010	-7.5	50.0	Averaged	
71 Bromobenzene	0.86543	0.82286	0.010	4.9	50.0	Averaged	
72 n-Propylbenzene	0.92408	0.74036	0.010	19.9	50.0	Averaged	
73 2-Chlorotoluene	0.79852	0.70534	0.010	11.7	50.0	Averaged	
74 1,3,5-Trimethylbenzene	2.59658	2.23985	0.010	13.7	50.0	Averaged	
75 4-Chlorotoluene	0.83381	0.74287	0.010	10.9	50.0	Averaged	
76 tert-Butylbenzene	2.37750	1.86316	0.010	21.6	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 12-JUL-2000 22:59
 Lab File ID: ux74328.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00712B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIPT	%D / %DRIPT		
77 1,2,4-Trimethylbenzene	2.74663	2.36826	0.010	13.8	50.0	Averaged	
78 sec-Butylbenzene	2.96887	2.30819	0.010	22.3	50.0	Averaged	
79 4-Isopropyltoluene	2.73975	2.10890	0.010	23.0	50.0	Averaged	
80 1,3-Dichlorobenzene	1.66189	1.46999	0.010	11.5	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78456	1.55110	0.010	13.1	50.0	Averaged	
82 n-Butylbenzene	2.55662	1.86983	0.010	26.9	50.0	Averaged	
83 1,2-Dichlorobenzene	1.63155	1.45539	0.010	10.8	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.10497	0.11932	0.010	-13.7	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.79710	0.56707	0.010	28.9	50.0	Averaged	
86 Hexachlorobutadiene	0.45327	0.23744	0.010	47.6	50.0	Averaged	
87 Naphthalene	1.71547	1.31749	0.010	23.2	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.65825	0.41502	0.010	37.0	50.0	Averaged	
98 Cyclohexane	0.51121	0.39658	0.010	22.4	50.0	Averaged	
143 Methyl Acetate	0.21824	0.24785	0.010	-13.6	50.0	Averaged	
144 Methylcyclohexane	0.40000	0.27839	0.010	30.4	50.0	Averaged	
141 1,3,5-Trichlorobenzene	1.07600	0.71180	0.010	33.8	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 12-JUL-2000 23:25
 Lab File ID: ux74329.d Init. Cal. Date(s): 07-JUL-2000 07-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 08:39 13:48
 Lab Sample ID: 50NGA9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00712B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.11751	0.19773	0.010	-68.1	50.0	Averaged	<-
89 Ethyl Ether	0.20277	0.19968	0.010	1.5	50.0	Averaged	
91 3-Chloropropene	0.14898	0.14476	0.010	2.8	50.0	Averaged	
92 Isopropyl Ether	0.23027	0.23160	0.010	-0.6	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.61954	0.64354	0.010	-3.9	50.0	Averaged	
94 Propionitrile	0.03401	0.03566	0.010	-4.8	50.0	Averaged	
95 Ethyl Acetate	0.22448	0.21820	0.010	2.8	50.0	Averaged	
96 Methacrylonitrile	0.16652	0.18158	0.010	-9.0	50.0	Averaged	
97 Isobutanol	0.00468	0.00755	0.010	-61.5	50.0	Averaged	<-
99 n-Butanol	0.00279	0.00381	0.010	-36.3	50.0	Averaged	<-
100 Methyl Methacrylate	0.26817	0.31094	0.010	-16.0	50.0	Averaged	
101 2-Nitropropane	0.03292	0.07444	0.010	-126.1	50.0	Averaged	<-
103 Cyclohexanone	0.02450	0.02834	0.010	-15.7	50.0	Averaged	

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFX6P101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP013

Lab File ID: ux74131.d

Lot Number: A0F280235

Date Analyzed: 07/08/00

Time Analyzed: 10:48

Matrix: WATER

Date Extracted:07/08/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-01-11	DFF8V102	ux74134.d	07/08/00	12:07
02	MPT-G4-GW-01-11	DFF8V111 S	ux74142.d	07/08/00	15:38
03	MPT-G4-GW-01-11	DFF8V112 D	ux74143.d	07/08/00	16:05
04	MPT-G4-GW-05-04	DFF9C102	ux74138.d	07/08/00	13:53
05	MPT-G4-GW-06-07	DFF9D102	ux74139.d	07/08/00	14:19
06	MPT-G4-GW-07-05	DFF9F102	ux74140.d	07/08/00	14:45
07	TB062701	DFF9H101	ux74141.d	07/08/00	15:12
08	MPT-G4-GW-02-05	DFF97102	ux74135.d	07/08/00	12:33
09	MPT-G4-GW-03-05	DFF98102	ux74136.d	07/08/00	13:00
10	MPT-G4-GW-04-04	DFF99102	ux74137.d	07/08/00	13:26
11	CHECK SAMPLE	DFX6P102 C	ux74130.d	07/08/00	10:21
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: AOG100000 104
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/28/00
Work Order: DFX6P101 Date Extracted: 07/08/00
Dilution factor: 1 Date Analyzed: 07/08/00
Moisture %: NA

QC Batch: 0192104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.11	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: A0G100000 104
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/28/00
Work Order: DFX6P101 Date Extracted: 07/08/00
Dilution factor: 1 Date Analyzed: 07/08/00
Moisture %: NA

QC Batch: 0192104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.43		J
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.058		J
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG2FN101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP013

Lab File ID: ux74268.d

Lot Number: A0G010106

Date Analyzed: 07/11/00

Time Analyzed: 10:05

Matrix: WATER

Date Extracted:07/11/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-08-05	DFM1210V	ux74276.d	07/11/00	13:37
02	MPT-G4-GW-08-05	DFM1212H S	ux74287.d	07/11/00	18:30
03	MPT-G4-GW-08-05	DFM1212J D	ux74288.d	07/11/00	18:57
04	MPT-G4-GW-09-11	DFM1310V	ux74277.d	07/11/00	14:04
05	MPT-G4-GW-10-10	DFM1410V	ux74278.d	07/11/00	14:30
06	MPT-G4-GW-11-05	DFM1510V	ux74279.d	07/11/00	14:57
07	MPT-G4-GW-12-05	DFM1610V	ux74280.d	07/11/00	15:23
08	TRIP BLANK	DFM17101	ux74281.d	07/11/00	15:50
09	CHECK SAMPLE	DG2FN102 C	ux74267.d	07/11/00	09:39
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: A0G120000 135

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/29/00

Work Order: DG2FN101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %: NA

QC Batch: 0194135

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.063	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I.

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: AOG120000 135
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/29/00
Work Order: DG2FN101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/11/00
Moisture %: NA

QC Batch: 0194135

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.22	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.048	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG4KG101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP013

Lab File ID: ux74331.d

Lot Number: A0G010107

Date Analyzed: 07/13/00

Time Analyzed: 00:18

Matrix: WATER

Date Extracted:07/13/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LAB MS/MSD	DFL2H10T S	ux74338.d	07/13/00	03:23
02	LAB MS/MSD	DFL2H10U D	ux74339.d	07/13/00	03:49
03	INTRA-LAB QC	DFL2H101	ux74337.d	07/13/00	02:56
04	MPT-G4-GW-13-06	DFM1E10V	ux74340.d	07/13/00	04:16
05	MPT-G4-GW-14-10	DFM1G10V	ux74341.d	07/13/00	04:42
06	MPT-G4-GW-15-09	DFM1H10V	ux74342.d	07/13/00	05:09
07	MPT-G4-GW-16-08	DFM1J10V	ux74343.d	07/13/00	05:35
08	TB062903	DFM1K101	ux74344.d	07/13/00	06:02
09	MPT-G4-GW-17-09	DFM1L10V	ux74345.d	07/13/00	06:28
10	MPT-G4-GW-DU01	DFM1N10V	ux74346.d	07/13/00	06:54
11	TB062904	DFM1P101	ux74347.d	07/13/00	07:21
12	CHECK SAMPLE	DG4KG102 C	ux74330.d	07/12/00	23:52
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: AOG130000 170

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/30/00

Work Order: DG4KG101 Date Extracted: 07/13/00

Dilution factor: 1 Date Analyzed: 07/13/00

Moisture %: NA

QC Batch: 0195170

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: A0G130000 170
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/30/00
Work Order: DG4KG101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %: NA

QC Batch: 0195170

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.80	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.059	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: AOG130000 170

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DG4KG101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: NA

QC Batch: 0195170

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

105 7/8

SDG No: MP013

Lot #: A0G100000

WO #: DFX6P102

BATCH: 0192104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	18	92	61 - 129	
Bromomethane	20	21	107	47 - 160	
Vinyl chloride	20	19	96	69 - 121	
Chloroethane	20	21	104	80 - 118	
Methylene chloride	20	19	94	81 - 134	
Acetone	20	21	106	10 - 279	
Carbon disulfide	20	20	102	81 - 125	
1,1-Dichloroethene	20	18	91	63 - 130	
1,1-Dichloroethane	20	20	101	87 - 120	
1,2-Dichloroethene (total)	40	37	92	50 - 150	
2-Butanone (MEK)	20	21	106	20 - 232	
Chloroform	20	20	100	90 - 117	
1,2-Dichloroethane	20	21	106	88 - 119	
1,1,1-Trichloroethane	20	20	102	91 - 113	
Carbon tetrachloride	20	23	114	84 - 119	
Bromodichloromethane	20	22	110	90 - 114	
1,2-Dichloropropane	20	20	100	91 - 113	
cis-1,3-Dichloropropene	20	19	97	85 - 112	
Trichloroethene	20	19	97	75 - 122	
Dibromochloromethane	20	24	120*	81 - 112	a
Benzene	20	18	89	80 - 116	
1,1,2-Trichloroethane	20	20	98	81 - 117	
Bromoform	20	28	139*	71 - 118	a
4-Methyl-2-pentanone (MIB)	20	22	110	11 - 210	
2-Hexanone	20	25	125	10 - 225	
trans-1,3-Dichloropropene	20	18	92	84 - 112	
Tetrachloroethene	20	19	93	83 - 111	
1,1,2,2-Tetrachloroethane	20	21	103	80 - 127	
Toluene	20	18	91	74 - 119	
Chlorobenzene	20	19	94	76 - 117	
Ethylbenzene	20	18	92	90 - 116	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G100000

WO #: DFX6P102

BATCH: 0192104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	18	90	81 - 113	
Xylenes (total)	60	54	91	90 - 114	
cis-1,2-Dichloroethene	20	19	94	50 - 150	
trans-1,2-Dichloroethene	20	18	91	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 35 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: AOG120000

WO #: DG2FN102

BATCH: 0194135

ics 7/11

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	18	91	61 - 129	
Bromomethane	20	23	114	47 - 160	
Vinyl chloride	20	18	88	69 - 121	
Chloroethane	20	22	110	80 - 118	
Methylene chloride	20	19	95	81 - 134	
Acetone	20	14	71	10 - 279	
Carbon disulfide	20	21	103	81 - 125	
1,1-Dichloroethene	20	19	96	63 - 130	
1,1-Dichloroethane	20	21	105	87 - 120	
1,2-Dichloroethene (total)	40	37	94	50 - 150	
Chloroform	20	21	107	90 - 117	
1,2-Dichloroethane	20	23	114	88 - 119	
2-Butanone (MEK)	20	16	82	20 - 232	
1,1,1-Trichloroethane	20	23	115*	91 - 113	a
Carbon tetrachloride	20	29	145*	84 - 119	a
Bromodichloromethane	20	24	121*	90 - 114	a
1,2-Dichloropropane	20	20	102	91 - 113	
cis-1,3-Dichloropropene	20	20	101	85 - 112	
Trichloroethene	20	20	98	75 - 122	
Dibromochloromethane	20	27	135*	81 - 112	a
1,1,2-Trichloroethane	20	19	96	81 - 117	
Benzene	20	18	90	80 - 116	
trans-1,3-Dichloropropene	20	20	101	84 - 112	
Bromoform	20	34	170*	71 - 118	a
4-Methyl-2-pentanone (MIB)	20	20	101	11 - 210	
2-Hexanone	20	20	98	10 - 225	
Tetrachloroethene	20	18	92	83 - 111	
1,1,2,2-Tetrachloroethane	20	21	103	80 - 127	
Toluene	20	18	91	74 - 119	
Chlorobenzene	20	19	94	76 - 117	
Ethylbenzene	20	18	91	90 - 116	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G120000

WO #: DG2FN102

BATCH: 0194135

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	18	91	81 - 113	
Xylenes (total)	60	54	90	90 - 114	
cis-1,2-Dichloroethene	20	19	95	50 - 150	
trans-1,2-Dichloroethene	20	19	93	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 5 out of 35 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G130000

WO #: DG4KG102

BATCH: 0195170

CS 7/12

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	18	92	61 - 129	
Bromomethane	20	22	109	47 - 160	
Vinyl chloride	20	16	82	69 - 121	
Chloroethane	20	22	111	80 - 118	
Methylene chloride	20	19	97	81 - 134	
Acetone	20	23	116	10 - 279	
Carbon disulfide	20	19	96	81 - 125	
1,1-Dichloroethene	20	17	84	63 - 130	
1,1-Dichloroethane	20	21	105	87 - 120	
1,2-Dichloroethene (total)	40	37	92	50 - 150	
Chloroform	20	21	107	90 - 117	
1,2-Dichloroethane	20	23	116	88 - 119	
2-Butanone (MEK)	20	22	110	20 - 232	
1,1,1-Trichloroethane	20	22	110	91 - 113	
Carbon tetrachloride	20	26	132*	84 - 119	a
Bromodichloromethane	20	24	122*	90 - 114	a
1,2-Dichloropropane	20	20	101	91 - 113	
cis-1,3-Dichloropropene	20	20	100	85 - 112	
Trichloroethene	20	19	95	75 - 122	
Dibromochloromethane	20	29	144*	81 - 112	a
1,1,2-Trichloroethane	20	20	100	81 - 117	
Benzene	20	18	88	80 - 116	
trans-1,3-Dichloropropene	20	20	102	84 - 112	
Bromoform	20	36	182*	71 - 118	a
4-Methyl-2-pentanone (MIB)	20	22	108	11 - 210	
2-Hexanone	20	25	127	10 - 225	
Tetrachloroethene	20	16	82*	83 - 111	a
1,1,2,2-Tetrachloroethane	20	20	102	80 - 127	
Toluene	20	18	89	74 - 119	
Chlorobenzene	20	18	92	76 - 117	
Ethylbenzene	20	17	84*	90 - 116	a

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SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G130000

WO #: DG4KG102

BATCH: 0195170

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	18	88	81 - 113	
Xylenes (total)	60	51	86*	90 - 114	a
cis-1,2-Dichloroethene	20	19	94	50 - 150	
trans-1,2-Dichloroethene	20	18	90	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 7 out of 35 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V111

BATCH: 0192104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	20	0.49	19	93	62 - 130	
Chloromethane	20	0.28	18	87	61 - 129	
Bromomethane	20	ND	20	100	47 - 160	
Vinyl chloride	20	ND	19	95	69 - 121	
Chloroethane	20	ND	22	108	80 - 118	
Methylene chloride	20	ND	19	93	81 - 134	
Acetone	20	1.7	12	54	10 - 279	
Carbon disulfide	20	0.43	22	106	81 - 125	
1,1-Dichloroethane	20	ND	20	102	87 - 120	
1,2-Dichloroethene (total	40	ND	37	93	50 - 150	
Chloroform	20	ND	21	103	90 - 117	
1,2-Dichloroethane	20	ND	21	107	88 - 119	
2-Butanone (MEK)	20	ND	16	81	20 - 232	
1,1,1-Trichloroethane	20	ND	21	107	91 - 113	
Carbon tetrachloride	20	ND	24	119	84 - 119	
Bromodichloromethane	20	ND	23	113	90 - 114	
1,2-Dichloropropane	20	ND	20	99	91 - 113	
cis-1,3-Dichloropropene	20	ND	19	96	85 - 112	
Trichloroethene	20	ND	20	98	62 - 130	
Dibromochloromethane	20	ND	24	122*	81 - 112	a
1,1,2-Trichloroethane	20	ND	20	98	81 - 117	
Benzene	20	ND	18	89	76 - 118	
trans-1,3-Dichloropropene	20	ND	19	94	84 - 112	
Bromoform	20	ND	29	145*	71 - 118	a
4-Methyl-2-pentanone (MIB	20	0.50	21	103	11 - 210	
2-Hexanone	20	ND	19	95	10 - 225	
Tetrachloroethene	20	ND	19	94	83 - 111	
1,1,2,2-Tetrachloroethane	20	ND	21	103	80 - 127	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V111

BATCH: 0192104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS * REC	LIMITS REC	QUAL
Toluene	20	0.074	18	91	70 - 119	
Chlorobenzene	20	ND	19	94	76 - 117	
Ethylbenzene	20	0.083	18	92	90 - 116	
Styrene	20	ND	18	91	81 - 113	
Xylenes (total)	60	ND	55	92	90 - 114	
cis-1,2-Dichloroethene	20	ND	19	94	50 - 150	
trans-1,2-Dichloroethene	20	ND	18	92	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 2 out of 35 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V112

BATCH: 0192104

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
1,1-Dichloroethene	20	17	85	8.8	17	62 - 130	
Chloromethane	20	17	86	1.1	20	61 - 129	
Bromomethane	20	19	94	5.7	22	47 - 160	
Vinyl chloride	20	19	93	1.3	27	69 - 121	
Chloroethane	20	21	103	4.8	17	80 - 118	
Methylene chloride	20	19	93	0.20	27	81 - 134	
Acetone	20	13	55	1.7	32	10 - 279	
Carbon disulfide	20	21	104	1.3	19	81 - 125	
1,1-Dichloroethane	20	21	103	1.4	22	87 - 120	
1,2-Dichloroethene (total)	40	37	93	0.11	50	50 - 150	
Chloroform	20	21	104	0.54	18	90 - 117	
1,2-Dichloroethane	20	21	107	0.45	12	88 - 119	
2-Butanone (MEK)	20	17	83	3.1	35	20 - 232	
1,1,1-Trichloroethane	20	22	108	0.75	17	91 - 113	
Carbon tetrachloride	20	24	122*	2.3	17	84 - 119	a
Bromodichloromethane	20	23	114	0.82	18	90 - 114	
1,2-Dichloropropane	20	20	99	0.16	18	91 - 113	
cis-1,3-Dichloropropene	20	20	98	2.2	19	85 - 112	
Trichloroethene	20	20	98	0.22	14	62 - 130	
Dibromochloromethane	20	25	126*	3.5	18	81 - 112	a
1,1,2-Trichloroethane	20	20	99	1.5	20	81 - 117	
Benzene	20	18	90	0.61	14	76 - 118	
trans-1,3-Dichloropropene	20	20	98	3.2	32	84 - 112	
Bromoform	20	31	155*	6.7	34	71 - 118	a
4-Methyl-2-pentanone (MIB)	20	22	106	2.0	34	11 - 210	
2-Hexanone	20	20	100	4.8	24	10 - 225	
Tetrachloroethene	20	19	94	0.060	26	83 - 111	
1,1,2,2-Tetrachloroethane	20	21	103	0.11	24	80 - 127	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V112

BATCH: 0192104

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Toluene	20	19	93	2.2	16	70 - 119	
Chlorobenzene	20	19	96	2.0	15	76 - 117	
Ethylbenzene	20	18	92	0.10	18	90 - 116	
Styrene	20	19	93	1.7	18	81 - 113	
Xylenes (total)	60	56	92	0.39	25	90 - 114	
cis-1,2-Dichloroethene	20	19	95	0.94	50	50 - 150	
trans-1,2-Dichloroethene	20	18	91	1.2	50	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 35 outside limits
 Spike Recovery: 3 out of 35 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-08-05

Lot #: A0G010106

WO #: DFM1212H

BATCH: 0194135

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	20	0.81	19	93	62 - 130	
Chloromethane	20	0.48	18	87	61 - 129	
Bromomethane	20	ND	21	106	47 - 160	
Vinyl chloride	20	ND	15	76	69 - 121	
Chloroethane	20	ND	22	110	80 - 118	
Methylene chloride	20	2.8	21	93	81 - 134	
Acetone	20	3.3	15	60	10 - 279	
Carbon disulfide	20	ND	21	103	81 - 125	
1,1-Dichloroethane	20	ND	21	104	87 - 120	
1,2-Dichloroethene (total)	40	ND	37	92	50 - 150	
Chloroform	20	ND	21	106	90 - 117	
1,2-Dichloroethane	20	ND	23	117	88 - 119	
2-Butanone (MEK)	20	0.66	19	90	20 - 232	
1,1,1-Trichloroethane	20	ND	22	111	91 - 113	
Carbon tetrachloride	20	ND	28	140*	84 - 119	a
Bromodichloromethane	20	ND	24	122*	90 - 114	a
1,2-Dichloropropane	20	ND	20	99	91 - 113	
cis-1,3-Dichloropropene	20	ND	20	99	85 - 112	
Trichloroethene	20	ND	19	94	62 - 130	
Dibromochloromethane	20	ND	29	146*	81 - 112	a
1,1,2-Trichloroethane	20	ND	21	105	81 - 117	
Benzene	20	ND	18	88	76 - 118	
trans-1,3-Dichloropropene	20	ND	21	106	84 - 112	
Bromoform	20	ND	38	192*	71 - 118	a
4-Methyl-2-pentanone (MIB)	20	0.63	25	122	11 - 210	
2-Hexanone	20	ND	24	121	10 - 225	
Tetrachloroethene	20	ND	18	92	83 - 111	
1,1,2,2-Tetrachloroethane	20	ND	24	118	80 - 127	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-08-05

Lot #: A0G010106

WO #: DFMI212H

BATCH: 0194135

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS ‡ REC	LIMITS REC	QUAL
Toluene	20	0.064	19	93	70 - 119	
Chlorobenzene	20	ND	19	95	76 - 117	
Ethylbenzene	20	ND	18	91	90 - 116	
Styrene	20	ND	18	91	81 - 113	
Xylenes (total)	60	ND	55	91	90 - 114	
cis-1,2-Dichloroethene	20	ND	19	93	50 - 150	
trans-1,2-Dichloroethene	20	ND	18	91	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 4 out of 35 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-08-05

Lot #: A0G010106

WO #: DFML212J

BATCH: 0194135

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
1,1-Dichloroethene	20	19	89	4.2	17	62 - 130	
Chloromethane	20	18	86	1.6	20	61 - 129	
Bromomethane	20	21	104	1.8	22	47 - 160	
Vinyl chloride	20	17	86	12	27	69 - 121	
Chloroethane	20	21	106	3.5	17	80 - 118	
Methylene chloride	20	21	92	0.85	27	81 - 134	
Acetone	20	14	55	6.8	32	10 - 279	
Carbon disulfide	20	21	103	0.0	19	81 - 125	
1,1-Dichloroethane	20	21	104	0.44	22	87 - 120	
1,2-Dichloroethene (total)	40	37	92	0.23	50	50 - 150	
Chloroform	20	21	105	1.0	18	90 - 117	
1,2-Dichloroethane	20	23	117	0.54	12	88 - 119	
2-Butanone (MEK)	20	18	86	4.0	35	20 - 232	
1,1,1-Trichloroethane	20	23	113	1.5	17	91 - 113	
Carbon tetrachloride	20	29	144*	2.8	17	84 - 119	a
Bromodichloromethane	20	24	122*	0.57	18	90 - 114	a
1,2-Dichloropropane	20	20	98	0.70	18	91 - 113	
cis-1,3-Dichloropropene	20	20	99	0.16	19	85 - 112	
Trichloroethene	20	19	95	1.5	14	62 - 130	
Dibromochloromethane	20	29	144*	1.0	18	81 - 112	a
1,1,2-Trichloroethane	20	21	103	1.9	20	81 - 117	
Benzene	20	18	88	0.010	14	76 - 118	
trans-1,3-Dichloropropene	20	21	106	0.080	32	84 - 112	
Bromoform	20	38	192*	0.080	34	71 - 118	a
4-Methyl-2-pentanone (MIB)	20	24	117	3.8	34	11 - 210	
2-Hexanone	20	23	113	6.6	24	10 - 225	
Tetrachloroethene	20	19	93	1.4	26	83 - 111	
1,1,2,2-Tetrachloroethane	20	23	117	1.2	24	80 - 127	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-08-05

Lot #: A0G010106

WO #: DFML212J

BATCH: 0194135

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Toluene	20	18	92	1.2	16	70 - 119	
Chlorobenzene	20	19	95	0.16	15	76 - 117	
Ethylbenzene	20	18	91	0.32	18	90 - 116	
Styrene	20	18	91	0.21	18	81 - 113	
Xylenes (total)	60	54	91	0.89	25	90 - 114	
cis-1,2-Dichloroethene	20	19	93	0.19	50	50 - 150	
trans-1,2-Dichloroethene	20	18	91	0.28	50	70 - 130	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 35 outside limits

Spike Recovery: 4 out of 35 outside limits

COMMENTS:

CLIENT <i>NS Mayport</i>		JOB NUMBER	
SUBJECT <i>Sample Calc.</i>			
BASED ON <i>LCS (CHECK) 7/8/00</i>		DRAWING NUMBER	
BY <i>Douglas S. Schloer</i>	CHECKED BY	APPROVED BY	DATE <i>9/14/00</i>

Fraction : Volatile
 Matrix : Aqueous
 Compound : Benzene
 Form I : 18 $\mu\text{g/L}$

$$\mu\text{g/L} = \frac{A_x (I_s)(DF)}{RRF (A_{is})(V_o)}$$

$A_x = 1879398 \text{ Area}$

$$= \frac{1879398 \text{ Area} (50 \text{ ng})(1)}{1.18332 (890159 \text{ Area})(5.0 \text{ mL})}$$

$I_s = 50 \text{ ng}$

$$= 17.84 \text{ ng/mL or } \mu\text{g/L}$$

$DF = 1$

$RRF = 1.18332$

$A_{is} = 890159 \text{ Area}$

$V_o = 5.0 \text{ mL}$

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3ux7.i/U00708A.b/ux74130.d
 Lab Smp Id: CHECK Client Smp ID: CHECK
 Inj Date : 08-JUL-2000 10:21
 Operator : 43582 Inst ID: a3ux7.i
 Smp Info : CHECK
 Misc Info :
 Comment :
 Method : /chem/can/msv/a3ux7.i/U00708A.b/N8260UX7-3.m
 Meth Date : 09-Jul-2000 14:21 evansl Quant Type: ISTD
 Cal Date : 07-JUL-2000 13:48 Cal File: ux74099.d
 Als bottle: 3 QC Sample: METHSPIKE
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-8260.sub
 Target Version: 3.50
 Processing Host: hpuxcs3

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample volume
Va	100.00000	Injection Volume

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
* 1 Fluorobenzene	96	9.537	9.539	(1.000)	890159	50.0000	
* 2 Chlorobenzene-d5	117	13.746	13.749	(1.000)	718212	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	17.275	17.277	(1.000)	384332	50.0000	
\$ 4 Dibromofluoromethane	113	8.636	8.639	(0.906)	243313	44.9499	8.990
\$ 5 1,2-Dichloroethane-d4	65	9.099	9.101	(0.954)	292767	44.5080	8.902
\$ 6 Toluene-d8	98	11.629	11.632	(0.846)	788686	42.2328	8.446
\$ 7 Bromofluorobenzene	95	15.699	15.702	(0.909)	339132	42.5803	8.516
8 Dichlorodifluoromethane	85	3.265	3.243	(0.342)	320487	81.0156	16.203
9 Chloromethane	50	3.575	3.577	(0.375)	503843	91.6919	18.338
10 Vinyl Chloride	62	3.782	3.784	(0.397)	449250	96.1800	19.236
11 Bromomethane	94	4.372	4.380	(0.458)	202218	106.511	21.302
12 Chloroethane	64	4.536	4.545	(0.476)	207260	103.592	20.718
13 Trichlorofluoromethane	101	4.907	4.904	(0.515)	444344	114.722	22.944
15 Acrolein	56	5.509	5.506	(0.578)	34465	108.119	21.624
16 Acetone	43	5.716	5.737	(0.599)	248799	106.367	21.273

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
17 1,1-Dichloroethene	96	5.680	5.682	(0.596)	452061	91.0819	18.216
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	6.045	6.041	(0.634)	1498378	102.317	20.463
21 Methylene Chloride	84	6.337	6.333	(0.664)	490687	94.4510	18.890
22 Acetonitrile	41	6.118	6.132	(0.642)	490405	1065.61	213.12
23 Acrylonitrile	53	6.647	6.650	(0.697)	188320	114.323	22.865
24 Methyl tert-butyl ether	73	6.696	6.698	(0.702)	1156315	95.2811	19.056
25 trans-1,2-Dichloroethane	96	6.720	6.723	(0.705)	493170	91.0542	18.211
26 Hexane	86	7.073	7.075	(0.742)	79217	96.9565	19.391
27 Vinyl acetate	43	7.073	7.288	(0.742)	381941	64.7325	12.946
28 1,1-Dichloroethane	63	7.280	7.282	(0.763)	1032581	101.167	20.233
29 tert-Butyl Alcohol	59	6.446	6.467	(0.676)	10566	38.9500	7.790
30 2-Butanone	43	8.016	8.030	(0.841)	263332	106.009	21.202
M 31 1,2-Dichloroethane (total)	96				1022858	184.840	36.968
32 cis-1,2-dichloroethane	96	8.034	8.037	(0.842)	529688	93.7855	18.757
33 2,2-Dichloropropane	77	Compound Not Detected.					
34 Bromochloromethane	128	Compound Not Detected.					
35 Chloroform	83	8.430	8.432	(0.884)	971569	100.501	20.100
36 Tetrahydrofuran	42	8.436	8.444	(0.885)	7845	4.61659	0.9233
37 1,1,1-Trichloroethane	97	8.722	8.718	(0.915)	822284	102.142	20.428
38 1,1-Dichloropropane	75	Compound Not Detected.					
39 Carbon Tetrachloride	117	8.947	8.955	(0.938)	620566	113.732	22.746
40 1,2-Dichloroethane	62	9.196	9.198	(0.964)	920163	105.658	21.132
41 Benzene	78	9.202	9.205	(0.965)	1879398	89.2108	17.842
42 Trichloroethane	130	10.023	10.026	(1.051)	568582	97.3613	19.472
43 1,2-Dichloropropane	63	10.321	10.318	(1.082)	534607	99.7306	19.946
44 1,4-Dioxane	88	Compound Not Detected.					
45 Dibromomethane	93	10.492	10.488	(1.100)	3463	1.10923	0.2218
46 Bromodichloromethane	83	10.656	10.652	(1.117)	681628	109.554	21.911
47 2-Chloroethyl vinyl ether	63	10.991	10.993	(1.152)	204857	84.5004	16.900
48 cis-1,3-Dichloropropane	75	11.240	11.243	(1.179)	777130	97.0304	19.406
49 4-Methyl-2-pentanone	43	11.398	11.401	(1.195)	450590	109.714	21.943
50 Toluene	91	11.727	11.729	(0.853)	2134242	90.9908	18.198
51 trans-1,3-Dichloropropene	75	11.970	11.973	(0.871)	663453	92.3120	18.462
52 Ethyl Methacrylate	69	Compound Not Detected.					
53 1,1,2-Trichloroethane	97	12.244	12.246	(0.891)	422647	97.7387	19.548
54 1,3-Dichloropropane	76	Compound Not Detected.					
55 Tetrachloroethane	164	12.499	12.502	(0.909)	431283	92.5502	18.510
56 2-Hexanone	43	12.530	12.532	(0.911)	365818	124.731	24.946
57 Dibromochloromethane	129	12.834	12.836	(0.934)	458863	119.878	23.976
58 1,2-Dibromoethane	107	Compound Not Detected.					
59 Chlorobenzene	112	13.801	13.798	(1.004)	1528157	94.2388	18.848
60 1,1,1,2-Tetrachloroethane	131	13.911	13.907	(1.012)	1747	0.37548	0.07510
61 Ethylbenzene	106	13.935	13.938	(1.014)	734900	91.6479	18.330
62 m + p-Xylene	106	14.130	14.132	(1.028)	1742085	180.896	36.179
M 63 Xylenes (total)	106				2595252	271.687	54.337

Batch # 0192104

STL-NORTH CANTON
GC/MS VOA Run Log

2/11

Date: 2/11/00

Column Type: <u>1024</u> Length: <u>60</u> M I.D. <u>0.25</u> mm Flow Rate: <u>2ml/min</u>	BFB <u>100</u> C for <u>1</u> min to <u>230</u> @ <u>20</u> C/min Hold <u>1</u> min	Analysis <u>45</u> C for <u>2</u> min to <u>400</u> @ <u>10</u> C/min to <u>240</u> @ <u>15</u> C/min Hold <u>1</u> min	Purge & Trap Trap: <u>10</u> Purge: <u>1</u> Desorb: <u>2</u> min @ <u>240</u> Bake: <u>6</u> min @ <u>230</u> Heated Purge: Yes No
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Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Sample prep	Comments	Sample status
	BFB		AFB 544	dis yect 544		(9:13)	OK
1	UX STD		UX74428	50ug		U00707	OK
2	A4 STD		29	I		I	OK
3	check	DFX68102	30	100ug	DFX68102		OK
4	blank	DFX68101	31	5ml	DFX68101	Ø, mech, fol	OK
5	check dup		32	100ug	DFX6803		OK
6	DFEX0101	ED	33	5ml			OK
7	DFE8V101	ED	AAVY	34			OK
8	DFE97102			35			OK
9	DFE98102			36			OK
10	DFE99102			37			OK
11	DFE9C102			38			OK
12	DFE9D102			39			OK
13	DFE9E102			40			OK
14	DFE9H101			41			OK
15	DFE8V111 (5)			42	1700ug		OK
16	DFE8V112 (9)			43	I		OK
17	DFH77101	TRW		44			OK
18	DFH1G101			45			OK
19	DFH1K101			46			OK
20	DFH1L101			47			OK
21	DFH1M101			48			OK
22	DFH1N101			49	I		OK
23	DFH1Q101			50	1ml/5ml		OK
24	DFH1T101			51	5ml		OK
25	DFH1W101			52	I		OK
26	DFH1X101			53	I		OK
27	DFH21101			54	I		OK

Analyst: [Signature]
Second level Review: [Signature]

No 025

N:\QAQC\Lab Forms\voa run logs

SDG NARRATIVE
MP013

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFGA4101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP013

Lab File ID: DFGA4101.

Lot Number: A0F280235

Date Analyzed: 07/07/00

Time Analyzed: 10:00

Matrix: WATER

Date Extracted:06/29/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-01-11	DFE8V103	DFE8V103.	07/07/00	11:15
02	MPT-G4-GW-01-11	DFE8V105 S	DFE8V105.	07/07/00	11:52
03	MPT-G4-GW-01-11	DFE8V106 D	DFE8V106.	07/07/00	12:29
04	MPT-G4-GW-05-04	DFE9C103	DFE9C103.	07/07/00	14:58
05	MPT-G4-GW-06-07	DFE9D103	DFE9D103.	07/07/00	15:35
06	MPT-G4-GW-07-05	DFE9F103	DFE9F103.	07/07/00	16:13
07	MPT-G4-GW-02-05	DFE97103	DFE97103.	07/07/00	13:06
08	MPT-G4-GW-03-05	DFE98103	DFE98103.	07/07/00	13:43
09	MPT-G4-GW-04-04	DFE99103	DFE99103.	07/07/00	14:21
10	CHECK SAMPLE	DFGA4102 C	DFGA4102.	07/07/00	10:37
11					
12					
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14					
15					
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17					
18					
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30					

COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: A0F290000 154

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFGA4101

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %: NA

QC Batch: 0181154

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	2.6		J
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: A0F290000 154

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFGA4101

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %: NA

QC Batch: 0181154

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: A0F290000 154
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/28/00
Work Order: DFGA4101 Date Extracted: 06/29/00
Dilution factor: 1 Date Analyzed: 07/07/00
Moisture %: NA

QC Batch: 0181154

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: A0F290000 154

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/28/00
Work Order: DFGA4101 Date Extracted: 06/29/00
Dilution factor: 1 Date Analyzed: 07/07/00
Moisture %: NA

QC Batch: 0181154

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: A0F290000 154

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/28/00

Work Order: DFGA4101

Date Extracted: 06/29/00

Dilution factor: 1

Date Analyzed: 07/07/00

Moisture %: NA

QC Batch: 0181154

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFNW1101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP013

Lab File ID: DFNW1101.

Lot Number: A0G010106

Date Analyzed: 07/12/00

Time Analyzed: 12:58

Matrix: WATER

Date Extracted:07/05/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-08-05	DFM12101	DFM12101.	07/12/00	16:42
02	MPT-G4-GW-09-11	DFM13101	DFM13101.	07/12/00	17:19
03	MPT-G4-GW-10-10	DFM14101	DFM14101.	07/12/00	17:57
04	MPT-G4-GW-11-05	DFM15101	DFM15101.	07/12/00	18:34
05	MPT-G4-GW-12-05	DFM16101	DFM16101.	07/12/00	19:11
06	CHECK SAMPLE	DFNW1102 C	DFNW1102.	07/12/00	13:36
07	DUPLICATE CHECK	DFNW1103 L	DFNW1103.	07/12/00	14:13
08					
09					
10					
11					
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30					

COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013
Matrix: (soil/water) WATER Lab Sample ID: A0G050000 103
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/29/00
Work Order: DFNW1101 Date Extracted: 07/05/00
Dilution factor: 1 Date Analyzed: 07/12/00
Moisture %: NA

QC Batch: 0187103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	3.0	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: AOG050000 103

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/29/00

Work Order: DFNW1101 Date Extracted: 07/05/00

Dilution factor: 1 Date Analyzed: 07/12/00

Moisture %: NA

QC Batch: 0187103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP013

Matrix: (soil/water) WATER Lab Sample ID: A0G050000 103

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFNW1101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %: NA

QC Batch: 0187103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1, 2, 3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: AOG050000 103

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFNW1101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %: NA

QC Batch: 0187103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP013

Matrix: (soil/water) WATER

Lab Sample ID: A0G050000 103

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/29/00

Work Order: DFNW1101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %: NA

QC Batch: 0187103

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 7DF0706B

DFTPP Injection Date: 07/06/00

Instrument ID: A4HP7

DFTPP Injection Time: 1049

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.2
68	Less than 2.0% of mass 69	0.5 (0.8)1
69	Mass 69 relative abundance	57.4
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	49.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	9.1
442	40.0 - 100.0% of mass 198	61.2
443	17.0 - 23.0% of mass 442	12.1 (19.7)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SMO706	07/06/00	1107
02	SSTD005	SSTD005	7SML0706	07/06/00	1144
03	SSTD002	SSTD002	7SLO706	07/06/00	1221
04	SSTD020	SSTD020	7SHH0706	07/06/00	1259
05	SSTD016	SSTD016	7SHO706	07/06/00	1336
06	SSTD012	SSTD012	7SMH0706	07/06/00	1414
07					
08					
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14					
15					
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19					
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22					

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 7DF0623A

DFTPP Injection Date: 06/23/00

Instrument ID: A4HP7

DFTPP Injection Time: 1327

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.0
68	Less than 2.0% of mass 69	1.5 (2.0)1
69	Mass 69 relative abundance	74.8
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	40.0 - 60.0% of mass 198	54.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.2
365	Greater than 1.0% of mass 198	1.9
441	Present, but less than mass 443	8.0
442	40.0 - 100.0% of mass 198	52.6
443	17.0 - 23.0% of mass 442	10.7 (20.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD008	ASTD008	7AM0623	06/23/00	1814
02	ASTD002	ASTD002	7AL0623	06/23/00	1852
03	ASTD005	ASTD005	7AML0623	06/23/00	1930
04	ASTD012	ASTD012	7AMH0623	06/23/00	2008
05	ASTD016	ASTD016	7AH0623	06/23/00	2047
06	ASTD020	ASTD020	7AHH0623	06/23/00	2125
07					
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11					
12					
13					
14					
15					
16					
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20					
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22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 06-JUL-2000 14:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\8270c.m
 Cal Date : 07-Jul-2000 13:48 gruberj
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SL0706.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SML0706.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SM0706.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SMH0706.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SH0706.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SHH0706.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.68208	0.80189	0.80577	0.83295	0.79117	0.81156	0.78757	6.793
7 N-Nitrosomorpholine	1.04855	0.92277	1.01881	0.98565	0.93723	0.91541	0.97140	5.652
8 Ethyl methanesulfonate	1.75829	1.57380	1.69259	1.66188	1.59274	1.56963	1.64149	4.623
9 Pyridine	1.83880	1.98223	1.92918	1.68808	1.73293	1.91812	1.84823	6.329
10 N-Nitrosodimethylamine	1.22980	1.26424	1.22766	1.14554	1.10159	1.16637	1.18920	5.165
11 Ethyl methacrylate	1.82442	1.81282	1.72282	1.52554	1.55018	1.59661	1.67206	7.917
12 3-Chloropropionitrile	0.84461	0.87778	0.80763	0.79788	0.79286	0.80325	0.82067	4.078
13 Malononitrile	1.71778	1.80329	1.73178	1.66640	1.65494	1.60107	1.69588	4.156
14 2-Picolina	1.95781	2.04593	2.10968	2.14166	1.94656	1.96804	2.02828	4.129
15 N-Nitrosomethylethylamine	0.67113	0.69981	0.77355	0.83298	0.72217	0.81156	0.75186	8.562
16 Methyl methanesulfonate	1.30857	1.19049	1.21497	1.26458	1.20233	1.18453	1.22758	3.983
18 1,3-Dichloro-3-propanol	2.52706	2.38890	2.54964	2.51512	2.36992	2.31354	2.44403	4.036
19 N-Nitrosodiethylamine	0.94373	0.84288	0.90337	0.89671	0.85229	0.84092	0.87999	4.702
21 Aniline	2.70688	2.80395	2.58546	2.55654	2.66162	2.44221	2.64311	4.791
22 Phenol	2.19566	2.23796	2.14574	1.96662	2.08771	1.86990	2.03393	6.773
23 Bis(2-Chloroethyl) ether	1.74657	1.75102	1.65857	1.55993	1.65001	1.49987	1.64433	6.085
24 2-Chlorophenol	1.39584	1.41639	1.35738	1.26720	1.32349	1.21115	1.32866	5.901
25 Pentachloroethane	0.49653	0.50780	0.52140	0.52570	0.49231	0.49893	0.50546	3.058
26 1,3-Dichlorobenzene	1.43274	1.43556	1.35932	1.27089	1.33326	1.22937	1.31332	6.236
27 1,4-Dichlorobenzene	1.43541	1.44002	1.30110	1.27498	1.32692	1.23185	1.34905	6.660
28 1,2-Dichlorobenzene	1.32423	1.31679	1.25971	1.17011	1.22087	1.10259	1.23238	6.994
29 Benzyl Alcohol	1.04901	1.10603	1.04076	1.02319	1.06529	0.93607	1.03673	5.474
30 2-Methylphenol	1.54035	1.57212	1.50306	1.42698	1.50827	1.34773	1.48109	5.536
31 Bis(2-Chloroisopropyl) ether	1.42475	1.40984	1.56002	1.37067	1.44599	1.32817	1.45144	5.873
32 N-Nitroso-di-n-propylamine	1.38921	1.38129	1.29235	1.23053	1.30841	1.15805	1.29331	6.864

0.0987 (u)
 1.2933
 6.861

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 06-JUL-2000 14:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\8270c.m
 Cal Date : 07-Jul-2000 13:48 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	3.09581	3.10085	2.93474	2.69863	2.89035	2.49809	2.86975	8.196
193 4-Methylphenol	1.85547	1.52873	1.43167	1.27166	1.38207	1.15035	1.38666	11.163
193 3-Methylphenol	1.69287	1.48636	1.56788	1.46405	1.35646	1.28860	1.47604	9.824
31 Hexachloroethane	0.64295	0.64115	0.62395	0.58022	0.60171	0.56096	0.60849	5.499
35 Nitrobenzene	0.58636	0.58814	0.56031	0.52615	0.53833	0.51006	0.55156	5.829
36 N-Nitrosopyrrolidine	0.95924	0.87377	0.96971	0.91204	0.89726	0.89515	0.91786	4.168
37 Acetophenone	2.25353	2.20570	2.01422	1.83743	1.96975	1.70430	1.99749	10.538
39 o-Toluidine	2.84104	2.51139	2.61650	2.55211	2.37158	2.28728	2.52998	7.686
40 N-Nitrosopiperidine	0.21141	0.19926	0.21479	0.20831	0.20252	0.19925	0.20592	3.184
41 Isophorone	0.97274	0.94716	0.92732	0.86620	0.88331	0.82851	0.90421	5.994
42 2-Nitrophenol	0.17215	0.18055	0.17865	0.17542	0.17991	0.16790	0.17576	2.828
43 2,4-Dimethylphenol	0.42792	0.43838	0.42514	0.40141	0.41496	0.38561	0.41557	4.645
44 bis(2-Chloroethoxy)methane	0.58913	0.58568	0.53025	0.52323	0.54443	0.49997	0.54545	6.519
45 O,O,O-Triethyl phosphorothioa	0.18158	0.16605	0.17628	0.16766	0.15962	0.15663	0.15797	5.687
46 2,4-Toluenediamine	0.04980	0.04073	0.05477	0.07664	0.05373	0.07430	0.05834	24.301
47 1,3,5-Trichlorobenzene	0.32214	0.31547	0.30478	0.27794	0.29052	0.26070	0.29526	7.927
48 2,4-Dichlorophenol	0.27908	0.27851	0.27258	0.26424	0.27078	0.25118	0.26940	3.883
49 Benzoic Acid	0.02381	0.14474	0.12600	0.13574	0.14559	0.13066	0.12942	14.730
50 1,2,4-Trichlorobenzene	0.30428	0.29427	0.29413	0.26932	0.27488	0.25458	0.29191	6.650
51 Naphthalene	1.10497	1.05550	1.01286	0.90266	0.94153	0.83693	0.97574	10.271
52 4-Chloroaniline	0.42790	0.43478	0.42263	0.41615	0.42301	0.39842	0.42048	2.963
53 o,o-Dimethyl-phenethylamine	0.53764	0.51594	0.69214	1.02576	1.06867	1.05875	0.88315	24.938
54 2,6-Dichlorophenol	0.25621	0.24978	0.27116	0.25786	0.25022	0.24246	0.25462	3.834
55 Hexachloropropene	0.18055	0.17620	0.18120	0.19369	0.18912	0.18897	0.18496	3.585
56 Hexachlorocyclopentadiene	0.19927	0.18890	0.17475	0.16439	0.17321	0.15229	0.17547	9.579
57 1,2,3-Trichlorobenzene	0.36152	0.28811	0.27394	0.25289	0.26246	0.23787	0.26947	8.651
58 N-Nitrosodi-n-butylamine	0.36972	0.34314	0.37564	0.33943	0.32342	0.31167	0.34384	7.304
59 4-Chloro-3-Methylphenol	0.36607	0.37946	0.37545	0.36454	0.37242	0.35443	0.36873	2.435
60 p-Phenylenediamine	0.29815	0.37490	0.31011	0.41502	0.40453	0.40336	0.37281	12.256
61 Safrole	0.27106	0.25749	0.26635	0.25863	0.24653	0.23869	0.25646	4.716
62 2-Methylnaphthalene	0.65925	0.63106	0.60959	0.57011	0.58971	0.53449	0.52902	7.410
63 1-Methylnaphthalene	0.65673	0.62755	0.59354	0.56092	0.57992	0.53068	0.59191	7.778
64 Hexachlorocyclopentadiene	0.32745	0.36466	0.38237	0.33519	0.35010	0.32372	0.34708	6.674

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\8270c.m
 Cal Date : 07-Jul-2000 13:48 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.60176	0.56466	0.54787	0.56758	0.52917	0.51316	0.55403	5.651
66 2,4,6-Trichlorophenol	0.37823	0.38699	0.37630	0.37406	0.36977	0.36130	0.37444	2.297
67 2,4,5-Trichlorophenol	0.39524	0.39670	0.39505	0.37476	0.38842	0.36296	0.38552	3.563
68 1,2,3,5-Tetrachlorobenzene	0.60260	0.59044	0.57371	0.50260	0.52750	0.46331	0.54336	10.070
69 1,4-Dinitrobenzene	0.07756	0.08830	0.13671	0.14246	0.16205	0.17478	0.13031	30.155
70 2-Chloronaphthalene	1.13527	1.08541	1.04287	0.91627	0.94807	0.84988	0.99629	10.957
71 Isosafrole 1	0.16159	0.15171	0.15370	0.16268	0.15547	0.15804	0.15720	2.779
M 188 Isosafrole, Total	1.14734	1.06439	1.05807	1.05555	0.99278	0.96688	1.04750	6.026
72 Isosafrole 2	0.98575	0.91268	0.90437	0.89287	0.83731	0.80884	0.89030	6.971
73 2-Nitroaniline	0.47204	0.51459	0.49305	0.48800	0.49433	0.47950	0.49025	2.983
74 1,2,3,4-Tetrachlorobenzene	0.58186	0.56776	0.54280	0.49917	0.51539	0.46922	0.52937	8.074
75 1,4-Naphthoquinone	0.46245	0.44224	0.46772	0.46444	0.43788	0.42674	0.45024	3.750
76 Dimethylphthalate	1.29473	1.30813	1.19905	1.18882	1.20142	1.02849	1.20344	8.321
77 m-Dinitrobenzene	0.13559	0.14157	0.19221	0.19462	0.20807	0.21379	0.18102	18.672
78 2,6-Dinitrotoluene	0.26907	0.28531	0.28514	0.27947	0.28365	0.25328	0.27599	4.597
79 Acenaphthylene	2.01433	1.95035	1.83511	1.63638	1.68566	1.52329	1.77419	10.759
80 1,2-Dinitrobenzene	0.14476	0.15778	0.14985	0.13567	0.14300	0.13025	0.14355	6.846
81 3-Nitroaniline	0.27715	0.31107	0.29761	0.31530	0.32252	0.29314	0.30380	5.510
82 Acenaphthene	1.22302	1.18217	1.12553	1.02805	1.04009	0.96794	1.09280	8.968
83 2,4-Dinitrophenol	+++++	0.09067	0.10136	0.14215	0.15295	0.13913	0.12526	21.911
84 Pentachlorobenzene	0.49127	0.44613	0.46764	0.45599	0.43320	0.41323	0.45124	6.023
85 4-Nitrophenol	0.12323	0.17028	0.16490	0.17392	0.20417	0.17542	0.16865	15.495
86 Dibenzofuran	1.71818	1.67664	1.82810	1.39618	1.42686	1.30064	1.50776	10.902
87 2,4-Dinitrotoluene	0.35866	0.38026	0.36065	0.32529	0.34933	0.31618	0.34840	6.845
88 2,3,4,6-Tetrachlorophenol	0.21225	0.21439	0.27478	0.27084	0.27082	0.27022	0.25222	11.967
89 1-Naphthylamine	1.10711	1.10222	1.15617	1.16696	1.10135	1.05725	1.11551	3.611
90 Zinophos	0.41624	0.41057	0.42315	0.41808	0.38908	0.38100	0.41146	5.816
91 2,3,5,6-Tetrachlorophenol	0.32013	0.35113	0.34297	0.34188	0.34805	0.33351	0.33961	3.324
92 2-Naphthylamine	1.12470	1.08899	1.11362	1.08972	1.08325	1.02832	1.08810	3.073
93 Diethylphthalate	1.42515	1.40007	1.34683	1.16409	1.27762	1.09675	1.28509	10.254
94 Fluorene	1.30213	1.26769	1.19548	1.08536	1.12004	1.02426	1.16583	9.274
95 4-Chlorophenyl-phenylether	0.71442	0.70524	0.66540	0.60731	0.62802	0.56968	0.61816	8.794
96 4-Nitroaniline	0.22988	0.25934	0.24356	0.24955	0.29061	0.24732	0.25349	8.110

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\gcanoh05\dd\chem\MSS\4hp7.i\00623b.b\8270c.m.
 Cal Date : 07-Jul-2000 13:48 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
97 5-Nitro-o-toluidine	0.25065	0.26815	0.34279	0.33894	0.33173	0.34317	0.31257	13.360
98 4,6-Dinitro-2-methylphenol	0.07061	0.10055	0.10958	0.12848	0.13240	0.12154	0.11053	20.693
99 N-Nitrosodiphenylamine	0.57665	0.56075	0.53081	0.53168	0.50411	0.46069	0.52745	7.845
100 1,2-Diphenylhydrazine	1.20389	1.18552	1.12156	1.03380	1.02496	0.91685	1.08110	10.132
101 Diphenylamine	0.57665	0.56075	0.53081	0.53168	0.50411	0.46069	0.52745	7.845
102 Tetraethyl dithiopyrophosphat	0.10554	0.09877	0.09934	0.09939	0.09282	0.09032	0.09770	5.539
103 Diallate 1	1.00029	0.88807	0.84236	0.80730	0.76616	0.71947	0.83727	11.825
M 189 Diallate, Total	4.26569	3.69940	3.90553	3.41083	3.20996	3.04448	3.58932	12.720
104 Miorate	0.17458	0.16002	0.15138	0.14824	0.13547	0.12967	0.14989	10.897
105 1,3,5-Trinitrobenzene	0.01891	0.02119	0.03576	0.04156	0.04866	0.05494	0.03684	32.474
106 4-Bromophenyl-phenylether	0.22370	0.21522	0.20498	0.19154	0.19540	0.17708	0.20132	8.388
107 Hexachlorobenzene	0.24350	0.23832	0.22590	0.22850	0.21648	0.20804	0.22646	5.827
108 Phenacetin	0.44182	0.42241	0.44782	0.44942	0.43481	0.42974	0.43767	2.423
109 Diallate 2	0.17140	0.15974	0.18102	0.16919	0.16567	0.16276	0.16820	4.470
110 Dimethoate	0.51481	0.48036	0.51450	0.49506	0.46123	0.44938	0.48589	5.607
111 Pentachlorophenol	0.09921	0.12503	0.12939	0.13763	0.14133	0.13297	0.12759	11.802
112 Pentachloronitrobenzene	0.07349	0.07158	0.07526	0.07515	0.07101	0.06731	0.07330	4.169
113 4-7mincibiphenyl	0.65692	0.61798	0.61075	0.62712	0.58923	0.56842	0.61174	5.013
114 Pronamide	0.34766	0.32336	0.33097	0.32540	0.31395	0.30030	0.32352	4.876
115 Phenanthrene	1.11294	1.08554	1.01700	0.94332	0.95274	0.78443	0.98266	12.082
116 Anthracene	1.04194	1.03106	1.00490	0.89424	0.91762	0.82010	0.94996	9.448
117 Dinoseb	0.04052	0.05012	0.09925	0.10786	0.12475	0.13416	0.09594	35.747
118 Disulfoton	0.71298	0.64870	0.65145	0.63406	0.59449	0.56206	0.63304	8.190
119 Carbonole	0.89432	0.90715	0.86033	0.81263	0.88355	0.75282	0.85298	6.788
120 Di-n-Butylphthalate	1.41329	1.34076	1.26095	1.08694	1.14393	1.00655	1.20872	12.928
121 4-Nitroquinoline 1-oxide	0.03015	0.04285	0.07035	0.07000	0.07319	0.08233	0.06398	28.005
122 Methapyrilene	0.43765	0.45117	0.39302	0.41270	0.36916	0.36338	0.40501	9.040
123 Fluoranthene	1.14384	1.12816	1.05928	0.95880	1.05408	0.82219	1.03773	9.693
124 Benzadina	0.26905	0.42984	0.54311	0.75827	0.79671	0.73728	0.58905	35.897
125 Pyrene	1.78694	1.74600	1.71233	1.66342	1.69513	1.69806	1.72031	2.548
126 Aramite 1	0.02381	0.08652	0.09796	0.09684	0.08893	0.08170	0.09096	6.974
M 191 Aramite, Total	0.60307	0.53693	0.61637	0.56729	0.53738	0.54762	0.57159	7.089
127 Aramite 2	0.13141	0.13226	0.13894	0.13637	0.12164	0.11581	0.12774	7.202

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 06-JUL-2000 14:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\00623b.b\8270c.m
 Cal Date : 07-Jul-2000 13:48 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	± RSD
128 p-Dimethylamino azobenzene	0.34268	0.31460	0.33005	0.33230	0.29327	0.27825	0.31519	7.918
129 p-Chlorobenzilate	0.51377	0.47714	0.50188	0.51105	0.44627	0.41188	0.47700	8.550
130 Famphur	0.52110	0.43547	0.28183	0.22308	0.13692	0.08858	0.28116	60.075 <-
131 Butylbenzylphthalate	0.74150	0.76123	0.73993	0.75505	0.77945	0.77772	0.75915	2.250
132 3,3'-Dimethylbenzidine	0.60099	0.56530	0.52564	0.53229	0.49162	0.44552	0.52689	10.347
133 3,3'-Dimethoxybenzidine	0.19106	0.20438	0.19408	0.22426	0.22588	0.21809	0.20962	7.279
134 2-Acetylaminofluorene	0.42563	0.33492	0.45709	0.41809	0.40692	0.40040	0.40718	9.956
135 3,3'-Dichlorobenzidine	0.36798	0.39118	0.36045	0.39196	0.40114	0.35444	0.37786	5.115
136 Benzo(a)Anthracene	1.31231	1.27125	1.22558	1.11669	1.15262	1.05495	1.18890	8.226
137 Chrysene	1.26879	1.29122	1.28015	1.27534	1.32314	1.26029	1.28316	1.730
138 4,4'-Methylene bis(o-chloroan)	0.21716	0.22147	0.21545	0.22872	0.21628	0.21189	0.22183	4.120
139 bis(2-ethylhexyl)Phthalate	0.98385	1.00660	1.03609	0.99680	1.01900	1.01146	1.00897	1.788
140 Di-n-octylphthalate	1.84801	1.90070	1.95641	1.47022	1.62167	1.51701	1.71900	12.152
141 Benzo(b)fluoranthene	1.35789	1.35433	1.32919	1.18599	1.23463	1.15289	1.26914	7.077
142 Benzo(k)fluoranthene	1.38623	1.33093	1.31614	1.10689	1.22701	1.08372	1.24182	10.041
143 7,12-dimethylbenz(a)anthracen	0.68823	0.79482	0.69011	0.79797	0.75485	0.71337	0.73989	6.748
144 Hexachloropheno	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophena product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.15629	1.13190	1.12006	1.02561	1.08151	0.97742	1.08213	6.345
148 3-Methylcholanthrenn	0.77269	0.73839	0.70367	0.77374	0.73998	0.70645	0.73915	4.126
149 Indeno(1,2,3-cd)pyrene	0.94481	0.91936	0.90514	0.97443	1.04796	0.94202	0.95562	5.315
150 Dibenz(a,h)anthracene	0.93011	0.87616	0.86752	0.93640	0.98746	0.86835	0.91100	5.328
151 Benzo(g,h,i)perylene	1.00341	0.91882	0.99723	0.95831	1.02282	0.91941	0.95501	5.090
199 3-Picoline	1.96207	1.92829	2.02973	1.83796	1.95131	1.93552	1.94090	3.194
200 N,N-Dimethylacetamide	1.26431	1.22322	1.47164	1.41802	1.36766	1.36011	1.35081	6.887
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzocanthiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indena	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.69159	0.83427	0.92519	0.99067	1.04305	0.85476	0.88995	14.082

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 06-JUL-2000 14:14
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\00623b.b\8270c.m
 Cal Date : 07-Jul-2000 13:48 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Ceprolactam	0.12047	0.13078	0.12978	0.12017	0.13498	0.11837	0.12576	5.512
211 1,1'-Biphenyl	1.53651	1.47567	1.36012	1.20797	1.25401	1.10693	1.32354	12.413
212 Atrazine	0.21030	0.20348	0.19517	0.18236	0.17967	0.15922	0.18837	9.837
213 2-Chloroacetophenone	0.81055	0.76999	0.85694	0.78723	0.76414	0.74489	0.78896	5.073
\$ 154 Nitrobenzene-d5	0.53852	0.53856	0.54052	0.49631	0.50570	0.48904	0.51811	4.577
\$ 155 2-Fluorobiphenyl	1.37713	1.33526	1.27546	1.17684	1.19125	1.10126	1.24286	8.416
\$ 156 Terphenyl-d14	1.12821	1.09037	1.10622	1.07132	1.09401	1.08887	1.09650	1.748
\$ 157 Phenol-d5	1.98826	2.06871	1.93509	1.86453	1.94831	1.76668	1.92660	5.386
\$ 158 2-Fluorophenol	1.45370	1.51264	1.45028	1.35039	1.38921	1.36946	1.42105	4.339
\$ 159 2,4,6-Tribromophenol	0.15657	0.17069	0.17104	0.17171	0.17644	0.15673	0.16720	5.041
\$ 186 2-Chlorophenol-d4	1.22669	1.26403	1.21909	1.15699	1.20575	1.10192	1.19574	4.814
\$ 187 1,2-Dichlorobenzene-d4	0.91137	0.89448	0.86163	0.76824	0.81438	0.70905	0.82653	9.433

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 7DF0707A

DFTPP Injection Date: 07/07/00

Instrument ID: A4HP7

DFTPP Injection Time: 0824

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.2
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Mass 69 relative abundance	55.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	49.8
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	8.9
442	40.0 - 100.0% of mass 198	60.6
443	17.0 - 23.0% of mass 442	11.9 (19.6)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SM0707	07/07/00	0845
02	ASTD005	ASTD005	7AML0707	07/07/00	0922
03	DFGA4BLK	DFGA4101	DFGA4101	07/07/00	1000
04	DFGA4CHK	DFGA4102	DFGA4102	07/07/00	1037
05	MPT-G4-GW-01	DFE8V103	DFE8V103	07/07/00	1115
06	MPT-G4-GW-01	DFE8V105	DFE8V105	07/07/00	1152
07	MPT-G4-GW-01	DFE8V106	DFE8V106	07/07/00	1229
08	MPT-G4-GW-02	DFE97103	DFE97103	07/07/00	1306
09	MPT-G4-GW-03	DFE98103	DFE98103	07/07/00	1343
10	MPT-G4-GW-04	DFE99103	DFE99103	07/07/00	1421
11	MPT-G4-GW-05	DFE9C103	DFE9C103	07/07/00	1458
12	MPT-G4-GW-06	DFE9D103	DFE9D103	07/07/00	1535
13	MPT-G4-GW-07	DFE9F103	DFE9F103	07/07/00	1613
14					
15					
16					
17					
18					
19					
20					
21					
22					

See 7/6/00

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 07-JUL-2000 08:45
 Lab File ID: 7SM0707.D Init. Cal. Date(s): 23-JUN-2000 06-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 14:14
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00707a.b\8270c.m

COMPOUND	RF1	RF16	MIN	SD	MAX
9 Pyridine	1.84823	1.98597	0.010	7.5	50.0
10 N-Nitrosodimethylamine	1.18920	1.22621	0.010	3.1	50.0
11 Ethyl methacrylate	1.67206	1.87750	0.010	0.3	50.0
12 3-Chloropropionitrile	0.82067	0.84961	0.010	3.5	50.0
13 Malononitrile	1.69588	1.72979	0.010	2.0	50.0
209 Benzaldehyde	0.88995	0.93980	0.010	5.6	50.0
21 Aniline	2.64311	2.70267	0.010	2.3	50.0
22 Phenol	2.08393	2.14030	0.010	2.7	20.0
23 bis(2-Chloroethyl)ether	1.64433	1.69213	0.010	2.9	50.0
24 2-Chlorophenol	1.32866	1.34781	0.010	1.4	50.0
26 1,3-Dichlorobenzene	1.34352	1.35743	0.010	1.0	50.0
27 1,4-Dichlorobenzene	1.34905	1.38078	0.010	2.4	20.0
28 1,2-Dichlorobenzene	1.23238	1.26583	0.010	2.7	50.0
29 Benzyl Alcohol	1.03673	1.09724	0.010	5.8	50.0
30 2-Methylphenol	1.48309	1.51177	0.010	1.9	50.0
31 bis(2-Chloroisopropyl)ether	1.45144	1.59859	0.010	10.1	50.0
37 Acetophenone	1.99749	2.07769	0.010	4.0	50.0
32 N-Nitroso-di-n-propylamine	1.29331	1.30954	0.050	1.3	50.0
192 4-Methylphenol	1.38666	1.47637	0.010	6.5	50.0
34 Hexachloroethane	0.60849	0.62091	0.010	2.0	50.0
35 Nitrobenzene	0.55156	0.56030	0.010	1.6	50.0
41 Isophorone	0.90421	0.94188	0.010	4.2	50.0
42 2-Nitrophenol	0.17576	0.18387	0.010	4.6	20.0
43 2,4-Dimethylphenol	0.41557	0.42989	0.010	3.4	50.0
44 bis(2-Chloroethoxy)methane	0.54545	0.54175	0.010	-0.7	50.0
46 2,4-Toluediamene	0.05834	0.06196	0.010	6.2	50.0
47 1,3,5-Trichlorobenzene	0.29526	0.30766	0.010	4.2	50.0
48 2,4-Dichlorophenol	0.26940	0.28101	0.010	4.3	20.0
49 Benzoic Acid	0.12947	0.12446	0.010	-3.8	50.0
50 1,2,4-Trichlorobenzene	0.28191	0.29780	0.010	5.6	50.0
51 Naphthalene	0.97574	1.02564	0.010	5.1	50.0
52 4-Chloroaniline	0.42048	0.44053	0.010	4.8	50.0
56 Hexachlorobutadiene	0.17547	0.17765	0.010	1.2	20.0
210 Caprolactam	0.12576	0.13948	0.010	10.9	50.0
57 1,2,3-Trichlorobenzene	0.26947	0.28547	0.010	5.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i
 Lab File ID: 7SM0707.D
 Analysis Type:
 Lab Sample ID: sstd008
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00707a.b\8270c.m

Injection Date: 07-JUL-2000 08:45
 Init. Cal. Date(s): 23-JUN-2000 06-JUL-2000
 Init. Cal. Times: 18:14 14:14

Quant Type: ISTD

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
59 4-Chloro-3-Methylphenol	0.36873	0.39715	0.010	7.7	20.0
62 2-Methylnaphthalene	0.59902	0.62883	0.010	5.0	50.0
63 1-Methylnaphthalene	0.59191	0.61879	0.010	4.5	50.0
64 Hexachlorocyclopentadiene	0.34708	0.37662	0.050	8.5	50.0
66 2,4,6-Trichlorophenol	0.37444	0.38130	0.010	1.8	20.0
67 2,4,5-Trichlorophenol	0.38552	0.40119	0.010	4.1	50.0
211 1,1'-Biphenyl	1.32354	1.36156	0.010	2.9	50.0
68 1,2,3,5-Tetrachlorobenzene	0.54336	0.56588	0.010	4.1	50.0
70 2-Chloronaphthalene	0.99629	1.04146	0.010	4.5	50.0
73 3-Nitroaniline	0.49025	0.50557	0.010	3.1	50.0
74 1,2,3,4-Tetrachlorobenzene	0.52937	0.53778	0.010	1.6	50.0
76 Dimethylphthalate	1.20344	1.22581	0.010	2.9	50.0
78 2,6-Dinitrotoluene	0.27599	0.29403	0.010	6.5	50.0
79 Acenaphthylene	1.77419	1.85297	0.010	4.4	50.0
80 1,2-Dinitrobenzene	0.14355	0.15616	0.010	8.8	50.0
81 3-Nitroaniline	0.30280	0.32116	0.010	6.1	50.0
82 Acenaphthene	1.09280	1.13096	0.010	3.5	20.0
83 2,4-Dinitrophenol	0.12526	0.12224	0.050	-2.4	50.0
85 4-Nitrophenol	0.16865	0.18452	0.050	9.4	50.0
86 Dibenzofuran	1.50776	1.58011	0.010	4.8	50.0
87 2,4-Dinitrotoluene	0.34840	0.38515	0.010	10.5	50.0
91 2,3,5,6-Tetrachlorophenol	0.33961	0.36688	0.010	8.0	50.0
93 Diethylphthalate	1.28509	1.36082	0.010	5.9	50.0
94 Fluorene	1.16583	1.23862	0.010	6.2	50.0
95 4-Chlorophenyl-phenylether	0.64846	0.68967	0.010	6.4	50.0
96 4-Nitroaniline	0.25349	0.26736	0.010	5.5	50.0
98 4,6-Dinitro-2-methylphenol	0.11053	0.11799	0.010	6.8	50.0
99 N-Nitroindiphenylamino	0.52745	0.52788	0.010	0.1	20.0
100 1,2-Diphenylhydrazine	1.08110	1.07973	0.010	-0.1	50.0
106 4-Bromophenyl-phenylether	0.20132	0.20492	0.010	1.8	50.0
107 Hexachlorobenzene	0.22646	0.22256	0.010	-1.7	50.0
212 Atrazine	0.18937	0.19796	0.010	5.1	50.0
111 Pentachlorophenol	0.12759	0.13040	0.010	2.2	20.0
115 Phenanthrene	0.98266	1.02368	0.010	4.2	50.0
116 Anthracene	0.94296	1.01190	0.010	6.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 07-JUL-2000 08:45
 Lab File ID: 7SM0707.D Init. Cal. Date(s): 23-JUN-2000 06-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 14:14
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00707a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
119 Carbazole	0.85298	0.86446	0.010	1.3	50.0
120 Di-n-Butylphthalate	1.20872	1.25229	0.010	3.6	50.0
123 Fluoranthene	1.03773	1.04884	0.010	1.1	20.0
124 Benzidine	0.58905	0.61729	0.010	4.8	50.0
125 Pyrene	1.72031	1.73857	0.010	1.1	50.0
131 Butylbenzylphthalate	0.75915	0.74889	0.010	-1.4	50.0
133 3,3'-Dimethoxybenzidine	0.20962	0.23317	0.010	11.2	50.0
135 3,3'-Dichlorobenzidine	0.37786	0.39623	0.010	5.4	50.0
136 Benzo(a)Anthracene	1.18890	1.25108	0.010	5.2	50.0
137 Chrysene	1.28316	1.30258	0.010	1.5	50.0
138 4,4'-Methylene bis(o-chloro	0.22183	0.23009	0.010	3.7	50.0
139 bis(2-ethylhexyl)Phthalate	1.00897	1.02034	0.010	1.1	50.0
140 Di-n-octylphthalate	1.71900	1.69462	0.010	-1.4	20.0
141 Benzo(b)fluoranthene	1.26914	1.26675	0.010	-0.2	50.0
142 Benzo(k)fluoranthene	1.24182	1.29356	0.010	4.2	50.0
146 Benzo(a)pyrene	1.08213	1.12748	0.010	4.2	20.0
147 Indeno(1,2,3-cd)pyrene	0.95562	1.03502	0.010	8.3	50.0
150 Dibenz(a,h)anthracene	0.91100	0.98013	0.010	7.6	50.0
151 Benzo(g,h,i)perylene	0.95501	0.99341	0.010	4.0	50.0
\$ 154 Nitrobenzene-d5	0.51811	0.54194	0.010	4.6	50.0
\$ 155 2-Fluorobiphenyl	1.24256	1.27184	0.010	2.3	50.0
\$ 156 Terphenyl-d14	1.09650	1.12591	0.010	2.7	50.0
\$ 157 Phenol-d5	1.92850	1.94130	0.010	0.7	50.0
\$ 153 2-Fluorophenol	1.42105	1.45981	0.010	2.7	50.0
\$ 159 2,4,6-Tribromophenol	0.16720	0.17646	0.010	5.5	50.0
\$ 186 2-Chlorophenol-d4	1.19574	1.21802	0.010	1.9	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.82653	0.87723	0.010	6.1	50.0
M 195 Cresols, total	2.86975	2.98814	0.010	4.1	50.0
101 Diphenylamine	0.52745	0.52788	0.010	0.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.1 Injection Date: 07-JUL-2000 09:22
 Lab File ID: 7AML0707.D Init. Cal. Date(s): 23-JUN-2000 06-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 14:14
 Lab Sample ID: astd005 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00707a.b\8270c.m

COMPOUND	RFI	RF10	MIN RFI	RD	MAX RD
7 N-Nitrosomorpholine	0.97140	0.84950	0.010	-12.5	50.0
8 Ethyl methanesulfonate	1.64149	1.41844	0.010	-13.6	50.0
14 2-Picolina	2.02828	1.90868	0.010	-5.9	50.0
15 N-Nitrosomethylethylamine	0.75186	0.65658	0.010	-12.7	50.0
16 Methyl methanesulfonate	1.22758	1.11322	0.010	-9.3	50.0
18 1,3-Dichloro-2-propanol	2.44403	2.10358	0.010	-13.9	50.0
19 N-Nitrosodiethylamine	0.87999	0.78948	0.010	-10.3	50.0
25 Pentachloroethane	0.50546	0.54428	0.010	7.7	50.0
36 N-Nitrosopyrrolidine	0.91786	0.80161	0.010	-12.7	50.0
37 Acetophenone	1.99749	2.20582	0.010	10.4	50.0
39 o-Toluidine	2.52998	2.41496	0.010	-4.5	50.0
40 N-Nitrosopiperidine	0.20592	0.19080	0.010	-7.3	50.0
45 O,O,O-Triethyl phosphorothi	0.16797	0.17704	0.010	5.4	50.0
51 m,m-Dimethyl-phenethylamine	0.88315	0.77471	0.010	-12.3	50.0
54 2,6-Dichlorophenol	0.25462	0.27054	0.010	6.3	50.0
55 Hexachloropropene	0.18496	0.21000	0.010	13.5	50.0
58 N-Nitrosodi-n-butylamine	0.34384	0.31362	0.010	-8.8	50.0
60 p-Phenylenes diamine	0.37281	0.35358	0.010	-5.2	50.0
61 Safrole	0.25646	0.26340	0.010	2.7	50.0
65 1,2,4,5-Tetrachlorobenzene	0.55403	0.60579	0.010	9.3	50.0
71 Isosafrole 1	0.15720	0.15063	0.010	-4.2	50.0
M 188 Isosafrole, Total	1.04750	1.08226	0.010	3.3	50.0
72 Isosafrole 2	0.89030	0.93163	0.010	4.6	50.0
75 1,4-Naphthoquinone	0.45024	0.43188	0.010	-4.1	50.0
81 Pentachlorobenzene	0.45124	0.49301	0.010	9.3	50.0
89 1-Naphthylamine	1.11551	1.12931	0.010	1.1	50.0
93 2-Naphthylamine	1.08810	1.09614	0.010	0.7	50.0
90 Zinophos	0.41146	0.38947	0.010	-5.3	50.0
102 Tetraethyl dithiopyrophosph	0.09770	0.10319	0.010	5.6	50.0
103 Diallyl 1	0.83727	0.78875	0.010	-5.8	50.0
M 189 Diallyl, Total	1.58932	1.36010	0.010	-5.8	50.0
109 Diallyl 2	0.16829	0.13975	0.010	-17.0	50.0
104 Phorate	0.24989	0.15569	0.010	3.2	50.0
105 1,3,5-Trinitrobenzene	0.03684	0.06358	0.010	72.6	50.0
108 Phenacetin	0.43767	0.39384	0.010	-10.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 07-JUL-2000 09:22
 Lab File ID: 7AML0707.D Init. Cal. Date(s): 23-JUN-2000 06-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 14:14
 Lab Sample ID: astd005 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00707a.b\8270c.m

COMPOUND	RRF	RF10	MIN RRF	SD	MAX SD
110 Dimethoate	0.48589	0.40529	0.010	-16.6	50.0
112 Pentachloronitrobenzene	0.07230	0.08864	0.010	22.6	50.0
113 4-Aminobiphenyl	0.61174	0.59055	0.010	-3.5	50.0
114 Pronamido	0.32352	0.32170	0.010	-0.6	50.0
117 Dinoseb	0.09594	0.14414	0.010	50.2	50.0|<-
118 Disulfoton	0.63394	0.56986	0.010	-10.1	50.0
121 4-Nitroquinoline 1-oxide	0.06298	0.04809	0.010	-23.6	50.0
122 Mechapyrillene	0.40501	0.33075	0.010	-18.3	50.0
126 Aramite 1	0.09096	0.08977	0.010	-1.3	50.0
M 191 Aramite, Total	0.57159	0.53753	0.010	-6.0	50.0
127 Aramite 2	0.12774	0.12906	0.010	1.0	50.0
128 p-Dimethylamino azobenzene	0.31519	0.31251	0.010	-0.8	50.0
129 p-Chlorobenzilate	0.47700	0.51086	0.010	7.1	50.0
130 Famphur	0.28116	0.45415	0.010	61.5	50.0|<-
132 3,3'-Dimethylbenzidine	0.52689	0.51206	0.010	-2.8	50.0
134 2-Acetylaminofluorene	0.40718	0.34255	0.010	-15.9	50.0
143 7,12-dimethylbenz[ajanthrac	0.73989	0.81355	0.010	10.0	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0|<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0|<-
148 1-Methylcholanthrene	0.73915	0.75097	0.010	1.6	50.0
193 3-Methylphenol	1.47604	1.48332	0.010	0.5	50.0
69 1,4-Dinitrobenzene	0.13031	0.19300	0.010	48.1	50.0
77 m-Dinitrobenzene	0.18102	0.23213	0.010	28.2	50.0
198 1,4-Dioxane	0.78757	0.76487	0.010	-2.9	50.0
88 2,3,4,6-Tetrachlorophenol	0.25222	0.28044	0.010	11.2	50.0
97 5-Nitro-o-toluidine	0.31257	0.34000	0.010	8.8	50.0
199 3-Picoline	1.94080	1.62163	0.010	-16.3	50.0
200 N,N-Dimethylacetamide	1.35081	1.09145	0.010	-19.2	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 7DF0712A

DFTPP Injection Date: 07/12/00

Instrument ID: A4HP7

DFTPP Injection Time: 0727

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.0
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	40.0 - 60.0% of mass 198	48.6
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.0% of mass 198	2.0
441	Present, but less than mass 443	7.2
442	40.0 - 100.0% of mass 198	48.5
443	17.0 - 23.0% of mass 442	9.1 (18.8)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD002	ASTD002	7AL0712	07/12/00	0746
02	ASTD005	ASTD005	7AML0712	07/12/00	0823
03	ASTD008	ASTD008	7AM0712	07/12/00	0900
04	ASTD012	ASTD012	7AMH0712	07/12/00	0938
05	ASTD016	ASTD016	7AH0712	07/12/00	1014
06	ASTD020	ASTD020	7AHH0712	07/12/00	1052
07					
08					
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22					

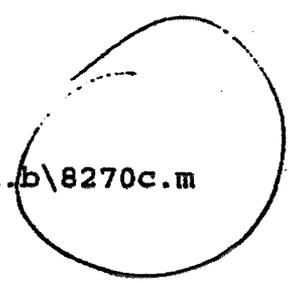
Report Date : 12-Jul-2000 12:19

Page 1

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 12-JUL-2000 10:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m
 Cal Date : 12-Jul-2000 11:40 gruberj
 Curve Type : Average



Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SL0706.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SML0706.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SMO706.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SMH0706.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SH0706.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\00623b.b\7SHH0706.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.61792	0.63068	0.66057	0.73625	0.71437	0.73189	0.68194	7.670
7 N-Nitrosomorpholine	0.82855	0.80793	0.79608	0.80184	0.78673	0.77391	0.79917	2.341
8 Ethyl methanesulfonate	1.31223	1.32378	1.31804	1.35254	1.35558	1.33863	1.33346	1.368
9 Pyridine	1.83880	1.98223	1.92918	1.68808	1.73293	1.91812	1.84823	6.329
10 N-Nitrosodimethylamine	1.22980	1.26424	1.22766	1.14554	1.10159	1.16637	1.18920	5.165
11 Ethyl methacrylate	1.82442	1.81282	1.72282	1.52554	1.55018	1.59661	1.67206	7.917
12 3-Chloropropionitrile	0.84461	0.87778	0.80763	0.79788	0.79286	0.80325	0.82067	4.078
13 Malononitrile	1.71778	1.80329	1.73178	1.66640	1.65494	1.60107	1.69588	4.156
14 2-Picoline	1.69490	1.75791	1.72424	1.84156	1.80576	1.71554	1.75665	3.238
15 N-Nitrosomethylethylamine	0.74728	0.77270	0.80457	0.85192	0.85126	0.83416	0.81031	5.350
16 Methyl methanesulfonate	1.10104	1.06687	1.00117	1.09879	1.09325	1.08504	1.07436	3.530
18 1,3-Dichloro-2-propanol	1.94965	1.90980	1.92241	1.98875	1.94991	1.92019	1.94012	1.491
19 N-Nitrosodiethylamine	0.72184	0.72121	0.73355	0.76067	0.75362	0.74620	0.73951	2.242
21 Aniline	2.70888	2.80395	2.68546	2.55854	2.66162	2.44221	2.64311	4.791
22 Phenol	2.19566	2.23796	2.14574	1.96662	2.08771	1.86990	2.08393	6.773
23 bis(2-Chloroethyl)ether	1.74657	1.75102	1.65857	1.55993	1.65001	1.49987	1.64433	6.085
24 2-Chlorophenol	1.39584	1.41689	1.35738	1.26720	1.32349	1.21115	1.32866	5.901
25 Pentachloroethane	0.56095	0.54111	0.54093	0.56555	0.54394	0.54378	0.54938	1.988
26 1,3-Dichlorobenzene	1.43274	1.43556	1.35932	1.27089	1.33326	1.22937	1.34352	6.236
27 1,4-Dichlorobenzene	1.43941	1.44002	1.39110	1.27498	1.32692	1.22185	1.34905	6.660
28 1,2-Dichlorobenzene	1.32423	1.31679	1.25971	1.17011	1.22087	1.10259	1.23238	6.996
29 Benzyl Alcohol	1.04901	1.10603	1.04076	1.02319	1.06529	0.93607	1.03673	5.474
30 2-Methylphenol	1.54035	1.57212	1.50306	1.42698	1.50827	1.34773	1.48309	5.536
31 bis(2-Chloroisopropyl)ether	1.49475	1.49984	1.56003	1.37967	1.44599	1.32837	1.45144	5.873
32 N-Nitroso-di-n-propylamine	1.38921	1.38129	1.29235	1.23053	1.30841	1.15805	1.29331	6.864

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 12-JUL-2000 10:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m
 Cal Date : 12-Jul-2000 11:40 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	1.09581	3.10085	2.93474	2.69863	2.89035	2.49809	2.86975	8.196
192 4-Methylphenol	1.55547	1.52873	1.43167	1.27166	1.38207	1.15035	1.38666	11.163
193 3-Methylphenol	1.48022	1.43862	1.40303	1.43653	1.41858	1.37432	1.42522	2.522
34 Hexachloroethane	0.64295	0.64115	0.62395	0.58022	0.60171	0.56096	0.60849	5.499
35 Nitrobenzene	0.58636	0.58814	0.56031	0.52615	0.53833	0.51006	0.55156	5.829
36 N-Nitrosopyrrolidine	0.69693	0.75388	0.75850	0.79589	0.79997	0.80785	0.76884	5.433
37 Acetophenone	2.18470	2.11537	2.10293	2.12195	2.08188	2.04498	2.10864	2.205
39 o-Toluidine	2.33647	2.28111	2.28101	2.30709	2.24582	2.19232	2.27397	2.204
40 N-Nitrosopiperidine	0.18340	0.18945	0.18653	0.19966	0.19216	0.19736	0.19143	3.268
41 Isophorone	0.97274	0.94716	0.92732	0.86620	0.88331	0.82851	0.90421	5.994
42 2-Nitrophenol	0.17215	0.18055	0.17865	0.17542	0.17991	0.16790	0.17576	2.828
43 2,4-Dimethylphenol	0.42792	0.43838	0.42514	0.40141	0.41496	0.38561	0.41557	4.645
44 bis(2-Chloroethoxy)methane	0.58913	0.58568	0.53025	0.52323	0.54443	0.49997	0.54545	6.519
45 O,O,O-Triethyl phosphorothioic	0.19103	0.18620	0.17937	0.18605	0.18150	0.17745	0.18360	2.756
46 2,4-Toluediamane	0.04989	0.04073	0.05477	0.07664	0.05373	0.07430	0.05834	24.301
47 1,3,5-Trichlorobenzene	0.32214	0.31547	0.30478	0.27794	0.29052	0.26070	0.29526	7.927
48 2,4-Dichlorophenol	0.27908	0.27851	0.27258	0.26424	0.27078	0.25118	0.26940	3.883
49 Benzoic Acid	0.09381	0.14474	0.12600	0.13574	0.14559	0.13066	0.12942	14.730
50 1,2,4-Trichlorobenzene	0.30428	0.29427	0.29413	0.26932	0.27488	0.25458	0.28191	6.650
51 Naphthalene	1.10497	1.05550	1.01286	0.90266	0.94153	0.83693	0.97574	10.271
52 4-Chloroaniline	0.42790	0.43478	0.42263	0.41615	0.42301	0.39842	0.42048	2.963
53 a,a-Dimethyl-phenethylamine	0.56041	0.72992	0.78787	0.85662	0.87016	0.91101	0.78599	16.267
54 2,6-Dichlorophenol	0.28059	0.27687	0.27185	0.28271	0.27543	0.27671	0.27736	1.385
55 Hexachloropropene	0.22142	0.22758	0.22055	0.24224	0.23486	0.23390	0.23009	3.674
56 Hexachlorobutadiene	0.19927	0.18890	0.17475	0.16439	0.17321	0.15229	0.17547	9.579
57 1,2,3-Trichlorobenzene	0.30152	0.28811	0.27394	0.25289	0.26246	0.23787	0.26947	6.651
58 N-Nitrosodi-n-butylamine	0.30508	0.31625	0.30281	0.31095	0.30248	0.29950	0.30618	2.041
59 4-Chloro-3-Methylphenol	0.36607	0.37946	0.37545	0.36454	0.37242	0.35443	0.36873	2.435
60 p-Phenylene diamine	0.29772	0.34301	0.35036	0.39421	0.39476	0.42193	0.36700	12.295
61 Safrole	0.27326	0.27273	0.27091	0.27699	0.26904	0.26682	0.27163	1.306
62 2-Methylnaphthalene	0.65925	0.63100	0.60959	0.57011	0.58971	0.53448	0.59902	7.410
63 1-Methylnaphthalene	0.65873	0.62765	0.59354	0.56092	0.57992	0.53068	0.59191	7.776
64 Hexachlorocyclopentadiene	0.32745	0.36466	0.38237	0.33519	0.35010	0.32272	0.34708	6.674

RRF 0.23167
 0.34705
 = 6.67

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\44hp7.i\00712a.b\8270c.m
 Cal Date : 12-Jul-2000 11:40 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.65134	0.59686	0.62255	0.61428	0.58768	0.56565	0.60639	4.917
66 2,4,6-Trichlorophenol	0.37823	0.38699	0.37630	0.37406	0.36977	0.36130	0.37444	2.297
67 2,4,5-Trichlorophenol	0.39524	0.39670	0.39505	0.37476	0.38842	0.36296	0.38552	3.563
68 1,2,3,5-Tetrachlorobenzene	0.60260	0.59044	0.57371	0.50260	0.52750	0.46331	0.54336	10.070
69 1,4-Dinitrobenzene	0.18511	0.21067	0.22215	0.22877	0.23137	0.23471	0.21880	8.484
70 2-Chloronaphthalene	1.13527	1.08541	1.04287	0.91627	0.94807	0.84988	0.99629	10.957
71 Isosafrole 1	0.14777	0.14622	0.15756	0.15950	0.15613	0.15718	0.15406	3.636
M 188 Isosafrole, Total	1.11250	1.06911	1.10812	1.09788	1.04246	1.02766	1.07629	3.311
72 Isosafrole 2	0.96472	0.92289	0.95056	0.93838	0.88634	0.87048	0.92223	4.009
73 2-Nitroaniline	0.47204	0.51459	0.49305	0.48800	0.49433	0.47950	0.49025	2.983
74 1,2,3,4-Tetrachlorobenzene	0.58186	0.56776	0.54280	0.49917	0.51539	0.46922	0.52937	8.074
75 1,4-Naphthoquinone	0.36253	0.42829	0.44317	0.46446	0.45158	0.45354	0.43393	8.525
76 Dimethylphthalate	1.29473	1.30813	1.19905	1.18882	1.20142	1.02849	1.20344	8.321
77 m-Dinitrobenzene	0.20598	0.23686	0.24586	0.25116	0.25299	0.25322	0.24101	7.567
78 2,6-Dinitrotoluene	0.26907	0.28531	0.28514	0.27947	0.28365	0.25328	0.27599	4.597
79 Acenaphthylene	2.01433	1.95035	1.83511	1.63638	1.68566	1.52329	1.77419	10.759
80 1,2-Dinitrobenzene	0.14476	0.15778	0.14985	0.13567	0.14300	0.13025	0.14355	6.846
81 3-Nitroaniline	0.27715	0.31107	0.29761	0.31530	0.32252	0.29314	0.30280	5.510
82 Acenaphthene	1.22302	1.18217	1.11553	1.02805	1.04009	0.96794	1.09280	8.968
83 2,4-Dinitrophenol	++++	0.09067	0.10136	0.14215	0.15295	0.13918	0.12526	21.911<-
84 Pentachlorobenzene	0.50936	0.47789	0.48820	0.48624	0.46935	0.45771	0.48146	3.681
85 4-Nitrophenol	0.12323	0.17028	0.16490	0.17392	0.20417	0.17542	0.16865	15.495
86 Dibenzofuran	1.71818	1.67664	1.52810	1.39618	1.42686	1.30064	1.50776	10.902
87 2,4-Dinitrotoluene	0.35866	0.38026	0.36065	0.32529	0.34933	0.31618	0.34840	6.845
88 2,3,4,6-Tetrachlorophenol	0.25786	0.28942	0.30403	0.30904	0.31263	0.31291	0.29765	7.172
89 1-Naphthylamine	1.05378	1.07066	1.14146	1.14214	1.11061	1.12268	1.10689	3.340
90 Zinophos	0.36399	0.38777	0.39368	0.37786	0.36172	0.35115	0.37270	4.417
91 2,3,5,6-Tetrachlorophenol	0.32013	0.35113	0.34297	0.34188	0.34805	0.33351	0.33961	3.324
92 2-Naphthylamine	1.07632	1.04781	1.09966	1.10744	1.09566	1.10866	1.08926	2.150
93 Diethylphthalate	1.42515	1.40007	1.34683	1.16409	1.27762	1.09675	1.28509	10.254
94 Fluorene	1.30213	1.26769	1.19548	1.08536	1.12004	1.02426	1.16583	9.274
95 4-Chlorophenyl-phenylether	0.71442	0.70594	0.66540	0.60731	0.62802	0.56968	0.64846	8.754
96 4-Nitroaniline	0.22988	0.25934	0.24366	0.24955	0.29061	0.24792	0.25349	8.110

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
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 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m
 Cal Date : 12-Jul-2000 11:40 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.30566	0.34292	0.36839	0.37250	0.36064	0.35914	0.35154	7.017
98 4,6-Dinitro-2-methylphenol	0.07061	0.10055	0.10958	0.12848	0.13240	0.12156	0.11053	20.693
99 N-Nitrosodiphenylamine	0.57665	0.56075	0.53081	0.53168	0.50411	0.46069	0.52745	7.845
100 1,2-Diphenylhydrazine	1.20389	1.18552	1.12156	1.03380	1.02496	0.91685	1.08110	10.132
101 Diphenylamine	0.57665	0.56075	0.53081	0.53168	0.50411	0.46069	0.52745	7.845
102 Tetraethyl dithiopyrophosphat	0.10330	0.10334	0.10361	0.10317	0.09999	0.09556	0.10149	3.161
103 Diallate 1	0.82712	0.74420	0.75868	0.70929	0.65633	0.60962	0.71754	10.772
M 189 Diallate, Total	3.28722	3.24656	3.15308	2.89184	2.82982	2.73170	3.02337	7.772
104 Phorate	0.15768	0.15317	0.15309	0.14350	0.13653	0.12855	0.14542	7.759
105 1,3,5-Trinitrobenzene	0.04954	0.07160	0.07763	0.08278	0.08580	0.08427	0.07527	18.114
106 4-Bromophenyl-phenylether	0.22370	0.21522	0.20498	0.19154	0.19540	0.17708	0.20132	8.388
107 Hexachlorobenzene	0.24350	0.23832	0.22590	0.22650	0.21648	0.20804	0.22646	5.827
108 Phenacetin	0.36356	0.39232	0.40956	0.41278	0.41393	0.40372	0.39931	4.813
109 Diallate 2	0.13033	0.13183	0.13651	0.13517	0.13804	0.13312	0.13417	2.182
110 Dimethoate	0.35406	0.37549	0.38047	0.37927	0.36651	0.35584	0.36861	3.166
111 Pentachlorophenol	0.09921	0.12503	0.12939	0.13763	0.14133	0.13297	0.12759	11.802
112 Pentachloronitrobenzene	0.09049	0.09362	0.09281	0.09122	0.08643	0.08099	0.08926	5.333
113 4-Aminobiphenyl	0.61776	0.55731	0.61432	0.62212	0.61021	0.58513	0.60114	4.175
114 Pronamide	0.31250	0.32925	0.33916	0.33720	0.32684	0.31427	0.32654	3.432
115 Phenanthrene	1.11294	1.08554	1.01700	0.94332	0.95274	0.78443	0.98266	12.082
116 Anthracene	1.04194	1.03106	1.00480	0.88424	0.91762	0.82010	0.94996	9.448
117 Dinoseb	0.10539	0.15590	0.16701	0.17729	0.19044	0.18944	0.16425	19.315
118 Disulfoton	0.54527	0.53374	0.54416	0.52697	0.51146	0.47871	0.52338	4.810
119 Carbazole	0.89432	0.90715	0.86033	0.81963	0.88355	0.75288	0.85298	6.788
120 Di-n-Butylphthalate	1.41329	1.34076	1.26085	1.08694	1.14393	1.00655	1.20872	12.918
121 4-Nitroquinoline 1-oxide	0.02734	0.05916	0.06920	0.08411	0.09212	0.09719	0.07152	36.202
122 Methapyrilene	0.30774	0.32821	0.30319	0.33292	0.30092	0.28998	0.31049	5.370
123 Fluoranthene	1.14384	1.12816	1.05928	0.95880	1.05408	0.88219	1.03773	9.693
124 Benzidine	0.26909	0.42984	0.54311	0.75827	0.79671	0.73728	0.58905	35.897
125 Pyrene	1.78694	1.74600	1.73233	1.66342	1.69513	1.69806	1.72031	2.548
126 Aramite 1	0.07448	0.08337	0.08922	0.09259	0.08364	0.08289	0.08437	7.358
M 191 Aramite, Total	0.44011	0.54494	0.53023	0.53642	0.55533	0.55167	0.52645	8.228
127 Aramite 2	0.10513	0.11625	0.12364	0.12810	0.11726	0.11510	0.11758	6.700

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 12-JUL-2000 10:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m
 Cal Date : 12-Jul-2000 11:40 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.27796	0.29015	0.31228	0.31420	0.29828	0.28923	0.29702	4.763
129 p-Chlorobenzilate	0.49000	0.47503	0.50833	0.50002	0.45280	0.43077	0.47616	6.232
130 Famphur	0.52574	0.42423	0.38509	0.31051	0.19551	0.16897	0.33501	41.032
131 Butylbenzylphthalate	0.74150	0.76123	0.73993	0.75505	0.77945	0.77772	0.75915	2.250
132 3,3'-Dimethylbenzidine	0.53219	0.44783	0.51031	0.54670	0.51843	0.52028	0.51262	6.667
133 3,3'-Dimethoxybenzidine	0.19106	0.20438	0.19408	0.22426	0.22588	0.21809	0.20962	7.279
134 2-Acetylaminofluorene	0.25782	0.37385	0.37379	0.42618	0.42597	0.43683	0.38241	17.521
135 3,3'-Dichlorobenzidine	0.36798	0.39118	0.36045	0.39196	0.40114	0.35444	0.37786	5.115
136 Benzo(a)Anthracene	1.31231	1.27125	1.22558	1.11669	1.15262	1.05495	1.18890	8.226
137 Chrysene	1.26879	1.29122	1.28015	1.27534	1.32314	1.26029	1.28316	1.730
138 4,4'-Methylene bis(o-chloroan	0.21716	0.22147	0.21545	0.22872	0.23628	0.21189	0.22183	4.120
139 bis(2-ethylhexyl)Phthalate	0.98385	1.00660	1.03609	0.99680	1.01900	1.01146	1.00897	1.788
140 Di-n-octylphthalate	1.84801	1.90070	1.95641	1.47022	1.62167	1.51701	1.71900	12.152
141 Benzo(b)fluoranthene	1.35789	1.35423	1.32919	1.18599	1.23463	1.15289	1.26914	7.077
142 Benzo(k)fluoranthene	1.38623	1.33093	1.31614	1.10689	1.22701	1.08372	1.24182	10.041
143 7,12-dimethylbenz(a)anthracen	0.83322	0.78370	0.69794	0.82489	0.79219	0.75908	0.78184	6.308
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.15629	1.13190	1.12006	1.02561	1.08151	0.97742	1.08213	6.345
148 3-Methylcholanthrene	0.72605	0.70423	0.60228	0.74767	0.71814	0.71456	0.70215	7.271
149 Indeno(1,2,3-cd)pyrene	0.94483	0.91936	0.90514	0.97443	1.04796	0.94202	0.95562	5.345
150 Dibenz(a,h)anthracene	0.93011	0.87616	0.86752	0.93640	0.98746	0.86835	0.91100	5.328
151 Benzo(g,h,i)perylene	1.00344	0.91882	0.90723	0.95831	1.02282	0.91941	0.95501	5.090
199 3-Picoline	1.68757	1.69335	1.67584	1.79447	1.75336	1.72251	1.72118	2.646
200 N,N-Dimethylacetamide	0.83457	0.97910	0.99474	1.04215	1.03509	1.02548	0.98519	7.885
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.69159	0.83427	0.92539	0.99067	1.04305	0.85476	0.88995	14.082

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUN-2000 18:14
 End Cal Date : 12-JUL-2000 10:52
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\00712a.b\8270c.m
 Cal Date : 12-Jul-2000 11:40 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.12047	0.13078	0.12978	0.12017	0.13498	0.11837	0.12576	5.512
211 1,1'-Biphenyl	1.53651	1.47567	1.36012	1.20797	1.25401	1.10693	1.32354	12.413
212 Atrazine	0.21030	0.20348	0.19517	0.18236	0.17967	0.15922	0.18837	9.837
213 2-Chloroacetophenone	0.73979	0.76191	0.74466	0.77572	0.75836	0.75896	0.75657	1.701
\$ 154 Nitrobenzene-d5	0.53852	0.53856	0.54052	0.49631	0.50570	0.48904	0.51811	4.577
\$ 155 2-Fluorobiphenyl	1.37713	1.33526	1.27546	1.17684	1.19125	1.10126	1.24286	8.416
\$ 156 Terphenyl-d14	1.12821	1.09037	1.10622	1.07132	1.09401	1.08887	1.09650	1.748
\$ 157 Phenol-d5	1.98826	2.06871	1.93509	1.86453	1.94831	1.76668	1.92860	5.386
\$ 158 2-Fluorophenol	1.45370	1.51264	1.45088	1.35039	1.38921	1.36946	1.42105	4.339
\$ 159 2,4,6-Tribromophenol	0.15657	0.17069	0.17104	0.17171	0.17644	0.15673	0.16720	5.041
\$ 186 2-Chlorophenol-d4	1.22669	1.26403	1.21909	1.15699	1.20575	1.10192	1.19574	4.814
\$ 187 1,2-Dichlorobenzene-d4	0.91137	0.89448	0.86163	0.76824	0.81438	0.70905	0.82653	9.433

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 7DF0712G

DFTPP Injection Date: 07/12/00

Instrument ID: A4HP7

DFTPP Injection Time: 1124

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	56.5
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	51.3
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.0% of mass 198	1.9
441	Present, but less than mass 443	5.9
442	40.0 - 100.0% of mass 198	46.5
443	17.0 - 23.0% of mass 442	8.5 (18.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SM0712G	07/12/00	1144
02	ASTD008	ASTD008	7AM0712G	07/12/00	1221
03	DFNWLBLK	DFNWL101	DFNWL101	07/12/00	1258
04	DFNWLCHK	DFNWL102	DFNWL102	07/12/00	1336
05	DFNWLCHKDUP	DFNWL103	DFNWL103	07/12/00	1413
06	MPT-G4-GW-08	DFM12101	DFM12101	07/12/00	1642
07	MPT-G4-GW-09	DFM13101	DFM13101	07/12/00	1719
08	MPT-G4-GW-10	DFM14101	DFM14101	07/12/00	1757
09	MPT-G4-GW-11	DFM15101	DFM15101	07/12/00	1834
10	MPT-G4-GW-12	DFM16101	DFM16101	07/12/00	1911
11					
12					
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14					
15					
16					
17					
18					
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20					
21					
22					

ICAL 7/12

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\7SM0712G.D
 Report Date: 12-Jul-2000 12:26

Page 1

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS 7-6-00

Instrument ID: a4hp7.i Injection Date: 12-JUL-2000 11:44
 Lab File ID: 7SM0712G.D Init. Cal. Date(s): ~~23 JUN 2000~~ 12-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 10:52
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.84823	1.82138	0.010	-1.5	50.0
10 N-Nitrosodimethylamine	1.18920	1.07584	0.010	-9.5	50.0
11 Ethyl methacrylate	1.67206	1.52336	0.010	-8.9	50.0
12 3-Chloropropionitrile	0.82067	0.74448	0.010	-9.3	50.0
13 Malononitrile	1.69588	1.57287	0.010	-7.3	50.0
209 Benzaldehyde	0.88995	0.87604	0.010	-1.6	50.0
21 Aniline	2.64311	2.59219	0.010	-1.9	50.0
22 Phenol	2.08393	2.05128	0.010	-1.6	20.0
23 bis(2-Chloroethyl)ether	1.64433	1.57824	0.010	-4.0	50.0
24 2-Chlorophenol	1.32666	1.32176	0.010	-0.5	50.0
26 1,3-Dichlorobenzene	1.34352	1.33367	0.010	-0.7	50.0
27 1,4-Dichlorobenzene	1.34905	1.37598	0.010	2.0	20.0
28 1,2-Dichlorobenzene	1.23238	1.25088	0.010	1.5	50.0
29 Benzyl Alcohol	1.03673	1.07762	0.010	3.9	50.0
30 2-Methylphenol	1.48309	1.47689	0.010	-0.4	50.0
31 bis(2-Chloroisopropyl)ether	1.45144	1.46283	0.010	0.8	50.0
37 Acetophenone	2.10864	2.04927	0.010	-2.8	50.0
32 N-Nitroso-di-n-propylamine	1.29331	1.26085	0.050	-2.5	50.0
192 4-Methylphenol	1.36666	1.46392	0.010	5.6	50.0
34 Hexachloroethane	0.60849	0.61259	0.010	0.7	50.0
35 Nitrobenzene	0.55156	0.53940	0.010	-2.2	50.0
41 Isophorone	0.90421	0.91763	0.010	1.5	50.0
42 2-Nitrophenol	0.17576	0.18517	0.010	5.3	20.0
43 2,4-Dimethylphenol	0.41557	0.41981	0.010	1.0	50.0
44 bis(2-Chloroethoxy)methane	0.54545	0.52211	0.010	-4.3	50.0
46 2,4-Toluenediamine	0.05834	0.08022	0.010	37.5	50.0
47 1,3,5-Trichlorobenzene	0.29526	0.31173	0.010	5.6	50.0
48 2,4-Dichlorophenol	0.26940	0.28629	0.010	6.3	20.0
49 Benzoic Acid	0.12942	0.16440	0.010	27.9	50.0
50 1,2,4-Trichlorobenzene	0.28191	0.30046	0.010	6.6	50.0
51 Naphthalene	0.97574	1.02552	0.010	5.1	50.0
52 4-Chloroaniline	0.42048	0.44476	0.010	5.8	50.0
56 Hexachlorobutadiene	0.17547	0.18761	0.010	6.9	20.0
210 Caprolactam	0.12576	0.13955	0.010	11.0	50.0
57 1,2,3-Trichlorobenzene	0.26947	0.28901	0.010	7.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 12-JUL-2000 11:44
 Lab File ID: 7SM0712G.D Init. Cal. Date(s): 23-JUN-2000 12-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 10:52
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m

COMPOUND	RRP	RP16	MIN RRP	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.36873	0.39643	0.010	7.5	20.0
62 2-Methylnaphthalene	0.59902	0.65014	0.010	8.5	50.0
63 1-Methylnaphthalene	0.59191	0.63552	0.010	7.4	50.0
64 Hexachlorocyclopentadiene	0.34708	0.39281	0.050	13.2	50.0
66 2,4,6-Trichlorophenol	0.37444	0.38902	0.010	3.9	20.0
67 2,4,5-Trichlorophenol	0.38552	0.41065	0.010	6.5	50.0
211 1,1'-Biphenyl	1.32354	1.36759	0.010	3.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.54336	0.56976	0.010	4.9	50.0
70 2-Chloronaphthalene	0.99629	1.04076	0.010	4.5	50.0
73 2-Nitroaniline	0.49025	0.49704	0.010	2.4	50.0
74 1,2,3,4-Tetrachlorobenzene	0.52937	0.53894	0.010	1.8	50.0
76 Dimethylphthalate	1.20344	1.26836	0.010	5.4	50.0
78 2,6-Dinitrotoluene	0.27599	0.29104	0.010	5.5	50.0
79 Acenaphthylene	1.77419	1.86033	0.010	4.9	50.0
80 1,2-Dinitrobenzene	0.14355	0.16080	0.010	12.0	50.0
81 3-Nitroaniline	0.30280	0.33194	0.010	9.6	50.0
82 Acenaphthene	1.09280	1.15173	0.010	5.4	20.0
83 2,4-Dinitrophenol	0.12526	0.15728	0.050	25.6	50.0
85 4-Nitrophenol	0.16865	0.21773	0.050	29.1	50.0
86 Dibenzofuran	1.50776	1.62249	0.010	7.6	50.0
87 2,4-Dinitrotoluene	0.34840	0.40627	0.010	16.6	50.0
91 2,3,5,6-Tetrachlorophenol	0.33961	0.36357	0.010	7.1	50.0
93 Diethylphthalate	1.28509	1.30983	0.010	1.9	50.0
94 Fluorene	1.16583	1.25414	0.010	7.6	50.0
95 4-Chlorophenyl-phenylether	0.64846	0.70370	0.010	8.5	50.0
96 4-Nitroaniline	0.25349	0.30335	0.010	19.7	50.0
98 4,6-Dinitro-2-methylphenol	0.11053	0.12771	0.010	15.6	50.0
99 N-Nitrosodiphenylamine	0.52745	0.52182	0.010	-1.1	20.0
100 1,2-Diphenylhydrazine	1.08110	1.02628	0.010	-5.1	50.0
106 4-Bromophenyl-phenylether	0.20132	0.20490	0.010	1.8	50.0
107 Hexachlorobenzene	0.22646	0.20897	0.010	-7.7	50.0
212 Atrazine	0.18837	0.18957	0.010	0.6	50.0
111 Pentachlorophenol	0.12759	0.13226	0.010	3.7	20.0
115 Phenanthrene	0.98266	1.07032	0.010	8.9	50.0
116 Anthracene	0.94996	1.04657	0.010	10.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 12-JUL-2000 11:44
 Lab File ID: 7SM0712G.D Init. Cal. Date(s): 23-JUN-2000 12-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 10:52
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
119 Carbazole	0.85298	0.91034	0.010	6.7	50.0
120 Di-n-Butylphthalate	1.20872	1.19408	0.010	-1.2	50.0
123 Fluoranthene	1.03773	1.14011	0.010	9.9	20.0
124 Benzidine	0.58905	0.72495	0.010	23.1	50.0
125 Pyrene	1.72031	1.65316	0.010	-3.9	50.0
131 Butylbenzylphthalate	0.75915	0.70742	0.010	-6.8	50.0
133 3,3'-Dimethoxybenzidine	0.20962	0.23109	0.010	10.2	50.0
135 3,3'-Dichlorobenzidine	0.37786	0.41177	0.010	9.0	50.0
136 Benzo(a)Anthracene	1.18890	1.27808	0.010	7.5	50.0
137 Chrysene	1.28316	1.35926	0.010	5.9	50.0
138 4,4'-Methylene bis(o-chloro	0.22183	0.24511	0.010	10.5	50.0
139 bis(2-ethylhexyl)Phthalate	1.00897	0.95952	0.010	-4.9	50.0
140 Di-n-octylphthalate	1.71900	1.58977	0.010	-7.5	20.0
141 Benzo(b)fluoranthene	1.26914	1.27164	0.010	0.2	50.0
142 Benzo(k)fluoranthene	1.24182	1.23678	0.010	-0.4	50.0
146 Benzo(a)pyrene	1.08213	1.10660	0.010	2.3	20.0
149 Indeno(1,2,3-cd)pyrene	0.95562	0.91919	0.010	-3.8	50.0
150 Dibenz(a,h)anthracene	0.91100	0.89254	0.010	-2.0	50.0
151 Benzo(g,h,i)perylene	0.95501	0.91981	0.010	-3.7	50.0
\$ 154 Nitrobenzene-d5	0.51811	0.52299	0.010	0.9	50.0
\$ 155 2-Fluorobiphenyl	1.24286	1.29184	0.010	3.9	50.0
\$ 156 Terphenyl-d14	1.09650	1.02769	0.010	-6.3	50.0
\$ 157 Phenol-d5	1.92860	1.85816	0.010	-3.7	50.0
\$ 158 2-Fluorophenol	1.42105	1.34791	0.010	-5.1	50.0
\$ 159 2,4,6-Tribromophenol	0.16720	0.14440	0.010	-13.6	50.0
\$ 166 2-Chlorophenol-d4	1.19574	1.21115	0.010	1.3	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.82653	0.87456	0.010	5.0	50.0
M 195 Cresols, total	2.86975	2.94080	0.010	2.5	50.0
101 Diphenylamine	0.52745	0.52182	0.010	-1.1	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\00712a.b\7AM0712G.D
Report Date: 12-Jul-2000 12:59

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 12-JUL-2000 12:21
Lab File ID: 7AM0712G.D Init. Cal. Date(s): 23-JUN-2000 12-JUL-2000
Analysis Type: Init. Cal. Times: 18:14 10:52
Lab Sample ID: astd008 Quant Type: ISTD
Method: \\QCANOHO5\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	0.79917	0.75913	0.010	-5.0	50.0
8 Ethyl methanesulfonate	1.33346	1.22038	0.010	-8.5	50.0
14 2-Picoline	1.75665	1.69534	0.010	-3.5	50.0
15 N-Nitrosomethylethylamine	0.81031	0.76140	0.010	-6.0	50.0
16 Methyl methanesulfonate	1.07436	0.99147	0.010	-7.7	50.0
18 1,3-Dichloro-2-propanol	1.94012	1.85356	0.010	-4.5	50.0
19 N-Nitrosodiethylamine	0.73951	0.70045	0.010	-5.3	50.0
25 Pentachloroethane	0.54938	0.50049	0.010	-8.9	50.0
36 N-Nitrosopyrrolidine	0.76884	0.73313	0.010	-4.6	50.0
37 Acetophenone	2.10864	1.97470	0.010	-6.4	50.0
39 o-Toluidine	2.27397	2.18735	0.010	-3.8	50.0
40 N-Nitrosopiperidine	0.19143	0.18862	0.010	-1.5	50.0
45 O,O,O-Triethyl phosphorothi	0.18360	0.17083	0.010	-7.0	50.0
53 a,a-Dimethyl-phenethylamine	0.78599	0.70970	0.010	-9.7	50.0
54 2,6-Dichlorophenol	0.27736	0.26663	0.010	-3.9	50.0
55 Hexachloropropene	0.23009	0.21700	0.010	-5.7	50.0
58 N-Nitrosodi-n-butylamine	0.30618	0.29946	0.010	-2.2	50.0
60 p-Phenylene diamine	0.36700	0.38987	0.010	6.2	50.0
61 Safrole	0.27153	0.26203	0.010	-3.5	50.0
65 1,2,4,5-Tetrachlorobenzene	0.60639	0.53981	0.010	-11.0	50.0
71 Isosafrole 1	0.15406	0.14223	0.010	-7.7	50.0
M 188 Isosafrole, Total	1.07629	0.99144	0.010	-7.9	50.0
72 Isosafrole 2	0.92223	0.84921	0.010	-7.9	50.0
75 1,4-Naphthoquinone	0.43393	0.41836	0.010	-3.6	50.0
84 Pentachlorobenzene	0.48146	0.42774	0.010	-11.2	50.0
89 1-Naphthylamine	1.10689	1.05632	0.010	-4.6	50.0
92 2-Naphthylamine	1.08926	1.05502	0.010	-3.1	50.0
90 Zinophos	0.37270	0.35434	0.010	-4.9	50.0
102 Tetraethyl dithiopyrophosph	0.10149	0.09461	0.010	-6.8	50.0
103 Diallate 1	0.71754	0.66958	0.010	-6.7	50.0
M 189 Diallate, Total	3.02337	2.96523	0.010	-1.9	50.0
109 Diallate 2	0.13417	0.12080	0.010	-10.0	50.0
104 Phorate	0.14542	0.13625	0.010	-6.3	50.0
105 1,3,5-Trinitrobenzene	0.07527	0.06996	0.010	-7.1	50.0
106 Phenacetin	0.39931	0.37232	0.010	-6.8	50.0

* AP9 2nd source Continuing

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 12-JUL-2000 12:21
 Lab File ID: 7AM0712G.D Init. Cal. Date(s): 23-JUN-2000 12-JUL-2000
 Analysis Type: Init. Cal. Times: 18:14 10:52
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00712a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	SD	MAX SD
110 Dimethoate	0.36861	0.33930	0.010	-8.0	50.0
112 Pentachloronitrobenzene	0.08926	0.07857	0.010	-12.0	50.0
113 4-Aminobiphenyl	0.60114	0.58421	0.010	-2.8	50.0
114 Pronamide	0.32654	0.30081	0.010	-7.9	50.0
117 Dinoseb	0.16425	0.14652	0.010	-10.8	50.0
118 Disulfoton	0.52338	0.47252	0.010	-9.7	50.0
121 4-Nitroquinoline 1-oxide	0.07152	0.07400	0.010	3.5	50.0
122 Methapyrilene	0.31049	0.30177	0.010	-2.8	50.0
126 Aramite 1	0.08437	0.07748	0.010	-8.2	50.0
M 191 Aramite, Total	0.52645	0.52877	0.010	0.4	50.0
127 Aramite 2	0.11758	0.10765	0.010	-8.4	50.0
128 p-Dimethylamino azobenzene	0.29702	0.27992	0.010	-5.8	50.0
129 p-Chlorobenzilate	0.47616	0.43061	0.010	-9.6	50.0
130 Famphur	0.33501	0.34875	0.010	4.1	50.0
132 3,3'-Dimethylbenzidine	0.51262	0.47312	0.010	-7.7	50.0
134 2-Acetylaminofluorene	0.38241	0.36626	0.010	-4.2	50.0
143 7,12-dimethylbenz[a]anthrac	0.78184	0.77276	0.010	-1.2	50.0
144 Hexachlorophene	++++	++++	0.010	+++	50.0|<-
145 Hexachlorophene product	++++	++++	0.010	+++	50.0|<-
148 3-Methylcholanthrene	0.70215	0.67970	0.010	-3.2	50.0
193 3-Methylphenol	1.42522	1.36381	0.010	-4.3	50.0
69 1,4-Dinitrobenzene	0.21880	0.19440	0.010	-11.2	50.0
77 m-Dinitrobenzene	0.24101	0.22085	0.010	-8.4	50.0
198 1,4-Dioxane	0.68194	0.63667	0.010	-6.6	50.0
88 2,3,4,6-Tetrachlorophenol	0.29765	0.28142	0.010	-5.5	50.0
97 5-Nitro-o-toluidine	0.35154	0.35028	0.010	-0.4	50.0
199 3-Picoline	1.72118	1.67417	0.010	-2.7	50.0
200 N,N-Dimethylacetamide	0.98519	0.92394	0.010	-6.2	50.0
213 2-Chloroacetophenone	0.75657	0.74570	0.010	-1.4	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 6DF0706D

DFTPP Injection Date: 07/06/00

Instrument ID: A4HP6

DFTPP Injection Time: 0744

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.8
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Mass 69 relative abundance	78.4
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	4.7
441	Present, but less than mass 443	7.3
442	Greater than 40.0% of mass 198	48.6
443	17.0 - 23.0% of mass 442	9.3 (19.1)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0706	07/06/00	0802
02	SSTD004	SSTD004	6SL0706	07/06/00	0901
03	SSTD010	SSTD010	6SML0706	07/06/00	0939
04	SSTD024	SSTD024	6SMH0706	07/06/00	1017
05	SSTD032	SSTD032	6SH0706	07/06/00	1054
06	SSTD040	SSTD040	6SHH0706	07/06/00	1132
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18					
19					
20					
21					
22					

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 6DF0708D

DFTPP Injection Date: 07/08/00

Instrument ID: A4HP6

DFTPP Injection Time: 1943

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	66.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	52.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	6.3
442	Greater than 40.0% of mass 198	42.4
443	17.0 - 23.0% of mass 442	8.2 (19.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD004	ASTD004	6AL0708	07/08/00	2001
02	ASTD010	ASTD010	6AML0708	07/08/00	2038
03	ASTD016	ASTD016	6AMD0708	07/08/00	2116
04	ASTD024	ASTD024	6AMH0708	07/08/00	2153
05	ASTD032	ASTD032	6AH0708	07/08/00	2230
06	ASTD040	ASTD040	6AHH0708	07/08/00	2308
07					
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20					
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22					

Report Date : 09-Jul-2000 08:14

Page 1

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AL0708.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AML0708.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AM0708.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AMH0708.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AH0708.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AHH0708.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.64659	0.79016	0.75239	0.82999	0.86209	1.05669	0.82298	16.605
7 N-Nitrosomorpholine	1.19769	1.10715	1.24748	1.20768	1.22338	1.27820	1.21026	4.814
8 Ethyl methanesulfonate	2.04468	1.88761	2.07854	2.04831	2.02054	2.05882	2.02308	3.411
9 Pyridine	1.59151	1.84119	2.05722	1.70961	1.84064	1.94952	1.83162	9.054
10 N-Nitrosodimethylamine	1.45459	1.56024	1.58897	1.50257	1.63662	1.59917	1.55703	4.318
11 Ethyl methacrylate	1.90349	2.43027	2.04420	1.71958	2.22416	2.26260	2.09738	12.384
12 3-Chloropropionitrile	0.82784	0.93586	0.93627	0.89338	0.91595	0.87513	0.89741	4.644
13 Malononitrile	2.24459	2.30399	2.20850	2.18657	2.22916	2.09215	2.21083	3.188
14 2-Picoline	2.01979	2.04954	2.25732	2.43586	2.38600	2.61161	2.29335	10.053
15 N-Nitrosomethylethylamine	0.99413	0.98039	1.11086	0.99170	1.08530	0.87913	1.00692	8.235
16 Methyl methanesulfonate	1.96267	1.77509	1.81597	1.88888	1.82508	1.86175	1.85491	3.542
18 1,3-Dichloro-2-propanol	2.66466	2.62030	2.79011	2.89982	2.80207	2.89753	2.77908	4.183
19 N-Nitrosodiethylamine	0.91567	0.86228	0.95091	0.96413	0.94465	0.95615	0.93230	4.087
21 Aniline	2.88276	3.05380	3.08148	3.11588	3.26019	3.10523	3.08655	4.132
22 Phenol	2.69855	2.74194	2.73872	2.72707	2.89400	2.72332	2.75393	2.553
23 bis(2-Chloroethyl) ether	1.89760	1.88616	1.86573	1.86170	1.96770	1.84552	1.88740	2.302
24 2-Chlorophenol	1.27223	1.30509	1.27882	1.31895	1.40979	1.32802	1.31882	3.764
25 Pentachloroethane	0.60161	0.61821	0.65141	0.69641	0.69641	0.75371	0.66963	8.476
26 1,3-Dichlorobenzene	1.48782	1.52837	1.48077	1.54198	1.63383	1.59709	1.54498	3.914
27 1,4-Dichlorobenzene	1.47785	1.55826	1.51905	1.53218	1.65041	1.61378	1.55859	4.084
28 1,2-Dichlorobenzene	1.34420	1.40197	1.40313	1.42624	1.55797	1.52036	1.44231	5.591
29 Benzyl Alcohol	1.07521	1.12748	1.19118	1.24466	1.40474	1.29841	1.22361	9.750
30 2-Methylphenol	1.48040	1.58582	1.55740	1.60837	1.70750	1.57665	1.58602	4.661
31 bis(2-Chloroisopropyl) ether	1.43727	1.43955	1.52058	1.36365	1.41737	1.29505	1.41224	5.414
32 N-Nitroso-di-n-propylamine	2.00722	1.95264	2.06072	1.89014	1.98593	1.81254	1.95153	4.543

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
M 195 Cresols, total	3.05502	3.24135	3.28378	3.42218	3.76637	3.49458	3.37721	7.232
192 4-Methylphenol	1.57463	1.65553	1.72637	1.81381	2.05887	1.91793	1.79119	9.916
193 3-Methylphenol	1.79455	1.75115	1.97844	1.91840	2.00698	2.04472	1.91571	6.206
34 Hexachloroethane	0.73140	0.76096	0.77432	0.74510	0.79217	0.76973	0.76228	2.841
35 Nitrobenzene	0.79718	0.79699	0.81044	0.76976	0.81537	0.80421	0.79899	2.009
36 N-Nitrosopyrrolidine	0.89305	0.85119	0.96199	0.92735	0.93331	0.95873	0.92094	4.594
37 Acetophenone	2.66019	2.50343	2.82974	2.84495	2.84581	2.92026	2.76739	5.612
39 o-Toluidine	2.84006	2.63085	2.97870	3.09241	3.17816	3.25524	2.99590	7.723
40 N-Nitrosopiperidine	0.19718	0.20790	0.21785	0.22278	0.21994	0.22693	0.21543	5.094
41 Isophorone	1.28863	1.27657	1.37284	1.26168	1.34070	1.27643	1.30281	3.366
42 2-Nitrophenol	0.16609	0.17591	0.17350	0.18711	0.21313	0.20993	0.18761	10.523
43 2,4-Dimethylphenol	0.48970	0.50744	0.52001	0.51208	0.56245	0.54490	0.52276	5.072
44 bis(2-Chloroethoxy)methane	0.65297	0.65835	0.64051	0.66000	0.71871	0.68779	0.66972	4.268
45 O,O,O-Triethyl phosphorothioa	0.22004	0.22576	0.24799	0.25934	0.26635	0.27869	0.24970	9.247
46 2,4-Toluediamene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.38071	0.38705	0.38992	0.39574	0.45436	0.46258	0.41173	8.895
48 2,4-Dichlorophenol	0.29988	0.31450	0.31754	0.32464	0.35941	0.35063	0.32777	6.947
49 Benzoic Acid	+++++	0.07375	0.12265	0.12511	0.13112	0.12407	0.11534	20.350 <-
50 1,2,4-Trichlorobenzene	0.34252	0.35095	0.36332	0.36390	0.40365	0.40175	0.37102	6.961
51 Naphthalene	1.03898	1.06586	1.07747	1.09049	1.21424	1.19054	1.11293	6.446
52 4-Chloroaniline	0.38579	0.42000	0.42123	0.44167	0.49381	0.47538	0.43965	9.007
53 a,a-Dimethyl-phenethylamine	0.44656	0.92684	0.50660	0.83938	0.81903	0.83734	0.72929	27.451
54 2,6-Dichlorophenol	0.28612	0.29342	0.34207	0.35122	0.35722	0.36596	0.33267	10.282
55 Hexachloropropene	0.21866	0.23425	0.25545	0.31618	0.32109	0.33907	0.28078	18.119
56 Hexachlorobutadiene	0.25425	0.25774	0.26883	0.28149	0.32590	0.33180	0.28657	11.890
57 1,2,3-Trichlorobenzene	0.35139	0.35312	0.36942	0.38286	0.43753	0.43721	0.38859	10.165
58 N-Nitrosodi-n-butylamine	0.45269	0.46304	0.48853	0.49381	0.49234	0.51646	0.48448	4.759
59 4-Chloro-3-Methylphenol	0.40172	0.42526	0.44983	0.43759	0.47578	0.45455	0.44079	5.805
60 p-Phenylene diamine	0.19525	0.27370	0.21982	0.38487	0.39665	0.42509	0.31590	31.264
61 Safrole	0.30982	0.30831	0.34040	0.34769	0.36065	0.37569	0.34043	7.962
62 2-Methylnaphthalene	0.68610	0.69722	0.71760	0.73540	0.83297	0.79793	0.74454	7.862
63 1-Methylnaphthalene	0.68321	0.68862	0.70810	0.71938	0.81330	0.78133	0.73232	7.235
64 Hexachlorocyclopentadiene	0.27815	0.32774	0.40150	0.42574	0.50433	0.56231	0.41663	25.470

0.005
0.412
87

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.59161	0.59227	0.68610	0.74049	0.79098	0.80587	0.70122	13.478
66 2,4,6-Trichlorophenol	0.35274	0.36587	0.38182	0.39933	0.43752	0.44242	0.39662	9.345
67 2,4,5-Trichlorophenol	0.34818	0.36918	0.37975	0.40128	0.44780	0.44939	0.39926	10.488
68 1,2,3,5-Tetrachlorobenzene	0.60535	0.61080	0.64135	0.67246	0.77539	0.80218	0.68459	12.362
69 1,4-Dinitrobenzene	0.11837	0.13350	0.16115	0.17466	0.18041	0.18305	0.15852	16.895
70 2-Chloronaphthalene	1.07395	1.10645	1.17692	1.25393	1.44477	1.47140	1.25457	13.517
71 Isosafrole 1	0.13939	0.14292	0.15369	0.15726	0.15707	0.15980	0.15169	5.578
M 188 Isosafrole, Total	1.07128	1.11383	1.29761	1.36962	1.47906	1.51239	1.30730	14.050
72 Isosafrole 2	0.93189	0.97090	1.14392	1.21236	1.32199	1.35259	1.15561	15.187
73 2-Nitroaniline	0.53222	0.58373	0.61730	0.62652	0.66504	0.66701	0.61530	8.343
74 1,2,3,4-Tetrachlorobenzene	0.56209	0.55558	0.56909	0.59572	0.67059	0.68050	0.60560	9.241
75 1,4-Naphthoquinone	0.34566	0.37181	0.41221	0.43779	0.44014	0.44917	0.40946	10.256
76 Dimethylphthalate	1.29578	1.31863	1.30018	1.35293	1.38962	1.41283	1.34499	3.609
77 m-Dinitrobenzene	0.15172	0.15629	0.17630	0.18604	0.18999	0.19184	0.17536	9.952
78 2,6-Dinitrotoluene	0.21517	0.24235	0.23980	0.25415	0.27465	0.27938	0.25092	9.529
79 Acenaphthylene	1.70448	1.74493	1.77316	1.90433	2.07874	2.11023	1.88598	9.286
80 1,2-Dinitrobenzene	0.11266	0.11914	0.12414	0.13657	0.14113	0.14557	0.12987	10.111
81 3-Nitroaniline	0.20581	0.21213	0.20353	0.24313	0.26876	0.26018	0.23226	12.420
82 Acenaphthene	1.09354	1.11301	1.13011	1.19670	1.31134	1.31560	1.19338	8.320
83 2,4-Dinitrophenol	+++++	0.05822	0.07811	0.09952	0.11723	0.11878	0.09437	27.613 <-
84 Pentachlorobenzene	0.47187	0.49569	0.58090	0.61018	0.66213	0.68106	0.58364	14.658
85 4-Nitrophenol	+++++	0.22575	0.27172	0.28784	0.29779	0.31359	0.27934	12.028 <-
86 Dibenzofuran	1.50506	1.54429	1.55249	1.65984	1.83602	1.84572	1.65724	9.127
87 2,4-Dinitrotoluene	0.28347	0.31753	0.33598	0.35624	0.38184	0.39006	0.34419	11.717
88 2,3,4,6-Tetrachlorophenol	0.21658	0.22567	0.28662	0.29693	0.31729	0.33379	0.27948	17.224
89 1-Naphthylamine	0.75187	0.87239	0.99556	1.06481	1.08624	1.19264	0.99392	15.997
90 Zinophos	0.43940	0.44687	0.45251	0.48082	0.49562	0.49142	0.46777	5.218
91 2,3,5,6-Tetrachlorophenol	0.26236	0.29596	0.31927	0.34062	0.38888	0.39400	0.33351	15.552
92 2-Naphthylamine	0.79986	0.85025	0.80202	0.92768	0.94416	1.01605	0.89000	9.755
93 Diethylphthalate	1.29141	1.28070	1.32376	1.31581	1.35282	1.38181	1.32439	2.860
94 Fluorene	1.26782	1.26851	1.31876	1.39561	1.56245	1.57168	1.39747	9.977
95 4-Chlorophenyl-phenylether	0.66088	0.65864	0.70470	0.71426	0.77555	0.80100	0.71917	8.148
96 4-Nitroaniline	0.17614	0.15687	0.18554	0.22835	0.24129	0.24312	0.20522	18.027

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.24407	0.23029	0.27573	0.29250	0.29405	0.30959	0.27571	10.470
98 4,6-Dinitro-2-methylphenol	++++	0.08183	0.09434	0.11335	0.13009	0.12764	0.10945	19.181<-
99 N-Nitrosodiphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
100 1,2-Diphenylhydrazine	1.66387	1.64154	1.74647	1.57690	1.66750	1.63413	1.65507	3.344
101 Diphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
102 Tetraethyl dithiopyrophosphat	0.10840	0.12096	0.13251	0.14311	0.15585	0.15200	0.13547	13.606
103 Diallate 1	1.05539	1.08962	1.13781	1.20528	1.23637	1.23284	1.15955	6.633
M 189 Diallate, Total	4.70416	4.28222	4.67869	4.51110	4.42999	4.54799	4.52569	3.485
104 Phorate	0.15485	0.16645	0.19263	0.21007	0.23435	0.23484	0.19886	16.988
105 1,3,5-Trinitrobenzene	0.04561	0.04556	0.06795	0.07470	0.08278	0.08952	0.06769	27.489
106 4-Bromophenyl-phenylether	0.23198	0.23739	0.24787	0.25148	0.29320	0.28697	0.25815	9.990
107 Hexachlorobenzene	0.21056	0.21545	0.23609	0.24014	0.29819	0.29119	0.24860	15.101
108 Phenacetin	0.39381	0.42738	0.48650	0.52136	0.53897	0.55442	0.48707	13.200
109 Diallate 2	0.16514	0.16925	0.17386	0.17293	0.17291	0.16908	0.17053	1.949
110 Dimethate	0.40988	0.42393	0.45037	0.48079	0.46945	0.47181	0.45104	6.337
111 Pentachlorophenol	++++	0.09410	0.11460	0.12867	0.15659	0.15488	0.12977	20.581<-
112 Pentachloronitrobenzene	0.13908	0.13953	0.17200	0.18850	0.20585	0.21436	0.17655	18.313
113 4-Aminobiphenyl	0.50521	0.51154	0.71130	0.82007	0.94799	1.00195	0.74968	28.351
114 Pronamide	0.37523	0.38877	0.42833	0.45514	0.47206	0.48538	0.43415	10.335
115 Phenanthrene	1.12594	1.15503	1.19453	1.26294	1.47200	1.40596	1.26940	11.085
116 Anthracene	1.07069	1.09777	1.18165	1.18893	1.34998	1.32605	1.20251	9.553
117 Dinoseb	0.09725	0.09705	0.15594	0.17497	0.19788	0.20891	0.15533	31.325
118 Disulfoton	0.65325	0.65920	0.67635	0.70456	0.74153	0.72957	0.69408	5.320
119 Carbazole	0.88856	0.89240	0.87562	0.95072	1.09881	1.07158	0.96295	10.232
120 Di-n-Butylphthalate	1.39373	1.35904	1.40316	1.40402	1.58188	1.53891	1.44679	6.258
121 4-Nitroquinoline 1-oxide	0.03168	0.03669	0.06933	0.07702	0.09293	0.09987	0.06792	41.745
122 Methapyrilene	0.40822	0.47124	0.39003	0.45314	0.40540	0.42458	0.42544	7.297
123 Fluoranthene	1.22952	1.25569	1.31321	1.38272	1.63510	1.59412	1.40173	12.364
124 Benzidine	0.20435	0.21532	0.19464	0.24426	0.31543	0.32231	0.24938	22.607
125 Pyrene	1.56315	1.52547	1.30753	1.31840	1.19860	1.17099	1.34735	12.148
126 Aramite 1	0.08145	0.08164	0.08225	0.08824	0.08894	0.08957	0.08535	4.615
M 191 Aramite, Total	0.57691	0.51050	0.63107	0.57120	0.55569	0.58753	0.57215	6.904
127 Aramite 2	0.10220	0.11763	0.11409	0.12222	0.12506	0.12385	0.11751	7.278

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11415	0.12030	0.12808	0.12272	0.12792	0.12310	0.12271	4.236
211 1,1'-Biphenyl	1.45983	1.52918	1.56424	1.73025	2.00058	2.02416	1.71804	14.250
212 Atrazine	0.22873	0.23726	0.23464	0.24601	0.26998	0.26203	0.24644	6.630
213 Bensothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 154 Nitrobenzene-d5	0.70648	0.71811	0.76715	0.72382	0.77007	0.75326	0.73982	3.668
\$ 155 2-Fluorobiphenyl	1.30504	1.30532	1.34161	1.40416	1.55826	1.57393	1.41472	6.661
\$ 156 Terphenyl-d14	0.97987	0.96425	0.86447	0.88080	0.82963	0.81718	0.88937	7.671
\$ 157 Phenol-d5	2.17540	2.27055	2.19865	2.24717	2.38514	2.23686	2.25230	3.265
\$ 158 2-Fluorophenol	1.32202	1.55630	1.51420	1.47374	1.54337	1.52647	1.48935	5.826
\$ 159 2,4,6-Tribromophenol	0.12156	0.12655	0.14359	0.15801	0.18314	0.19188	0.15413	18.834
\$ 186 2-Chlorophenol-d4	1.15418	1.19147	1.19461	1.21906	1.29538	1.23361	1.21472	3.947
\$ 187 1,2-Dichlorobenzene-d4	0.88915	0.91767	0.96644	0.97969	1.12123	1.11060	0.99746	9.771

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP013

Lab File ID: 6DF0711B

DFTPP Injection Date: 07/11/00

Instrument ID: A4HP6

DFTPP Injection Time: 0657

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.9
68	Less than 2.0% of mass 69	1.0 (1.3)1
69	Mass 69 relative abundance	72.4
70	Less than 2.0% of mass 69	0.6 (0.8)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	4.3
441	Present, but less than mass 443	6.6
442	Greater than 40.0% of mass 198	42.2
443	17.0 - 23.0% of mass 442	8.1 (19.2)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0711	07/11/00	0715
02	ASTD016	ASTD016	6AM0711	07/11/00	0752
03	DFPHWBLK	DFPHW101	DFPHW101	07/11/00	0829
04	DFPHWCHK	DFPHW102	DFPHW102	07/11/00	0906
05	MPT-G4-GW-13	DFMLE101	DFMLE101	07/11/00	1437
06	MPT-G4-GW-17	DFMLL101	DFMLL101	07/11/00	1513
07	MPT-G4-GW-DU	DFMLN101	DFMLN101	07/11/00	1550
08	MPT-G4-GW-14	DFMLG101	DFMLG101	07/11/00	1627
09	MPT-G4-GW-15	DFMLH101	DFMLH101	07/11/00	1704
10	MPT-G4-GW-16	DFMLJ101	DFMLJ101	07/11/00	1741
11					
12					
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14					
15					
16					
17					
18					
19					
20					
21					
22					

97-120

Data File: \\qcanoh05\dd\chem\MSS\a4hp6.i\00711a.b\6SM0711.D
 Report Date: 11-Jul-2000 06:46

Page 1

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 11-JUL-2000 07:15
 Lab File ID: 6SM0711.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00711a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.83162	1.71559	0.010	-6.3	50.0
10 N-Nitrosodimethylamine	1.55703	1.46558	0.010	-5.9	50.0
11 Ethyl methacrylate	2.09738	1.83168	0.010	-12.7	50.0
13 3-Chloropropionitrile	0.89741	0.91760	0.010	2.2	50.0
13 Malononitrile	2.21083	2.15533	0.010	-2.5	50.0
209 Benzaldehyde	1.20356	1.27709	0.010	6.1	50.0
21 Aniline	3.08655	3.16357	0.010	2.5	50.0
22 Phenol	2.75393	2.78865	0.010	1.3	20.0
23 bis(2-Chloroethyl) ether	1.88740	1.85058	0.010	-2.0	50.0
24 2-Chlorophenol	1.31882	1.30289	0.010	-1.2	50.0
26 1,3-Dichlorobenzene	1.54498	1.50767	0.010	-2.4	50.0
27 1,4-Dichlorobenzene	1.55859	1.51685	0.010	-2.7	20.0
28 1,2-Dichlorobenzene	1.44231	1.39332	0.010	-3.4	50.0
29 Benzyl Alcohol	1.32361	1.18698	0.010	-3.0	50.0
30 2-Methylphenol	1.58602	1.56530	0.010	-1.3	50.0
31 bis(2-Chloroisopropyl) ether	1.41224	1.49411	0.010	5.8	50.0
37 Acetophenone	2.76739	2.49946	0.010	-9.7	50.0
33 N-Nitroso-di-n-propylamine	1.95153	1.98131	0.050	1.7	50.0
192 4-Methylphenol	1.79119	1.68402	0.010	-6.0	50.0
34 Hexachloroethane	0.76228	0.79159	0.010	2.5	50.0
35 Nitrobenzene	0.79899	0.81390	0.010	1.9	50.0
41 Isophorene	1.30281	1.31291	0.010	0.8	50.0
42 2-Nitrophenol	0.18761	0.18725	0.010	-0.2	20.0
43 2,4-Dimethylphenol	0.52276	0.50797	0.010	-2.8	50.0
44 bis(2-Chloroethoxy)methane	0.66572	0.63267	0.010	-5.5	50.0
46 2,4-Toluene diamine	++++	0.00710	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.41173	0.39731	0.010	-3.5	50.0
48 2,4-Dichlorophenol	0.32777	0.31491	0.010	-3.9	20.0
49 Benzoic Acid	0.11534	0.11444	0.010	-0.8	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.36705	0.010	-1.1	50.0
51 Naphthalene	1.11293	1.08705	0.010	-2.3	50.0
52 4-Chloroaniline	0.41965	0.42438	0.010	3.5	50.0
56 Hexachlorobutadiene	0.28667	0.26693	0.010	-6.9	20.0
210 Caprolactam	0.12271	0.12756	0.010	4.0	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.36521	0.010	-6.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 11-JUL-2000 07:15
 Lab File ID: 6SM0711.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00711a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.44079	0.45394	0.010	3.0	20.0
62 2-Methylnaphthalene	0.74454	0.72929	0.010	-2.0	50.0
63 1-Methylnaphthalene	0.73232	0.71016	0.010	-3.0	50.0
64 Hexachlorocyclopentadiene	0.41663	0.40127	0.050	-3.7	50.0
66 2,4,6-Trichlorophenol	0.39662	0.38545	0.010	-2.8	20.0
67 2,4,5-Trichlorophenol	0.39926	0.38590	0.010	-3.3	50.0
211 1,1'-Biphenyl	1.71804	1.62049	0.010	-5.7	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.63745	0.010	-6.9	50.0
70 2-Chloronaphthalene	1.25457	1.20294	0.010	-4.1	50.0
73 2-Nitroaniline	0.61530	0.69266	0.010	12.6	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.55720	0.010	-8.0	50.0
76 Dimethylphthalate	1.34459	1.29653	0.010	-3.6	50.0
78 2,6-Dinitrotoluene	0.25092	0.26096	0.010	4.0	50.0
79 Acenaphthylene	1.88598	1.83961	0.010	-2.5	50.0
80 1,2-Dinitrobenzene	0.12987	0.14336	0.010	10.4	50.0
81 3-Nitroaniline	0.23226	0.25875	0.010	11.4	50.0
82 Acenaphthene	1.19338	1.17388	0.010	-1.6	20.0
83 2,4-Dinitrophenol	0.09437	0.09848	0.050	4.4	50.0
85 4-Nitrophenol	0.27934	0.26775	0.050	-4.1	50.0
86 Dibenzofuran	1.65724	1.63313	0.010	-1.5	50.0
87 2,4-Dinitrotoluene	0.34419	0.37550	0.010	9.1	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.34982	0.010	4.9	50.0
93 Diethylphthalate	1.32439	1.35606	0.010	2.4	50.0
94 Fluorene	1.39747	1.40293	0.010	0.4	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.72538	0.010	0.9	50.0
96 4-Nitroaniline	0.20522	0.24776	0.010	20.7	50.0
98 4,6-Dinitro-2-methylphenol	0.10945	0.10788	0.010	-1.4	50.0
99 N-Nitrosodiphenylamine	0.59293	0.55151	0.010	-7.0	20.0
100 1,2-Diphenylhydrazine	1.65507	1.68581	0.010	1.9	50.0
106 4-Bromophenyl-phenylether	0.25815	0.23078	0.010	-10.6	50.0
107 Hexachlorobenzene	0.24860	0.21326	0.010	-14.2	50.0
212 Atrazine	0.24644	0.23818	0.010	-3.4	50.0
111 Pentachlorophenol	0.12977	0.11671	0.010	-10.1	20.0
115 Phenanthrene	1.26940	1.21136	0.010	-4.6	50.0
116 Anthracene	1.20251	1.22112	0.010	1.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 11-JUL-2000 07:15
 Lab File ID: 6SM0711.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00711a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.96295	0.96202	0.010	2.0	50.0
120 Di-n-Butylphthalate	1.44679	1.41041	0.010	-2.5	50.0
123 Fluoranthene	1.40173	1.40349	0.010	0.1	20.0
124 Benzidine	0.24938	0.23907	0.010	-4.1	50.0
125 Pyrene	1.34735	1.27798	0.010	-5.1	50.0
131 Butylbenzylphthalate	0.55844	0.53628	0.010	-4.0	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.19238	0.010	-12.3	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.40036	0.010	-4.4	50.0
136 Benzo (a) Anthracene	1.31224	1.29095	0.010	-1.6	50.0
137 Chryuene	1.04593	1.06401	0.010	1.7	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.20829	0.010	-2.7	50.0
139 bis (2-ethylhexyl) Phthalate	0.80257	0.79361	0.010	-1.1	50.0
140 Di-n-octylphthalate	1.95537	1.98649	0.010	1.6	20.0
141 Benzo (b) Fluoranthene	1.48220	1.44731	0.010	-2.4	50.0
142 Benzo (k) Fluoranthene	1.48466	1.46188	0.010	-1.5	50.0
146 Benzo (a) pyrene	1.27767	1.22690	0.010	-4.0	20.0
149 Indeno (1,2,3-cd) pyrene	0.99199	0.83693	0.010	-15.6	50.0
150 Dibenz (a,b) anthracene	0.97805	0.87901	0.010	-10.1	50.0
151 Benzo (g,h,i) perylene	0.93470	0.85162	0.010	-14.4	50.0
\$ 154 Nitrobenzene-d5	0.73982	0.80635	0.010	9.0	50.0
\$ 155 2-Fluorobiphenyl	1.43472	1.34890	0.010	-4.7	50.0
\$ 156 Terphenyl-d14	0.88937	0.83767	0.010	-5.8	50.0
\$ 157 Phenol-d5	2.25210	2.24270	0.010	-0.4	50.0
\$ 158 2-Fluorephenol	1.48935	1.50038	0.010	0.7	50.0
\$ 159 2,4,6-Tribromophenol	0.15413	0.15236	0.010	-1.1	50.0
\$ 186 2-Chlorophenol-d4	1.21472	1.19232	0.010	-1.8	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99746	0.96445	0.010	-3.3	50.0
M 195 Cresols, total	3.37721	3.24932	0.010	-3.8	50.0
101 Diphenylamine	0.52293	0.55151	0.010	-7.0	50.0

STL - North Canton

87-12-00

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 11-JUL-2000 07:52
 Lab File ID: 6AM0711.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00711a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.21026	1.07731	0.010	-11.0	50.0
8 Ethyl methanesulfonate	2.02308	1.95470	0.010	-8.3	50.0
14 2-Picoline	2.29335	2.13503	0.010	-6.9	50.0
15 N-Nitrosomethylethylamine	1.00692	1.00933	0.010	0.2	50.0
16 Methyl methanesulfonate	1.85491	1.60933	0.010	-13.2	50.0
18 1,3-Dichloro-2-propanol	2.77908	2.60438	0.010	-6.3	50.0
19 N-Nitrosodiethylamine	0.93230	0.86987	0.010	-6.7	50.0
25 Pentachloroethane	0.66963	0.63761	0.010	-4.8	50.0
36 N-Nitrosopyrrolidine	0.92094	0.85049	0.010	-7.6	50.0
37 Acetophenone	2.76739	2.51592	0.010	-9.1	50.0
39 o-Toluidine	2.99590	2.71653	0.010	-9.3	50.0
40 N-Nitrosopiperidine	0.21543	0.19751	0.010	-8.3	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.22302	0.010	-10.7	50.0
53 a,a-Dimethyl-phenethylamine	0.72929	0.93177	0.010	27.8	50.0
54 2,6-Dichlorophenol	0.33267	0.29023	0.010	-12.8	50.0
55 Hexachloropropene	0.28078	0.27309	0.010	-2.7	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.43470	0.010	-10.3	50.0
60 p-Phenylene diamine	0.31590	0.26512	0.010	-16.1	50.0
61 Safrole	0.34043	0.30942	0.010	-9.1	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.62208	0.010	-11.3	50.0
71 Isosafrole 1	0.15169	0.15208	0.010	0.3	50.0
M 188 Isosafrole, Total	1.30730	1.18593	0.010	-9.3	50.0
72 Isosafrole 2	1.15561	1.03385	0.010	-10.5	50.0
75 1,4-Naphthoquinone	0.40946	0.39233	0.010	-4.2	50.0
84 Pentachlorobenzene	0.58364	0.53910	0.010	-7.6	50.0
89 1-Naphthylamine	0.99392	1.03123	0.010	3.8	50.0
92 2-Naphthylamine	0.89000	0.95486	0.010	7.3	50.0
90 Zinophos	0.46777	0.47295	0.010	1.1	50.0
102 Tetraethyl dithiopyrophosph	0.13547	0.12536	0.010	-7.5	50.0
103 Diallate 1	1.15955	1.08389	0.010	-6.5	50.0
M 189 Diallate, Total	4.52569	4.53379	0.010	0.2	50.0
109 Diallate 2	0.17053	0.16428	0.010	-3.7	50.0
104 Phorate	0.19886	0.17416	0.010	-12.4	50.0
105 1,3,5-Trinitrobenzene	0.06769	0.06915	0.010	2.2	50.0
108 Phenacetin	0.48707	0.44127	0.010	-9.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 11-JUL-2000 07:52
 Lab File ID: 6AM0711.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00711a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.45104	0.45216	0.010	0.2	50.0
112 Pentachloronitrobenzene	0.17655	0.15627	0.010	-11.5	50.0
113 4-Aminobiphenyl	0.74968	0.60450	0.010	-19.4	50.0
114 Pronamide	0.43415	0.40291	0.010	-7.2	50.0
117 Dinoseb	0.15533	0.15200	0.010	-2.1	50.0
118 Disulfoton	0.69408	0.65671	0.010	-5.4	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.05713	0.010	-15.9	50.0
122 Methapyrilene	0.42544	0.39499	0.010	-7.2	50.0
126 Aramite 1	0.08535	0.07726	0.010	-9.5	50.0
M 191 Aramite, Total	0.57215	0.59694	0.010	4.3	50.0
127 Aramite 2	0.11751	0.10530	0.010	-10.4	50.0
128 p-Dimethylamino azobenzene	0.33102	0.28717	0.010	-13.2	50.0
129 p-Chlorobenzilate	0.69635	0.59702	0.010	-14.3	50.0
130 Famphur	0.34417	0.38614	0.010	12.2	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.47424	0.010	2.0	50.0
134 2-Acetylaminofluorene	0.47056	0.44580	0.010	-5.3	50.0
143 7,12-dimethylbenz[a]anthrac	0.90409	0.66572	0.010	-26.4	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.86822	0.64677	0.010	-25.5	50.0
193 3-Methylphenol	1.91571	1.68297	0.010	-12.1	50.0
69 1,4-Dinitrobenzene	0.15852	0.17047	0.010	7.5	50.0
77 m-Dinitrobenzene	0.17536	0.19316	0.010	10.2	50.0
198 1,4-Dioxane	0.82298	0.65932	0.010	-19.9	50.0
88 2,3,4,6-Tetrachlorophenol	0.27948	0.27581	0.010	-1.3	50.0
97 5-Nitro-o-toluidine	0.27571	0.29346	0.010	6.4	50.0
199 3-Picoline	2.02308	1.80726	0.010	-10.7	50.0
200 N,N-Dimethylacetamide	1.13415	1.05632	0.010	-6.9	50.0

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFPHW101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP013

Lab File ID: DFPHW101.

Lot Number: AOG010107

Date Analyzed: 07/11/00

Time Analyzed: 08:29

Matrix: WATER

Date Extracted:07/06/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP6

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DFK1W101	DFK1W101.	07/11/00	10:19
02	LAB MS/MSD	DFK1W102 S	DFK1W102.	07/11/00	10:56
03	LAB MS/MSD	DFK1W103 D	DFK1W103.	07/11/00	11:32
04	LAB MS/MSD	DFL2H10V S	DFL2H10V.	07/12/00	12:40
05	LAB MS/MSD	DFL2H10W D	DFL2H10W.	07/12/00	13:16
06	INTRA-LAB QC	DFL2H102	DFL2H102.	07/12/00	12:03
07	MPT-G4-GW-13-06	DFM1E101	DFM1E101.	07/11/00	14:37
08	MPT-G4-GW-14-10	DFM1G101	DFM1G101.	07/11/00	16:27
09	MPT-G4-GW-15-09	DFM1H101	DFM1H101.	07/11/00	17:04
10	MPT-G4-GW-16-08	DFM1J101	DFM1J101.	07/11/00	17:41
11	MPT-G4-GW-17-09	DFM1L101	DFM1L101.	07/11/00	15:13
12	MPT-G4-GW-DU01	DFM1N101	DFM1N101.	07/11/00	15:50
13	CHECK SAMPLE	DFPHW102 C	DFPHW102.	07/11/00	09:06
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COMMENTS:

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFPHW102

BATCH: 0187342

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	33	67	31- 110	
Acenaphthene	50	35	70	39- 118	
2,4-Dinitrotoluene	50	39	78	47- 131	
Pyrene	50	38	76	46- 130	
N-Nitrosodi-n-propylamine	50	39	78	30- 115	
1,4-Dichlorobenzene	50	32	65	28- 110	
Pentachlorophenol	50	33	66	10- 140	
4-Nitrophenol	50	32	64	19- 144	
4-Methylphenol	100	69	69	29- 144	
4-Nitroaniline	50	33	67	32- 106	
Acenaphthylene	50	34	69	48- 101	
Phenol	50	38	76	10- 131	
2-Chlorophenol	50	39	78	19- 124	
4-Chloro-3-methylphenol	50	37	75	29- 124	
1,2-Dichlorobenzene	50	33	67	39- 90	
1,3-Dichlorobenzene	50	31	63	34- 85	
2,4,5-Trichlorophenol	50	36	72	41- 125	
Anthracene	50	37	75	56- 105	
Benzo(a)anthracene	50	37	73	56- 109	
Benzo(a)pyrene	50	34	67	50- 100	
Benzo(b)fluoranthene	50	34	68	52- 108	
Benzo(ghi)perylene	50	35	70	45- 115	
Benzo(k)fluoranthene	50	34	68	53- 112	
bis(2-Chloroethoxy)methan	50	36	72	39- 109	
bis(2-Chloroethyl) ether	50	41	81	45- 103	
2,2'-Oxybis(1-Chloropropa	50	44	88	49- 136	
bis(2-Ethylhexyl) phthala	50	45	90	56- 127	
2,4,6-Trichlorophenol	50	36	72	46- 135	
2,4-Dichlorophenol	50	34	69	48- 101	
2,4-Dimethylphenol	50	12	23	10- 88	
2,4-Dinitrophenol	50	40	79	21- 143	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFPHW102

BATCH: 0187342

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	41	83	62 - 114	
2-Chloronaphthalene	50	32	63	51 - 106	
2-Methylnaphthalene	50	36	71	49 - 98	
2-Methylphenol	50	34	69	33 - 115	
2-Nitroaniline	50	42	84	55 - 119	
2-Nitrophenol	50	38	75	43 - 104	
3,3'-Dichlorobenzidine	50	24	48	20 - 76	
3-Nitroaniline	50	40	80	33 - 107	
4,6-Dinitro-2-methylpheno	50	36	73	37 - 137	
4-Bromophenyl phenyl ethe	50	33	67	57 - 114	
4-Chloroaniline	50	30	60	19 - 82	
4-Chlorophenyl phenyl eth	50	36	71	57 - 114	
Butyl benzyl phthalate	50	35	70	53 - 113	
Carbazole	50	36	73	37 - 114	
Chrysene	50	40	79	59 - 112	
Dibenz(a,h)anthracene	50	37	74	50 - 112	
Dibenzofuran	50	35	70	55 - 107	
Diethyl phthalate	50	5.7	11*	48 - 112	a
Dimethyl phthalate	50	ND	2*	46 - 117	a
Di-n-octyl phthalate	50	36	73	49 - 127	
Fluoranthene	50	37	74	53 - 116	
Fluorene	50	36	73	57 - 107	
Hexachlorobenzene	50	32	63	57 - 128	
Hexachlorobutadiene	50	26	52	36 - 116	
Hexachloroethane	50	29	59	30 - 110	
Isophorone	50	37	75	48 - 103	
Naphthalene	50	36	72	46 - 95	
Nitrobenzene	50	39	79	45 - 130	
N-Nitrosodiphenylamine	50	33	67	47 - 112	
Phenanthrene	50	35	71	58 - 110	
Indeno(1,2,3-cd)pyrene	50	34	68	49 - 114	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFPHW102

BATCH: 0187342

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	29	59	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFNW1102

BATCH: 0187103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	50	101	31- 110	
Acenaphthene	50	52	105	39- 118	
2,4-Dinitrotoluene	50	55	111	47- 131	
Pyrene	50	46	92	46- 130	
N-Nitrosodi-n-propylamine	50	45	89	30- 115	
1,4-Dichlorobenzene	50	45	89	28- 110	
Pentachlorophenol	50	48	96	10- 140	
Phenol	50	49	98	10- 131	
2-Chlorophenol	50	49	98	19- 124	
4-Chloro-3-methylphenol	50	52	104	29- 124	
4-Nitrophenol	50	67	133	19- 144	
1,2-Dichlorobenzene	50	47	94*	39- 90	a
1,3-Dichlorobenzene	50	44	88*	34- 85	a
2,4,5-Trichlorophenol	50	55	109	41- 125	
4-Methylphenol	100	96	96	29- 144	
4-Nitroaniline	50	49	99	32- 106	
Acenaphthylene	50	50	100	48- 101	
Anthracene	50	52	104	56- 105	
Benzo(a)anthracene	50	54	107	56- 109	
Benzo(a)pyrene	50	48	97	50- 100	
Benzo(b)fluoranthene	50	49	97	52- 108	
Benzo(ghi)perylene	50	45	91	45- 115	
Benzo(k)fluoranthene	50	51	102	53- 112	
bis(2-Chloroethoxy)methan	50	48	95	39- 109	
bis(2-Chloroethyl) ether	50	49	99	45- 103	
2,2'-Oxybis(1-Chloropropa	50	50	99	49- 136	
bis(2-Ethylhexyl) phthala	50	53	105	56- 127	
2,4,6-Trichlorophenol	50	53	107	46- 135	
2,4-Dichlorophenol	50	53	106*	48- 101	a
2,4-Dimethylphenol	50	18	36	10- 88	
2,4-Dinitrophenol	50	67	133	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFNW1102

BATCH: 0187103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	56	112	62 - 114	
2-Chloronaphthalene	50	53	107*	51 - 106	a
2-Methylnaphthalene	50	54	108*	49 - 98	a
2-Methylphenol	50	45	89	33 - 115	
2-Nitroaniline	50	52	105	55 - 119	
2-Nitrophenol	50	55	111*	43 - 104	a
3,3'-Dichlorobenzidine	50	35	69	20 - 76	
3-Nitroaniline	50	52	104	33 - 107	
4,6-Dinitro-2-methylpheno	50	58	115	37 - 137	
4-Bromophenyl phenyl ethe	50	51	102	57 - 114	
4-Chloroaniline	50	47	94*	19 - 82	a
4-Chlorophenyl phenyl eth	50	53	105	57 - 114	
Butyl benzyl phthalate	50	43	86	53 - 113	
Carbazole	50	51	101	37 - 114	
Chrysene	50	49	98	59 - 112	
Dibenz(a,h)anthracene	50	48	96	50 - 112	
Dibenzofuran	50	53	106	55 - 107	
Diethyl phthalate	50	14	29*	48 - 112	a
Dimethyl phthalate	50	ND	6*	46 - 117	a
Di-n-octyl phthalate	50	50	99	49 - 127	
Fluoranthene	50	54	108	53 - 116	
Fluorene	50	54	108*	57 - 107	a
Hexachlorobenzene	50	46	93	57 - 128	
Hexachlorobutadiene	50	51	102	36 - 116	
Hexachloroethane	50	43	85	30 - 110	
Isophorone	50	49	99	48 - 103	
Naphthalene	50	51	103*	46 - 95	a
Nitrobenzene	50	50	100	45 - 130	
N-Nitrosodiphenylamine	50	47	93	47 - 112	
Phenanthrene	50	52	103	58 - 110	
Indeno(1,2,3-cd)pyrene	50	47	94	49 - 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFNW1102

BATCH: 0187103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	46	91	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 12 out of 64 outside limits

COMMENTS:

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: AOG050000

WO #: DFNW1103

BATCH: 0187103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Diethyl phthalate	50	18	37*	48- 112	a p
Dimethyl phthalate	50	ND	9*	46- 117	a p
Di-n-octyl phthalate	50	47	93	49- 127	
Fluoranthene	50	53	105	53- 116	
Fluorene	50	51	103	57- 107	
Hexachlorobenzene	50	45	90	57- 128	
Hexachlorobutadiene	50	52	103	36- 116	
Hexachloroethane	50	45	89	30- 110	
Isophorone	50	47	94	48- 103	
Naphthalene	50	50	100*	46- 95	a
Nitrobenzene	50	48	96	45- 130	
N-Nitrosodiphenylamine	50	44	89	47- 112	
Phenanthrene	50	51	102	58- 110	
Indeno (1,2,3-cd) pyrene	50	45	89	49- 114	
Di-n-butyl phthalate	50	45	90	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a
1,2,4-Trichlorobenzene	50	50	100	31- 110	
Acenaphthene	50	50	100	39- 118	
2,4-Dinitrotoluene	50	53	106	47- 131	
1,4-Dichlorobenzene	50	46	93	28- 110	
Pyrene	50	44	89	46- 130	
N-Nitrosodi-n-propylamine	50	42	84	30- 115	
Pentachlorophenol	50	44	89	10- 140	
Phenol	50	47	94	10- 131	
2-Chlorophenol	50	47	94	19- 124	
4-Chloro-3-methylphenol	50	50	100	29- 124	
4-Nitrophenol	50	61	122	19- 144	
1,2-Dichlorobenzene	50	47	94*	39- 90	a
1,3-Dichlorobenzene	50	45	90*	34- 85	a
2,4,5-Trichlorophenol	50	51	103	41- 125	
4-Methylphenol	100	91	91	29- 144	

(Continued on next page)

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFNW1103

BATCH: 0187103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
4-Nitroaniline	50	46	93	32- 106	
Acenaphthylene	50	48	96	48- 101	
Anthracene	50	52	103	56- 105	
Benzo (a) anthracene	50	51	102	56- 109	
Benzo (a) pyrene	50	47	94	50- 100	
Benzo (b) fluoranthene	50	46	93	52- 108	
Benzo (ghi) perylene	50	45	89	45- 115	
Benzo (k) fluoranthene	50	49	98	53- 112	
bis (2-Chloroethoxy) methan	50	46	91	39- 109	
bis (2-Chloroethyl) ether	50	47	94	45- 103	
2,2'-Oxybis (1-Chloropropa	50	47	94	49- 136	
bis (2-Ethylhexyl) phthala	50	55	111	56- 127	
2,4,6-Trichlorophenol	50	50	101	46- 135	
2,4-Dichlorophenol	50	50	100	48- 101	
2,4-Dimethylphenol	50	15	30	10- 88	
2,4-Dinitrophenol	50	58	116	21- 143	
2,6-Dinitrotoluene	50	54	108	62- 114	
2-Chloronaphthalene	50	52	103	51- 106	
2-Methylnaphthalene	50	53	106*	49- 98	a
2-Methylphenol	50	42	84	33- 115	
2-Nitroaniline	50	49	99	55- 119	
2-Nitrophenol	50	53	107*	43- 104	a
3,3'-Dichlorobenzidine	50	32	64	20- 76	
3-Nitroaniline	50	49	99	33- 107	
4,6-Dinitro-2-methylpheno	50	55	111	37- 137	
4-Bromophenyl phenyl ethe	50	49	98	57- 114	
4-Chloroaniline	50	45	91*	19- 82	a
4-Chlorophenyl phenyl eth	50	51	102	57- 114	
Butyl benzyl phthalate	50	40	80	53- 113	
Carbazole	50	50	101	37- 114	
Chrysene	50	47	93	59- 112	

(Continued on next page)

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0G050000

WO #: DFNW1103

BATCH: 0187103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Dibenz (a, h) anthracene	50	47	94	50 - 112	
Dibenzofuran	50	51	102	55 - 107	

NOTES (S) :

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 9 out of 64 outside limits

COMMENTS:

SWB46 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0F290000

7/7

WO #: DFGA4102

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	45	91	31- 110	
Acenaphthene	50	47	94	39- 118	
2,4-Dinitrotoluene	50	51	102	47- 131	
Pyrene	50	44	87	46- 130	
N-Nitrosodi-n-propylamine	50	45	89	30- 115	
1,4-Dichlorobenzene	50	41	82	28- 110	
Pentachlorophenol	50	48	97	10- 140	
Phenol	50	45	90	10- 131	
2-Chlorophenol	50	47	94	19- 124	
4-Chloro-3-methylphenol	50	47	95	29- 124	
4-Nitrophenol	50	50	101	19- 144	
1,2-Dichlorobenzene	50	42	84	39- 90	
1,3-Dichlorobenzene	50	39	79	34- 85	
2,4,5-Trichlorophenol	50	48	97	41- 125	
4-Methylphenol	100	90	90	29- 144	
4-Nitroaniline	50	46	92	32- 106	
Acenaphthylene	50	47	94	48- 101	
Anthracene	50	50	100	56- 105	
Benzo(a)anthracene	50	48	96	56- 109	
Benzo(a)pyrene	50	46	93	50- 100	
Benzo(b)fluoranthene	50	47	93	52- 108	
Benzo(ghi)perylene	50	48	96	45- 115	
Benzo(k)fluoranthene	50	48	97	53- 112	
bis(2-Chloroethoxy)methan	50	46	93	39- 109	
bis(2-Chloroethyl) ether	50	49	99	45- 103	
2,2'-Oxybis(1-Chloropropa	50	53	106	49- 136	
bis(2-Ethylhexyl) phthala	50	47	94	56- 127	
2,4,6-Trichlorophenol	50	47	95	46- 135	
2,4-Dichlorophenol	50	47	94	48- 101	
2,4-Dimethylphenol	50	16	32	10- 88	
2,4-Dinitrophenol	50	47	94	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0F290000

WO #: DFGA4102

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	52	103	62- 114	
2-Chloronaphthalene	50	49	99	51- 106	
2-Methylnaphthalene	50	49	97	49- 98	
2-Methylphenol	50	42	84	33- 115	
2-Nitroaniline	50	49	98	55- 119	
2-Nitrophenol	50	49	99	43- 104	
3,3'-Dichlorobenzidine	50	32	64	20- 76	
3-Nitroaniline	50	48	97	33- 107	
4,6-Dinitro-2-methylpheno	50	50	101	37- 137	
4-Bromophenyl phenyl ethe	50	48	97	57- 114	
4-Chloroaniline	50	41	81	19- 82	
4-Chlorophenyl phenyl eth	50	49	97	57- 114	
Butyl benzyl phthalate	50	40	81	53- 113	
Carbazole	50	48	96	37- 114	
Chrysene	50	44	88	59- 112	
Dibenz (a,h) anthracene	50	50	100	50- 112	
Dibenzofuran	50	49	97	55- 107	
Diethyl phthalate	50	16	32*	48- 112	a
Dimethyl phthalate	50	ND	5*	46- 117	a
Di-n-octyl phthalate	50	49	99	49- 127	
Fluoranthene	50	49	98	53- 116	
Fluorene	50	49	98	57- 107	
Hexachlorobenzene	50	47	93	57- 128	
Hexachlorobutadiene	50	43	85	36- 116	
Hexachloroethane	50	37	75	30- 110	
Isophorone	50	48	96	48- 103	
Naphthalene	50	48	96*	46- 95	a
Nitrobenzene	50	49	97	45- 130	
N-Nitrosodiphenylamine	50	46	92	47- 112	
Phenanthrene	50	49	98	58- 110	
Indeno (1,2,3-cd) pyrene	50	48	95	49- 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Lot #: A0F290000

WO #: DFGA4102

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	46	92	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V105

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS & REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100	ND	80	80	22- 110	
Acenaphthene	100	ND	79	79	26- 118	
N-Nitrosodi-n-propylamine	100	ND	74	74	18- 115	
1,4-Dichlorobenzene	100	ND	70	70	18- 110	
Pentachlorophenol	100	ND	77	77	10- 140	
2,4-Dinitrotoluene	100	ND	84	84	31- 131	
Pyrene	100	ND	70	70	27- 138	
Phenol	100	ND	80	80	10- 131	
2-Chlorophenol	100	ND	78	78	19- 124	
4-Chloro-3-methylphenol	100	ND	79	79	21- 124	
4-Nitrophenol	100	ND	84	84	10- 145	
Acenaphthylene	100	ND	79	79	48- 96	
Anthracene	100	ND	82	82	52- 101	
Benzo(a)anthracene	100	ND	77	77	52- 110	
Benzo(b)fluoranthene	100	ND	75	75	48- 107	
Benzo(k)fluoranthene	100	ND	77	77	53- 109	
Benzo(ghi)perylene	100	ND	74	74	48- 109	
Benzo(a)pyrene	100	ND	73	73	47- 98	
bis(2-Chloroethoxy)methan	100	ND	78	78	40- 101	
bis(2-Chloroethyl) ether	100	ND	83	83	36- 104	
2,2'-Oxybis(1-Chloropropa	100	ND	87	87	43- 133	
bis(2-Ethylhexyl) phthala	100	3.2	77	74	44- 133	
4-Bromophenyl phenyl ethe	100	ND	79	79	56- 110	
Butyl benzyl phthalate	100	ND	65	65	46- 115	
Carbazole	100	ND	79	79	42- 115	
4-Chloroaniline	100	ND	73	73*	13- 71	a
2-Chloronaphthalene	100	ND	84	84	46- 104	
4-Chlorophenyl phenyl eth	100	ND	81	81	55- 110	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V105

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS & REC	LIMITS REC	QUAL
Chrysene	100	ND	70	70	54 - 115	
Dibenz (a, h) anthracene	100	ND	76	76	49 - 110	
Dibenzofuran	100	ND	81	81	53 - 104	
Di-n-butyl phthalate	100	ND	76	76	53 - 109	
1,2-Dichlorobenzene	100	ND	73	73	33 - 91	
1,3-Dichlorobenzene	100	ND	68	68	30 - 86	
3,3'-Dichlorobenzidine	100	ND	50	50	10 - 71	
2,4-Dichlorophenol	100	ND	79	79	43 - 103	
Diethyl phthalate	100	ND	47	47	36 - 117	
2,4-Dimethylphenol	100	ND	28	28	10 - 88	
Dimethyl phthalate	100	ND	23	23*	32 - 124	a
4,6-Dinitro-2-methylpheno	100	ND	81	81	46 - 123	
2,4-Dinitrophenol	100	ND	78	78	30 - 133	
2,6-Dinitrotoluene	100	ND	85	85	58 - 109	
Di-n-octyl phthalate	100	ND	80	80	46 - 124	
Fluoranthene	100	ND	82	82	51 - 113	
Fluorene	100	ND	82	82	54 - 105	
Hexachlorobenzene	100	ND	77	77	36 - 132	
Hexachlorobutadiene	100	ND	78	78	18 - 116	
Hexachlorocyclopentadiene	100	ND	0.0	0*	10 - 45	a
Hexachloroethane	100	ND	67	67	18 - 110	
Indeno (1,2,3-cd) pyrene	100	ND	74	74	48 - 113	
Isophorone	100	ND	79	79	42 - 102	
2-Methylnaphthalene	100	ND	83	83	39 - 102	
2-Methylphenol	100	ND	71	71	29 - 115	
4-Methylphenol	200	ND	150	77	25 - 144	
Naphthalene	100	ND	81	81	39 - 96	
2-Nitroaniline	100	ND	81	81	44 - 116	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V105

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
3-Nitroaniline	100	ND	75	75	20- 102	
2-Nitrophenol	100	ND	83	83	35- 104	
N-Nitrosodiphenylamine	100	ND	74	74	53- 99	
4-Nitroaniline	100	ND	73	73	25- 95	
Nitrobenzene	100	ND	81	81	10- 211	
Phenanthrene	100	ND	81	81	55- 109	
2,4,5-Trichlorophenol	100	ND	81	81	24- 143	
2,4,6-Trichlorophenol	100	ND	79	79	36- 135	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V106

BATCH: 0181154

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	78	78	1.7	37	22- 110	
Acenaphthene	100	79	79	0.27	35	26- 118	
2,4-Dinitrotoluene	100	83	83	0.24	32	31- 131	
Pyrene	100	70	70	0.18	31	27- 138	
N-Nitrosodi-n-propylamine	100	74	74	0.19	36	18- 115	
1,4-Dichlorobenzene	100	68	68	3.7	36	18- 110	
Pentachlorophenol	100	78	78	1.2	56	10- 140	
Phenol	100	79	79	1.7	43	10- 131	
2-Chlorophenol	100	78	78	0.40	43	19- 124	
4-Chloro-3-methylphenol	100	79	79	0.98	55	21- 124	
4-Nitrophenol	100	82	82	3.0	34	10- 145	
Acenaphthylene	100	79	79	0.57	21	48- 96	
Anthracene	100	83	83	0.93	18	52- 101	
Benzo(a)anthracene	100	77	77	0.46	16	52- 110	
Benzo(b)fluoranthene	100	76	76	0.85	20	48- 107	
Benzo(k)fluoranthene	100	77	77	0.44	20	53- 109	
Benzo(ghi)perylene	100	73	73	0.50	17	48- 109	
Benzo(a)pyrene	100	74	74	0.95	18	47- 98	
bis(2-Chloroethoxy)methan	100	78	78	0.050	40	40- 101	
bis(2-Chloroethyl) ether	100	82	82	0.36	26	36- 104	
4-Chloroaniline	100	73	(73*)	0.71	41	13- 71	a
2-Chloronaphthalene	100	84	84	0.040	25	46- 104	
4-Chlorophenyl phenyl eth	100	81	81	0.080	19	55- 110	
2,2'-Oxybis(1-Chloropropa	100	89	89	1.7	25	43- 133	
bis(2-Ethylhexyl) phthala	100	72	69	6.8	23	44- 133	
4-Bromophenyl phenyl ethe	100	79	79	0.46	17	56- 110	
Butyl benzyl phthalate	100	64	64	1.8	18	46- 115	
Carbazole	100	78	78	0.99	21	42- 115	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V106

BATCH: 0181154

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Chrysene	100	70	70	0.13	16	54- 115	
Dibenz (a, h) anthracene	100	76	76	0.55	18	49- 110	
Dibenzofuran	100	81	81	0.040	20	53- 104	
Di-n-butyl phthalate	100	76	76	0.29	17	53- 109	
2,4-Dichlorophenol	100	80	80	2.2	26	43- 103	
Diethyl phthalate	100	46	46	2.2	20	36- 117	
2,4-Dimethylphenol	100	30	30	8.3	28	10- 88	
Di-n-octyl phthalate	100	77	77	3.2	22	46- 124	
Fluoranthene	100	81	81	1.1	19	51- 113	
2,4-Dinitrophenol	100	80	80	2.7	32	30- 133	
2,6-Dinitrotoluene	100	85	85	0.0	16	58- 109	
1,2-Dichlorobenzene	100	70	70	4.0	29	33- 91	
1,3-Dichlorobenzene	100	66	66	3.8	31	30- 86	
3,3'-Dichlorobenzidine	100	49	49	1.9	36	10- 71	
Dimethyl phthalate	100	21	21*	12	22	32- 124	a
4,6-Dinitro-2-methylpheno	100	83	83	2.6	24	46- 123	
Fluorene	100	81	81	0.83	19	54- 105	
Hexachlorobenzene	100	77	77	0.24	22	36- 132	
Hexachlorobutadiene	100	75	75	4.2	32	18- 116	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10- 45	a
Hexachloroethane	100	63	63	6.6	33	18- 110	
Indeno (1,2,3-cd) pyrene	100	72	72	2.6	19	48- 113	
Isophorone	100	79	79	0.24	25	42- 102	
2-Methylnaphthalene	100	83	83	0.21	28	39- 102	
2-Methylphenol	100	72	72	1.2	31	29- 115	
4-Methylphenol	200	150	77	0.88	33	25- 144	
Naphthalene	100	81	81	0.20	26	39- 96	
2-Nitroaniline	100	81	81	0.20	17	44- 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP013

Matrix Spike ID: MPT-G4-GW-01-11

Lot #: A0F280235

WO #: DFF8V106

BATCH: 0181154

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	100	76	76	0.65	23	20- 102	
4-Nitroaniline	100	71	71	2.6	26	25- 95	
Nitrobenzene	100	81	81	0.33	50	10- 211	
2-Nitrophenol	100	85	85	1.8	26	35- 104	
N-Nitrosodiphenylamine	100	75	75	1.9	18	53- 99	
Phenanthrene	100	81	81	0.050	18	55- 109	
2,4,5-Trichlorophenol	100	81	81	0.53	22	24- 143	
2,4,6-Trichlorophenol	100	79	79	0.44	27	36- 135	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 64 outside limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

CLIENT <i>NS MayPort</i>		JOB NUMBER	
SUBJECT <i>Sample Calc.</i>			
BASED ON <i>MPT-GH-GW-17-09 (DFM11101)</i>		DRAWING NUMBER	
BY <i>Douglas S. Schlenker</i>	CHECKED BY	APPROVED BY	DATE <i>9/15/00</i>

Fraction: Semivolatile
 Matrix: Aqueous
 Compound: Bis(2-ethylhexyl)phthalate
 Form I: = 26.0 ug/L

$$ug/L = \frac{A_T (I_s)(DF)(V_t)}{RRF (A_{is})(V_i)(V_o)}$$

$A_T = 749790$ Area

$I_s = 8.0ng$

$DF = 1$

$V_t = 5000ml$

$RRF = 0.80257$

$A_{is} = 716620$ Area

$V_i = 2.0ml$

$V_o = 1000ml$

$$= \frac{749790 \text{ Area} (8.0ng)(1)(5000 \text{ ul})}{0.80257 (716620 \text{ Area})(2.0 \text{ ul})(1000 \text{ ml})}$$

$$= 26.07 \text{ ng/ml or } ug/L$$

STL - North Canton

Semivolatile REPORT SW-846 Method 8270
 Data file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00711a.b\DFM1L101.D
 Lab Smp Id: DFM1L101 Client Smp ID: MPT-G4-GW-17-09
 Inj Date : 11-JUL-2000 15:13
 Operator : 046900 Inst ID: a4hp6.i
 Smp Info : dfm11101,00711a.b,8270c.m,5-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp6.i\00711a.b\8270c.m
 Meth Date : 12-Jul-2000 05:18 hulat Quant Type: ISTD
 Cal Date : 08-JUL-2000 23:08 Cal File: 6AHH0708.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 5-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.273	7.275	(1.000)	243272	8.00000	(Q)
* 2 Naphthalene-d8	136	9.635	9.637	(1.000)	816823	8.00000	
* 3 Acenaphthene-d10	164	13.128	13.130	(1.000)	555962	8.00000	
* 4 Phenanthrene-d10	188	16.125	16.127	(1.000)	921154	8.00000	
* 5 Chrysene-d12	240	21.483	21.491	(1.000)	716620	8.00000	
* 6 Perylene-d12	264	24.149	24.157	(1.000)	571515	8.00000	
7 N-Nitrosomorpholine	56				Compound Not Detected.		
8 Ethyl methanesulfonate	79				Compound Not Detected.		
9 Pyridine	79				Compound Not Detected.		
10 N-Nitrosodimethylamine	74				Compound Not Detected.		
11 Ethyl methacrylate	69				Compound Not Detected.		
12 3-Chloropropionitrile	54				Compound Not Detected.		
13 Malononitrile	66				Compound Not Detected.		
209 Benzaldehyde	77				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
107 Hexachlorobenzene	284				Compound Not Detected.		
212 Atrazine	200				Compound Not Detected.		
108 Phenacetin	108				Compound Not Detected.		
109 Diallate 2	86				Compound Not Detected.		
110 Dimethoate	87				Compound Not Detected.		
111 Pentachlorophenol	266				Compound Not Detected.		
112 Pentachloronitrobenzene	237				Compound Not Detected.		
113 4-Aminobiphenyl	169				Compound Not Detected.		
114 Pronamide	173				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
117 Dinoseb	211				Compound Not Detected.		
118 Disulfoton	88				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
121 4-Nitroquinoline 1-oxide	190				Compound Not Detected.		
122 Methapyrilene	58				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
126 Aramite 1	185				Compound Not Detected.		
M 191 Aramite, Total	100				Compound Not Detected.		
127 Aramite 2	185				Compound Not Detected.		
128 p-Dimethylamino azobenzene	225				Compound Not Detected.		
129 p-Chlorobenzilate	139				Compound Not Detected.		
130 Famphur	218				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
132 3,3'-Dimethylbenzidine	212				Compound Not Detected.		
133 3,3'-Dimethoxybenzidine	244				Compound Not Detected.		
134 2-Acetylaminofluorene	181				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
138 4,4'-Methylene bis(o-chloroan	231				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149	21.708	21.715	(1.010)	749790	10.4293	26.073
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracen	256				Compound Not Detected.		
144 Hexachlorophene	198				Compound Not Detected.		
145 Hexachlorophene product	462				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
148 3-Methylcholanthrene	268				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	8.278	8.280	(0.859)	1466513	19.4144	48.536

INSTRUMENT: A4HP6

COLUMN TYPE: 305-62

ANALYSIS 40 deg. C for 1.5 min.

DATE: 7/11/00
CASE: _____
SDG NO: _____

LENGTH: 30m

to 220 deg. C @ 12 deg. C/min

ID: 0.32 mm

hold for 2 min.

FILM THICKNESS: 0.5 MICRONS F.D. = 23 E.T. = 17 I.S.# 1206 TUNE: PT20J

FILE NAME	LOT #/ FILE NAME	SAMPLE PREP	D.F.	QUAL	COMMENTS	ANALYST
6DF0711b	SV 2185		x5	OK	(6.57)	TH
6SD0711	S/2311			OK	Cal Std Checked by <u>J-1200</u>	
6ZM0711	SV2297			OK		
DFPHW101	B	7/6 1000.5 ml/ml	st	OK	(92700) A9 + TIC5	
DFPHW102	C		st	OK		
DFKIW101	ACF300133		10/100	OK	+ TIC5	
DFKIW101			st	OK	+ TIC5	
DFKIW102	S	500.5 ml/ml	st	OK		
DFKIW103	D	500.5 ml/ml	st	OK		
DFNDF102	A06030113	1000.5 ml/ml 5/100 → 20/100		OK		
DFNEH101	A06030115	300.5 ml/ml	20/100	OK		
DFNDF202	A06030113	1000.5 ml/ml	10/100	OK		
DFNEE201	A06030115	300.5 ml/ml 5/100 → 5/100		OK		
DEMIE101	A06010107	1000.5 ml/ml	st	OK		
DEMIL101				OK		
DEMIN101				OK		
DEMIG101				OK		
DEMILH101				OK		
DEMIJ101				OK		
DFL24102	ACF300244			OK		
DFL26102				OK		
DFTRK101	B	7/6 1000.5 ml/ml	st	OK	(025)	
DFTRK102	C		st	OK		
DFQJL102	A0600130		st	OK		
DFQJN102			50/100	OK		
DFQJR102			st	OK	at 20/100	
DFGJT102			50/100	OK		
DFV9N102			5/100	OK	at 20/100	TH

N:\QAQC\LAB_FORM\MMS SEMI RUN LOG.doc

(over)

GC = 6/6 sam. = 17/19 RE = 2

027

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

Affected samples : All

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level (aqueous)</u>
Aluminum ⁽¹⁾	39.9 ug/L	199.5 ug/L
Antimony	4.5 ug/L	22.5 ug/L
Barium	1.0 ug/L	5.0 ug/L
Beryllium	0.70 ug/L	3.5 ug/L
Cadmium	0.30 ug/L	1.5 ug/L
Calcium	621 ug/L	3105 ug/L
Copper	1.7 ug/L	8.5 ug/L
Cyanide ⁽¹⁾	5.0 ug/L	25.0 ug/L
Iron ⁽¹⁾	27.2 ug/L	136 ug/L
Magnesium	51.9 ug/L	259.5 ug/L
Manganese ⁽¹⁾	0.87 ug/L	4.35 ug/L
Tin	4.1 ug/L	20.5 ug/L
Vanadium	0.90 ug/L	4.5 ug/L
Zinc ⁽¹⁾	11.9 ug/L	59.5 ug/L

⁽¹⁾ - Maximum concentration present in an aqueous preparation blank

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration in evaluation for blank contamination. Positive results less than the blank action level for aluminum, antimony, barium, beryllium, cyanide, iron, vanadium and zinc were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as the results reported were either greater than the blank action level or were nondetected, "U".

Notes

A LCS Percent Recovery was less than 80% quality control limits for cyanide. However, the sample analyzed for LCS was not from this SDG and the decision not to qualify for this noncompliance was based on this factor.

A field duplicate summary table is included in Appendix C.

The Matrix Spike/Matrix Spike Duplicate comparison was greater than 20% Relative Percent Difference for calcium and iron. However, validation action is not required MS/MSD comparison analyses.

The general chemistry case narrative indicates that a continuing calibration associated with batch 0196107 failed. However, the samples associated with this batch (MPT-G4-GW-20-11, MPT-G4-GW-21-08, MPT-G4-GW-22-08 and MPT-G4-GW-23-08) were not bracketed by the noncompliant CCV and validation action was not required.

TO: T. HANSEN
DATE: DECEMBER 7, 2000

- PAGE 3

Executive Summary

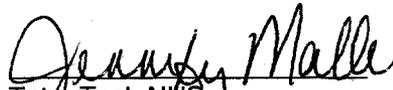
Laboratory Performance: Several analytes were present in the laboratory/preparation blanks.

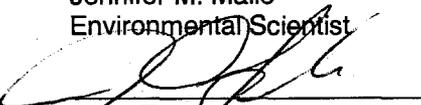
Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist


Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCB D% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$. (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = % Solid content is less than 30%

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020105001	A0G020105002	A0G020105003	A0G020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
ALUMINUM	40.5	U	A	32.7	U	A	37.9	U	A	40.0	U	A
ANTIMONY	4.8	U	A	3.6	U	A	4.1	U	A	4.7	U	A
ARSENIC	9.0			13.9			8.2			2.9	U	
BARIUM	8.4			11.2			5.7			12.3		
BERYLLIUM	0.20	U										
CADMIUM	0.30	U										
CALCIUM	70200			177000			130000			182000		
CHROMIUM	0.80	U										
COBALT	0.70	U										
COPPER	1.3	U										
IRON	4020			1670			1060			2050		
LEAD	1.3	U										
MAGNESIUM	69100			28900			10600			40700		
MANGANESE	209			121			63.2			454		
MERCURY	0.10	U										
NICKEL	1.7			1.3			1.3	U		1.3	U	
POTASSIUM	46200			14800			5900			34100		
SELENIUM	4.9	U										
SILVER	1.0	U										
SODIUM	153000			35800			27800			89900		
THALLIUM	6.7			6.3	U		6.3	U		6.3	U	
TIN	2.8	U										
VANADIUM	0.80	U										
ZINC	10.4	U	A	5.4	U	A	15.9	U	A	9.5	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-22-08	MPT-G4-GW-23-08	MPT-G4-GW-24-08	MPT-G4-GW-25-07
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020105007	A0G020105008	A0G060210001	A0G060210002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	57.7	U	A	22.5	U	A	105	U	A	30.3	U	A
ANTIMONY	3.1	U		4.2	U	A	3.1	U		3.1	U	
ARSENIC	2.9	U		2.9	U		2.9	U		161		
BARIUM	11.0			8.1			4.2	U	A	19.5		
BERYLLIUM	0.25	U	A	0.20	U		0.20	U		0.20	U	
CADMIUM	0.30	U		0.30	U		0.30	U		0.30	U	
CALCIUM	117000			108000			18700			114000		
CHROMIUM	0.80	U		0.80	U		0.80	U		0.80	U	
COBALT	0.70	U		0.70	U		0.70	U		0.70	U	
COPPER	1.3	U		1.3	U		1.3	U		1.3	U	
IRON	1050			831			83.1	U	A	3030		
LEAD	1.3	U		1.3	U		1.3	U		1.3	U	
MAGNESIUM	38800			28200			1350			19100		
MANGANESE	143			121			8.1			318		
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
NICKEL	1.4			1.3	U		1.3	U		1.3	U	
POTASSIUM	31100			25400			1510			9820		
SELENIUM	4.9	U		4.9	U		4.9	U		4.9	U	
SILVER	1.0	U		1.0	U		1.0	U		1.0	U	
SODIUM	116000			94200			6290			40500		
THALLIUM	6.3	U		6.3	U		6.3	U		6.3	U	
TIN	2.8	U										
VANADIUM	0.80	U		0.80	U		0:80	U		0.80	U	
ZINC	22.7	U	A	5.5	U	A	7.0	U	A	12.8	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-26-05	MPT-G4-GW-27-08	MPT-G4-GW-28-05	MPT-G4-GW-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060210003	A0G060210004	A0G070236001	A0G070236002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	36.7	U	A	43.2	U	A	25.9	U	A	28.5	U	A
ANTIMONY	3.1	U		3.3	U	A	3.1	U		7.1	U	A
ARSENIC	3.0			2.9	U		4.2			5.2		
BARIUM	21.7			4.8	U	A	3.9	U	A	22.9		
BERYLLIUM	0.20	U		0.20	U		0.20	U		0.21	U	A
CADMIUM	0.30	U		0.30	U		0.30	U		0.30	U	
CALCIUM	136000			94800			97600			182000		
CHROMIUM	0.80	U		0.80	U		0.80	U		1.0		
COBALT	0.70	U		0.70	U		0.70	U		0.70	U	
COPPER	1.3	U		1.3	U		1.3	U		1.3	U	
IRON	5510			104	U	A	2270			631		
LEAD	1.3	U		1.3	U		1.3	U		1.3	U	
MAGNESIUM	14200			25800			6450			21100		
MANGANESE	68.1			41.6			131			70.7		
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
NICKEL	1.3	U		1.3	U		2.2			5.7		
POTASSIUM	3890			5620			1920			13200		
SELENIUM	4.9	U		4.9	U		4.9	U		4.9	U	
SILVER	1.0	U		1.0	U		1.0	U		1.0	U	
SODIUM	44100			63700			51500			26800		
THALLIUM	6.3	U		6.3	U		6.3	U		9.9		
TIN	2.8	U		2.8	U		2.8	U		2.8	U	
VANADIUM	1.1	U	A	1.0	U	A	0.80	U		6.6		
ZINC	3.2	U	A	2.3	U	A	8.0	U	A	7.1	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-30-07	MPT-G4-GW-31-09	MPT-G4-GW-32-07	MPT-G4-GW-33-06
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070236003	A0G070236004	A0G070236005	A0G070236007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
ALUMINUM	32.9	U	A	40.9	U	A	31.0	U	A	26.2	U	A
ANTIMONY	3.2			3.1	U		3.1	U		3.1	U	
ARSENIC	2.9	U		2.9	U		2.9	U		5.7	U	A
BARIUM	2.7	U	A	3.2	U	A	8.1			5.5		
BERYLLIUM	0.27	U	A	0.20	U		0.20	U		0.20	U	
CADMIUM	0.30	U										
CALCIUM	56400			69700			87400			68500		
CHROMIUM	0.80	U										
COBALT	0.70	U										
COPPER	1.3	U										
IRON	92.9	U	A	70.1	U	A	187			1640		
LEAD	1.3	U										
MAGNESIUM	3070			11700			3680			9770		
MANGANESE	26.8			30.4			38.8			172		
MERCURY	0.10	U										
NICKEL	1.4			1.3	U		1.3	U		1.3	U	
POTASSIUM	1960			8830			1180			4060		
SELENIUM	4.9	U										
SILVER	1.0	U										
SODIUM	4040			9060			13300			45500		
THALLIUM	6.3	U										
TIN	2.8	U										
VANADIUM	0.80	U		0.80	U		0.80	U		1.2	U	A
ZINC	8.9	U	A	8.6	U	A	1.9	U	A	13.2	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: A0G070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	28.0	U	A									
ANTIMONY	3.1	U										
ARSENIC	5.4	U	A									
BARIUM	3.8	U	A									
BERYLLIUM	0.20	U										
CADMIUM	0.30	U										
CALCIUM	92900											
CHROMIUM	0.80	U										
COBALT	0.70	U										
COPPER	1.3	U										
IRON	2190											
LEAD	1.3	U										
MAGNESIUM	6190											
MANGANESE	128											
MERCURY	0.10	U										
NICKEL	1.5											
POTASSIUM	1870											
SELENIUM	4.9	U										
SILVER	1.0	U										
SODIUM	50500											
THALLIUM	6.3	U										
TIN	2.8	U										
VANADIUM	0.80	U										
ZINC	7.3	U	A									

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020105001	A0G020105002	A0G020105003	A0G020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-22-08	MPT-G4-GW-23-08	MPT-G4-GW-24-08	MPT-G4-GW-25-07
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020105007	A0G020105008	A0G060210001	A0G060210002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U		3.6	U	A	10	U		10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-26-05	MPT-G4-GW-27-08	MPT-G4-GW-28-05	MPT-G4-GW-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060210003	A0G060210004	A0G070236001	A0G070236002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U		10	U		10	U		7.5	U	A

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-30-07	MPT-G4-GW-31-09	MPT-G4-GW-32-07	MPT-G4-GW-33-06
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070236003	A0G070236004	A0G070236005	A0G070236007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: A0G070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	U										

APPENDIX B
Results as Reported by the Laboratory

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN48 Client ID: MPT-G4-GW-18-09
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	40.5	B	1	ICPST	7/12/00	17:02
Antimony	206.84	3.1	10.0	4.8	B	1	ICPST	7/12/00	17:02
Arsenic	189.04	2.9	10.0	9.0	B	1	ICPST	7/12/00	17:02
Barium	493.41	0.30	200	8.4	B	1	ICPST	7/12/00	17:02
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:02
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:02
Calcium	317.93	22.4	5000	70200	*	1	ICPST	7/12/00	17:02
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:02
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:02
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:02
Iron	271.44	14.9	100	4020	*	1	ICPST	7/12/00	17:02
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:02
Magnesium	279.08	10.2	5000	69100		1	ICPST	7/12/00	17:02
Manganese	257.61	0.20	15.0	209		1	ICPST	7/12/00	17:02
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:11
Nickel	231.60	1.3	40.0	1.7	B	1	ICPST	7/12/00	17:02
Potassium	766.49	19.8	5000	46200		1	ICPST	7/12/00	17:02
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:02
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:02
Sodium	330.23	155	5000	153000		1	ICPST	7/12/00	17:02
Thallium	190.86	6.3	10.0	6.7	B	1	ICPST	7/12/00	17:02
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:02
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:02
Zinc	213.86	1.0	20.0	10.4	B	1	ICPST	7/12/00	17:02

Comments: Lot #: AOG020105 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN49 Client ID: MPT-G4-GW-19-10
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	32.7	B	1	ICPST	7/12/00	17:11
Antimony	206.84	3.1	10.0	3.6	B	1	ICPST	7/12/00	17:11
Arsenic	189.04	2.9	10.0	13.9		1	ICPST	7/12/00	17:11
Barium	493.41	0.30	200	11.2	B	1	ICPST	7/12/00	17:11
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:11
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:11
Calcium	317.93	22.4	5000	177000	*	1	ICPST	7/12/00	17:11
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:11
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:11
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:11
Iron	271.44	14.9	100	1670	*	1	ICPST	7/12/00	17:11
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:11
Magnesium	279.08	10.2	5000	28900		1	ICPST	7/12/00	17:11
Manganese	257.61	0.20	15.0	121		1	ICPST	7/12/00	17:11
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:13
Nickel	231.60	1.3	40.0	1.3	B	1	ICPST	7/12/00	17:11
Potassium	766.49	19.8	5000	14800		1	ICPST	7/12/00	17:11
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:11
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:11
Sodium	330.23	155	5000	35800		1	ICPST	7/12/00	17:11
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:11
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:11
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:11
Zinc	213.86	1.0	20.0	5.4	B	1	ICPST	7/12/00	17:11

Comments: Lot #: A0G020105 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN4A Client ID: MPT-G4-GW-20-11
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	37.9	B	1	ICPST	7/12/00	17:16
Antimony	206.84	3.1	10.0	4.1	B	1	ICPST	7/12/00	17:16
Arsenic	189.04	2.9	10.0	8.2	B	1	ICPST	7/12/00	17:16
Barium	493.41	0.30	200	5.7	B	1	ICPST	7/12/00	17:16
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:16
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:16
Calcium	317.93	22.4	5000	130000	*	1	ICPST	7/12/00	17:16
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:16
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:16
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:16
Iron	271.44	14.9	100	1060	*	1	ICPST	7/12/00	17:16
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:16
Magnesium	279.08	10.2	5000	10600		1	ICPST	7/12/00	17:16
Manganese	257.61	0.20	15.0	63.2		1	ICPST	7/12/00	17:16
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:10
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	17:16
Potassium	766.49	19.8	5000	5900		1	ICPST	7/12/00	17:16
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:16
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:16
Sodium	330.23	155	5000	27800		1	ICPST	7/12/00	17:16
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:16
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:16
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:16
Zinc	213.86	1.0	20.0	15.9	B	1	ICPST	7/12/00	17:16

Comments: Lot #: AOG020105 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN4E Client ID: MPT-G4-GW-21-08
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	40.0	B	1	ICPST	7/12/00	17:21
Antimony	206.84	3.1	10.0	4.7	B	1	ICPST	7/12/00	17:21
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	17:21
Barium	493.41	0.30	200	12.3	B	1	ICPST	7/12/00	17:21
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:21
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:21
Calcium	317.93	22.4	5000	182000	*	1	ICPST	7/12/00	17:21
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:21
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:21
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:21
Iron	271.44	14.9	100	2050	*	1	ICPST	7/12/00	17:21
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:21
Magnesium	279.08	10.2	5000	40700		1	ICPST	7/12/00	17:21
Manganese	257.61	0.20	15.0	454		1	ICPST	7/12/00	17:21
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:15
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	17:21
Potassium	766.49	19.8	5000	34100		1	ICPST	7/12/00	17:21
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:21
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:21
Sodium	330.23	155	5000	89900		1	ICPST	7/12/00	17:21
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:21
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:21
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:21
Zinc	213.86	1.0	20.0	9.5	B	1	ICPST	7/12/00	17:21

Comments: Lot #: A0G020105 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN4F Client ID: MPT-G4-GW-22-08
 Matrix: Water Units: ug/L Prep Date: 7/11/00 ; Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	57.7	B	1	ICPST	7/12/00	17:37
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	17:37
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	17:37
Barium	493.41	0.30	200	11.0	B	1	ICPST	7/12/00	17:37
Beryllium	313.04	0.20	5.0	0.25	B	1	ICPST	7/12/00	17:37
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:37
Calcium	317.93	22.4	5000	117000	*	1	ICPST	7/12/00	17:37
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:37
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:37
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:37
Iron	271.44	14.9	100	1050	*	1	ICPST	7/12/00	17:37
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:37
Magnesium	279.08	10.2	5000	38800		1	ICPST	7/12/00	17:37
Manganese	257.61	0.20	15.0	143		1	ICPST	7/12/00	17:37
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:03
Nickel	231.60	1.3	40.0	1.4	B	1	ICPST	7/12/00	17:37
Potassium	766.49	19.8	5000	31100		1	ICPST	7/12/00	17:37
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:37
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:37
Sodium	330.23	155	5000	116000		1	ICPST	7/12/00	17:37
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:37
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:37
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:37
Zinc	213.86	1.0	20.0	22.7		1	ICPST	7/12/00	17:37

Comments: Lot #: A0G020105 Sample #: 7

Version 3.63.6 Beta

U Result is less than the IDL

Form 1 Equivalent

B Result is between IDL and RL

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN4G Client ID: MPT-G4-GW-23-08
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	22.5	B	1	ICPST	7/12/00	17:42
Antimony	206.84	3.1	10.0	4.2	B	1	ICPST	7/12/00	17:42
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	17:42
Barium	493.41	0.30	200	8.1	B	1	ICPST	7/12/00	17:42
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:42
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:42
Calcium	317.93	22.4	5000	108000	*	1	ICPST	7/12/00	17:42
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:42
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:42
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:42
Iron	271.44	14.9	100	831	*	1	ICPST	7/12/00	17:42
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:42
Magnesium	279.08	10.2	5000	28200		1	ICPST	7/12/00	17:42
Manganese	257.61	0.20	15.0	121		1	ICPST	7/12/00	17:42
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:09
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	17:42
Potassium	766.49	19.8	5000	25400		1	ICPST	7/12/00	17:42
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:42
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:42
Sodium	330.23	155	5000	94200		1	ICPST	7/12/00	17:42
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:42
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:42
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:42
Zinc	213.86	1.0	20.0	5.5	B	1	ICPST	7/12/00	17:42

Comments: Lot #: A0G020105 Sample #: 8

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRC7 Client ID: MPT-G4-GW-24-08
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	105	B	1	ICPST	7/12/00	17:47
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	17:47
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	17:47
Barium	493.41	0.30	200	4.2	B	1	ICPST	7/12/00	17:47
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:47
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:47
Calcium	317.93	22.4	5000	18700	*	1	ICPST	7/12/00	17:47
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:47
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:47
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:47
Iron	271.44	14.9	100	83.1	B*	1	ICPST	7/12/00	17:47
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:47
Magnesium	279.08	10.2	5000	1350	B	1	ICPST	7/12/00	17:47
Manganese	257.61	0.20	15.0	8.1	B	1	ICPST	7/12/00	17:47
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:00
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	17:47
Potassium	766.49	19.8	5000	1510	B	1	ICPST	7/12/00	17:47
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:47
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:47
Sodium	330.23	155	5000	6290		1	ICPST	7/12/00	17:47
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:47
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:47
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:47
Zinc	213.86	1.0	20.0	7.0	B	1	ICPST	7/12/00	17:47

Comments: Lot #: A0G060210 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRCA Client ID: MPT-G4-GW-25-07
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	30.3	B	1	ICPST	7/12/00	17:51
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	17:51
Arsenic	189.04	2.9	10.0	161		1	ICPST	7/12/00	17:51
Barium	493.41	0.30	200	19.5	B	1	ICPST	7/12/00	17:51
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:51
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:51
Calcium	317.93	22.4	5000	114000	*	1	ICPST	7/12/00	17:51
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:51
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:51
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:51
Iron	271.44	14.9	100	3030	*	1	ICPST	7/12/00	17:51
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:51
Magnesium	279.08	10.2	5000	19100		1	ICPST	7/12/00	17:51
Manganese	257.61	0.20	15.0	318		1	ICPST	7/12/00	17:51
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:58
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	17:51
Potassium	766.49	19.8	5000	9820		1	ICPST	7/12/00	17:51
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:51
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:51
Sodium	330.23	155	5000	40500		1	ICPST	7/12/00	17:51
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:51
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:51
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	17:51
Zinc	213.86	1.0	20.0	12.8	B	1	ICPST	7/12/00	17:51

Comments: Lot #: A0G060210 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRCD Client ID: MPT-G4-GW-26-05
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	36.7	B	1	ICPST	7/12/00	17:56
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	17:56
Arsenic	189.04	2.9	10.0	3.0	B	1	ICPST	7/12/00	17:56
Barium	493.41	0.30	200	21.7	B	1	ICPST	7/12/00	17:56
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	17:56
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	17:56
Calcium	317.93	22.4	5000	136000	*	1	ICPST	7/12/00	17:56
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	17:56
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	17:56
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	17:56
Iron	271.44	14.9	100	5510	*	1	ICPST	7/12/00	17:56
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	17:56
Magnesium	279.08	10.2	5000	14200		1	ICPST	7/12/00	17:56
Manganese	257.61	0.20	15.0	68.1		1	ICPST	7/12/00	17:56
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:01
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	17:56
Potassium	766.49	19.8	5000	3890	B	1	ICPST	7/12/00	17:56
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	17:56
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	17:56
Sodium	330.23	155	5000	44100		1	ICPST	7/12/00	17:56
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	17:56
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	17:56
Vanadium	292.40	0.80	7.0	1.1	B	1	ICPST	7/12/00	17:56
Zinc	213.86	1.0	20.0	3.2	B	1	ICPST	7/12/00	17:56

Comments: Lot #: A0G060210 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRCE Client ID: MPT-G4-GW-27-08
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminium	308.22	10.3	200	43.2	B	1	ICPST	7/12/00	18:01
Antimony	206.84	3.1	10.0	3.3	B	1	ICPST	7/12/00	18:01
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	18:01
Barium	493.41	0.30	200	4.8	B	1	ICPST	7/12/00	18:01
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	18:01
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:01
Calcium	317.93	22.4	5000	94800	*	1	ICPST	7/12/00	18:01
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:01
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:01
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:01
Iron	271.44	14.9	100	104	*	1	ICPST	7/12/00	18:01
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:01
Magnesium	279.08	10.2	5000	25800		1	ICPST	7/12/00	18:01
Manganese	257.61	0.20	15.0	41.6		1	ICPST	7/12/00	18:01
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:59
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	18:01
Potassium	766.49	19.8	5000	5620		1	ICPST	7/12/00	18:01
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:01
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:01
Sodium	330.23	155	5000	63700		1	ICPST	7/12/00	18:01
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:01
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:01
Vanadium	292.40	0.80	7.0	1.0	B	1	ICPST	7/12/00	18:01
Zinc	213.86	1.0	20.0	2.3	B	1	ICPST	7/12/00	18:01

Comments: Lot #: A0G060210 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6W Client ID: MPT-G4-GW-28-05
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	25.9	B	1	ICPST	7/12/00	18:06
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	18:06
Arsenic	189.04	2.9	10.0	4.2	B	1	ICPST	7/12/00	18:06
Barium	493.41	0.30	200	3.9	B	1	ICPST	7/12/00	18:06
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	18:06
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:06
Calcium	317.93	22.4	5000	97600	*	1	ICPST	7/12/00	18:06
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:06
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:06
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:06
Iron	271.44	14.9	100	2270	*	1	ICPST	7/12/00	18:06
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:06
Magnesium	279.08	10.2	5000	6450		1	ICPST	7/12/00	18:06
Manganese	257.61	0.20	15.0	131		1	ICPST	7/12/00	18:06
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:47
Nickel	231.60	1.3	40.0	2.2	B	1	ICPST	7/12/00	18:06
Potassium	766.49	19.8	5000	1920	B	1	ICPST	7/12/00	18:06
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:06
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:06
Sodium	330.23	155	5000	51500		1	ICPST	7/12/00	18:06
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:06
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:06
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	18:06
Zinc	213.86	1.0	20.0	8.0	B	1	ICPST	7/12/00	18:06

Comments: Lot #: A0G070236 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV75 Client ID: MPT-G4-GW-29-05
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	28.5	B	1	ICPST	7/12/00	18:22
Antimony	206.84	3.1	10.0	7.1	B	1	ICPST	7/12/00	18:22
Arsenic	189.04	2.9	10.0	5.2	B	1	ICPST	7/12/00	18:22
Barium	493.41	0.30	200	22.9	B	1	ICPST	7/12/00	18:22
Beryllium	313.04	0.20	5.0	0.21	B	1	ICPST	7/12/00	18:22
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:22
Calcium	317.93	22.4	5000	182000	*	1	ICPST	7/12/00	18:22
Chromium	267.72	0.80	5.0	1.0	B	1	ICPST	7/12/00	18:22
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:22
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:22
Iron	271.44	14.9	100	631	*	1	ICPST	7/12/00	18:22
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:22
Magnesium	279.08	10.2	5000	21100		1	ICPST	7/12/00	18:22
Manganese	257.61	0.20	15.0	70.7		1	ICPST	7/12/00	18:22
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:53
Nickel	231.60	1.3	40.0	5.7	B	1	ICPST	7/12/00	18:22
Potassium	766.49	19.8	5000	13200		1	ICPST	7/12/00	18:22
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:22
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:22
Sodium	330.23	155	5000	26800		1	ICPST	7/12/00	18:22
Thallium	190.86	6.3	10.0	9.9	B	1	ICPST	7/12/00	18:22
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:22
Vanadium	292.40	0.80	7.0	6.6	B	1	ICPST	7/12/00	18:22
Zinc	213.86	1.0	20.0	7.1	B	1	ICPST	7/12/00	18:22

Comments: Lot #: A0G070236 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV77 Client ID: MPT-G4-GW-30-07
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	32.9	B	1	ICPST	7/12/00	18:38
Antimony	206.84	3.1	10.0	3.2	B	1	ICPST	7/12/00	18:38
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	18:38
Barium	493.41	0.30	200	2.7	B	1	ICPST	7/12/00	18:38
Beryllium	313.04	0.20	5.0	0.27	B	1	ICPST	7/12/00	18:38
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:38
Calcium	317.93	22.4	5000	56400	*	1	ICPST	7/12/00	18:38
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:38
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:38
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:38
Iron	271.44	14.9	100	92.9	B*	1	ICPST	7/12/00	18:38
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:38
Magnesium	279.08	10.2	5000	3070	B	1	ICPST	7/12/00	18:38
Manganese	257.61	0.20	15.0	26.8		1	ICPST	7/12/00	18:38
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:54
Nickel	231.60	1.3	40.0	1.4	B	1	ICPST	7/12/00	18:38
Potassium	766.49	19.8	5000	1960	B	1	ICPST	7/12/00	18:38
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:38
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:38
Sodium	330.23	155	5000	4040	B	1	ICPST	7/12/00	18:38
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:38
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:38
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	18:38
Zinc	213.86	1.0	20.0	8.9	B	1	ICPST	7/12/00	18:38

Comments: Lot #: A0G070236 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV78 Client ID: MPT-G4-GW-31-09
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	40.9	B	1	ICPST	7/12/00	18:43
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	18:43
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	18:43
Barium	493.41	0.30	200	3.2	B	1	ICPST	7/12/00	18:43
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	18:43
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:43
Calcium	317.93	22.4	5000	69700	*	1	ICPST	7/12/00	18:43
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:43
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:43
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:43
Iron	271.44	14.9	100	70.1	B*	1	ICPST	7/12/00	18:43
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:43
Magnesium	279.08	10.2	5000	11700		1	ICPST	7/12/00	18:43
Manganese	257.61	0.20	15.0	30.4		1	ICPST	7/12/00	18:43
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:56
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	18:43
Potassium	766.49	19.8	5000	8830		1	ICPST	7/12/00	18:43
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:43
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:43
Sodium	330.23	155	5000	9060		1	ICPST	7/12/00	18:43
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:43
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:43
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	18:43
Zinc	213.86	1.0	20.0	8.6	B	1	ICPST	7/12/00	18:43

Comments: Lot #: AOG070236 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV79 Client ID: MPT-G4-GW-32-07
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	31.0	B	1	ICPST	7/12/00	18:48
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	18:48
Arsenic	189.04	2.9	10.0	2.9	U	1	ICPST	7/12/00	18:48
Barium	493.41	0.30	200	8.1	B	1	ICPST	7/12/00	18:48
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	18:48
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:48
Calcium	317.93	22.4	5000	87400	*	1	ICPST	7/12/00	18:48
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:48
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:48
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:48
Iron	271.44	14.9	100	187	*	1	ICPST	7/12/00	18:48
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:48
Magnesium	279.08	10.2	5000	3680	B	1	ICPST	7/12/00	18:48
Manganese	257.61	0.20	15.0	38.8		1	ICPST	7/12/00	18:48
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:57
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	18:48
Potassium	766.49	19.8	5000	1180	B	1	ICPST	7/12/00	18:48
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:48
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:48
Sodium	330.23	155	5000	13300		1	ICPST	7/12/00	18:48
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:48
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:48
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	18:48
Zinc	213.86	1.0	20.0	1.9	B	1	ICPST	7/12/00	18:48

Comments: Lot #: A0G070236 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV7D Client ID: MPT-G4-GW-33-
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	26.2	B	1	ICPST	7/12/00	18:57
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	18:57
Arsenic	189.04	2.9	10.0	5.7	B	1	ICPST	7/12/00	18:57
Barium	493.41	0.30	200	5.5	B	1	ICPST	7/12/00	18:57
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	18:57
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:57
Calcium	317.93	22.4	5000	68500	*	1	ICPST	7/12/00	18:57
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:57
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:57
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:57
Iron	271.44	14.9	100	1640	*	1	ICPST	7/12/00	18:57
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:57
Magnesium	279.08	10.2	5000	9770		1	ICPST	7/12/00	18:57
Manganese	257.61	0.20	15.0	172		1	ICPST	7/12/00	18:57
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:04
Nickel	231.60	1.3	40.0	1.3	U	1	ICPST	7/12/00	18:57
Potassium	766.49	19.8	5000	4060	B	1	ICPST	7/12/00	18:57
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:57
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:57
Sodium	330.23	155	5000	45500		1	ICPST	7/12/00	18:57
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:57
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:57
Vanadium	292.40	0.80	7.0	1.2	B	1	ICPST	7/12/00	18:57
Zinc	213.86	1.0	20.0	13.2	B	1	ICPST	7/12/00	18:57

Comments: Lot #: A0G070236 Sample #: 7

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV7C Client ID: MPT-G4-GW-DU02
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	28.0	B	1	ICPST	7/12/00	18:53
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	7/12/00	18:53
Arsenic	189.04	2.9	10.0	5.4	B	1	ICPST	7/12/00	18:53
Barium	493.41	0.30	200	3.8	B	1	ICPST	7/12/00	18:53
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	7/12/00	18:53
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	7/12/00	18:53
Calcium	317.93	22.4	5000	92900	*	1	ICPST	7/12/00	18:53
Chromium	267.72	0.80	5.0	0.80	U	1	ICPST	7/12/00	18:53
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	7/12/00	18:53
Copper	324.75	1.3	25.0	1.3	U	1	ICPST	7/12/00	18:53
Iron	271.44	14.9	100	2190	*	1	ICPST	7/12/00	18:53
Lead	220.35	1.3	3.0	1.3	U	1	ICPST	7/12/00	18:53
Magnesium	279.08	10.2	5000	6190		1	ICPST	7/12/00	18:53
Manganese	257.61	0.20	15.0	128		1	ICPST	7/12/00	18:53
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	15:12
Nickel	231.60	1.3	40.0	1.5	B	1	ICPST	7/12/00	18:53
Potassium	766.49	19.8	5000	1870	B	1	ICPST	7/12/00	18:53
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	7/12/00	18:53
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	7/12/00	18:53
Sodium	330.23	155	5000	50500		1	ICPST	7/12/00	18:53
Thallium	190.86	6.3	10.0	6.3	U	1	ICPST	7/12/00	18:53
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	7/12/00	18:53
Vanadium	292.40	0.80	7.0	0.80	U	1	ICPST	7/12/00	18:53
Zinc	213.86	1.0	20.0	7.3	B	1	ICPST	7/12/00	18:53

Comments: Lot #: A0G070236 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-18-09

General Chemistry

Lot-Sample #....: A0G020105-001 Work Order #....: DFN48 Matrix.....: WG
Date Sampled....: 06/30/00 08:25 Date Received...: 07/01/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/14/00	0196246

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-19-10

General Chemistry

Lot-Sample #...: A0G020105-002 Work Order #...: DFN49 Matrix.....: WG
Date Sampled...: 06/30/00 09:45 Date Received...: 07/01/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/14/00	0196246

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-20-11

General Chemistry

Lot-Sample #...: A0G020105-003 Work Order #...: DFN4A Matrix.....: WG
Date Sampled...: 06/30/00 11:15 Date Received...: 07/01/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13-07/14/00	0196107
		Dilution Factor: 1				

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-21-08

General Chemistry

Lot-Sample #...: A0G020105-006 Work Order #...: DEN4E
Date Sampled...: 06/30/00 13:40 Date Received...: 07/01/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13-07/14/00	0196107

Dilution Factor: 1

TSIRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-22-08

General Chemistry

Lot-Sample #....: A0G020105-007 Work Order #....: DFN4F Matrix.....: WG
Date Sampled....: 06/30/00 14:30 Date Received...: 07/01/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/13-07/14/00	0196107

Dilution Factor: 1

TEIRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-23-08

General Chemistry

Lot-Sample #...: A0G020105-008 Work Order #...: DFN4G
Date Sampled...: 06/30/00 15:30 Date Received...: 07/01/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	3.6 B	10.0	ug/L	SW846 9012A	07/13-07/14/00	0196107

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

TEIRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-24-08

General Chemistry

Lot-Sample #...: A0G060210-001 Work Order #...: DFRC7 Matrix.....: WG
Date Sampled...: 07/05/00 12:17 Date Received...: 07/06/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/18/00	0200356

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-25-07

General Chemistry

Lot-Sample #: A0G060210-002

Work Order #: DFRCA

Matrix.....: WG

Date Sampled...: 07/05/00 13:35

Date Received...: 07/06/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/18/00	0200356

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-26-05

General Chemistry

Lot-Sample #....: A0G060210-003 Work Order #....: DFRCD Matrix.....: WG
Date Sampled....: 07/05/00 14:55 Date Received...: 07/06/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/18/00	0200356

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-27-08

General Chemistry

Lot-Sample #....: A0G060210-004 Work Order #....: DFRCE Matrix.....: WG
Date Sampled....: 07/05/00 16:20 Date Received...: 07/06/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/18/00	0200356

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-28-05

General Chemistry

Lot-Sample #...: A0G070236-001 Work Order #...: DFV6W
Date Sampled...: 07/06/00 08:45 Date Received...: 07/07/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201334

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-29-05

General Chemistry

Lot-Sample #....: A0G070236-002 Work Order #....: DFV75 Matrix.....: WG
Date Sampled....: 07/06/00 10:00 Date Received...: 07/07/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	7.5 B	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201333

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-30-07

General Chemistry

Lot-Sample #...: A0G070236-003 Work Order #...: DFV77 Matrix.....: WG
Date Sampled...: 07/06/00 11:25 Date Received...: 07/07/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201334

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-31-09

General Chemistry

Lot-Sample #...: AOG070236-004 Work Order #...: DFV78
Date Sampled...: 07/06/00 14:20 Date Received...: 07/07/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201334

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-32-07

General Chemistry

Lot-Sample #...: A0G070236-005
Date Sampled...: 07/06/00 15:10

Work Order #...: DFV79
Date Received...: 07/07/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201334

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-DU02

General Chemistry

Lot-Sample #....: A0G070236-006
Date Sampled....: 07/06/00

Work Order #....: DFV7C
Date Received...: 07/07/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201334

Dilution Factor: 1

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW-33-

General Chemistry

Lot-Sample #....: AOG070236-007 Work Order #....: DFV7D
Date Sampled....: 07/06/00 16:10 Date Received...: 07/07/00

Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/19-07/20/00	0201334

Dilution Factor: 1

APPENDIX C
Support Documentation



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex 1923 5025 5016				CITY, STATE N. Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
						TCL VOC	TCL SYOC	TAL Metals + Tin	Cyanide		HCl	HNO3	NaOH
7-6		MPT-G4-SU-27	S	G	5	X	X	X	X		Cool to 4°C
		MPT-G4-GW-27	GW		7	X	X	X	X		
7-6	0845	MPT-G4-SU-28-05	S		5	X	X	X	X		
	0845	MPT-G4-GW-28-05	GW		7	X	X	X	X		
	0928	MPT-G4-SU-29-05	S		5	X	X	X	X		
	1000	MPT-G4-GW-29-05	GW		7	X	X	X	X		
	1100	MPT-G4-SU-30-07	S		5	X	X	X	X		
	1125	MPT-G4-GW-30-07	GW		7	X	X	X	X		
	1330	MPT-G4-SU-31-08	S		5	X	X	X	X		
	1420	MPT-G4-GW-31-09	GW		7	X	X	X	X		
	1450	MPT-G4-SU-32-07	S		5	X	X	X	X		
	1510	MPT-G4-GW-32-07	GW		7	X	X	X	X		
	0900	MPT-G4-SU-DU02	S		5	X	X	X	X		
1. RELINQUISHED BY 		DATE 7-6-00		TIME 1900		1. RECEIVED BY 				DATE	TIME
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY 				DATE 7/7/00	TIME 915
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY				DATE	TIME

COMMENTS: 2 Coolers ID#s 070609-1 & 070609-2. See FedEx Tracking #s above also.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW							
		CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE N Canton OH							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS			
7/6	0000	MPT-G4-GW-DU02	GW		7	TCL VOC	TCL SUBC	TAL Metals + Tin	Cyanide	HCl	HNO3	NaOH	Cool to 4°C
	1540	MPT-G4-SU-33-05	S		5	X	X	X	X				
	1610	MPT-G4-GW-33-	GW		7	X	X	X	X				
		TB070600	W			X							
1. RELINQUISHED BY 		DATE 7-6-00	TIME 1700	1. RECEIVED BY				DATE	TIME				
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY 				DATE 7/7/00	TIME 915				
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME				
COMMENTS													



PROJECT NO: NO123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) <i>Steve Thompson</i> <i>Chad Wall</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson				ADDRESS 4101 Shuffel Dr NW							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 7923 5025 4970				CITY, STATE N. Canton, OH							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)					PRESERVATIVE USED	COMMENTS	
						TYPE OF ANALYSIS							
						VOC	SVOC	TAL Metals + Tin	Cyanide	HCl	HNO3	Meq	
7/5	1138	MPT-G4-SU-24-08	S	G	5	X	X	X	X				Cool to 4°C
7-5	1217	MPT-G4-GW-24-08	GW		7	X	X	X	X				
7-5	1305	MPT-G4-SU-25-05	S		5	X	X	X	X				
7-5	1335	MPT-G4-GW-25-07	GW		7	X	X	X	X				
7-5	1420 @ 1455	MPT-G4-SU-26-05	S		5	X	X	X	X				
7-5	1455	MPT-G4-GW-26-05	GW		7	X	X	X	X				
7-5	1550	MPT-G4-SU-27-07	S		5	X	X	X	X				
7-5	1620	MPT-G4-GW-27-08	GW		7	X	X	X	X				
1. RELINQUISHED BY <i>Steve Thompson</i>		DATE 7/5/00	TIME 7900	1. RECEIVED BY <i>[Signature]</i>				DATE	TIME				
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY <i>[Signature]</i>				DATE 7/6/00	TIME 900				
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME				
COMMENTS													



PROJECT NO: NO123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterna			
SAMPLERS (SIGNATURE) Roman Romp Charles Wells		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom. Thompson 901-281-0400				ADDRESS 4101 Shuffel Dr NW					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER 7923 4950 6382 Fed Ex 7923 4950 6393 (11)				CITY, STATE N. Canton, OH 44720					
				CONTAINER TYPE PLASTIC (P) or GLASS (G)							
				PRESERVATIVE USED							
						HCl		HNO3		NaOH	
						TAL Metals + Tin					
						Cyanide					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	EL VOC	TCL SUCC	TAL Metals + Tin	Cyanide		COMMENTS
6/30	0751	MPT-G4-SU-18-08	S	G	5	X	X	X	X		Cool to 4°C
	0825	MPT-G4-GW-18-09	GW		7	X	X	X	X		
	0915	MPT-G4-SU-19-10	S		5	X	X	X	X		
	0945	MPT-G4-SU-GW-19-10	GW		7	X	X	X	X		
	1045	MPT-G4-SU-20-10	S		5	X	X	X	X		
	1115	MPT-G4-GW-20-11	GW		7	X	X	X	X		
		TB063005	W		2	X	X	X	X		
		TB063006	W		2	X					
	1255	MPT-G4-SU-21-07	S		5	X	X	X	X		
	1340	MPT-G4-GW-21-08	GW		7	X	X	X	X		
	1330	MPT-G4-SU-22-08	S		5	X	X	X	X		
	1430	MPT-G4-GW-22-08	GW		7	X	X	X	X		
	1400	MPT-G4-SU-23-08	S		5	X	X	X	X		
1. RELINQUISHED BY Roman Romp		DATE 6-30-00	TIME 1800	1. RECEIVED BY Terry Hansen		DATE 7/1/00	TIME 10:30	2. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME
COMMENTS Cooler ID #s: 063007/063008											



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson				ADDRESS					
		CARRIER/WAYBILL NUMBER 7923 4956 6382 Fed Ex 7923 4956 6393 (11)				CITY, STATE					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS		HCl - HNO3 NaOH TCL VOC TCL SVOC TAL Metals + Tm Cyanide			
DATE YEAR MONTH DAY 6/30 1530		MATRIX GW		GRAB (G) COMP (C) G		No. OF CONTAINERS 7						COMMENTS Cool to 4°C
1. RELINQUISHED BY 		DATE 6-30-00		TIME 1800		1. RECEIVED BY 		DATE 7/1/00		TIME 10/30	
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY		DATE		TIME	
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY		DATE		TIME	
COMMENTS											

MP016

HOLDING TIME
08/09/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	CN	06/30/00	07/14/00	07/14/00	14	0	14
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	CN	06/30/00	07/14/00	07/14/00	14	0	14
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	OS	06/30/00	07/06/00	07/10/00	6	4	10

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	OS	06/30/00	07/06/00	07/10/00	6	4	10
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	OS	06/30/00	07/06/00	07/10/00	6	4	10
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	OS	06/30/00	07/07/00	07/12/00	7	5	12
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	OS	06/30/00	07/07/00	07/12/00	7	5	12
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	OS	06/30/00	07/07/00	07/12/00	7	5	12
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	OS	07/06/00	07/10/00	07/19/00	4	9	13
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	OS	07/06/00	07/10/00	07/19/00	4	9	13
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	OS	07/06/00	07/10/00	07/19/00	4	9	13
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	OV	07/05/00	07/17/00	07/17/00	12	0	12
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	OV	07/05/00	07/14/00	07/14/00	9	0	9
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	OV	07/05/00	07/17/00	07/17/00	12	0	12
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	OV	07/05/00	07/14/00	07/14/00	9	0	9
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	TB063005	A0G020105004	TRIP BLANK	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	TB063006	A0G020105005	TRIP BLANK	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	TB070600	A0G070236008	TRIP BLANK	MP016	OV	07/06/00	07/17/00	07/17/00	11	0	11

SDG NARRATIVE

MP016

The following report contains the analytical results for twenty one water samples and two quality control samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received July 1, 6 and 7, 2000, according to documented sample acceptance procedures.

This SDG consists of three (3) laboratory ID's: A0G020105, A0G060210 and A0G070236.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 0.9, 0.9, 1.0, 1.3, 2.2 and 3.4° C.

(See STL's Cooler Receipt Form for additional information.)

**SDG NARRATIVE
MP016**

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the IDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these value. The continuing calibration blanks and method blanks may not support the lower RL.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

ANALYTICAL METHODS SUMMARY

A0G020105

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**SDG NARRATIVE
MP016**

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples MPT-G4-GW-20-11, MPT-G4-GW-21-08, MPT-G4-GW-22-08 and MPT-G4-GW-23-08 for the Total Cyanide analysis associated with batch 0196107 were not prepped with the Magnesium Chloride reagent as stated in the SOP.

Sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The closing Continuing Calibration Verification and Continuing Calibration Blank failed for the Total Cyanide analysis associated with batch 0196107. Samples MPT-G4-GW-20-11, MPT-G4-GW-21-08, MPT-G4-GW-22-08 and MPT-G4-GW-23-08 were reanalyzed after the recommended holding time had been exceeded to verify the original ND results. Only the original results are being reported.

↳ these samples are bracketed by
CCV's which met 80-120% ~~80-120%~~
Recoveries
JMM 12/17/00

Run within hold

Run 7/13

Batch
 0196107
 Post-run report

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000714A Name of Analysis : CYANIDE2.ANL
 Date of Report : 7/14/00 System No. : 2
 Date of Run : 7/14/00 Type of System : TRAACS
 Operator : MEL Start/Stop time : 13:01 - 13:41
 Comment :

RERUNS FROM 7/13

Channel Type :	Real	Data	Data
Channel :	1	1	2
Method :	CYANIDE	Weight	Dilution
Unit :	mg/L	mg/kg	
Calibr. Fit :	Linear		
Corr. Coeff. :	0.9996		
Base :	57		
Gain :	160		
Sensitivity :	0.0377		
Sample Limit 1 :			
Sample Limit 2 :			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	0.0003	0.0000	0.0000
1	1	P Primer	0.1002	1.0000	1.0000
2	2	C 0.1000	0.1002	1.0000	1.0000
3	3	C 0.0500	0.0502	1.0000	1.0000
4	4	C 0.0250	0.0232	1.0000	1.0000
5	5	C 0.0100	0.0110	1.0000	1.0000
6	6	C 0.0050	0.0054	1.0000	1.0000
7	2	H1 High	0.0993	1.0000	1.0000
8	0	L1 Low	0.0004	1.0000	1.0000
9	0	L1 Low	0.0005	1.0000	1.0000
10	0	B Baseline	0.0003	1.0000	1.0000
11	4	D Drift	0.0251	1.0000	1.0000
12	8	N Null	0.0018N	1.0000	1.0000
13	7	QC1 CCV	0.0510/05	1.0000	1.0000 102%
14	8	QC2 CCB	0.0003	1.0000	1.0000
15	9	S DFN4A	0.0017	1.0000	1.0000
16	10	S DFN4E	0.0011	1.0000	1.0000
17	11	S DFN4F	0.0008	1.0000	1.0000
18	12	S DFN4G	0.0036	1.0000	1.0000
19	13	S DFN4V 20X	0.1800*	1.0000	1.0000 <i>run @ 50X</i>
20	14	S DFN4X 20X	0.0676R*20	1.0000	1.0000 3.38
21	7	QC1 CCV	0.0543/05	1.0000	1.0000 108%
22	8	QC2 CCB	0.0014	1.0000	1.0000
23	0	B Baseline	0.0003	1.0000	1.0000
24	4	D Drift	0.0251	1.0000	1.0000

25 0 B FinalBase 0.0003 1.0000 1.0000

QC Limits

Channel	:	1
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
§:		1.3

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

FIELD DUPLICATE PRECISION

COMPOUND	MPT-G4-GW-28-05	MPT-G4-GW-DU02	RPD
	ug/L	ug/L	%
Aluminum	25.9	28	7.79
Antimony	3.1	3.1	0.00
Arsenic	4.2	5.4	25.00
Barium	3.9	3.8	2.60
Beryllium	0.2	0.2	0.00
Cadmium	0.3	0.3	0.00
Calcium	97600	92900	4.93
Chromium	0.8	0.8	0.00
Cobalt	0.7	0.7	0.00
Copper	1.3	1.3	0.00
Iron	2270	2190	3.59
Lead	1.3	1.3	0.00
Magnesium	6450	6190	4.11
Manganese	131	128	2.32
Mercury	0.1	0.1	0.00
Nickel	2.2	1.5	37.84
Potassium	1920	1870	2.64
Selenium	4.9	4.9	0.00
Silver	1	1	0.00
Sodium	51500	50500	1.96
Thallium	6.3	6.3	0.00
Tin	2.8	2.8	0.00
Vanadium	0.8	0.8	0.00
Zinc	8	7.3	9.15

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G020105

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DG7H7101 10.0	ug/L	MB Lot-Sample #: A0G140000-246 SW846 9012A	07/14/00	0196246
		Dilution Factor: 1				
Total Cyanide	5.0 B	Work Order #: DG6RH101 10.0	ug/L	MB Lot-Sample #: A0G140000-107 SW846 9012A	07/13/00	0196107
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0G060210

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DGE2E101 10.0	ug/L	MB Lot-Sample #: A0G180000-356 SW846 9012A	07/18/00	0200356
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G070236

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DGG45101 10.0	ug/L	MB Lot-Sample #: SW846 9012A	A0G190000-333 07/19-07/20/00	0201333
		Dilution Factor: 1				
Cyanide, Total	ND	Work Order #: DGG4A101 10.0	ug/L	MB Lot-Sample #: SW846 9012A	A0G190000-334 07/19-07/20/00	0201334
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G070236

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	78	Work Order #: DGG45102 (61 - 115)	LCS Lot-Sample#: A0G190000-333 SW846 9012A	07/19-07/20/00	0201333
		Dilution Factor: 1			
Cyanide, Total	94	Work Order #: DGG4A102 (61 - 115)	LCS Lot-Sample#: A0G190000-334 SW846 9012A	07/19-07/20/00	0201334
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

sample not in
SNG

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 7/11/00 9:02 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/12/00 10:57 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.3	U								
Antimony	206.838	10	4.5	B								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.6	B								
Beryllium	313.042	5	0.4	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	22.4	U								
Chromium	267.716	5	0.8	U								
Cobalt	228.616	7	0.7	U								
Copper	324.753	25	1.6	B								
Iron	271.441	100	16.8	B								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	20.5	B								
Manganese	257.61	15	0.4	B								
Nickel	231.604	40	1.3	U								
Potassium	766.491	5000	19.8	U								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.0	U								
Sodium	330.232	5000	-210.0	B								
Thallium	190.864	10	6.3	U								
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	0.8	B								
Zinc	213.856	20	1.0	U								

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 9:06 AM		Ck1CCB 7/11/00 9:22 AM		Ck1CCB 7/11/00 9:35 AM		Ck1CCB 7/11/00 9:51 AM		Ck1CCB 7/11/00 10:06 AM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.pm

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 10:21 AM		Ck1CCB 7/11/00 10:36 AM		Ck1CCB 7/11/00 10:51 AM		Ck1CCB 7/11/00 11:07 AM		Ck1CCB 7/11/00 11:21 AM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 1:52 PM		Ck1CCB 7/11/00 2:07 PM		Ck1CCB 7/11/00 2:22 PM		Ck1CCB 7/11/00 2:37 PM		Ck1CCB 7/11/00 2:52 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10711.pm

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/11/00 3:07 PM		Ck1CCB 7/11/00 3:17 PM		Found	O	Found	O	Found	O
			Found	O	Found	O							Found	O
Mercury	253.7	0.2	0.1	U	0.1	U						

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/12/00 11:38 AM		CCB 7/12/00 12:35 PM		CCB 7/12/00 1:03 PM		CCB 7/12/00 2:27 PM		CCB 7/12/00 3:28 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	33.0	B	10.3	U	38.1	B	10.3	U	10.3	U
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Barium	493.409	200	1.0	B	1.0	B	0.9	B	0.8	B	0.4	B
Beryllium	313.042	5	0.7	B	0.6	B	0.7	B	0.5	B	0.4	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	B	0.3	U	0.3	U
Calcium	317.933	5000	42.9	B	40.3	B	49.1	B	22.4	U	29.8	B
Chromium	267.716	5	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cobalt	228.616	7	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Copper	324.753	25	1.6	B	1.7	B	1.3	U	1.3	U	1.3	U
Iron	271.441	100	14.9	U	14.9	U	26.1	B	14.9	U	14.9	U
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	40.2	B	27.1	B	51.9	B	13.1	B	10.2	U
Manganese	257.61	15	0.6	B	0.7	B	0.7	B	0.4	B	0.3	B
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Potassium	766.491	5000	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U
Silver	328.068	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Sodium	330.232	5000	-260.0	B	-200.0	B	-250.0	B	-250.0	B	-200.0	B
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
Tin	189.989	50	2.8	U	4.1	B	2.8	U	2.8	U	2.8	U
Vanadium	292.402	7	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Zinc	213.856	20	1.0	U	1.0	B	1.0	U	1.0	U	1.0	U

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/12/00 4:29 PM		CCB 7/12/00 5:32 PM		CCB 7/12/00 6:33 PM		CCB 7/12/00 7:37 PM			
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	-12.0	B	-24.0	B	-31.0	B	-38.0	B		
Antimony	206.838	10	3.3	B	3.1	U	3.1	U	3.1	U		
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U		
Barium	493.409	200	0.5	B	0.7	B	0.6	B	0.6	B		
Beryllium	313.042	5	0.5	B	0.6	B	0.5	B	0.5	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U		
Calcium	317.933	5000	41.5	B	22.4	U	22.4	U	22.4	U		
Chromium	267.716	5	0.8	U	0.8	U	0.8	U	0.8	U		
Cobalt	228.616	7	0.7	U	0.7	U	0.7	U	0.7	U		
Copper	324.753	25	1.3	U	1.3	U	-1.5	B	-1.5	B		
Iron	271.441	100	14.9	U	14.9	U	14.9	U	14.9	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	10.6	B	16.4	B	15.7	B	10.2	U		
Manganese	257.61	15	0.5	B	0.5	B	0.5	B	0.4	B		
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U		
Potassium	766.491	5000	-25.0	B	19.8	U	-20.0	B	19.8	U		
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U		
Silver	328.068	5	1.0	U	1.0	U	1.0	U	1.0	U		
Sodium	330.232	5000	-280.0	B	155.0	U	-300.0	B	155.0	U		
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U		
Tin	189.989	50	3.2	B	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	7	0.8	U	0.8	U	0.9	B	0.8	U		
Zinc	213.856	20	1.0	U	1.0	U	1.0	U	1.0	U		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DG0JNB
 Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminium	308.215	10.3	200	39.9	B	1	ICPST	7/12/00	16:50
Antimony	206.838	3.1	10.0	3.1	U	1	ICPST	7/12/00	16:50
Arsenic	189.042	2.9	10.0	2.9	U	1	ICPST	7/12/00	16:50
Barium	493.409	0.30	200	0.67	B	1	ICPST	7/12/00	16:50
Beryllium	313.042	0.20	5.0	0.20	U	1	ICPST	7/12/00	16:50
Cadmium	226.502	0.30	2.0	0.30	U	1	ICPST	7/12/00	16:50
Calcium	317.933	22.4	5000	621	B	1	ICPST	7/12/00	16:50
Chromium	267.716	0.80	5.0	0.80	U	1	ICPST	7/12/00	16:50
Cobalt	228.616	0.70	7.0	0.70	U	1	ICPST	7/12/00	16:50
Copper	324.753	1.3	25.0	1.3	U	1	ICPST	7/12/00	16:50
Iron	271.441	14.9	100	27.2	B	1	ICPST	7/12/00	16:50
Lead	220.353	1.3	3.0	1.3	U	1	ICPST	7/12/00	16:50
Magnesium	279.078	10.2	5000	10.2	U	1	ICPST	7/12/00	16:50
Manganese	257.61	0.20	15.0	0.87	B	1	ICPST	7/12/00	16:50
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	7/11/00	14:45
Nickel	231.604	1.3	40.0	1.3	U	1	ICPST	7/12/00	16:50
Potassium	766.491	19.8	5000	-21	B	1	ICPST	7/12/00	16:50
Selenium	196.026	4.9	5.0	4.9	U	1	ICPST	7/12/00	16:50
Silver	328.068	1.0	5.0	1.0	U	1	ICPST	7/12/00	16:50
Sodium	330.232	155	5000	-240	B	1	ICPST	7/12/00	16:50
Thallium	190.864	6.3	10.0	6.3	U	1	ICPST	7/12/00	16:50
Tin	189.989	2.8	50.0	2.8	U	1	ICPST	7/12/00	16:50
Vanadium	292.402	0.80	7.0	0.80	U	1	ICPST	7/12/00	16:50
Zinc	213.856	1.0	20.0	11.9	B	1	ICPST	7/12/00	16:50

Comments: Lot #: A0G070236

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFV6WD

Matrix Spike Sample ID: DFV6WS Client ID: MPT-G4-GW-28-05D

Matrix: Water Units: ug/L Prep Date: 7/11/00 Prep Batch: 0193094

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	1960		2030		3.8 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Antimony	206.838	503		520		3.3 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Arsenic	189.042	1980		2050		3.1 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Barium	493.409	1940		2010		3.5 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Beryllium	313.042	50.2		51.8		3.2 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Cadmium	226.502	47.4		48.7		2.9 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Calcium	317.933	139000		151000	*	25.1 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Chromium	267.716	199		207		4.0 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Cobalt	228.616	479		494		3.0 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Copper	324.753	246		255		3.5 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Iron	271.441	3150		3410	*	26.3 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Lead	220.353	490		506		3.0 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Magnesium	279.078	57400		59200		3.5 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Manganese	257.61	611		643		6.4 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Mercury	253.7	1.1		1.1		3.1 %	1	1	CVAA	7/11/00	14:49	7/11/00	14:50
Nickel	231.604	521		537		3.1 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Potassium	766.491	56300		57900		2.9 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Selenium	196.026	1960		2020		3.4 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Silver	328.068	55.9		56.5		1.2 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Sodium	330.232	98900		106000		13.7 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Thallium	190.864	1920		1990		3.4 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Tin	189.989	1970		2030		3.0 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Vanadium	292.402	484		500		3.2 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15
Zinc	213.856	531		563		6.0 %	1	1	ICPST	7/12/00	18:11	7/12/00	18:15

Comments: Lot #: A0G070236 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	3/21/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	10.3	4/18/00
Antimony	206.84	10	3.1	4/18/00
Arsenic	189.04	10	2.9	4/18/00
Barium	493.41	200	0.30	4/18/00
Beryllium	313.04	5	0.20	4/18/00
Cadmium	226.50	2	0.30	4/18/00
Calcium	317.93	5000	22.4	4/18/00
Chromium	267.72	5	0.80	4/18/00
Cobalt	228.62	7	0.70	4/18/00
Copper	324.75	25	1.3	4/18/00
Iron	271.44	100	14.9	4/18/00
Lead	220.35	3	1.3	4/18/00
Magnesium	279.08	5000	10.2	4/18/00
Manganese	257.61	15	0.20	4/18/00
Nickel	231.60	40	1.3	4/18/00
Potassium	766.49	5000	19.8	4/18/00
Selenium	196.03	5	4.9	4/18/00
Silver	328.07	5	1.0	4/18/00
Sodium	330.23	5000	155	4/18/00
Thallium	190.86	10	6.3	4/18/00
Tin	189.99	50	2.8	4/18/00
Vanadium	292.40	7	0.80	4/18/00
Zinc	213.86	20	1.0	4/18/00

SIL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60712b.arc

Sample Name	Date of Analysis	Time of Analysis
S0	7/12/00	10:35 AM
CALSTD	7/12/00	10:40 AM
CAL 2	7/12/00	10:45 AM
S100	7/12/00	10:48 AM
ICV	7/12/00	10:52 AM
ICB	7/12/00	10:57 AM
CRI	7/12/00	11:02 AM
ZZZZZ	7/12/00	11:09 AM
ICSA	7/12/00	11:17 AM
ZZZZZ	7/12/00	11:23 AM
ICSAB	7/12/00	11:28 AM
CCV	7/12/00	11:33 AM
CCB	7/12/00	11:38 AM
ZZZZZ	7/12/00	11:43 AM
ZZZZZ	7/12/00	11:48 AM
ZZZZZ	7/12/00	11:55 AM
ZZZZZ	7/12/00	12:00 PM
ZZZZZ	7/12/00	12:05 PM
ZZZZZ	7/12/00	12:10 PM
ZZZZZ	7/12/00	12:18 PM
ZZZZZ	7/12/00	12:25 PM
CCV	7/12/00	12:30 PM
CCB	7/12/00	12:35 PM
ZZZZZ	7/12/00	12:43 PM
ZZZZZ	7/12/00	12:48 PM
ZZZZZ	7/12/00	12:53 PM
CCV	7/12/00	12:58 PM
CCB	7/12/00	1:03 PM
ZZZZZ	7/12/00	1:23 PM
ZZZZZ	7/12/00	1:27 PM
ZZZZZ	7/12/00	1:32 PM
ZZZZZ	7/12/00	1:37 PM
ZZZZZ	7/12/00	1:41 PM
ZZZZZ	7/12/00	1:46 PM
ZZZZZ	7/12/00	1:50 PM
CCV	7/12/00	2:20 PM
CCB	7/12/00	2:27 PM
ZZZZZ	7/12/00	2:32 PM
ZZZZZ	7/12/00	2:36 PM
ZZZZZ	7/12/00	2:43 PM
ZZZZZ	7/12/00	2:48 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60712b.arc

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/12/00	2:53 PM
ZZZZZZ	7/12/00	2:57 PM
ZZZZZZ	7/12/00	3:02 PM
ZZZZZZ	7/12/00	3:07 PM
ZZZZZZ	7/12/00	3:12 PM
ZZZZZZ	7/12/00	3:17 PM
CCV	7/12/00	3:21 PM
CCB	7/12/00	3:28 PM
ZZZZZZ	7/12/00	3:33 PM
ZZZZZZ	7/12/00	3:38 PM
ZZZZZZ	7/12/00	3:42 PM
ZZZZZZ	7/12/00	3:49 PM
ZZZZZZ	7/12/00	3:54 PM
ZZZZZZ	7/12/00	3:59 PM
ZZZZZZ	7/12/00	4:03 PM
ZZZZZZ	7/12/00	4:08 PM
ZZZZZZ	7/12/00	4:13 PM
ZZZZZZ	7/12/00	4:18 PM
CCV	7/12/00	4:23 PM
CCB	7/12/00	4:29 PM
ZZZZZZ	7/12/00	4:34 PM
ZZZZZZ	7/12/00	4:39 PM
ZZZZZZ	7/12/00	4:44 PM
DG0JNB	7/12/00	4:50 PM
DG0JNC	7/12/00	4:55 PM
DFN48	7/12/00	5:02 PM
DFN48L	7/12/00	5:06 PM
DFN49	7/12/00	5:11 PM
DFN4A	7/12/00	5:16 PM
DFN4E	7/12/00	5:21 PM
CCV	7/12/00	5:26 PM
CCB	7/12/00	5:32 PM
DFN4F	7/12/00	5:37 PM
DFN4G	7/12/00	5:42 PM
DFRC7	7/12/00	5:47 PM
DFRCA	7/12/00	5:51 PM
DFRCD	7/12/00	5:56 PM
DFRCE	7/12/00	6:01 PM
DFV6W	7/12/00	6:06 PM
DFV6WS	7/12/00	6:11 PM
DFV6WD	7/12/00	6:15 PM

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60712b.arc

Sample Name	Date of Analysis	Time of Analysis
DFV75	7/12/00	6:22 PM
CCV	7/12/00	6:27 PM
CCB	7/12/00	6:33 PM
DFV77	7/12/00	6:38 PM
DFV78	7/12/00	6:43 PM
DFV79	7/12/00	6:48 PM
DFV7C	7/12/00	6:53 PM
DFV7D	7/12/00	6:57 PM
XXXXXX	7/12/00	7:04 PM
XXXXXX	7/12/00	7:09 PM
XXXXXX	7/12/00	7:15 PM
XXXXXX	7/12/00	7:20 PM
XXXXXX	7/12/00	7:25 PM
CCV	7/12/00	7:30 PM
CCB	7/12/00	7:37 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.prn

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/11/00	8:53 AM
Std2Rep1	7/11/00	8:54 AM
Std3Rep1	7/11/00	8:55 AM
Std4Rep1	7/11/00	8:57 AM
Std5Rep1	7/11/00	8:58 AM
Std6Rep1	7/11/00	8:59 AM
Ck5ICV	7/11/00	9:01 AM
Ck4ICB	7/11/00	9:02 AM
Ck3CRA	7/11/00	9:04 AM
Ck2CCV	7/11/00	9:05 AM
Ck1CCB	7/11/00	9:06 AM
TTTTTT	7/11/00	9:08 AM
TTTTTT	7/11/00	9:09 AM
TTTTTT	7/11/00	9:10 AM
TTTTTT	7/11/00	9:12 AM
TTTTTT	7/11/00	9:13 AM
TTTTTT	7/11/00	9:14 AM
TTTTTT	7/11/00	9:15 AM
TTTTTT	7/11/00	9:16 AM
TTTTTT	7/11/00	9:18 AM
TTTTTT	7/11/00	9:19 AM
Ck2CCV	7/11/00	9:20 AM
Ck1CCB	7/11/00	9:22 AM
TTTTTT	7/11/00	9:23 AM
TTTTTT	7/11/00	9:24 AM
TTTTTT	7/11/00	9:25 AM
TTTTTT	7/11/00	9:26 AM
TTTTTT	7/11/00	9:27 AM
TTTTTT	7/11/00	9:29 AM
TTTTTT	7/11/00	9:30 AM
TTTTTT	7/11/00	9:31 AM
TTTTTT	7/11/00	9:32 AM
TTTTTT	7/11/00	9:33 AM
Ck2CCV	7/11/00	9:34 AM
Ck1CCB	7/11/00	9:35 AM
TTTTTT	7/11/00	9:37 AM
TTTTTT	7/11/00	9:38 AM
TTTTTT	7/11/00	9:39 AM
TTTTTT	7/11/00	9:40 AM
TTTTTT	7/11/00	9:41 AM
TTTTTT	7/11/00	9:43 AM

SIL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.pm

Sample Name	Date of Analysis	Time of Analysis
TTTTTT	7/11/00	9:44 AM
TTTTTT	7/11/00	9:46 AM
TTTTTT	7/11/00	9:47 AM
TTTTTT	7/11/00	9:48 AM
Ck2CCV	7/11/00	9:49 AM
Ck1CCB	7/11/00	9:51 AM
TTTTTT	7/11/00	9:52 AM
TTTTTT	7/11/00	9:54 AM
TTTTTT	7/11/00	9:55 AM
TTTTTT	7/11/00	9:56 AM
TTTTTT	7/11/00	9:57 AM
TTTTTT	7/11/00	9:58 AM
TTTTTT	7/11/00	9:59 AM
TTTTTT	7/11/00	10:01 AM
TTTTTT	7/11/00	10:02 AM
TTTTTT	7/11/00	10:03 AM
Ck2CCV	7/11/00	10:04 AM
Ck1CCB	7/11/00	10:06 AM
TTTTTT	7/11/00	10:07 AM
TTTTTT	7/11/00	10:08 AM
TTTTTT	7/11/00	10:09 AM
TTTTTT	7/11/00	10:11 AM
TTTTTT	7/11/00	10:12 AM
TTTTTT	7/11/00	10:13 AM
TTTTTT	7/11/00	10:15 AM
TTTTTT	7/11/00	10:16 AM
TTTTTT	7/11/00	10:17 AM
TTTTTT	7/11/00	10:18 AM
Ck2CCV	7/11/00	10:20 AM
Ck1CCB	7/11/00	10:21 AM
TTTTTT	7/11/00	10:22 AM
TTTTTT	7/11/00	10:23 AM
TTTTTT	7/11/00	10:24 AM
TTTTTT	7/11/00	10:26 AM
TTTTTT	7/11/00	10:27 AM
TTTTTT	7/11/00	10:28 AM
TTTTTT	7/11/00	10:29 AM
TTTTTT	7/11/00	10:31 AM
TTTTTT	7/11/00	10:32 AM
TTTTTT	7/11/00	10:33 AM
Ck2CCV	7/11/00	10:34 AM

SIL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.pm

Sample Name	Date of Analysis	Time of Analysis
Ck1CCB	7/11/00	10:36 AM
TTTTTT	7/11/00	10:37 AM
TTTTTT	7/11/00	10:38 AM
TTTTTT	7/11/00	10:39 AM
TTTTTT	7/11/00	10:40 AM
TTTTTT	7/11/00	10:42 AM
TTTTTT	7/11/00	10:43 AM
TTTTTT	7/11/00	10:45 AM
TTTTTT	7/11/00	10:46 AM
TTTTTT	7/11/00	10:47 AM
TTTTTT	7/11/00	10:49 AM
Ck2CCV	7/11/00	10:50 AM
Ck1CCB	7/11/00	10:51 AM
TTTTTT	7/11/00	10:52 AM
TTTTTT	7/11/00	10:54 AM
TTTTTT	7/11/00	10:55 AM
TTTTTT	7/11/00	10:56 AM
TTTTTT	7/11/00	10:58 AM
TTTTTT	7/11/00	10:59 AM
TTTTTT	7/11/00	11:00 AM
TTTTTT	7/11/00	11:01 AM
TTTTTT	7/11/00	11:03 AM
TTTTTT	7/11/00	11:04 AM
Ck2CCV	7/11/00	11:05 AM
Ck1CCB	7/11/00	11:07 AM
TTTTTT	7/11/00	11:08 AM
TTTTTT	7/11/00	11:09 AM
TTTTTT	7/11/00	11:10 AM
TTTTTT	7/11/00	11:12 AM
TTTTTT	7/11/00	11:13 AM
TTTTTT	7/11/00	11:15 AM
TTTTTT	7/11/00	11:17 AM
TTTTTT	7/11/00	11:18 AM
Ck2CCV	7/11/00	11:19 AM
Ck1CCB	7/11/00	11:21 AM
Ck2CCV	7/11/00	1:51 PM
Ck1CCB	7/11/00	1:52 PM
TTTTTT	7/11/00	1:54 PM
TTTTTT	7/11/00	1:55 PM
TTTTTT	7/11/00	1:56 PM
TTTTTT	7/11/00	1:57 PM

SIL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.pm

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/11/00	1:58 PM
ZZZZZZ	7/11/00	2:00 PM
ZZZZZZ	7/11/00	2:01 PM
ZZZZZZ	7/11/00	2:02 PM
ZZZZZZ	7/11/00	2:04 PM
ZZZZZZ	7/11/00	2:05 PM
Ck2CCV	7/11/00	2:06 PM
Ck1CCB	7/11/00	2:07 PM
ZZZZZZ	7/11/00	2:08 PM
ZZZZZZ	7/11/00	2:10 PM
ZZZZZZ	7/11/00	2:11 PM
ZZZZZZ	7/11/00	2:12 PM
ZZZZZZ	7/11/00	2:14 PM
ZZZZZZ	7/11/00	2:15 PM
ZZZZZZ	7/11/00	2:16 PM
ZZZZZZ	7/11/00	2:17 PM
ZZZZZZ	7/11/00	2:18 PM
ZZZZZZ	7/11/00	2:20 PM
Ck2CCV	7/11/00	2:21 PM
Ck1CCB	7/11/00	2:22 PM
ZZZZZZ	7/11/00	2:24 PM
ZZZZZZ	7/11/00	2:25 PM
ZZZZZZ	7/11/00	2:27 PM
ZZZZZZ	7/11/00	2:28 PM
ZZZZZZ	7/11/00	2:29 PM
ZZZZZZ	7/11/00	2:30 PM
ZZZZZZ	7/11/00	2:31 PM
ZZZZZZ	7/11/00	2:32 PM
ZZZZZZ	7/11/00	2:34 PM
ZZZZZZ	7/11/00	2:35 PM
Ck2CCV	7/11/00	2:36 PM
Ck1CCB	7/11/00	2:37 PM
ZZZZZZ	7/11/00	2:39 PM
ZZZZZZ	7/11/00	2:40 PM
ZZZZZZ	7/11/00	2:41 PM
ZZZZZZ	7/11/00	2:42 PM
ZZZZZZ	7/11/00	2:44 PM
DG0JNB	7/11/00	2:45 PM
DG0JNC	7/11/00	2:46 PM
DFV6W	7/11/00	2:47 PM
DFV6WS	7/11/00	2:49 PM

SIL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10711.prn

Sample Name	Date of Analysis	Time of Analysis
DFV6WD	7/11/00	2:50 PM
CK2CCV	7/11/00	2:51 PM
CK1CCB	7/11/00	2:52 PM
DFV75	7/11/00	2:53 PM
DFV77	7/11/00	2:54 PM
DFV78	7/11/00	2:56 PM
DFV79	7/11/00	2:57 PM
DFRCA	7/11/00	2:58 PM
DFRCE	7/11/00	2:59 PM
DFRC7	7/11/00	3:00 PM
DFRCD	7/11/00	3:01 PM
DFN4F	7/11/00	3:03 PM
DFV7D	7/11/00	3:04 PM
CK2CCV	7/11/00	3:06 PM
CK1CCB	7/11/00	3:07 PM
DFN4G	7/11/00	3:09 PM
DFN4A	7/11/00	3:10 PM
DFN48	7/11/00	3:11 PM
DFV7C	7/11/00	3:12 PM
DFN49	7/11/00	3:13 PM
DFN4E	7/11/00	3:15 PM
CK2CCV	7/11/00	3:16 PM
CK1CCB	7/11/00	3:17 PM

Analysis Report

07/12/00 05:11:37 PM

page 48

Avg	11519	--	--	--	--	--	--
SDev	51.97235	--	--	--	--	--	--
%RSD	.4511782	--	--	--	--	--	--
#1	11556	--	--	--	--	--	--
#2	11482	--	--	--	--	--	--

Method: TOTAL Sample Name: DFN49 MPT-64-GW-19-10 Operator: MJC

Run Time: 07/12/00 17:11:40

Comment:

Mode: CONC Corr. Factor: 1

13.89 ppb = 13.9 ug/L 9mm 9/15/00

Elem	Ag	Al	As	B	Ba	Be	Ca
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	-.6056	32.69	13.89	292.5	11.16	.0756	176900.
SDev	.1640	2.56	.54	3.3	.10	.0142	1891.
%RSD	27.09	7.841	3.857	1.113	.8714	18.72	1.069
#1	-.7216	34.50	13.51	294.8	11.23	.0656	178200.
#2	-.4896	30.88	14.27	290.2	11.09	.0856	175500.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2000.	500000.	10000.	50000.	25000.	4000.	600000.
Low	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.
Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	-.0490	-.4338	-.5868	-.6369	1665.	14760.	28880.
SDev	.1115	.0539	.1562	.8908	7.	203.	345.
%RSD	227.8	12.43	26.62	139.9	.4354	1.376	1.194
#1	-.1278	-.3957	-.4763	-1.267	1670.	14910.	29120.
#2	.0299	-.4719	-.6973	-.0071	1660.	14620.	28630.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	50000.	50000.	30000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.
Elem	Mn	Mo	Na	Ni	Pb	Se	Sb
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	120.6	26.52	35770.	1.322	.8758	.3385	3.618
SDev	1.5	.94	481.	.141	.8790	1.052	1.370
%RSD	1.253	3.549	1.343	10.67	100.4	310.7	37.88
#1	121.7	27.18	36110.	1.422	1.497	-.4052	2.649
#2	119.5	25.85	35430.	1.222	.2542	1.082	4.587
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.
Elem	Sn	Tl	V	Zn			
Units	PPB	PPB	PPB	PPB	2203/1	2203/2	2068/2
Avg	-1.778	1.737	-.3733	5.424	PPB	PPB	PPB
SDev	.598	6.036	.6902	.099	-1.229	1.927	1.315
%RSD	33.67	347.4	184.9	1.823	1.752	.443	1.208
					142.5	23.00	91.87

Date: 11/30/00

VOA

Sample TB07060 was analyzed and reported at a 2X dilution due to the presence of acetone at concentrations above the linear calibration range of the instrument.

The following compounds were detected in laboratory method blanks and / or trip blanks* :

<u>Compound</u>	<u>Maximum Concentration (ug/L)</u>	<u>Blank Action Level (ug/L)</u>
*Acetone	61	610
Benzene	0.079	0.39
*Ethylbenzene	0.13	0.65
*1,1-dichloroethene	1.4	7
*2-butanone	23	230
*2-hexanone	3.1	15.5
*Methylene chloride	2.2	22
*Toluene	0.47	2.35
*Xylenes (total)	0.81	4.05

Sample aliquot and dilution factors were taken into consideration when applying blank action levels. The symbol * indicates analytes detected in trip blanks. Positive results for the above compounds less than blank action levels were qualified as undetected (U) in the affected samples. No actions were taken for 2-hexanone and xylene since all results for these analytes were reported as nondetected. Field quality control blanks were not qualified based on contamination in method blanks.

An initial calibration Relative Response Factor (RRF) fell below the 0.05 quality control limit for isobutyl alcohol on 7/12/00, on instrument A3UX9. Only nondetected results were reported for isobutyl alcohol and these were rejected (UR) in the affected samples.

An initial calibration % Relative Standard Deviation (%RSD) exceeded the 30% (and >50%) quality control limits for acetone on 7/12/00, on instrument A3UX9. Only nondetected results were reported for acetone and these were qualified as estimated (J) in the affected samples due to the RSD noncompliance exceeding 50%.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/13/00, 07:56, on instrument A3UX9. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification %Differences (%Ds) exceeded the 25% quality control limit for acetone, acrolein and 2-chloroethyl vinyl ether on 7/13/00, 07:56, on instrument A3UX9. Only nondetected results were reported for acetone and 2-chloroethyl vinyl ether and these were qualified as estimated (JJ) in the affected samples. Additionally, the nondetected results reported for acrolein were previously qualified for the above RRF noncompliance and did not require further qualification.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for isobutyl alcohol on 7/13/00, 08:19, on instrument A3UX9. Only nondetected results were reported for isobutyl alcohol and these were rejected (UR) in the affected samples.

Memo To: T. Hansen – Page 3

Date: 11/30/00

Initial calibration RRFs fell below the 0.05 quality control limit for acrolein, acetonitrile, isobutyl alcohol and propionitrile on 7/14/00, on instrument A3UX7. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

An initial calibration %RSD exceeded the 30% (and > 50%) quality control limits for acetone on 7/14/00, on instrument A3UX7. The positive results reported for acetone were previously qualified for blank contamination and did not require further qualification in the affected environmental samples. The positive result reported for acetone was qualified as estimated (J) in the trip blank TB070600.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/14/00, 13:33, on instrument A3UX7. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for vinyl acetate and acrolein on 7/14/00, 13:33, on instrument A3UX7. Only nondetected results were reported for vinyl acetate and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected results reported for acrolein were previously qualified for the above RRF noncompliance and did not require further qualification.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for isobutyl alcohol and propionitrile on 7/14/00, 14:00, on instrument A3UX7. Only nondetected results were reported for isobutyl alcohol and propionitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/17/00, 08:45, on instrument A3UX7. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

A continuing calibration verification %D exceeded the 25% quality control limit for acetone on 7/17/00, 08:45, on instrument A3UX7. The positive results reported for acetone were previously qualified for blank contamination and did not require further qualification in the affected environmental samples. The positive result reported for acetone was qualified as estimated (J) in the trip blank TB070600.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for isobutyl alcohol and propionitrile on 7/14/00, 09:11, on instrument A3UX7. Only nondetected results were reported for isobutyl alcohol and propionitrile and these were rejected (UR) in the affected samples.

SVOA

Initial calibration %RSDs exceeded the 30% (but < 50%) quality control limit for 4-nitroquinoline-1-oxide and p-phenylamine diamine on 7/8/00, on instrument A4HP6. Only nondetected results were reported for nitroquinoline-1-oxide and p-phenylamine diamine, which do not require qualification based on this calibration noncompliance.

A continuing calibration verification %D exceeded the 25% quality control limit for a,a-dimethylphenethylamine on 7/10/00, on instrument A4HP6. Only nondetected results were reported for a,a-dimethylphenethylamine and these were qualified as estimated (UJ) in the affected samples.

Memo To: T. Hansen – Page 4

Date: 11/30/00

Continuing calibration verification %Ds exceeded the 25% quality control limit for 4-nitrophenol and 4-nitroaniline on 7/12/00, 06:34, on instrument A4HP6. Only nondetected results were reported for 4-nitrophenol and 4-nitroaniline and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification %D exceeded the 25% quality control limit for a,a-dimethylphenethylamine On 7/12/00, 07:10, on instrument A4HP6. Only nondetected results were reported for a,a-dimethylphenethylamine and these were qualified as estimated (UJ) in the affected samples.

An initial calibration RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/17/00, on instrument A4HP9. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Initial calibration %RSDs exceeded the 30% (but <50%) quality control limit for 2-acetoaminofluorene and p-phenylenediamine on 7/17/00, on instrument A4HP9. Only nondetected results were reported for 2-acetoaminofluorene and p-phenylene diamine, which do not require qualification based on this calibration noncompliance.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/19/00, 07:32, on instrument A4HP9. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for a,a-dimethylphenethylamine, 4-nitroquinoline-1-oxide, p-phenylaminediamine, pentachloronitrobenzene and n-nitrosomorpholine on 7/19/00, 07:32, on instrument A4HP9. Only nondetected results were reported for a,a-dimethylphenethylamine, p-phenylaminediamine, pentachloronitrobenzene and n-nitrosomorpholine and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected results for 4-nitroquinoline-1-oxide were previously qualified for the above RRF noncompliance and did not require further qualification.

A continuing calibration verification %D exceeded the 25% quality control limit for bis(2-chloroethyl)ether on 7/20/00, 07:52, on instrument A4HP9. Only nondetected results were reported for bis(2-chloroethyl)ether and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/20/00, 08:28, on instrument A4HP9. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 1,4-dioxane, 4-nitroquinoline-1-oxide, aramite, p-phenylaminediamine, diallate, n-nitrosomorpholine and pentachloronitrobenzene on 7/20/00, 08:28, on instrument A4HP9. Only nondetected results were reported for 1,4-dioxane, aramite, p-phenylaminediamine, diallate, n-nitrosomorpholine and pentachloronitrobenzene and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected results reported for 4-nitroquinoline-1-oxide were previously qualified for the above RRF noncompliance and did not require further qualification.

Date: 11/30/00

Additional Comments

Positive results below the reporting limit were qualified as estimated, (J), due to uncertainty near the detection limit.

It should be noted that according to the laboratory statement of work (SOW) both the volatile and semivolatile fraction both were to contain 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Since this would create data management problems, the laboratory reported these compounds in the semivolatile fraction only. It was not necessary to qualify any data based on this issue.

The analytical SOW listed pentachloroethane to be analyzed and reported as a volatile compound but the laboratory analyzed and reported this compound as a semivolatile compound. It was not necessary to qualify any data based on this issue.

The laboratory reported allyl chloride, which according to the analytical SOW was not a required volatile target compound. Because allyl chloride is an Appendix IX compound it was determined that this compound should remain in the database.

The laboratory reported Dinoseb, a,a-dimethylphenethylamine, chlorobenzilate, diallate, and N-nitrosopiperidine, which according to the analytical SOW were not required semivolatile target compounds. Because the aforementioned are Appendix IX compounds it was determined that these compounds should remain in the database.

The laboratory did not report hexachlorophene as requested in the analytical SOW. This compound is unstable and could not be analyzed.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Volatile Laboratory Control Sample (LCS) % recovery of acetone exceeded quality control limits. No qualifiers were assigned on this basis.

Semivolatile LCS % recoveries of 2,4,6-trichlorophenol, 4,6-dinitro-2-methylphenol, 4-chloroaniline and diethyl phthalate were not compliant with quality control limits. No qualifiers were required on this basis.

Semivolatile LCS % recoveries of hexachlorocyclopentadiene and dimethyl phthalate fell below 10%. In all samples except MPT-G4-GW-18-09, MPT-G4-GW-19-10 and MPT-G4-GW-20-10, the nondetected results reported for hexachlorocyclopentadiene were rejected (UR). Additionally, in samples MPT-G4-SU-21-08, MPT-G4-SU-22-08 and MPT-G4-SU-23-08, the nondetected results reported for dimethyl phthalate were rejected (UR).

Other Factors Affecting Data Quality: None

Memo To: T. Hansen – Page 6

Date: 11/30/00

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator



TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

FIELD DUPLICATES MP016					
FRACTION	COMPOUND		MPT-G4-GW-28-05	MPT-G4-GW-DU02	RPD
			RESULT ug/L	RESULT ug/L	
Volatile					
	acetone		1.2 J	0.93 J	25.4
	chloromethane		0.24 J	0.2 J	18.2
	methylene chloride		0.2 J	0.2 J	0.0
	toluene		0.081 J	0.093 J	-13.8
Semivoaltile					
	2-methylnaphthalene		3.9 J	5.3 J	-30.4
	naphthalene		2.4 J	3.1 J	-25.5
ND - Compound not detected.					
NC - RPD not calculated.					

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $< CRQL$ for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020105001	A0G020105002	A0G020105003	A0G020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		0.12	J	P	1	U	
1,1-DICHLOROETHENE	1	U	B	1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	0.6	J	P	0.58	J	P	10	U		10	U	
ACETONE	10	UJ	C	10	UJ	C	10	UJ	C	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U	A	1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	0.14	J	P	1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.37	J	P	1	U		0.17	J	P	0.2	J	P
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.58			0.64		

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	AOG020105001	AOG020105002	AOG020105003	AOG020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1.9	U	B	2.1	U	B	1.7	U	B	1.9	U	B
PROPIONITRILE	4	U		4	U		4	U		4	U	
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-22-08	MPT-G4-GW-23-08	MPT-G4-GW-24-08	MPT-G4-GW-25-07
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020105007	A0G020105008	A0G060210001	A0G060210002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1.9			0.93	J	P	1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U	B	10	U	B
2-CHLOROETHYL VINYL ETHER	1	UJ	C	1	UJ	C	1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U	A	1	U	A	1	U	A	1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		0.45	J	P	0.21	J	P
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	0.2	J	P	0.24	J	P	0.17	J	P	1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	1.9			0.93			0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-22-08
06/30/00
A0G020105007
NORMAL
0.0 %
UG/L

MPT-G4-GW-23-08
06/30/00
A0G020105008
NORMAL
0.0 %
UG/L

MPT-G4-GW-24-08
07/05/00
A0G060210001
NORMAL
0.0 %
UG/L

MPT-G4-GW-25-07
07/05/00
A0G060210002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U	B	1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	2.4	U	B	2.1	U	B	1	U	B	1	U	
PROPIONITRILE	4	U		4	U		4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	UJ	C
VINYL CHLORIDE	0.87	J	P	0.36	J	P	1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CT0091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-26-05	MPT-G4-GW-27-08	MPT-G4-GW-28-05	MPT-G4-GW-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060210003	A0G060210004	A0G070236001	A0G070236002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-G4-GW-DU02	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	B
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1.2			1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	0.27	J	P	0.29	J	P	1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		0.24	J	P	1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 UNITS:
 FIELD DUPLICATE OF:

MPT-G4-GW-26-05
 07/05/00
 AOG060210003
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-27-08
 07/05/00
 AOG060210004
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-28-05
 07/06/00
 AOG070236001
 NORMAL
 0.0 %
 UG/L
 MPT-G4-GW-DU02

MPT-G4-GW-29-05
 07/06/00
 AOG070236002
 NORMAL
 0.0 %
 UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U	B	1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	B	1	U	B	1	U	B	1	U	B
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	UJ	C	1	UJ	C	1	UJ	C
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-30-07
07/06/00
A0G070236003
NORMAL
0.0 %
UG/L

MPT-G4-GW-31-09
07/06/00
A0G070236004
NORMAL
0.0 %
UG/L

MPT-G4-GW-32-07
07/06/00
A0G070236005
NORMAL
0.0 %
UG/L

MPT-G4-GW-33-05
07/06/00
A0G070236007
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		14			1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U	B	1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		0.11	J	P	1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		6.7			1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U		10	U		10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		0.7	J	P	1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		5.8			0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-30-07
07/06/00
A0G070236003
NORMAL
0.0 %
UG/L

MPT-G4-GW-31-09
07/06/00
A0G070236004
NORMAL
0.0 %
UG/L

MPT-G4-GW-32-07
07/06/00
A0G070236005
NORMAL
0.0 %
UG/L

MPT-G4-GW-33-05
07/06/00
A0G070236007
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	B	1	U	B	1	U	B	1	U	B
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C	4	UR	C
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.89			0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		0.37	J	P	1	U		1	U	
TRICHLOROFUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: AOG070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

TB063005
 06/30/00
 AOG020105004
 TRIP BLANK
 0.0 %
 UG/L

TB063006
 06/30/00
 AOG020105005
 TRIP BLANK
 0.0 %
 UG/L

TB070600
 07/06/00
 AOG070236008
 TRIP BLANK
 0.0 %
 UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		2	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		2	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		2	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		2	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		2	U	
1,1-DICHLOROETHENE	1	U		1.2			1.4			2	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		2	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		2	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		2	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		2	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		2	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		2	U	
2-BUTANONE	10	U		10	U		10	U		23		
2-CHLOROETHYL VINYL ETHER	1	U		1	UJ	C	1	UJ	C	2	U	
2-HEXANONE	10	U		10	U		10	U		3.1	J	P
4-METHYL-2-PENTANONE	10	U		10	U		10	U		20	U	
ACETONE	10	U	B	10	UJ	C	10	UJ	C	61	J	C
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	40	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	20	UR	C
ACRYLONITRILE	10	U		10	U		10	U		20	U	
ALLYL CHLORIDE	1	U		1	U		1	U		2	U	
BENZENE	1	U		1	U		1	U		2	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		2	U	
BROMOFORM	1	U		1	U		1	U		2	U	
BROMOMETHANE	2	U		2	U		2	U		4	U	
CARBON DISULFIDE	1	U		1	U		1	U		2	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		2	U	
CHLOROBENZENE	1	U		1	U		1	U		2	U	
CHLOROETHANE	1	U		1	U		1	U		2	U	
CHLOROFORM	1	U		1	U		1	U		2	U	
CHLOROMETHANE	0.2	J	P	1	U		1	U		2	U	
CHLOROPRENE	1	U		1	U		1	U		2	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: AOG070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

TB063005
 06/30/00
 AOG020105004
 TRIP BLANK
 0.0 %
 UG/L

TB063006
 06/30/00
 AOG020105005
 TRIP BLANK
 0.0 %
 UG/L

TB070600
 07/06/00
 AOG070236008
 TRIP BLANK
 0.0 %
 UG/L

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		2	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		2	U	
DIBROMOMETHANE	1	U		1	U		1	U		2	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		2	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		2	U	
ETHYLBENZENE	1	U		0.13	J	P	0.12	J	P	2	U	
IODOMETHANE	1	U		1	U		1	U		2	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	100	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		2	U	
METHYL METHACRYLATE	1	U		1	U		1	U		2	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		10	U	
METHYLENE CHLORIDE	1	U	B	2.2			1.9			0.53	J	P
PROPIONITRILE	4	UR	C	4	U		4	U		8	UR	C
STYRENE	1	U		1	U		1	U		2	U	
TETRACHLOROETHENE	1	U		1	U		1	U		2	U	
TOLUENE	1	U	B	0.47	J	P	0.45	J	P	0.15	J	P
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		1	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		2	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		2	U	
TRICHLOROETHENE	1	U		1	U		1	U		2	U	
TRICHLOROFUOROMETHANE	2	U		2	U		2	U		4	U	
VINYL ACETATE	1	UJ	C	1	U		1	U		2	UJ	C
VINYL CHLORIDE	1	U		1	U		1	U		2	U	
XYLENES, TOTAL	1	U		0.81	J	P	0.75	J	P	2	U	

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020105001	A0G020105002	A0G020105003	A0G020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	U										
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020105001	A0G020105002	A0G020105003	A0G020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U		25	U		25	U		25	UJ	C
4-NITROPHENOL	25	U		25	U		25	U		25	UJ	C
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:	MPT-G4-GW-18-09	MPT-G4-GW-19-10	MPT-G4-GW-20-11	MPT-G4-GW-21-08
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020105001	A0G020105002	A0G020105003	A0G020105006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U		10	U		10	U		10	UR	E
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	U		10	U		10	U		10	UR	E
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-18-09
06/30/00
A0G020105001
NORMAL
0.0 %
UG/L

MPT-G4-GW-19-10
06/30/00
A0G020105002
NORMAL
0.0 %
UG/L

MPT-G4-GW-20-11
06/30/00
A0G020105003
NORMAL
0.0 %
UG/L

MPT-G4-GW-21-08
06/30/00
A0G020105006
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-22-08
06/30/00
A0G020105007
NORMAL
0.0 %
UG/L

MPT-G4-GW-23-08
06/30/00
A0G020105008
NORMAL
0.0 %
UG/L

MPT-G4-GW-24-08
07/05/00
A0G060210001
NORMAL
0.0 %
UG/L

MPT-G4-GW-25-07
07/05/00
A0G060210002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	U										
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 UNITS:
 FIELD DUPLICATE OF:

MPT-G4-GW-22-08
 06/30/00
 A0G020105007
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-23-08
 06/30/00
 A0G020105008
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-24-08
 07/05/00
 A0G060210001
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-25-07
 07/05/00
 A0G060210002
 NORMAL
 0.0 %
 UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	UJ	C	25	UJ	C	25	U		25	U	
4-NITROPHENOL	25	UJ	C	25	UJ	C	25	U		25	U	
4-NITROQUINOLINE-1-OXIDE	10	U		10	U		10	UR	C	10	UR	C
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	2.9	J	P	5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-22-08
06/30/00
A0G020105007
NORMAL
0.0 %
UG/L

MPT-G4-GW-23-08
06/30/00
A0G020105008
NORMAL
0.0 %
UG/L

MPT-G4-GW-24-08
07/05/00
A0G060210001
NORMAL
0.0 %
UG/L

MPT-G4-GW-25-07
07/05/00
A0G060210002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E	10	UR	E	10	U		10	U	
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U		10	U		2.7	J	P	10	U	
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U		10	U		10	UJ	C	10	UJ	C
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPIRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-22-08
06/30/00
A0G020105007
NORMAL
0.0 %
UG/L

MPT-G4-GW-23-08
06/30/00
A0G020105008
NORMAL
0.0 %
UG/L

MPT-G4-GW-24-08
07/05/00
A0G060210001
NORMAL
0.0 %
UG/L

MPT-G4-GW-25-07
07/05/00
A0G060210002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U		10	U		10	UJ	C	10	UJ	C
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U		10	U		10	UJ	C	10	UJ	C
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U		10	U		1.9	J	P	10	U	
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-26-05
07/05/00
AOG060210003
NORMAL
0.0 %
UG/L

MPT-G4-GW-27-08
07/05/00
AOG060210004
NORMAL
0.0 %
UG/L

MPT-G4-GW-28-05
07/06/00
AOG070236001
NORMAL
0.0 %
UG/L
MPT-G4-GW-DU02

MPT-G4-GW-29-05
07/06/00
AOG070236002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	U										
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	53			10	U		3.9	J	P	10	U	
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U		1.5	J	P	10	U		10	U	

**CT0091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-26-05	MPT-G4-GW-27-08	MPT-G4-GW-28-05	MPT-G4-GW-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060210003	A0G060210004	A0G070236001	A0G070236002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:			MPT-G4-GW-DU02	

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C									
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C									
ACENAPHTHENE	10	U		6.1	J	P	10	U		10	U	
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U		1.7	J	P	10	U		10	U	
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U		10	U		10	U		10	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	2.3	J	P	2.6	J	P	5	U		2.1	J	P
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U		20			10	U		10	U	
CHLOROENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-26-05
07/05/00
A0G060210003
NORMAL
0.0 %
UG/L

MPT-G4-GW-27-08
07/05/00
A0G060210004
NORMAL
0.0 %
UG/L

MPT-G4-GW-28-05
07/06/00
A0G070236001
NORMAL
0.0 %
UG/L
MPT-G4-GW-DU02

MPT-G4-GW-29-05
07/06/00
A0G070236002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U		5.5	J	P	10	U		10	U	
FLUORENE	5.2	J	P	3.4	J	P	10	U		10	U	
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	UJ	C									
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPIRROLIDINE	10	U										
NAPHTHALENE	10	U		2.9	J	P	2.4	J	P	10	U	
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-26-05
07/05/00
A0G060210003
NORMAL
0.0 %
UG/L

MPT-G4-GW-27-08
07/05/00
A0G060210004
NORMAL
0.0 %
UG/L

MPT-G4-GW-28-05
07/06/00
A0G070236001
NORMAL
0.0 %
UG/L
MPT-G4-GW-DU02

MPT-G4-GW-29-05
07/06/00
A0G070236002
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C									
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	UJ	C									
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	5.3	J	P	7	J	P	10	U		10	U	
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U		5.3	J	P	10	U		10	U	
PYRIDINE	10	U										
SAFROLE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 UNITS:
 FIELD DUPLICATE OF:

MPT-G4-GW-30-07
 07/06/00
 A0G070236003
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-31-09
 07/06/00
 A0G070236004
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-32-07
 07/06/00
 A0G070236005
 NORMAL
 0.0 %
 UG/L

MPT-G4-GW-33-05
 07/06/00
 A0G070236007
 NORMAL
 0.0 %
 UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	U										
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U		10	UJ	C	10	UJ	C	10	UJ	C
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:	MPT-G4-GW-30-07	MPT-G4-GW-31-09	MPT-G4-GW-32-07	MPT-G4-GW-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070236003	A0G070236004	A0G070236005	A0G070236007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C									
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	UJ	C	50	U		50	U		50	U	
ACENAPHTHENE	10	U		10	U		10	U		2.8	J	P
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U		10	UJ	C	10	UJ	C	10	UJ	C
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U		10	UJ	C	10	UJ	C	10	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-30-07
07/06/00
A0G070236003
NORMAL
0.0 %
UG/L

MPT-G4-GW-31-09
07/06/00
A0G070236004
NORMAL
0.0 %
UG/L

MPT-G4-GW-32-07
07/06/00
A0G070236005
NORMAL
0.0 %
UG/L

MPT-G4-GW-33-05
07/06/00
A0G070236007
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALATE	20	U		20	UJ	C	20	UJ	C	20	UJ	C
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	UJ	C									
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP016**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-GW-30-07
07/06/00
A0G070236003
NORMAL
0.0 %
UG/L

MPT-G4-GW-31-09
07/06/00
A0G070236004
NORMAL
0.0 %
UG/L

MPT-G4-GW-32-07
07/06/00
A0G070236005
NORMAL
0.0 %
UG/L

MPT-G4-GW-33-05
07/06/00
A0G070236007
NORMAL
0.0 %
UG/L

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C									
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	UJ	C									
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U		1.3	J	P	10	U		2	J	P
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: A0G070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U										
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3,5-TRINITROBENZENE	10	U										
1,3-DICHLOROBENZENE	10	U										
1,3-DINITROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
1,4-DIOXANE	10	UJ	C									
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	5.3	J	P									
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: AOG070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//

100.0 %

//

100.0 %

//

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C									
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	UJ	C									
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	UJ	C									
BIS(2-ETHYLHEXYL)PHTHALATE	5	U										
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: A0G070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//
 100.0 %

//
 100.0 %

//
 100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	UJ	C									
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	UJ	C									
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	3.1	J	P									
NITROBENZENE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: AOG070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//

100.0 %

//

100.0 %

//

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	UJ	C									
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	UJ	C									
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP016

SAMPLE NUMBER: MPT-G4-GW-DU02
 SAMPLE DATE: 07/06/00
 LABORATORY ID: A0G070236006
 QC_TYPE: NORMAL
 % SOLIDS: 0.0 %
 UNITS: UG/L
 FIELD DUPLICATE OF: MPT-G4-GW-28-05

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
NITROBENZENE	10	U										
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	UJ	C									
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4810V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-18-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.066	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	0.14	J
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.37	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.12	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4810V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-18-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.9	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.074	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.60	J

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4810V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-18-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4910V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G020105 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
 Work Order: DFN4910V Date Extracted: 07/13/00
 Dilution factor: 1 Date Analyzed: 07/13/00
 Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	2.1	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.058	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	0.58	J

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4910V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG020105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4A10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-20-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.17	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	0.12	J
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.58	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4A10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-20-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.7		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.085		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4A10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-20-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4E10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-21-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.4	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.20	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.64	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4E10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-21-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.9	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.10	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016
Matrix: (soil/water) WG Lab Sample ID: AOG020105 006
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
Work Order: DFN4E10V Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %:

Client Sample Id: MPT-G4-GW-21-08 QC Batch: 0196151

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4F10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.15	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.20	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.9	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.9	

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G020105 007
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
 Work Order: DFN4F10V Date Extracted: 07/13/00
 Dilution factor: 1 Date Analyzed: 07/13/00
 Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	2.4	B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.087	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	0.87	J
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016
Matrix: (soil/water) WG Lab Sample ID: A0G020105 007
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
Sample WT/Vol: 5 / mL Date Received: 07/01/00
Work Order: DFN4F10V Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %:
 QC Batch: 0196151
Client Sample Id: MPT-G4-GW-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4G10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.096	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.24	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.93	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	0.93	J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G020105 008

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00

Work Order: DFN4G10V Date Extracted: 07/13/00

Dilution factor: 1 Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.1		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.10		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	0.36		J
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4G10V

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: MPT-G4-GW-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRC710V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.2	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.10	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.45	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.17	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRC710V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	0.066	J
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.12	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.19	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MKK)	0.95	J
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRC710V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCA10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-25-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-64-1	Acetone	1.2		J
75-05-8	Acetonitrile	20		Q
107-02-8	Acrolein	10		Q
107-13-1	Acrylonitrile	10		Q
71-43-2	Benzene	1.0		Q
75-27-4	Bromodichloromethane	1.0		Q
75-25-2	Bromoform	1.0		Q
74-83-9	Bromomethane	2.0		Q
75-15-0	Carbon disulfide	0.21		J
56-23-5	Carbon tetrachloride	1.0		Q
108-90-7	Chlorobenzene	1.0		Q
126-99-8	Chloroprene	1.0		Q
124-48-1	Dibromochloromethane	1.0		Q
96-12-8	1,2-Dibromo-3-chloropropane	1.0		Q
75-00-3	Chloroethane	1.0		Q
110-75-8	2-Chloroethyl vinyl ether	1.0		Q
67-66-3	Chloroform	1.0		Q
74-87-3	Chloromethane	1.0		Q
107-05-1	Allyl chloride	1.0		Q
74-95-3	Dibromomethane	1.0		Q
110-57-6	trans-1,4-Dichloro-2-butene	1.0		Q
75-71-8	Dichlorodifluoromethane	1.0		Q
75-34-3	1,1-Dichloroethane	1.0		Q
107-06-2	1,2-Dichloroethane	1.0		Q
75-35-4	1,1-Dichloroethene	1.0		Q
156-59-2	cis-1,2-Dichloroethene	0.50		Q
156-60-5	trans-1,2-Dichloroethene	0.50		Q
540-59-0	1,2-Dichloroethene (total)	1.0		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCA10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-25-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.10		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	0.73		J
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCA10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-25-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCD10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.6	J B
75-05-8	Acetonitrile	20	
107-02-8	Acrolein	10	
107-13-1	Acrylonitrile	10	
71-43-2	Benzene	1.2	
75-27-4	Bromodichloromethane	1.0	
75-25-2	Bromoform	1.0	
74-83-9	Bromomethane	2.0	
75-15-0	Carbon disulfide	0.27	J
56-23-5	Carbon tetrachloride	1.0	
108-90-7	Chlorobenzene	1.0	
126-99-8	Chloroprene	1.0	
124-48-1	Dibromochloromethane	1.0	
96-12-8	1,2-Dibromo-3-chloropropane	1.0	
75-00-3	Chloroethane	1.0	
110-75-8	2-Chloroethyl vinyl ether	1.0	
67-66-3	Chloroform	1.0	
74-87-3	Chloromethane	1.0	
107-05-1	Allyl chloride	1.0	
74-95-3	Dibromomethane	1.0	
110-57-6	trans-1,4-Dichloro-2-butene	1.0	
75-71-8	Dichlorodifluoromethane	1.0	
75-34-3	1,1-Dichloroethane	1.0	
107-06-2	1,2-Dichloroethane	1.0	
75-35-4	1,1-Dichloroethene	1.0	
156-59-2	cis-1,2-Dichloroethene	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	
540-59-0	1,2-Dichloroethene (total)	1.0	

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample Wt/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCD10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	0.17	J
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.11	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.17	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCD10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCE10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-27-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.0	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.29	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCE10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-27-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.098		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.13		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 004

Method: SW946 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/06/00

Work Order: DFRCE10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-27-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFW6W12L

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.2	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.24	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFW6W12L

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.20	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.081	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFW6W12L

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G070236 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00
 Work Order: DFV7510V Date Extracted: 07/14/00
 Dilution factor: 1 Date Analyzed: 07/14/00
 Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.0	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7510V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.22		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.11		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	0.66		J
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016
Matrix: (soil/water) WG Lab Sample ID: A0G070236 002
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00
Work Order: DFV7510V Date Extracted: 07/14/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %:

Client Sample Id: MPT-G4-GW-29-05 QC Batch: 0199127

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFW7710V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7710V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-30-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.20	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.065	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7710V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-30-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7810V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-31-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	0.70	J
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	14	
107-06-2	1,2-Dichloroethane	0.11	J
75-35-4	1,1-Dichloroethene	1.0	
156-59-2	cis-1,2-Dichloroethene	5.8	
156-60-5	trans-1,2-Dichloroethene	0.89	
540-59-0	1,2-Dichloroethene (total)	6.7	

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G070236 004
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00
 Work Order: DFV7810V Date Extracted: 07/14/00
 Dilution factor: 1 Date Analyzed: 07/14/00
 Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-31-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.20	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.044	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	0.37	J
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7810V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-31-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G070236 005

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00
 Work Order: DFV7910V Date Extracted: 07/14/00
 Dilution factor: 1 Date Analyzed: 07/14/00
 Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.3	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G070236 005

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00

Work Order: DFV7910V Date Extracted: 07/14/00

Dilution factor: 1 Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.20	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.043	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7910V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7D10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-33-

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	0.89	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7D10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-33-

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.20	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.075	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7D10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-33-

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7C10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	0.93	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.20	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G070236 006

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00

Work Order: DFV7C10V Date Extracted: 07/14/00

Dilution factor: 1 Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.20		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.093		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7C10V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: A0G020105 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4C101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: TB063005

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	Q
75-05-8	Acetonitrile	20	Q
107-02-8	Acrolein	10	Q
107-13-1	Acrylonitrile	10	Q
71-43-2	Benzene	1.0	Q
75-27-4	Bromodichloromethane	1.0	Q
75-25-2	Bromoform	1.0	Q
74-83-9	Bromomethane	2.0	Q
75-15-0	Carbon disulfide	1.0	Q
56-23-5	Carbon tetrachloride	1.0	Q
108-90-7	Chlorobenzene	1.0	Q
126-99-8	Chloroprene	1.0	Q
124-48-1	Dibromochloromethane	1.0	Q
96-12-8	1,2-Dibromo-3-chloropropane	1.0	Q
75-00-3	Chloroethane	1.0	Q
110-75-8	2-Chloroethyl vinyl ether	1.0	Q
67-66-3	Chloroform	1.0	Q
74-87-3	Chloromethane	1.0	Q
107-05-1	Allyl chloride	1.0	Q
74-95-3	Dibromomethane	1.0	Q
110-57-6	trans-1,4-Dichloro-2-butene	1.0	Q
75-71-8	Dichlorodifluoromethane	1.0	Q
75-34-3	1,1-Dichloroethane	1.0	Q
107-06-2	1,2-Dichloroethane	1.0	Q
75-35-4	1,1-Dichloroethene	1.2	Q
156-59-2	cis-1,2-Dichloroethene	0.50	Q
156-60-5	trans-1,2-Dichloroethene	0.50	Q
540-59-0	1,2-Dichloroethene (total)	1.0	Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: A0G020105 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4C101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: TB063005

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	0.13		J
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	2.2		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.47		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	0.81		J
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: AOG020105 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4C101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: TB063005

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: A0G020105 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4D101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: TB063006

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	Q
75-05-8	Acetonitrile	20	Q
107-02-8	Acrolein	10	Q
107-13-1	Acrylonitrile	10	Q
71-43-2	Benzene	1.0	Q
75-27-4	Bromodichloromethane	1.0	Q
75-25-2	Bromoform	1.0	Q
74-83-9	Bromomethane	2.0	Q
75-15-0	Carbon disulfide	1.0	Q
56-23-5	Carbon tetrachloride	1.0	Q
108-90-7	Chlorobenzene	1.0	Q
126-99-8	Chloroprene	1.0	Q
124-48-1	Dibromochloromethane	1.0	Q
96-12-8	1,2-Dibromo-3-chloropropane	1.0	Q
75-00-3	Chloroethane	1.0	Q
110-75-8	2-Chloroethyl vinyl ether	1.0	Q
67-66-3	Chloroform	1.0	Q
74-87-3	Chloromethane	1.0	Q
107-05-1	Allyl chloride	1.0	Q
74-95-3	Dibromomethane	1.0	Q
110-57-6	trans-1,4-Dichloro-2-butene	1.0	Q
75-71-8	Dichlorodifluoromethane	1.0	Q
75-34-3	1,1-Dichloroethane	1.0	Q
107-06-2	1,2-Dichloroethane	1.0	Q
75-35-4	1,1-Dichloroethene	1.4	Q
156-59-2	cis-1,2-Dichloroethene	0.50	Q
156-60-5	trans-1,2-Dichloroethene	0.50	Q
540-59-0	1,2-Dichloroethene (total)	1.0	Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WQ Lab Sample ID: A0G020105 005

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
Work Order: DFN4D101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %:

QC Batch: 0196151

Client Sample Id: TB063006

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	0.12		J
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.9		B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.45		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	0.75		J
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: AOG020105 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/01/00

Work Order: DFN4D101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:

QC Batch: 0196151

Client Sample Id: TB063006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: A0G070236 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7E101

Date Extracted: 07/17/00

Dilution factor: 2

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: TB070600

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	61	B
75-05-8	Acetonitrile	40	U
107-02-8	Acrolein	20	U
107-13-1	Acrylonitrile	20	U
71-43-2	Benzene	2.0	U
75-27-4	Bromodichloromethane	2.0	U
75-25-2	Bromoform	2.0	U
74-83-9	Bromomethane	4.0	U
75-15-0	Carbon disulfide	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
108-90-7	Chlorobenzene	2.0	U
126-99-8	Chloroprene	2.0	U
124-48-1	Dibromochloromethane	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
75-00-3	Chloroethane	2.0	U
110-75-8	2-Chloroethyl vinyl ether	2.0	U
67-66-3	Chloroform	2.0	U
74-87-3	Chloromethane	2.0	U
107-05-1	Allyl chloride	2.0	U
74-95-3	Dibromomethane	2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	2.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
540-59-0	1,2-Dichloroethene (total)	2.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WQ

Lab Sample ID: A0G070236 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DFV7E101

Date Extracted: 07/17/00

Dilution factor: 2

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: TB070600

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
78-87-5	1,2-Dichloropropane	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
100-41-4	Ethylbenzene	2.0	U
97-63-2	Ethyl methacrylate	2.0	U
75-69-4	Trichlorofluoromethane	4.0	U
591-78-6	2-Hexanone	3.1	J
74-88-4	Iodomethane	2.0	U
78-83-1	Isobutyl alcohol	100	U
126-98-7	Methacrylonitrile	2.0	U
75-09-2	Methylene chloride	0.53	J B
80-62-6	Methyl methacrylate	2.0	U
107-12-0	Propionitrile	8.0	U
100-42-5	Styrene	2.0	U
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
127-18-4	Tetrachloroethene	2.0	U
108-88-3	Toluene	0.15	J B
71-55-6	1,1,1-Trichloroethane	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
79-01-6	Trichloroethene	2.0	U
96-18-4	1,2,3-Trichloropropane	2.0	U
108-05-4	Vinyl acetate	2.0	U
75-01-4	Vinyl chloride	2.0	U
1330-20-7	Xylenes (total)	2.0	U
106-93-4	1,2-Dibromoethane (EDB)	2.0	U
78-93-3	2-Butanone (MRK)	23	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016
Matrix: (soil/water) WQ Lab Sample ID: A0G070236 008
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00
Work Order: DFV7E101 Date Extracted: 07/17/00
Dilution factor: 2 Date Analyzed: 07/17/00
Moisture %:

Client Sample Id: TB070600 QC Batch: 0200179

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG020105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN48101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-18-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	Q
208-96-8	Acenaphthylene	10	Q
98-86-2	Acetophenone	10	Q
53-96-3	2-Acetylaminofluorene	10	Q
92-67-1	4-Aminobiphenyl	10	Q
62-53-3	Aniline	10	Q
120-12-7	Anthracene	10	Q
56-55-3	Benzo(a)anthracene	10	Q
205-99-2	Benzo(b)fluoranthene	10	Q
207-08-9	Benzo(k)fluoranthene	10	Q
191-24-2	Benzo(ghi)perylene	10	Q
50-32-8	Benzo(a)pyrene	10	Q
100-51-6	Benzyl alcohol	10	Q
111-91-1	bis(2-Chloroethoxy)methane	10	Q
111-44-4	bis(2-Chloroethyl) ether	10	Q
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	Q
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	Q
101-55-3	4-Bromophenyl phenyl ether	10	Q
85-68-7	Butyl benzyl phthalate	10	Q
106-47-8	4-Chloroaniline	10	Q
59-50-7	4-Chloro-3-methylphenol	10	Q
91-58-7	2-Chloronaphthalene	10	Q
95-57-8	2-Chlorophenol	10	Q
7005-72-3	4-Chlorophenyl phenyl ether	10	Q
218-01-9	Chrysene	10	Q
2303-16-4	Diallate	20	Q
53-70-3	Dibenz(a,h)anthracene	10	Q
132-64-9	Dibenzofuran	10	Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN48101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-18-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN48101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-18-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN48101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-18-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		Q
10595-95-6	N-Nitrosomethylethylamine	10		Q
59-89-2	N-Nitrosomorpholine	10		Q
100-75-4	N-Nitropiperidine	10		Q
930-55-2	N-Nitrosopyrrolidine	10		Q
99-55-8	5-Nitro-o-toluidine	10		Q
608-93-5	Pentachlorobenzene	10		Q
76-01-7	Pentachloroethane	50		Q
82-68-8	Pentachloronitrobenzene	10		Q
87-86-5	Pentachlorophenol	10		Q
62-44-2	Phenacetin	10		Q
85-01-8	Phenanthrene	10		Q
108-95-2	Phenol	10		Q
106-50-3	p-Phenylene diamine	10		Q
109-06-8	2-Picoline	10		Q
23950-58-5	Pronamide	10		Q
129-00-0	Pyrene	10		Q
110-86-1	Pyridine	10		Q
94-59-7	Safrole	10		Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10		Q
58-90-2	2,3,4,6-Tetrachlorophenol	10		Q
120-82-1	1,2,4-Trichlorobenzene	10		Q
95-95-4	2,4,5-Trichlorophenol	10		Q
88-06-2	2,4,6-Trichlorophenol	10		Q
99-35-4	1,3,5-Trinitrobenzene	10		Q
86-74-8	Carbazole	10		Q
510-15-6	Chlorobenzilate	10		Q
122-09-8	a,a-Dimethylphenethylamine	50		Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG020105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN48101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-18-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN49101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN49101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN49101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN49101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	<input type="checkbox"/>
10595-95-6	N-Nitrosomethylethylamine	10	<input type="checkbox"/>
59-89-2	N-Nitrosomorpholine	10	<input type="checkbox"/>
100-75-4	N-Nitrosopiperidine	10	<input type="checkbox"/>
930-55-2	N-Nitrosopyrrolidine	10	<input type="checkbox"/>
99-55-8	5-Nitro-o-toluidine	10	<input type="checkbox"/>
608-93-5	Pentachlorobenzene	10	<input type="checkbox"/>
76-01-7	Pentachloroethane	50	<input type="checkbox"/>
82-68-8	Pentachloronitrobenzene	10	<input type="checkbox"/>
87-86-5	Pentachlorophenol	10	<input type="checkbox"/>
62-44-2	Phenacetin	10	<input type="checkbox"/>
85-01-8	Phenanthrene	10	<input type="checkbox"/>
108-95-2	Phenol	10	<input type="checkbox"/>
106-50-3	p-Phenylene diamine	10	<input type="checkbox"/>
109-06-8	2-Picoline	10	<input type="checkbox"/>
23950-58-5	Pronamide	10	<input type="checkbox"/>
129-00-0	Pyrene	10	<input type="checkbox"/>
110-86-1	Pyridine	10	<input type="checkbox"/>
94-59-7	Safrole	10	<input type="checkbox"/>
95-94-3	1,2,4,5-Tetrachlorobenzene	10	<input type="checkbox"/>
58-90-2	2,3,4,6-Tetrachlorophenol	10	<input type="checkbox"/>
120-82-1	1,2,4-Trichlorobenzene	10	<input type="checkbox"/>
95-95-4	2,4,5-Trichlorophenol	10	<input type="checkbox"/>
88-06-2	2,4,6-Trichlorophenol	10	<input type="checkbox"/>
99-35-4	1,3,5-Trinitrobenzene	10	<input type="checkbox"/>
86-74-8	Carbazole	10	<input type="checkbox"/>
510-15-6	Chlorobenzilate	10	<input type="checkbox"/>
122-09-8	a,a-Dimethylphenethylamine	50	<input type="checkbox"/>

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG020105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN49101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4A101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-20-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a,h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4A101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-20-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz (a) anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4A101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-20-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4A101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-20-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4A101

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:

QC Batch: 0188278

Client Sample Id: MPT-G4-GW-20-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4E101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-21-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4E101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-21-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4E101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-21-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4E101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-21-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample Wt/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4E101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-21-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4F101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		□
208-96-8	Acenaphthylene	10		□
98-86-2	Acetophenone	10		□
53-96-3	2-Acetylaminofluorene	10		□
92-67-1	4-Aminobiphenyl	10		□
62-53-3	Aniline	10		□
120-12-7	Anthracene	10		□
56-55-3	Benzo (a) anthracene	10		□
205-99-2	Benzo (b) fluoranthene	10		□
207-08-9	Benzo (k) fluoranthene	10		□
191-24-2	Benzo (ghi) perylene	10		□
50-32-8	Benzo (a) pyrene	10		□
100-51-6	Benzyl alcohol	10		□
111-91-1	bis (2-Chloroethoxy) methane	10		□
111-44-4	bis (2-Chloroethyl) ether	10		□
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		□
117-81-7	bis (2-Ethylhexyl) phthalate	2.9		□
101-55-3	4-Bromophenyl phenyl ether	10		□
85-68-7	Butyl benzyl phthalate	10		□
106-47-8	4-Chloroaniline	10		□
59-50-7	4-Chloro-3-methylphenol	10		□
91-58-7	2-Chloronaphthalene	10		□
95-57-8	2-Chlorophenol	10		□
7005-72-3	4-Chlorophenyl phenyl ether	10		□
218-01-9	Chrysene	10		□
2303-16-4	Diallate	20		□
53-70-3	Dibenz (a, h) anthracene	10		□
132-64-9	Dibenzofuran	10		□

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4F101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4F101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
67-72-1	Hexachloroethane	10		☐
1888-71-7	Hexachloropropene	10		☐
193-39-5	Indeno(1,2,3-cd)pyrene	10		☐
78-59-1	Isophorone	10		☐
120-58-1	Isosafrole	10		☐
91-80-5	Methapyrilene	10		☐
95-53-4	o-Toluidine	10		☐
56-49-5	3-Methylcholanthrene	10		☐
66-27-3	Methyl methanesulfonate	10		☐
91-57-6	2-Methylnaphthalene	10		☐
95-48-7	2-Methylphenol	10		☐
108-39-4	3-Methylphenol	10		☐
106-44-5	4-Methylphenol	10		☐
91-20-3	Naphthalene	10		☐
130-15-4	1,4-Naphthoquinone	10		☐
134-32-7	1-Naphthylamine	10		☐
91-59-8	2-Naphthylamine	10		☐
88-74-4	2-Nitroaniline	25		☐
99-09-2	3-Nitroaniline	25		☐
100-01-6	4-Nitroaniline	25		☐
98-95-3	Nitrobenzene	10		☐
88-75-5	2-Nitrophenol	10		☐
100-02-7	4-Nitrophenol	25		☐
56-57-5	4-Nitroquinoline-1-oxide	10		☐
924-16-3	N-Nitrosodi-n-butylamine	10		☐
55-18-5	N-Nitrosodiethylamine	10		☐
62-75-9	N-Nitrosodimethylamine	10		☐
621-64-7	N-Nitrosodi-n-propylamine	10		☐

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4F101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		□
10595-95-6	N-Nitrosomethylethylamine	10		□
59-89-2	N-Nitrosomorpholine	10		□
100-75-4	N-Nitrosopiperidine	10		□
930-55-2	N-Nitrosopyrrolidine	10		□
99-55-8	5-Nitro-o-toluidine	10		□
608-93-5	Pentachlorobenzene	10		□
76-01-7	Pentachloroethane	50		□
82-68-8	Pentachloronitrobenzene	10		□
87-86-5	Pentachlorophenol	10		□
62-44-2	Phenacetin	10		□
85-01-8	Phenanthrene	10		□
108-95-2	Phenol	10		□
106-50-3	p-Phenylene diamine	10		□
109-06-8	2-Picoline	10		□
23950-58-5	Pronamide	10		□
129-00-0	Pyrene	10		□
110-86-1	Pyridine	10		□
94-59-7	Safrole	10		□
95-94-3	1,2,4,5-Tetrachlorobenzene	10		□
58-90-2	2,3,4,6-Tetrachlorophenol	10		□
120-82-1	1,2,4-Trichlorobenzene	10		□
95-95-4	2,4,5-Trichlorophenol	10		□
88-06-2	2,4,6-Trichlorophenol	10		□
99-35-4	1,3,5-Trinitrobenzene	10		□
86-74-8	Carbazole	10		□
510-15-6	Chlorobenzilate	10		□
122-09-8	a,a-Dimethylphenethylamine	50		□

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4F101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4G101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4G101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample Wt/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4G101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G020105 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4G101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		Q
10595-95-6	N-Nitrosomethylethylamine	10		Q
59-89-2	N-Nitrosomorpholine	10		Q
100-75-4	N-Nitropiperidine	10		Q
930-55-2	N-Nitropyrrolidine	10		Q
99-55-8	5-Nitro-o-toluidine	10		Q
608-93-5	Pentachlorobenzene	10		Q
76-01-7	Pentachloroethane	50		Q
82-68-8	Pentachloronitrobenzene	10		Q
87-86-5	Pentachlorophenol	10		Q
62-44-2	Phenacetin	10		Q
85-01-8	Phenanthrene	10		Q
108-95-2	Phenol	10		Q
106-50-3	p-Phenylene diamine	10		Q
109-06-8	2-Picoline	10		Q
23950-58-5	Pronamide	10		Q
129-00-0	Pyrene	10		Q
110-86-1	Pyridine	10		Q
94-59-7	Safrole	10		Q
95-94-3	1,2,4,5-Tetrachlorobenzene	10		Q
58-90-2	2,3,4,6-Tetrachlorophenol	10		Q
120-82-1	1,2,4-Trichlorobenzene	10		Q
95-95-4	2,4,5-Trichlorophenol	10		Q
88-06-2	2,4,6-Trichlorophenol	10		Q
99-35-4	1,3,5-Trinitrobenzene	10		Q
86-74-8	Carbazole	10		Q
510-15-6	Chlorobenzilate	10		Q
122-09-8	a,a-Dimethylphenethylamine	50		Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG020105 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/01/00

Work Order: DFN4G101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/12/00

Moisture %:

QC Batch: 0188277

Client Sample Id: MPT-G4-GW-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRC7101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2, 2' -Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFR7101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	2.7		J
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFR7101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRC7101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	1.9		J
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRC7101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCA101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-25-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 002

Method: SWB46 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCA101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-25-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCA101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-25-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCA101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-25-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCA101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-25-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCD101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	2.3		J
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCD101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	5.2	J
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCD101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	53	
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCD101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	5.3		J
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCD101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCE101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-27-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	6.1		J
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	1.7		J
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	2.6		J
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCE101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-27-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a) anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	5.5		J
86-73-7	Fluorene	3.4		J
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 004

Method: SWB46 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCE101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-27-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	1.5	J #	
106-44-5	4-Methylphenol	10		U
91-20-3	Naphtthalene	2.9	J	
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G060210 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCE101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-27-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	7.0		J
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	5.3		J
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	20		
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG060210 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/06/00

Work Order: DFRCE101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-27-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV6W101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		□
208-96-8	Acenaphthylene	10		□
98-86-2	Acetophenone	10		□
53-96-3	2-Acetylaminofluorene	10		□
92-67-1	4-Aminobiphenyl	10		□
62-53-3	Aniline	10		□
120-12-7	Anthracene	10		□
56-55-3	Benzo (a) anthracene	10		□
205-99-2	Benzo (b) fluoranthene	10		□
207-08-9	Benzo (k) fluoranthene	10		□
191-24-2	Benzo (ghi) perylene	10		□
50-32-8	Benzo (a) pyrene	10		□
100-51-6	Benzyl alcohol	10		□
111-91-1	bis(2-Chloroethoxy)methane	10		□
111-44-4	bis(2-Chloroethyl) ether	10		□
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		□
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		□
101-55-3	4-Bromophenyl phenyl ether	10		□
85-68-7	Butyl benzyl phthalate	10		□
106-47-8	4-Chloroaniline	10		□
59-50-7	4-Chloro-3-methylphenol	10		□
91-58-7	2-Chloronaphthalene	10		□
95-57-8	2-Chlorophenol	10		□
7005-72-3	4-Chlorophenyl phenyl ether	10		□
218-01-9	Chrysene	10		□
2303-16-4	Diallate	20		□
53-70-3	Dibenz (a, h) anthracene	10		□
132-64-9	Dibenzofuran	10		□

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV6W101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV6W101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	3.9	J
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	2.4	J
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV6W101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV6W101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV75101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	2.1		J
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV75101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz (a) anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV75101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV75101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV75101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV77101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallylate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WG Lab Sample ID: A0G070236 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/07/00
 Work Order: DFV77101 Date Extracted: 07/10/00
 Dilution factor: 1 Date Analyzed: 07/19/00
 Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV77101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-30-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV77101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV77101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV78101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-31-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV78101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-31-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 004.

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV78101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-31-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP016

Matrix: (soil/water) WG

Lab Sample ID:A0G070236 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV78101

Date Extracted:07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-31-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	1.3		J
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV78101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-31-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV79101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-32-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV79101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	0
95-50-1	1,2-Dichlorobenzene	10	0
541-73-1	1,3-Dichlorobenzene	10	0
106-46-7	1,4-Dichlorobenzene	10	0
91-94-1	3,3'-Dichlorobenzidine	10	0
120-83-2	2,4-Dichlorophenol	10	0
87-65-0	2,6-Dichlorophenol	10	0
84-66-2	Diethyl phthalate	10	0
60-11-7	p-Dimethylaminoazobenzene	10	0
57-97-6	7,12-Dimethylbenz(a)anthracene	10	0
119-93-7	3,3'-Dimethylbenzidine	10	0
105-67-9	2,4-Dimethylphenol	10	0
131-11-3	Dimethyl phthalate	10	0
117-84-0	Di-n-octyl phthalate	10	0
99-65-0	1,3-Dinitrobenzene	10	0
534-52-1	4,6-Dinitro-2-methylphenol	25	0
51-28-5	2,4-Dinitrophenol	25	0
121-14-2	2,4-Dinitrotoluene	10	0
606-20-2	2,6-Dinitrotoluene	10	0
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	0
123-91-1	1,4-Dioxane	10	0
122-39-4	Diphenylamine	10	0
62-50-0	Ethyl methanesulfonate	10	0
206-44-0	Fluoranthene	10	0
86-73-7	Fluorene	10	0
118-74-1	Hexachlorobenzene	10	0
87-68-3	Hexachlorobutadiene	10	0
77-47-4	Hexachlorocyclopentadiene	10	0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV79101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-32-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV79101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	□
10595-95-6	N-Nitrosomethylethylamine	10	□
59-89-2	N-Nitrosomorpholine	10	□
100-75-4	N-Nitrosopiperidine	10	□
930-55-2	N-Nitrosopyrrolidine	10	□
99-55-8	5-Nitro-o-toluidine	10	□
608-93-5	Pentachlorobenzene	10	□
76-01-7	Pentachloroethane	50	□
82-68-8	Pentachloronitrobenzene	10	□
87-86-5	Pentachlorophenol	10	□
62-44-2	Phenacetin	10	□
85-01-8	Phenanthrene	10	□
108-95-2	Phenol	10	□
106-50-3	p-Phenylene diamine	10	□
109-06-8	2-Picoline	10	□
23950-58-5	Pronamide	10	□
129-00-0	Pyrene	10	□
110-86-1	Pyridine	10	□
94-59-7	Safrole	10	□
95-94-3	1,2,4,5-Tetrachlorobenzene	10	□
58-90-2	2,3,4,6-Tetrachlorophenol	10	□
120-82-1	1,2,4-Trichlorobenzene	10	□
95-95-4	2,4,5-Trichlorophenol	10	□
88-06-2	2,4,6-Trichlorophenol	10	□
99-35-4	1,3,5-Trinitrobenzene	10	□
86-74-8	Carbazole	10	□
510-15-6	Chlorobenzilate	10	□
122-09-8	a,a-Dimethylphenethylamine	50	□

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV79101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV7D101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-33-

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	2.8	J
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7D101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-33-

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7D101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-33-

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7D101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-33-

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	2.0	J
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7D101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-33-

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7C101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample Wt/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7C101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz (a) anthrace	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: AOG070236 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7C101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	5.3	J
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	3.1	J
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DFV7C101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitropiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WG

Lab Sample ID: A0G070236 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/07/00

Work Order: DfV7C101

Date Extracted: 07/10/00

Dilution factor: 1

Date Analyzed: 07/20/00

Moisture %:

QC Batch: 0190108

Client Sample Id: MPT-G4-GW-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

APPENDIX C

SUPPORT DOCUMENTATION

MP016

HOLDING TIME
08/09/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	CN	06/30/00	07/14/00	07/14/00	14	0	14
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	CN	06/30/00	07/14/00	07/14/00	14	0	14
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	CN	06/30/00	07/13/00	07/14/00	13	1	14
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	CN	07/05/00	07/18/00	07/18/00	13	0	13
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	CN	07/06/00	07/19/00	07/20/00	13	1	14
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	HG	06/30/00	07/11/00	07/11/00	11	0	11
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8
UG/L	TB063005	A0G020105004	TRIP BLANK	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	TB063006	A0G020105005	TRIP BLANK	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	TB070600	A0G070236008	TRIP BLANK	MP016	OV	07/06/00	07/17/00	07/17/00	11	0	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	HG	07/05/00	07/11/00	07/11/00	6	0	6
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	HG	07/06/00	07/11/00	07/11/00	5	0	5
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	M	06/30/00	07/11/00	07/12/00	11	1	12
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	M	07/05/00	07/11/00	07/12/00	6	1	7
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	M	07/06/00	07/11/00	07/12/00	5	1	6
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	OS	06/30/00	07/06/00	07/10/00	6	4	10

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	OS	06/30/00	07/06/00	07/10/00	6	4	10
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	OS	06/30/00	07/06/00	07/10/00	6	4	10
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	OS	06/30/00	07/07/00	07/12/00	7	5	12
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	OS	06/30/00	07/07/00	07/12/00	7	5	12
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	OS	06/30/00	07/07/00	07/12/00	7	5	12
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	OS	07/05/00	07/10/00	07/19/00	5	9	14
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	OS	07/06/00	07/10/00	07/19/00	4	9	13
UG/L	MPT-G4-GW-29-05	A0G070236002	NORMAL	MP016	OS	07/06/00	07/10/00	07/19/00	4	9	13
UG/L	MPT-G4-GW-30-07	A0G070236003	NORMAL	MP016	OS	07/06/00	07/10/00	07/19/00	4	9	13
UG/L	MPT-G4-GW-31-09	A0G070236004	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-32-07	A0G070236005	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-33-	A0G070236007	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-DU02	A0G070236006	NORMAL	MP016	OS	07/06/00	07/10/00	07/20/00	4	10	14
UG/L	MPT-G4-GW-18-09	A0G020105001	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-19-10	A0G020105002	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-20-11	A0G020105003	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-21-08	A0G020105006	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-22-08	A0G020105007	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-23-08	A0G020105008	NORMAL	MP016	OV	06/30/00	07/13/00	07/13/00	13	0	13
UG/L	MPT-G4-GW-24-08	A0G060210001	NORMAL	MP016	OV	07/05/00	07/17/00	07/17/00	12	0	12
UG/L	MPT-G4-GW-25-07	A0G060210002	NORMAL	MP016	OV	07/05/00	07/14/00	07/14/00	9	0	9
UG/L	MPT-G4-GW-26-05	A0G060210003	NORMAL	MP016	OV	07/05/00	07/17/00	07/17/00	12	0	12
UG/L	MPT-G4-GW-27-08	A0G060210004	NORMAL	MP016	OV	07/05/00	07/14/00	07/14/00	9	0	9
UG/L	MPT-G4-GW-28-05	A0G070236001	NORMAL	MP016	OV	07/06/00	07/14/00	07/14/00	8	0	8

Murphy, Elizabeth

From: Engle, Howard
Sent: Tuesday, November 28, 2000 3:42 PM
To: Murphy, Elizabeth
Subject: RE:

From what I can determine the ID should probably be MPT-G4-GW-33-05. But it was logged in as MPT-G4-GW-33-.

W. Howard Engle

-----Original Message-----

From: **Murphy, Elizabeth**
Sent: Tuesday, November 28, 2000 3:06 PM
To: Engle, Howard
Subject: FW:

Howard,
Would you be able to shed some light on the missing information?

Thanks,
Beth

-----Original Message-----

From: Murphy, Elizabeth
Sent: Tuesday, November 28, 2000 3:04 PM
To: Hansen, Terry
Subject:

Hi Terry,
I am working on CTO091 NS MAYPORT, SDG =MP016 . I have a sample number with the last digit(s) missing.
The chain is missing the last digit(s) as well. The sample number is as follows:
MPT-G4-GW-33-
I appreciate any help with this matter.

Thanks,
Beth

SDG NARRATIVE MP016

The following report contains the analytical results for twenty one water samples and two quality control samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received July 1, 6 and 7, 2000, according to documented sample acceptance procedures.

This SDG consists of three (3) laboratory ID's: A0G020105, A0G060210 and A0G070236.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 0.9, 0.9, 1.0, 1.3, 2.2 and 3.4° C.

(See STL's Cooler Receipt Form for additional information.)

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: TETRA TECH Project: _____ Quote#: _____
 Cooler Received on: 7/1/00 Opened on: 7/1/00 by: [Signature]
 Fedx Client Drop Off UPS Airborne
 Other: _____

Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: SOL BACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location OVERLID
 Were the custody seals signed and dated? Yes No NA
2. Shipper's packing slip attached to this form? Yes No
3. Were custody papers included inside the cooler and relinquished? Yes No
4. Did you sign the custody papers in the appropriate place? Yes No

5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 -6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

7. Were all the bottles sealed in separate plastic bags? Yes No
8. Did all bottles arrive in good condition (Unbroken)? Yes No
9. Did all bottle labels and tags agree with the custody papers? Yes No
10. Were samples at the correct pH? Yes No NA
11. Were correct bottles used for the tests indicated? Yes No NA
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a sufficient amount of sample sent in each bottle? Yes No

Contacted PM DJP Date: 7-2-00 by: TB via Voice Mail Verbal Other
 Concerning: anomalies

MACRO | MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred <u>Received 4 liter sample ID# MP1-8-GW-095-02 NOT ON COC, ALSO RECEIVED 5 FRIG VIALS W/SAME ID AS ABOVE. THEY ARE ALSO NOT ON THE COC.</u>

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

NCM

SR4A	NCM has been generated. Refer to Clouseau for details
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Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativist\cooler_stl.doc

COOLER RECEIPT FORM/NARRATIVE

North Canton Facility

Client: PCMA TELH
Cooler Received on: 7/6/00

Project: _____
Opened on: 7/6/00

Quote#: _____
by: [Signature]
(Signature)

Fedx Client Drop Off UPS Airborne
Other: _____

Cooler Safe Foam Box Client Cooler Other: _____
STL Shipper No#: J 652

- 1. Were custody seals on the outside of the cooler and intact? Yes No
If YES, Quantity 1 Location outside
- Were the custody seals signed and dated? Yes No NA
- 2. Shipper's packing slip attached to this form? Yes No
- Were custody papers included inside the cooler and relinquished? Yes No
- Did you sign the custody papers in the appropriate place? Yes No

Packing material used:
 peanuts Bubble Wrap Vermiculite Foam None Other: _____
 Cooler temperature upon receipt 1.3 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 Were all the bottles sealed in separate plastic bags? Yes No
 Did all bottles arrive in good condition (Unbroken)? Yes No
 Did all bottle labels and tags agree with the custody papers? Yes No
 3. Were samples at the correct pH? Yes No NA
 Were correct bottles used for the tests indicated? Yes No NA
 Were air bubbles >6 mm in any VOA vials? Yes No NA
 Was a sufficient amount of sample sent in each bottle? Yes No NA
 Contacted PM DSP Date: 7-6-00 by: [Signature] via Voice Mail Verbal Other
 Concerning: FB

MACRO: _____

CHAIN OF CUSTODY	
SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred: <u>FB record, not on COC. Log in. JAS 7-6-00</u> <u>OK per DSP.</u>

SAMPLE CONDITION	
SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

SAMPLE PRESERVATION	
SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

VCM
 SR4A | NCM has been generated. Refer to Clouseau for details
 Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
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STL Cooler Receipt Form/Narrative

North Canton Facility

Client: KEFRA TECH Project: _____ Quote#: _____
 Cooler Received on: 7/7/00 Opened on: 7/7/00 by: _____

Fedx Client Drop Off UPS Airborne

(Signature)

Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: See BACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location OVERLID
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt See BACK °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No NA
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning: MACRO | MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

SR4A	NCM has been generated. Refer to Clouseau for details
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i. Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativestlcooler_stl.doc



PROJECT NO: NO123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterna					
SAMPLERS (SIGNATURE) Thomas Thompson Chad Walker		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom. Thompson 901-281-0400				ADDRESS 4101 Shuffel Dr NW							
		CARRIER/WAYBILL NUMBER Fed Ex 1923 4956 6382 1923 4956 6393 (11)				CITY, STATE N. Canton, OH 44720							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		HCl		HNO3		NaOH	
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS			
6/30	0751	MPT-G4-SU-18-08	S	G	5	X	X	X	X				Cool to 4°C
	0825	MPT-G4-GW-18-09	GW		7	X	X	X	X				
	0915	MPT-G4-SU-19-10	S		5	X	X	X	X				
	0945	MPT-G4-SU-GW-19-10	GW		7	X	X	X	X				
	1045	MPT-G4-SU-20-10	S		5	X	X	X	X				
	1115	MPT-G4-GW-20-11	GW		7	X	X	X	X				
		TB063005	W		2	X	X	X	X				
		TB063006	W		2	X							
	1255	MPT-G4-SU-21-07	S		5	X	X	X	X				
	1340	MPT-G4-GW-21-08	GW		7	X	X	X	X				
	1330	MPT-G4-SU-22-08	S		5	X	X	X	X				
	1430	MPT-G4-GW-22-08	GW		7	X	X	X	X				
	1400	MPT-G4-SU-23-08	S		5	X	X	X	X				
1. RELINQUISHED BY Thomas Thompson		DATE 6-30-00	TIME 1800	1. RECEIVED BY Terry Hansen		DATE 7/1/00	TIME 10:30						
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME						
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME						
COMMENTS Cooler ID #s: 063007/063008													



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra									
SAMPLERS (SIGNATURE) 				FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson				ADDRESS									
				CARRIER/WAYBILL NUMBER 7923 4956 6382 Fed Ex 7923 4956 6393 (T)				CITY, STATE									
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED									
				MATRIX				TYPE OF ANALYSIS									
								GRAB (G) COMP (C)				No. OF CONTAINERS					
DATE YEAR		TIME		SAMPLE ID		MATRIX		GRAB (G) COMP (C)		No. OF CONTAINERS		TYPE OF ANALYSIS		PRESERVATIVE USED		COMMENTS	
6/30		1530		MPT-G4-GW-23-08		GW		G		7		X X X X		HCl - HNO3 NaOH		Cool to 4°C	
1. RELINQUISHED BY				DATE 6.30.00		TIME 1800		1. RECEIVED BY				DATE 7/1/00		TIME 10/30			
2. RELINQUISHED BY				DATE		TIME		2. RECEIVED BY				DATE		TIME			
3. RELINQUISHED BY				DATE		TIME		3. RECEIVED BY				DATE		TIME			
COMMENTS																	



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 070508

PAGE 1 OF 1

PROJECT NO: NO123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) <i>Bern Thompson</i> <i>Chad Wall</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson				ADDRESS 4101 Shuffel Dr NW							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 7923 5025 4970				CITY, STATE N. Canton, OH							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)				COMMENTS			
						PRESERVATIVE USED							
						TYPE OF ANALYSIS							
						VOC	SVOC	TAL Metals + Tin	Cyanide	HCl	HNO3	NaOH	
7-5	1138	MPT-G4-SU-24-08	S	G	5	X	X	X	X				Cool to 4°C
7-5	1217	MPT-G4-GW-24-08	GW		7	X	X	X	X				
7-5	1305	MPT-G4-SU-25-05	S		5	X	X	X	X				
7-5	1335	MPT-G4-GW-25-07	GW		7	X	X	X	X				
7-5	1420	MPT-G4-SU-26-05	S		5	X	X	X	X				
7-5	1455	MPT-G4-GW-26-05	GW		7	X	X	X	X				
7-5	1550	MPT-G4-SU-27-07	S		5	X	X	X	X				
7-5	1620	MPT-G4-GW-27-08	GW		7	X	X	X	X				
1. RELINQUISHED BY <i>Chad Wall</i>		DATE 7/5/00	TIME 7:00	1. RECEIVED BY				DATE	TIME				
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY <i>Terry Hansen</i>				DATE 7/6/00	TIME 9:00				
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME				
COMMENTS													

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

3/99
FORM NO. TINUS-001



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER 7908 5834 7777 Fed Ex 1923 5025 5016				CITY, STATE N. Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						CONTAINER TYPE PLASTIC (P) or GLASS (G)					
						PRESERVATIVE USED					
						TYPE OF ANALYSIS					
						HCl					
						HNO3					
						NaOH					
						TAL Metals + Tin					
						Cyanide					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TOL VOC	TOL SVOC	TAL Metals + Tin	Cyanide		COMMENTS
7-6		MPT-G4-SU-27	S	G	5	X	X	X	X		Cool to 4°C
		MPT-G4-GW-27	GW		7	X	X	X	X		
7-6	0815	MPT-G4-SU-28-05	S		5	X	X	X	X		
	0845	MPT-G4-GW-28-05	GW		7	X	X	X	X		
	0928	MPT-G4-SU-29-05	S		5	X	X	X	X		
	1000	MPT-G4-GW-29-05	GW		7	X	X	X	X		
	1100	MPT-G4-SU-30-07	S		5	X	X	X	X		
	1125	MPT-G4-GW-30-07	GW		7	X	X	X	X		
	1330	MPT-G4-SU-31-08	S		5	X	X	X	X		
	1420	MPT-G4-GW-31-09	GW		7	X	X	X	X		
	1450	MPT-G4-SU-32-07	S		5	X	X	X	X		
	1510	MPT-G4-GW-32-07	GW		7	X	X	X	X		
	0900	MPT-G4-SU-DUO2	S		5	X	X	X	X		
1. RELINQUISHED BY 			DATE 7-6-00	TIME 1900	1. RECEIVED BY 			DATE	TIME		
2. RELINQUISHED BY			DATE	TIME	2. RECEIVED BY 			DATE 7/7/00	TIME 9:15		
3. RELINQUISHED BY			DATE	TIME	3. RECEIVED BY			DATE	TIME		
COMMENTS 2 Coolers ID#s 070609-1 & 070609-2. See FedEx Tracking#s above also.											

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen			LABORATORY NAME AND CONTACT: Quanterra						
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400			ADDRESS 4101 Shuffel Dr NW								
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex			CITY, STATE N Canton, OH								
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)					COMMENTS		
						PRESERVATIVE USED							
						TYPE OF ANALYSIS							
						TEL vac	TEL SUBC	TAL Metals + Tin	Cyanide	HCl	HNO3	NaOH	
7/6	0000	MPT-G4-GW-DU02	GW		7	X	X	X	X				Cool to 4°C
	1540	MPT-G4-SU-33-05	S		5	X	X	X	X				
	1610	MPT-G4-GW-33-05	GW		7	X	X	X	X				
		TB070600	W			X							
1. RELINQUISHED BY 			DATE 7-6-00	TIME 1400	1. RECEIVED BY			DATE	TIME				
2. RELINQUISHED BY			DATE	TIME	2. RECEIVED BY 			DATE 7/7/00	TIME 915				
3. RELINQUISHED BY			DATE	TIME	3. RECEIVED BY			DATE	TIME				
COMMENTS													

SDG NARRATIVE

MP016

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

The reporting limit is lower than our standard reporting limit (SRL) but is supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support this value. The continuing calibration blanks and method blanks may not support the lower RL.

Acid preservation causes 2-Chloroethyl vinyl ether to decompose. When detected, the concentration found will be reported; however, a true reporting limit cannot be reported when the compound is not detected.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The initial calibration check on instrument ux7 on July 14, 2000 was outside acceptable limits for 2-Hexanone. This is probably due to poor purge efficiency and the initial calibration is accepted.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGAPR101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: ux74395.d

Lot Number: A0G060210

Date Analyzed: 07/14/00

Time Analyzed: 14:53

Matrix: WATER

Date Extracted:07/14/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-25-07	DFRCA10V	ux74400.d	07/14/00	17:06
02	MPT-G4-GW-27-08	DFRCE10V	ux74402.d	07/14/00	17:59
03	TRIP BLANK	DFRDJ101	ux74403.d	07/14/00	18:25
04	INTRA-LAB QC	DFV6W12L	ux74404.d	07/14/00	18:52
05	LAB MS/MSD	DFV6W12M S	ux74405.d	07/14/00	19:18
06	LAB MS/MSD	DFV6W12N D	ux74406.d	07/14/00	19:45
07	CHECK SAMPLE	DGAPR102 C	ux74394.d	07/14/00	14:26
08					
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COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGAPR101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: ux74395.d

Lot Number: A0G070236

Date Analyzed: 07/14/00

Time Analyzed: 14:53

Matrix: WATER

Date Extracted:07/14/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-28-05	DFV6W12L	ux74404.d	07/14/00	18:52
02	MPT-G4-GW-28-05	DFV6W12M S	ux74405.d	07/14/00	19:18
03	MPT-G4-GW-28-05	DFV6W12N D	ux74406.d	07/14/00	19:45
04	MPT-G4-GW-DU02	DFV7C10V	ux74411.d	07/14/00	21:57
05	MPT-G4-GW-33-	DFV7D10V	ux74412.d	07/14/00	22:23
06	MPT-G4-GW-29-05	DFV7510V	ux74407.d	07/14/00	20:11
07	MPT-G4-GW-30-07	DFV7710V	ux74408.d	07/14/00	20:38
08	MPT-G4-GW-31-09	DFV7810V	ux74409.d	07/14/00	21:04
09	MPT-G4-GW-32-07	DFV7910V	ux74410.d	07/14/00	21:31
10	CHECK SAMPLE	DGAPR102 C	ux74394.d	07/14/00	14:26
11					
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WATER Lab Sample ID: A0G170000 127

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00
Work Order: DGAPR101 Date Extracted: 07/14/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %: NA

QC Batch: 0199127

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.079	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WATER

Lab Sample ID: AOG170000 127

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DGAPR101

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0199127

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.44	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.073	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP016

Matrix: (soil/water) WATER

Lab Sample ID: AOG170000 127

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DGAPR101

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0199127

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	0
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGD64101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: ux74422.d

Lot Number: A0G060210

Date Analyzed: 07/17/00

Time Analyzed: 10:04

Matrix: WATER

Date Extracted:07/17/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-26-05	DFRCD10V	ux74424.d	07/17/00	10:57
02	MPT-G4-GW-24-08	DFRC710V	ux74423.d	07/17/00	10:30
03	CHECK SAMPLE	DGD64102 C	ux74421.d	07/17/00	09:37
04	INTRA-LAB QC	DG2M412L	ux74440.d	07/17/00	18:04
05	LAB MS/MSD	DG2M412M S	ux74441.d	07/17/00	18:31
06	LAB MS/MSD	DG2M412N D	ux74442.d	07/17/00	18:58
07					
08					
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COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGD64101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: ux74422.d

Lot Number: A0G070236

Date Analyzed: 07/17/00

Time Analyzed: 10:04

Matrix: WATER

Date Extracted:07/17/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TB070600	DFV7E101	ux74425.d	07/17/00	11:23
02	CHECK SAMPLE	DGD64102 C	ux74421.d	07/17/00	09:37
03	INTRA-LAB QC	DG2M412L	ux74440.d	07/17/00	18:04
04	LAB MS/MSD	DG2M412M S	ux74441.d	07/17/00	18:31
05	LAB MS/MSD	DG2M412N D	ux74442.d	07/17/00	18:58
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WATER Lab Sample ID: AOG180000 179
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/12/00
Work Order: DGD64101 Date Extracted: 07/17/00
Dilution factor: 1 Date Analyzed: 07/17/00
Moisture %: NA

QC Batch: 0200179

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.4	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WATER Lab Sample ID: A0G180000 179
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/12/00
Work Order: DGD64101 Date Extracted: 07/17/00
Dilution factor: 1 Date Analyzed: 07/17/00
Moisture %: NA

QC Batch: 0200179

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.19	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.043	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016
Matrix: (soil/water) WATER Lab Sample ID: AOG180000 179
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/12/00
Work Order: DGD64101 Date Extracted: 07/17/00
Dilution factor: 1 Date Analyzed: 07/17/00
Moisture %: NA

QC Batch: 0200179

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

SW846 8260B METHOD BLANK SUMMARY

DG710101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: ux93605.d

Lot Number: AOG020105

Date Analyzed: 07/13/00

Time Analyzed: 09:28

Matrix: WATER

Date Extracted:07/13/00

GC Column: DB 624 ID: .18

Extraction Method: 5030B/8260B

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-20-11	DFN4A10V	ux93608.d	07/13/00	10:47
02	TE063005	DFN4C101	ux93609.d	07/13/00	11:11
03	TE063006	DFN4D101	ux93610.d	07/13/00	11:34
04	MPT-G4-GW-21-08	DFN4E10V	ux93611.d	07/13/00	11:58
05	MPT-G4-GW-22-08	DFN4F10V	ux93612.d	07/13/00	12:21
06	MPT-G4-GW-23-08	DFN4G10V	ux93613.d	07/13/00	12:44
07	TRIP BLANK	DFN4J101	ux93614.d	07/13/00	13:07
08	MPT-G4-GW-18-09	DFN4810V	ux93606.d	07/13/00	09:51
09	MPT-G4-GW-18-09	DFN4810W S	ux93615.d	07/13/00	13:30
10	MPT-G4-GW-18-09	DFN4810X D	ux93616.d	07/13/00	13:55
11	MPT-G4-GW-19-10	DFN4910V	ux93607.d	07/13/00	10:25
12	CHECK SAMPLE	DG710102 C	ux93603.d	07/13/00	08:42
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WATER Lab Sample ID: AOG140000 151
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
Work Order: DG710101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %: NA

QC Batch: 0196151

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016

Matrix: (soil/water) WATER Lab Sample ID: A0G140000 151
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
Work Order: DG710101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %: NA

QC Batch: 0196151

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.13	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.041	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP016
Matrix: (soil/water) WATER Lab Sample ID: A0G140000 151
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/01/00
Work Order: DG710101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/13/00
Moisture %: NA

QC Batch: 0196151

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP016

Lab File ID: BFB120 BFB Injection Date: 07/12/00

Instrument ID: A3UX9 BFB Injection Time: 0856

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.6
75	30.0 - 60.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.2 (0.4)1
174	50.0 - 120.0% of mass 95	62.0
175	5.0 - 9.0% of mass 174	4.8 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	59.2 (95.5)1
177	5.0 - 9.0% of mass 176	3.6 (6.0)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-A9IC	UX93564	07/12/00	1110
02	VSTD020	100NG-A9IC	UX93565	07/12/00	1135
03	VSTD010	50NG-A9IC	UX93566	07/12/00	1159
04	VSTD005	25NG-A9IC	UX93567	07/12/00	1223
05	VSTD001	5NG-A9IC	UX93568	07/12/00	1248
06	VSTD040	200NG-IC	UX93569	07/12/00	1312
07	VSTD020	100NG-IC	UX93570	07/12/00	1336
08	VSTD010	50NG-IC	UX93571	07/12/00	1400
09	VSTD005	25NG-IC	UX93572	07/12/00	1424
10	VSTD001	5NG-IC	UX93573	07/12/00	1449
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 11:10
 End Cal Date : 12-JUL-2000 14:49
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00712A.b/8260LLUX9.m
 Cal Date : 12-Jul-2000 15:00 laveyt
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux9.i/N00712A.b/ux93573.d
 Level 2: /chem/can/msv/a3ux9.i/N00712A.b/ux93572.d
 Level 3: /chem/can/msv/a3ux9.i/N00712A.b/ux93571.d
 Level 4: /chem/can/msv/a3ux9.i/N00712A.b/ux93570.d
 Level 5: /chem/can/msv/a3ux9.i/N00712A.b/ux93569.d

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRP	% RSD
8 Dichlorodifluoromethane	0.14229	0.13844	0.12147	0.14311	0.14102	0.13727	6.561
9 Chloromethane	0.74785	0.63848	0.65397	0.65927	0.65306	0.67053	6.548
10 Vinyl Chloride	0.44815	0.41788	0.40015	0.40451	0.39622	0.41338	5.100
11 Bromomethane	0.14508	0.11986	0.12557	0.11268	0.10403	0.12145	12.744
12 Chloroethane	0.23687	0.20809	0.20988	0.20349	0.19147	0.20996	7.939
13 Trichlorofluoromethane	0.28477	0.25986	0.23464	0.24697	0.24606	0.25446	7.527
14 Dichlorofluoromethane	0.36218	0.36820	0.34226	0.35862	0.37417	0.36108	3.345
15 Acrolein	0.06165	0.05491	0.05663	0.05668	0.05613	0.05720	4.527
16 Acetone	0.38320	0.17736	0.15753	0.13925	0.13156	0.19778	53.166
17 1,1-Dichloroethene	0.19605	0.17451	0.18607	0.18880	0.18454	0.18600	4.191
18 Freon-113	0.10241	0.10097	0.10280	0.12388	0.11829	0.10967	9.688
19 Iodomethane	0.31281	0.27652	0.28219	0.28773	0.28033	0.28792	5.034
20 Carbon Disulfide	0.65806	0.59856	0.59425	0.62481	0.59974	0.61509	4.366
21 Methylene Chloride	0.31218	0.23270	0.20712	0.21534	0.20737	0.23494	18.903
22 Acetonitrile	0.06256	0.05054	0.05321	0.05213	0.04972	0.05363	9.647
23 Acrylonitrile	0.23555	0.21360	0.21014	0.21363	0.20754	0.21609	5.172
24 Methyl tert-butyl ether	0.61668	0.57587	0.56494	0.59946	0.56583	0.58456	3.887
25 trans-1,2-Dichloroethene	0.26555	0.21763	0.20753	0.22591	0.21826	0.22698	9.927
26 Hexane	0.04498	0.03472	0.04337	0.04515	0.04042	0.04173	10.435
27 Vinyl acetate	0.66872	0.71220	0.70391	0.77282	0.76967	0.72547	6.187
28 1,1-Dichloroethane	0.74503	0.65374	0.62257	0.67342	0.63912	0.66677	7.137
29 tert-Butyl Alcohol	0.04111	0.03092	0.02798	0.02711	0.02488	0.03040	20.948
30 2-Butanone	0.35349	0.23410	0.21819	0.20893	0.19912	0.24277	26.043
M 31 1,2-Dichloroethene (total)	0.24197	0.22110	0.21761	0.23245	0.22313	0.22725	4.354
32 cis-1,2-dichloroethene	0.21839	0.22456	0.22769	0.23899	0.22799	0.22752	3.289
33 2,2-Dichloropropane	0.30036	0.25185	0.26423	0.28677	0.26457	0.27356	7.154

79% 5105

RRSD (12-30) 0.0652 (100)
 = 0.2427
 = 26.04

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 11:10
 End Cal Date : 12-JUL-2000 14:49
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00712A.b/8260LLUX9.m
 Cal Date : 12-Jul-2000 15:00 laveyt
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.12553	0.10854	0.10605	0.11267	0.10929	0.11242	6.854
35 Chloroform	0.38712	0.34707	0.34180	0.36510	0.34631	0.35748	5.262
36 Tetrahydrofuran	0.15557	0.11891	0.11464	0.11666	0.11238	0.12363	14.575
37 1,1,1-Trichloroethane	0.35285	0.31254	0.30734	0.32775	0.30782	0.32166	6.000
38 1,1-Dichloropropene	0.30572	0.26585	0.25544	0.28427	0.26735	0.27573	7.143
39 Carbon Tetrachloride	0.25638	0.24550	0.24163	0.25086	0.24773	0.24842	2.246
40 1,2-Dichloroethane	0.56482	0.49140	0.49500	0.50804	0.49216	0.51029	6.118
41 Benzene	0.90322	0.83444	0.80880	0.86136	0.82405	0.84637	4.385
42 Trichloroethene	0.23851	0.22970	0.23442	0.23854	0.23637	0.23551	1.559
43 1,2-Dichloropropane	0.39182	0.38229	0.34744	0.36893	0.36158	0.37041	4.690
44 1,4-Dioxane	0.00300	0.00196	0.00188	0.00167	0.00115	0.00193	34.878
45 Dibromomethane	0.11108	0.10806	0.10810	0.11265	0.10597	0.10917	2.440
46 Bromodichloromethane	0.28363	0.25129	0.24545	0.26162	0.25373	0.25914	5.737
47 2-Chloroethyl vinyl ether	0.21629	0.20079	0.20474	0.21258	0.20586	0.20805	3.011
48 cis-1,3-Dichloropropene	0.29935	0.29368	0.30597	0.33288	0.32152	0.31068	5.215
49 4-Methyl-2-pentanone	0.46194	0.36715	0.37154	0.38948	0.36850	0.39172	10.281
50 Toluene	1.32262	1.23309	1.16661	1.25862	1.23988	1.24417	4.497
51 trans-1,3-Dichloropropene	0.40150	0.38755	0.36693	0.39580	0.39188	0.38874	3.402
52 Ethyl Methacrylate	0.32074	0.28436	0.27460	0.29974	0.30895	0.29768	6.225
53 1,1,2-Trichloroethane	0.25069	0.22982	0.21841	0.23222	0.22005	0.23024	5.606
54 1,3-Dichloropropane	0.45161	0.42910	0.38727	0.41433	0.39668	0.41580	6.181
55 Tetrachloroethene	0.22379	0.19659	0.18615	0.18994	0.18479	0.19626	8.184
56 2-Hexanone	0.40225	0.38063	0.34805	0.34940	0.34355	0.36478	7.020
57 Dibromochloromethane	0.22763	0.22899	0.21923	0.24864	0.24381	0.23366	5.214
58 1,2-Dibromoethane	0.24656	0.24431	0.22245	0.24399	0.23738	0.23894	4.116
59 Chlorobenzene	0.97680	0.88078	0.84009	0.88544	0.85517	0.88766	5.992
60 1,1,1,2-Tetrachloroethane	0.26445	0.25992	0.25903	0.27105	0.26620	0.26413	1.855
61 Ethylbenzene	0.52034	0.48432	0.44254	0.47217	0.47145	0.47816	5.885
62 m + p-Xylene	0.55108	0.61252	0.55191	0.60657	0.58858	0.60213	6.005
63 Xylenes (total)	0.63221	0.59989	0.55218	0.60005	0.58255	0.59338	4.920
64 Xylene-o	0.59446	0.57463	0.55272	0.58702	0.57049	0.57587	2.795
65 Styrene	0.93148	0.90627	0.90594	0.97380	0.95408	0.93431	3.188
66 Bromoform	0.08302	0.09254	0.10468	0.10893	0.11393	0.10062	12.551

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 11:10
 End Cal Date : 12-JUL-2000 14:49
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00712A.b/8260LLUX9.m
 Cal Date : 12-Jul-2000 15:00 laveyt
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
67 Isopropylbenzene	1.55167	1.44647	1.38192	1.45839	1.47161	1.46201	4.161
68 1,1,2,2-Tetrachloroethane	0.58618	0.52461	0.50541	0.53783	0.51701	0.53421	5.869
69 1,4-Dichloro-2-butene	0.37871	0.40512	0.41323	0.43887	0.41559	0.41030	5.280
70 1,2,3-Trichloropropane	0.22260	0.21406	0.18008	0.20736	0.19632	0.20408	8.087
71 Bromobenzene	0.66927	0.62178	0.60345	0.64304	0.61907	0.63132	4.035
72 n-Propylbenzene	1.06157	0.95427	0.81154	0.92598	0.88084	0.90684	10.581
73 2-Chlorotoluene	0.74516	0.74665	0.72188	0.77049	0.73189	0.74321	2.465
74 1,3,5-Trimethylbenzene	2.71376	2.47759	2.42315	2.65684	2.62666	2.57960	4.790
75 4-Chlorotoluene	0.83131	0.80199	0.73061	0.80294	0.76762	0.78689	4.921
76 tert-Butylbenzene	2.87745	2.17539	2.21411	2.39033	2.34307	2.40007	11.716
77 1,2,4-Trimethylbenzene	2.87352	2.52925	2.53614	2.70175	2.72312	2.67276	5.388
78 sec-Butylbenzene	3.48504	3.04448	2.96608	3.23279	3.25796	3.19728	6.344
79 4-Isopropyltoluene	3.09651	2.79951	2.64781	2.91670	2.82242	2.85659	5.784
80 1,3-Dichlorobenzene	1.52663	1.27193	1.19785	1.29519	1.24805	1.30793	9.746
81 1,4-Dichlorobenzene	1.48385	1.33395	1.21251	1.29406	1.26238	1.31735	7.830
82 n-Butylbenzene	2.46791	2.29748	2.25285	2.49759	2.41199	2.38557	4.466
83 1,2-Dichlorobenzene	1.31612	1.21778	1.15051	1.21258	1.20321	1.22004	4.919
84 1,2-Dibromo-3-chloropropane	0.07782	0.08762	0.08842	0.10428	0.10387	0.09241	12.381
85 1,2,4-Trichlorobenzene	1.01922	0.86897	0.82272	0.89585	0.87575	0.89650	8.215
86 Hexachlorobutadiene	0.38148	0.33909	0.29207	0.34753	0.32649	0.33733	9.631
87 Naphthalene	2.76619	2.46551	2.36881	2.61147	2.51260	2.54492	5.951
88 1,2,3-Trichlorobenzene	0.97361	0.80339	0.79244	0.84414	0.78682	0.84008	9.278
89 Ethyl Ether	0.45273	0.40565	0.41991	0.41256	0.38327	0.41483	6.084
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.10701	0.10909	0.10499	0.10643	0.10612	0.10673	1.415
92 Isopropyl Ether	0.21447	0.20036	0.19399	0.19638	0.19775	0.20059	4.036
93 2-Chloro-1,3-butadiene	0.96643	0.80436	0.73008	0.75982	0.79921	0.81198	11.271
94 Propionitrile	0.08368	0.06646	0.06543	0.06858	0.05622	0.06807	14.577
95 Ethyl Acetate	0.40709	0.36452	0.34637	0.36663	0.31151	0.35923	9.659
96 Methacrylonitrile	0.28213	0.25520	0.23978	0.25038	0.20738	0.24697	10.968
97 Isobutanol	0.01150	0.00988	0.00944	0.00971	0.00827	0.00976	11.859 <-
98 Cyclohexane	0.86468	0.81756	0.83497	0.93994	0.89723	0.87087	5.635
99 n-Butanol	0.01689	0.01207	0.01100	0.01118	0.00875	0.01198	25.082 <-

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 11:10
 End Cal Date : 12-JUL-2000 14:49
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00712A.b/8260LLUX9.m
 Cal Date : 12-Jul-2000 15:00 laveyt
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000	RRF	† RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
100 Methyl Methacrylate	0.34804	0.30563	0.30607	0.32387	0.28097	0.31292	7.948
101 2-Nitropropane	0.04348	0.04553	0.04380	0.05009	0.04295	0.04517	6.452
102 Chloropicrin	++++	++++	++++	++++	++++	++++	++++ <-
103 Cyclohexanone	0.07900	0.06506	0.06510	0.06762	0.05111	0.06558	15.135
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++ <-
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++ <-
134 Thiophene	++++	++++	++++	++++	++++	++++	++++ <-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	++++ <-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	++++ <-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	++++ <-
138 Paraldehyde	++++	++++	++++	++++	++++	++++	++++ <-
139 3,3,5-Trimethylcyclohexanone	0.14108	0.11966	0.13249	0.15064	0.12074	0.13292	9.987
140 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++ <-
141 1,3,5-Trichlorobenzene	1.02476	0.86708	0.89318	0.91012	0.89969	0.91897	6.664
143 Methyl Acetate	0.49661	0.39657	0.38360	0.37420	0.36481	0.40316	13.281
144 Methylcyclohexane	0.34698	0.30525	0.31733	0.34557	0.32265	0.32756	5.563
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++ <-
\$ 4 Dibromofluoromethane	0.19406	0.17022	0.17447	0.18494	0.17921	0.18058	5.160
\$ 5 1,2-Dichloroethane-d4	0.39147	0.32974	0.33777	0.35897	0.33789	0.35117	7.119
\$ 6 Toluene-d8	1.14065	1.04652	1.02478	1.06392	1.06727	1.06863	4.085
\$ 7 Bromofluorobenzene	0.41541	0.41616	0.40719	0.41988	0.41093	0.41391	1.190

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP016

Lab File ID: BFB122 BFB Injection Date: 07/13/00

Instrument ID: A3UX9 BFB Injection Time: 0744

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	34.2
75	30.0 - 60.0% of mass 95	44.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.7 (1.0)1
174	50.0 - 120.0% of mass 95	64.5
175	5.0 - 9.0% of mass 174	3.9 (6.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	63.7 (98.7)1
177	5.0 - 9.0% of mass 176	3.5 (5.5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX93601	07/13/00	0756
02	VSTD010	50NG-A9CC	UX93602	07/13/00	0819
03	DG710-CHK	DG710102	UX93603	07/13/00	0842
04	DG710-BLK	DG710101	UX93605	07/13/00	0928
05	MPT-G4-GW-18	DFN4810V	UX93606	07/13/00	0951
06	MPT-G4-GW-19	DFN4910V	UX93607	07/13/00	1025
07	MPT-G4-GW-20	DFN4A10V	UX93608	07/13/00	1047
08	TB063005	DFN4C101	UX93609	07/13/00	1111
09	TB063006	DFN4D101	UX93610	07/13/00	1134
10	MPT-G4-GW-21	DFN4E10V	UX93611	07/13/00	1158
11	MPT-G4-GW-22	DFN4F10V	UX93612	07/13/00	1221
12	MPT-G4-GW-23	DFN4G10V	UX93613	07/13/00	1244
13	TRIP-BLANK	DFN4J101	UX93614	07/13/00	1307
14	MPT-G4-GW-18	DFN4810W	UX93615	07/13/00	1330
15	MPT-G4-GW-18	DFN4810X	UX93616	07/13/00	1355
16					
17					
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21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 13-JUL-2000 07:56
 Lab File ID: ux93601.d Init. Cal. Date(s): 12-JUL-2000 12-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 11:10 14:49
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00713A.b/8260LLUX9.m

COMPOUND	RRF / AMOUNT		RF50	MIN			MAX			CURVE TYPE
	RRF	AMOUNT		RRF	%D	%DRIFT	%D	%DRIFT		
\$ 4 Dibromofluoromethane	0.18058		0.17363	0.010		3.8		50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.35117		0.33159	0.010		5.6		50.0	Averaged	
\$ 6 Toluene-d8	1.06863		0.99887	0.010		6.5		50.0	Averaged	
\$ 7 Bromofluorobenzene	0.41391		0.39084	0.010		5.6		50.0	Averaged	
8 Dichlorodifluoromethane	0.13727		0.15172	0.010		-10.5		50.0	Averaged	
9 Chloromethane	0.67053		0.70908	0.100		-5.8		50.0	Averaged	
10 Vinyl Chloride	0.41338		0.39253	0.010		5.0		20.0	Averaged	
11 Bromomethane	0.12144		0.11561	0.010		4.8		50.0	Averaged	
12 Chloroethane	0.20996		0.20083	0.010		4.3		50.0	Averaged	
13 Trichlorofluoromethane	0.25446		0.26203	0.010		-3.0		50.0	Averaged	
15 Acrolein	0.05720		0.03728	0.010		34.8		50.0	Averaged	
16 Acetone	0.19778		0.13324	0.010		32.6		50.0	Averaged	
17 1,1-Dichloroethene	0.18600		0.19476	0.010		-4.7		20.0	Averaged	
18 Freon-113	0.10967		0.13242	0.010		-20.7		50.0	Averaged	
19 Iodomethane	0.28792		0.29261	0.010		-1.6		50.0	Averaged	
20 Carbon Disulfide	0.61508		0.64396	0.010		-4.7		50.0	Averaged	
21 Methylene Chloride	0.23494		0.21433	0.010		8.8		50.0	Averaged	
22 Acetonitrile	0.05363		0.04520	0.010		15.7		50.0	Averaged	
23 Acrylonitrile	0.21609		0.16516	0.010		23.6		50.0	Averaged	
24 Methyl tert-butyl ether	0.58455		0.48830	0.010		16.5		50.0	Averaged	
25 trans-1,2-Dichloroethene	0.22698		0.22185	0.010		2.3		50.0	Averaged	
26 Hexane	0.04173		0.04589	0.010		-10.0		50.0	Averaged	
27 Vinyl acetate	0.72547		0.57937	0.010		20.1		50.0	Averaged	
28 1,1-Dichloroethane	0.66677		0.64329	0.100		3.5		50.0	Averaged	
29 tert-Butyl Alcohol	0.03040		0.02089	0.010		31.3		50.0	Averaged	
30 2-Butanone	0.24277		0.19709	0.010		18.8		50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.22725		0.22840	0.010		-0.5		50.0	Averaged	
32 cis-1,2-dichloroethene	0.22752		0.23494	0.010		-3.3		50.0	Averaged	
33 2,2-Dichloropropane	0.27356		0.25409	0.010		7.1		50.0	Averaged	
34 Bromochloromethane	0.11242		0.11118	0.010		1.1		50.0	Averaged	
35 Chloroform	0.35748		0.35460	0.010		0.8		20.0	Averaged	
36 Tetrahydrofuran	0.12363		0.10658	0.010		13.8		50.0	Averaged	
37 1,1,1-Trichloroethane	0.32166		0.30306	0.010		5.8		50.0	Averaged	
38 1,1-Dichloropropene	0.27573		0.27693	0.010		-0.4		50.0	Averaged	
39 Carbon Tetrachloride	0.24842		0.25625	0.010		-3.2		50.0	Averaged	
40 1,2-Dichloroethane	0.51029		0.51792	0.010		-1.5		50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 13-JUL-2000 07:56
 Lab File ID: ux93601.d Init. Cal. Date(s): 12-JUL-2000 12-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 11:10 14:49
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00713A.b/8260LLUX9.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
41 Benzene	0.84637	0.84600	0.010	0.0	50.0	Averaged	
42 Trichloroethene	0.23551	0.23485	0.010	0.3	50.0	Averaged	
43 1,2-Dichloropropane	0.37041	0.36272	0.010	2.1	20.0	Averaged	
44 1,4-Dioxane	0.00193	0.00101	0.010	47.8	50.0	Averaged	
45 Dibromomethane	0.10917	0.10633	0.010	2.6	50.0	Averaged	
46 Bromodichloromethane	0.25914	0.25984	0.010	-0.3	50.0	Averaged	
47 2-Chloroethyl vinyl ether	0.20805	0.14116	0.010	32.2	50.0	Averaged	
48 cis-1,3-Dichloropropene	0.31068	0.31851	0.010	-2.5	50.0	Averaged	
49 4-Methyl-2-pentanone	0.39172	0.36411	0.010	7.0	50.0	Averaged	
50 Toluene	1.24417	1.26964	0.010	-2.0	20.0	Averaged	
51 trans-1,3-Dichloropropene	0.38874	0.37276	0.010	4.1	50.0	Averaged	
52 Ethyl Methacrylate	0.29768	0.25929	0.010	12.9	50.0	Averaged	
53 1,1,2-Trichloroethane	0.23024	0.22431	0.010	2.6	50.0	Averaged	
54 1,3-Dichloropropane	0.41580	0.41086	0.010	1.2	50.0	Averaged	
55 Tetrachloroethene	0.19625	0.19280	0.010	1.8	50.0	Averaged	
56 2-Hexanone	0.36478	0.30212	0.010	17.2	50.0	Averaged	
57 Dibromochloromethane	0.23366	0.22984	0.010	1.6	50.0	Averaged	
58 1,2-Dibromoethane	0.23894	0.22389	0.010	6.3	50.0	Averaged	
59 Chlorobenzene	0.88766	0.89014	0.300	-0.3	50.0	Averaged	
60 1,1,1,2-Tetrachloroethane	0.26413	0.26917	0.010	-1.9	50.0	Averaged	
61 Ethylbenzene	0.47816	0.50097	0.010	-4.8	20.0	Averaged	
62 m + p-Xylene	0.60213	0.62722	0.010	-4.2	50.0	Averaged	
M 63 Xylenes (total)	0.59338	0.62335	0.010	-5.1	50.0	Averaged	
64 Xylene-o	0.57587	0.61563	0.010	-6.9	50.0	Averaged	
65 Styrene	0.93431	0.98099	0.010	-5.0	50.0	Averaged	
66 Bromoform	0.10062	0.10197	0.100	-1.3	50.0	Averaged	
67 Isopropylbenzene	1.46201	1.51961	0.010	-3.9	50.0	Averaged	
68 1,1,2,2-Tetrachloroethane	0.53421	0.49171	0.300	8.0	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.41030	0.43294	0.010	-5.5	50.0	Averaged	
70 1,2,3-Trichloropropane	0.20408	0.17411	0.010	14.7	50.0	Averaged	
71 Bromobenzene	0.63132	0.63167	0.010	-0.1	50.0	Averaged	
72 n-Propylbenzene	0.90684	0.94041	0.010	-3.7	50.0	Averaged	
73 2-Chlorotoluene	0.74321	0.78842	0.010	-6.1	50.0	Averaged	
74 1,3,5-Trimethylbenzene	2.57960	2.63107	0.010	-2.0	50.0	Averaged	
75 4-Chlorotoluene	0.78689	0.78442	0.010	0.3	50.0	Averaged	
76 tert-Butylbenzene	2.40007	2.35284	0.010	2.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i
 Lab File ID: ux93601.d
 Analysis Type: WATER
 Lab Sample ID: 50NG-CC
 Method: /chem/can/msv/a3ux9.i/N00713A.b/8260LLUX9.m

Injection Date: 13-JUL-2000 07:56
 Init. Cal. Date(s): 12-JUL-2000 12-JUL-2000
 Init. Cal. Times: 11:10 14:49
 Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
77 1,2,4-Trimethylbenzene	2.67276	2.71460	0.010	-1.6	50.0	Averaged	
78 sec-Butylbenzene	3.19727	3.18176	0.010	0.5	50.0	Averaged	
79 4-Isopropyltoluene	2.85659	2.76832	0.010	3.1	50.0	Averaged	
80 1,3-Dichlorobenzene	1.30793	1.30481	0.010	0.2	50.0	Averaged	
81 1,4-Dichlorobenzene	1.31735	1.31553	0.010	0.1	50.0	Averaged	
82 n-Butylbenzene	2.38556	2.48461	0.010	-4.2	50.0	Averaged	
83 1,2-Dichlorobenzene	1.22004	1.24601	0.010	-2.1	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.09240	0.08299	0.010	10.2	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.89650	0.84933	0.010	5.3	50.0	Averaged	
86 Hexachlorobutadiene	0.33733	0.35690	0.010	-5.8	50.0	Averaged	
87 Naphthalene	2.54492	2.05659	0.010	19.2	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.84008	0.77330	0.010	7.9	50.0	Averaged	
98 Cyclohexane	0.87087	1.07876	0.010	-23.9	50.0	Averaged	
143 Methyl Acetate	0.40316	0.39188	0.010	2.8	50.0	Averaged	
144 Methylcyclohexane	0.32756	0.38646	0.010	-18.0	50.0	Averaged	
141 1,3,5-Trichlorobenzene	0.91897	0.99033	0.010	-7.8	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 13-JUL-2000 08:19
 Lab File ID: ux93602.d Init. Cal. Date(s): 12-JUL-2000 12-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 11:10 14:49
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00713A.b/8260LLUX9.m

COMPOUND	RRF / AMOUNT	RFSO	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.36108	0.33167	0.010	8.1	50.0	Averaged	
89 Ethyl Ether	0.41483	0.37034	0.010	10.7	50.0	Averaged	
91 3-Chloropropene	0.10673	0.10627	0.010	0.4	50.0	Averaged	
92 Isopropyl Ether	0.20059	0.18800	0.010	6.3	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.81198	0.80699	0.010	0.6	50.0	Averaged	
94 Propionitrile	0.06807	0.06713	0.010	1.4	50.0	Averaged	
95 Ethyl Acetate	0.35923	0.39248	0.010	-9.3	50.0	Averaged	
96 Methacrylonitrile	0.24697	0.25964	0.010	-5.1	50.0	Averaged	
97 Isobutanol	0.00976	0.01151	0.010	-17.9	50.0	Averaged	
99 n-Butanol	0.01198	0.00989	0.010	17.5	50.0	Averaged	
100 Methyl Methacrylate	0.31292	0.33205	0.010	-6.1	50.0	Averaged	
101 2-Nitropropane	0.04517	0.05362	0.010	-18.7	50.0	Averaged	
103 Cyclohexanone	0.06558	0.06572	0.010	-0.2	50.0	Averaged	
139 3,3,5-Trimethylcyclohexanon	0.13292	0.09046	0.010	31.9	50.0	Averaged	

5A
**VOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - BROMOFLUOROBENZENE (BFB)**

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP016
 Lab File ID: BFB550 BFB Injection Date: 07/14/00
 Instrument ID: A3UX7 BFB Injection Time: 0730
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.2 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.6 (95.2)1
177	5.0 - 9.0% of mass 176	4.3 (6.3)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-IC	UX74381	07/14/00	0745
02	VSTD010	50NG-A9IC	UX74382	07/14/00	0812
03	VSTD040	200NG-IC	UX74384	07/14/00	0912
04	VSTD020	100NG-IC	UX74385	07/14/00	0939
05	VSTD005	25NG-IC	UX74386	07/14/00	1005
06	VSTD001	5NG-IC	UX74387	07/14/00	1032
07	VSTD040	200NG-A9IC	UX74388	07/14/00	1058
08	VSTD020	100NG-A9IC	UX74389	07/14/00	1125
09	VSTD005	25NG-A9IC	UX74390	07/14/00	1151
10	VSTD001	5NG-A9IC	UX74391	07/14/00	1218.
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evansl
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux7.i/U00714A.b/ux74391.d
 Level 2: /chem/can/msv/a3ux7.i/U00714A.b/ux74390.d
 Level 3: /chem/can/msv/a3ux7.i/U00714A.b/ux74382.d
 Level 4: /chem/can/msv/a3ux7.i/U00714A.b/ux74389.d
 Level 5: /chem/can/msv/a3ux7.i/U00714A.b/ux74388.d

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.38122	0.36678	0.37412	0.35287	0.32330	0.35966	6.359
9 Chloromethane	0.42884	0.42170	0.39944	0.38653	0.38997	0.40530	4.690
10 Vinyl Chloride	0.30766	0.32636	0.23542	0.30595	0.26653	0.28838	12.748
11 Bromomethane	0.18317	0.15918	0.13433	0.13919	0.13873	0.15092	13.537
12 Chloroethane	0.16231	0.15662	0.16015	0.14311	0.14832	0.15410	5.277
13 Trichlorofluoromethane	0.34094	0.36060	0.39327	0.36347	0.36251	0.36416	5.141
14 Dichlorofluoromethane	0.16943	0.20595	0.24178	0.24846	0.26281	0.22569	16.740
15 Acrolein	0.01182	0.01215	0.01255	0.01257	0.01369	0.01254	5.609
16 Acetone	0.29964	0.16001	0.17490	0.12592	0.11853	0.17580	41.561
17 1,1-Dichloroethene	0.29061	0.26092	0.27659	0.26274	0.27524	0.27322	4.403
18 Freon-113	0.29785	0.29530	0.28477	0.28471	0.27254	0.28703	3.509
19 Iodomethane	0.64295	0.63836	0.55767	0.62731	0.58243	0.60974	6.185
20 Carbon Disulfide	1.07719	0.98121	1.03219	0.96245	0.95892	1.00239	5.091
21 Methylene Chloride	0.37825	0.30640	0.30754	0.29761	0.29258	0.31647	11.087
22 Acetonitrile	0.03387	0.03118	0.02728	0.02937	0.02845	0.03003	8.577
23 Acrylonitrile	0.09923	0.10258	0.09289	0.09802	0.09371	0.09729	4.125
24 Methyl tert-butyl ether	0.77800	0.75826	0.69403	0.74738	0.70747	0.73703	4.777
25 trans-1,2-Dichloroethene	0.34282	0.32346	0.32938	0.31955	0.31678	0.32640	3.164
26 Hexane	0.05738	0.05810	0.05774	0.05632	0.05521	0.05695	2.067
27 Vinyl acetate	0.29976	0.34592	0.30005	0.36148	0.34984	0.33141	8.848
28 1,1-Dichloroethane	0.69757	0.63542	0.65048	0.62790	0.63047	0.64837	4.451
29 tert-Butyl Alcohol	0.02087	0.01925	0.01583	0.01916	0.01755	0.01853	10.325
30 2-Butanone	0.21818	0.18077	0.15658	0.15919	0.14839	0.17262	16.301
M 31 1,2-Dichloroethene (total)	0.35707	0.32952	0.32686	0.32391	0.31929	0.33133	4.491
32 cis-1,2-dichloroethene	0.37132	0.33557	0.32434	0.32827	0.32180	0.33626	6.030
33 2,2-Dichloropropane	0.37230	0.35284	0.30187	0.35630	0.33747	0.34416	7.753

$\% \text{RSD (2-butanone)} = \frac{0.02813}{0.17262} = 16.29$ (100)

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evansl
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.17732	0.16783	0.16307	0.16393	0.15953	0.16634	4.096
35 Chloroform	0.67155	0.61076	0.61705	0.58836	0.58968	0.61548	5.492
36 Tetrahydrofuran	0.10522	0.08092	0.07059	0.07567	0.06964	0.08041	18.137
37 1,1,1-Trichloroethane	0.59426	0.53787	0.52637	0.54985	0.52788	0.54725	5.100
38 1,1-Dichloropropene	0.44273	0.42105	0.43200	0.42354	0.41513	0.42689	2.513
39 Carbon Tetrachloride	0.49547	0.47493	0.48255	0.48568	0.49436	0.48660	1.757
40 1,2-Dichloroethane	0.67203	0.61071	0.60634	0.58020	0.57590	0.60904	6.310
41 Benzene	1.29580	1.18756	1.17957	1.14451	1.11440	1.18437	5.809
42 Trichloroethene	0.35267	0.34274	0.33523	0.33522	0.32991	0.33915	2.604
43 1,2-Dichloropropane	0.35661	0.33244	0.33162	0.31908	0.31219	0.33039	5.137
44 1,4-Dioxane	0.00154	0.00146	0.00164	0.00150	0.00155	0.00154	4.457
45 Dibromomethane	0.21915	0.19530	0.20095	0.19547	0.19154	0.20048	5.467
46 Bromodichloromethane	0.49480	0.44465	0.46920	0.44603	0.45080	0.46110	4.607
47 2-Chloroethyl vinyl ether	0.11819	0.13322	0.12086	0.14000	0.13751	0.12996	7.595
48 cis-1,3-Dichloropropene	0.45987	0.46628	0.45864	0.47669	0.48013	0.46832	2.078
49 4-Methyl-2-pentanone	0.28095	0.27291	0.25161	0.27298	0.26513	0.26872	4.122
50 Toluene	1.79460	1.67715	1.67223	1.64934	1.61284	1.68123	4.061
51 trans-1,3-Dichloropropene	0.51869	0.52435	0.52969	0.56038	0.56385	0.53939	3.919
52 Ethyl Methacrylate	0.33444	0.38443	0.36664	0.41888	0.40952	0.38278	8.677
53 1,1,2-Trichloroethane	0.36295	0.33186	0.31520	0.32335	0.31024	0.32872	6.335
54 1,3-Dichloropropane	0.60370	0.58118	0.56183	0.55856	0.52738	0.56653	5.004
55 Tetrachloroethene	0.35586	0.33535	0.33021	0.32745	0.31505	0.33278	4.478
56 2-Hexanone	0.26373	0.26453	0.21698	0.25815	0.25026	0.25073	7.861
57 Dibromochloromethane	0.41692	0.39810	0.40500	0.41741	0.41410	0.41031	2.060
58 1,2-Dibromoethane	0.36210	0.32577	0.32216	0.33207	0.31778	0.33197	5.312
59 Chlorobenzene	1.29045	1.15511	1.15964	1.14314	1.11637	1.17294	5.781
60 1,1,1,2-Tetrachloroethane	0.44486	0.42395	0.43708	0.43490	0.43615	0.43539	1.719
61 Ethylbenzene	0.60394	0.56474	0.55959	0.55418	0.53720	0.56393	4.371
62 m + p-Xylene	0.72423	0.69306	0.67580	0.66364	0.64382	0.68011	4.485
M 63 Xylenes (total)	0.70570	0.68014	0.66622	0.65834	0.63976	0.67003	3.688
64 Xylene-o	0.66865	0.65428	0.64707	0.64774	0.63163	0.64987	2.060
65 Styrene	1.14440	1.11323	1.12332	1.11989	1.08619	1.11741	1.878
66 Bromoform	0.20444	0.21207	0.21239	0.22592	0.23143	0.21725	5.099

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evans1
 Curve Type : Average

Compound	5.000	25.000	50.000	100.000	200.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
67 Isopropylbenzene	3.02540	2.97388	2.89552	2.94317	2.79772	2.92713	2.951
68 1,1,2,2-Tetrachloroethane	0.74304	0.62668	0.59917	0.59552	0.55171	0.62323	11.579
69 1,4-Dichloro-2-butene	0.21003	0.22277	0.21334	0.23027	0.22589	0.22046	3.866
70 1,2,3-Trichloropropane	0.28336	0.23554	0.20843	0.21313	0.19251	0.22660	15.563
71 Bromobenzene	0.98699	0.92226	0.86082	0.86377	0.82007	0.89078	7.291
72 n-Propylbenzene	0.90699	0.89280	0.85076	0.84896	0.80676	0.86125	4.615
73 2-Chlorotoluene	0.82588	0.81860	0.75656	0.77128	0.73470	0.78140	5.064
74 1,3,5-Trimethylbenzene	2.66993	2.58736	2.48029	2.49741	2.40455	2.52791	4.059
75 4-Chlorotoluene	0.94734	0.85303	0.81600	0.82272	0.78357	0.84453	7.406
76 tert-Butylbenzene	2.18100	2.16662	2.40197	2.12042	2.03709	2.18142	6.210
77 1,2,4-Trimethylbenzene	2.82976	2.76904	2.62258	2.61388	2.51957	2.67097	4.712
78 sec-Butylbenzene	2.94128	2.81168	2.70114	2.70580	2.61412	2.75480	4.559
79 4-Isopropyltoluene	2.62986	2.60020	2.44138	2.50882	2.37785	2.51162	4.207
80 1,3-Dichlorobenzene	1.93862	1.72709	1.60500	1.61141	1.52237	1.68090	9.605
81 1,4-Dichlorobenzene	2.15934	1.79150	1.67117	1.68368	1.63489	1.78812	12.056
82 n-Butylbenzene	2.63426	2.42571	2.24891	2.30375	2.18933	2.36039	7.464
83 1,2-Dichlorobenzene	1.96858	1.72127	1.53872	1.57463	1.50403	1.66145	11.471
84 1,2-Dibromo-3-chloropropane	0.14446	0.13790	0.11406	0.13271	0.12224	0.13027	9.346
85 1,2,4-Trichlorobenzene	1.07266	0.83412	0.59074	0.69710	0.58545	0.75601	26.966
86 Hexachlorobutadiene	0.69353	0.42415	0.29319	0.33056	0.28286	0.40490	42.155
87 Naphthalene	2.41284	1.99056	1.16306	1.58536	1.19219	1.66880	32.088
88 1,2,3-Trichlorobenzene	1.01644	0.68819	0.39865	0.52272	0.40211	0.60562	42.637
89 Ethyl Ether	0.20937	0.22098	0.20727	0.20798	0.20207	0.20953	3.326
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.15628	0.13838	0.15430	0.15463	0.14841	0.15040	4.887
92 Isopropyl Ether	0.22152	0.24263	0.22751	0.23134	0.21656	0.22791	4.379
93 2-Chloro-1,3-butadiene	0.61922	0.69068	0.66891	0.67810	0.67188	0.66576	4.105
94 Propionitrile	0.04106	0.03585	0.03481	0.03882	0.03559	0.03723	7.065
95 Ethyl Acetate	0.26195	0.27224	0.24662	0.26329	0.26845	0.26251	3.730
96 Methacrylonitrile	0.19176	0.19688	0.17343	0.18946	0.18619	0.18754	4.692
97 Isobutanol	0.00904	0.00916	0.00712	0.00909	0.00920	0.00872	10.317 <-
98 Cyclohexane	0.52634	0.54503	0.52250	0.54121	0.52520	0.53206	1.933
99 n-Butanol	0.00400	0.00454	0.00368	0.00504	0.00551	0.00455	16.374 <-

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.1/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evansl
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
100 Methyl Methacrylate	0.28553	0.32880	0.30783	0.36214	0.36098	0.32906	10.147
101 2-Nitropropane	0.07887	0.08204	0.08013	0.09076	0.09440	0.08524	8.114
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
103 Cyclohexanone	0.03147	0.03815	0.03099	0.03769	0.03920	0.03550	11.093
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
141 1,3,5-Trichlorobenzene	1.26834	1.06472	0.84043	0.92506	0.87076	0.99386	17.700
143 Methyl Acetate	0.35830	0.32603	0.27612	0.30203	0.28816	0.31013	10.545
144 Methylcyclohexane	0.36047	0.38851	0.37213	0.37896	0.36637	0.37329	2.926

\$ 4 Dibromofluoromethane	0.36325	0.33020	0.28029	0.33347	0.33277	0.32800	9.116
\$ 5 1,2-Dichloroethane-d4	0.46370	0.44446	0.38206	0.41700	0.44107	0.42966	7.299
\$ 6 Toluene-d8	1.32129	1.30183	1.09698	1.33270	1.30046	1.27065	7.715
\$ 7 Bromofluorobenzene	1.17834	1.04374	0.86596	0.99482	0.97950	1.01247	11.191

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP016
 Lab File ID: BFB551 BFB Injection Date: 07/14/00
 Instrument ID: A3UX7 BFB Injection Time: 1312
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.8
175	5.0 - 9.0% of mass 174	6.0 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.8 (97.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.2)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74392	07/14/00	1333
02	VSTD010	50NG-A9CC	UX74393	07/14/00	1400
03	DGPAR-CHK	DGAPR102	UX74394	07/14/00	1426
04	DGPAR-BLK	DGAPR101	UX74395	07/14/00	1453
05	MPT-G4-GW-25	DFRCA10V	UX74400	07/14/00	1706
06	MPT-G4-GW-27	DFRCE10V	UX74402	07/14/00	1759
07	TRIP BLANK	DFRDJ101	UX74403	07/14/00	1825
08	MPT-G4-GW-28	DFV6W12L	UX74404	07/14/00	1852
09	MPT-G4-GW-28	DFV6W12M	UX74405	07/14/00	1918
10	MPT-G4-GW-28	DFV6W12N	UX74406	07/14/00	1945
11	MPT-G4-GW-29	DFV7510V	UX74407	07/14/00	2011
12	MPT-G4-GW-30	DFV7710V	UX74408	07/14/00	2038
13	MPT-G4-GW-31	DFV7810V	UX74409	07/14/00	2104
14	MPT-G4-GW-32	DFV7910V	UX74410	07/14/00	2131
15	MPT-G4-GW-DU	DFV7C10V	UX74411	07/14/00	2157
16	MPT-G4-GW-33	DFV7D10V	UX74412	07/14/00	2223
17					
18					
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 13:33
 Lab File ID: ux74392.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant. Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.32800	0.29855	0.010	9.0	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.42966	0.38554	0.010	10.3	50.0	Averaged	
\$ 6 Toluene-d8	1.27065	1.15538	0.010	9.1	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.01247	0.87171	0.010	13.9	50.0	Averaged	
8 Dichlorodifluoromethane	0.35966	0.35791	0.010	0.5	50.0	Averaged	
9 Chloromethane	0.40530	0.40075	0.100	1.1	50.0	Averaged	
10 Vinyl Chloride	0.28838	0.28670	0.010	0.6	20.0	Averaged	
11 Bromomethane	0.15092	0.15273	0.010	-1.2	50.0	Averaged	
12 Chloroethane	0.15410	0.15172	0.010	1.5	50.0	Averaged	
13 Trichlorofluoromethane	0.36416	0.35858	0.010	1.5	50.0	Averaged	
15 Acrolein	0.01256	0.02365	0.010	-88.3	50.0	Averaged	
16 Acetone	0.17580	0.17614	0.010	-0.2	50.0	Averaged	
17 1,1-Dichloroethene	0.27322	0.30285	0.010	-10.8	20.0	Averaged	
18 Freon-113	0.28703	0.31711	0.010	-10.5	50.0	Averaged	
19 Iodomethane	0.60974	0.60704	0.010	0.4	50.0	Averaged	
20 Carbon Disulfide	1.00239	1.02109	0.010	-1.9	50.0	Averaged	
21 Methylene Chloride	0.31647	0.31647	0.010	0.0	50.0	Averaged	
22 Acetonitrile	0.03003	0.03434	0.010	-14.4	50.0	Averaged	
23 Acrylonitrile	0.09729	0.11636	0.010	-19.6	50.0	Averaged	
24 Methyl tert-butyl ether	0.73703	0.80750	0.010	-9.6	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.32640	0.33511	0.010	-2.7	50.0	Averaged	
26 Hexane	0.05695	0.05732	0.010	-0.7	50.0	Averaged	
27 Vinyl acetate	0.33141	0.51644	0.010	-55.8	50.0	Averaged	
28 1,1-Dichloroethane	0.64837	0.65567	0.100	-1.1	50.0	Averaged	
29 tert-Butyl Alcohol	0.01853	0.02161	0.010	-16.6	50.0	Averaged	
30 2-Butanone	0.17262	0.19918	0.010	-15.4	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.33133	0.33622	0.010	-1.5	50.0	Averaged	
32 cis-1,2-dichloroethene	0.33626	0.33734	0.010	-0.3	50.0	Averaged	
33 2,2-Dichloropropane	0.34416	0.35517	0.010	-3.2	50.0	Averaged	
34 Bromochloromethane	0.16634	0.17126	0.010	-3.0	50.0	Averaged	
35 Chloroform	0.61548	0.61992	0.010	-0.7	20.0	Averaged	
36 Tetrahydrofuran	0.08041	0.08740	0.010	-8.7	50.0	Averaged	
37 1,1,1-Trichloroethane	0.54725	0.56623	0.010	-3.5	50.0	Averaged	
38 1,1-Dichloropropene	0.42689	0.44172	0.010	-3.5	50.0	Averaged	
39 Carbon Tetrachloride	0.48660	0.51023	0.010	-4.9	50.0	Averaged	
40 1,2-Dichloroethane	0.60904	0.63375	0.010	-4.1	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 13:33
 Lab File ID: ux74392.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RFSO	RRF %D / %DRIFT	%D / %DRIFT		
41 Benzene	1.18437	1.19252	0.010	-0.7	50.0	Averaged
42 Trichloroethene	0.33915	0.33890	0.010	0.1	50.0	Averaged
43 1,2-Dichloropropane	0.33039	0.34090	0.010	-3.2	20.0	Averaged
44 1,4-Dioxane	0.00154	0.00231	0.010	-50.1	50.0	Averaged
45 Dibromomethane	0.20048	0.21203	0.010	-5.8	50.0	Averaged
46 Bromodichloromethane	0.46110	0.46814	0.010	-1.5	50.0	Averaged
47 2-Chloroethyl vinyl ether	0.12996	0.15577	0.010	-19.9	50.0	Averaged
48 cis-1,3-Dichloropropene	0.46832	0.48311	0.010	-3.2	50.0	Averaged
49 4-Methyl-3-pentanone	0.26872	0.31361	0.010	-16.7	50.0	Averaged
50 Toluene	1.68123	1.68526	0.010	-0.2	20.0	Averaged
51 trans-1,3-Dichloropropene	0.53939	0.56059	0.010	-3.9	50.0	Averaged
52 Ethyl Methacrylate	0.38278	0.43615	0.010	-13.9	50.0	Averaged
53 1,1,2-Trichloroethane	0.32872	0.35017	0.010	-6.5	50.0	Averaged
54 1,3-Dichloropropane	0.56653	0.59818	0.010	-5.6	50.0	Averaged
55 Tetrachloroethene	0.33278	0.33568	0.010	-0.9	50.0	Averaged
56 2-Hexanone	0.25073	0.29881	0.010	-19.2	50.0	Averaged
57 Dibromochloromethane	0.41031	0.43316	0.010	-5.6	50.0	Averaged
58 1,2-Dibromoethane	0.33197	0.36096	0.010	-8.7	50.0	Averaged
59 Chlorobenzene	1.17294	1.16953	0.300	0.3	50.0	Averaged
60 1,1,1,2-Tetrachloroethane	0.43539	0.44594	0.010	-2.4	50.0	Averaged
61 Ethylbenzene	0.56393	0.57035	0.010	-1.1	20.0	Averaged
62 m + p-Xylene	0.68011	0.68095	0.010	-0.1	50.0	Averaged
63 Xylenes (total)	0.67003	0.67870	0.010	-1.3	50.0	Averaged
64 Xylene-o	0.64987	0.67419	0.010	-3.7	50.0	Averaged
65 Styrene	1.11741	1.15288	0.010	-3.2	50.0	Averaged
66 Bromoform	0.21725	0.24048	0.100	-10.7	50.0	Averaged
67 Isopropylbenzene	2.92713	2.88188	0.010	1.5	50.0	Averaged
68 1,1,2,2-Tetrachloroethane	0.62323	0.67516	0.300	-8.3	50.0	Averaged
69 1,4-Dichloro-2-butene	0.22046	0.24971	0.010	-13.3	50.0	Averaged
70 1,2,3-Trichloropropane	0.22660	0.25143	0.010	-11.0	50.0	Averaged
71 Bromobenzene	0.89078	0.87437	0.010	1.8	50.0	Averaged
72 n-Propylbenzene	0.86125	0.84731	0.010	1.6	50.0	Averaged
73 2-Chlorotoluene	0.78140	0.77619	0.010	0.7	50.0	Averaged
74 1,3,5-Trimethylbenzene	2.52791	2.51404	0.010	0.5	50.0	Averaged
75 4-Chlorotoluene	0.84453	0.81279	0.010	3.8	50.0	Averaged
76 tert-Butylbenzene	2.18142	2.42431	0.010	-11.1	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 13:33
 Lab File ID: ux74392.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: SONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RFSO	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
77 1,2,4-Trimethylbenzene	2.67097	2.65977	0.010	0.4	50.0	Averaged	
78 sec-Butylbenzene	2.75480	2.79252	0.010	-1.4	50.0	Averaged	
79 4-Isopropyltoluene	2.51162	2.54372	0.010	-1.3	50.0	Averaged	
80 1,3-Dichlorobenzene	1.68090	1.65745	0.010	1.4	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78812	1.72149	0.010	3.7	50.0	Averaged	
82 n-Butylbenzene	2.36039	2.38102	0.010	-0.9	50.0	Averaged	
83 1,2-Dichlorobenzene	1.66145	1.61017	0.010	3.1	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.13027	0.15662	0.010	-20.2	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.75601	0.76324	0.010	-1.0	50.0	Averaged	
86 Hexachlorobutadiene	0.40490	0.33296	0.010	17.8	50.0	Averaged	
87 Naphthalene	1.66880	1.86708	0.010	-11.9	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.60562	0.57084	0.010	5.7	50.0	Averaged	
98 Cyclohexane	0.53206	0.55115	0.010	-3.6	50.0	Averaged	
143 Methyl Acetate	0.31013	0.30359	0.010	2.1	50.0	Averaged	
144 Methylcyclohexane	0.37329	0.39855	0.010	-6.8	50.0	Averaged	
141 1,3,5-Trichlorobenzene	0.99386	0.92566	0.010	6.9	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 14:00
 Lab File ID: ux74393.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 5ONG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.22569	0.23798	0.010	-5.4	50.0	Averaged	
89 Ethyl Ether	0.20953	0.21133	0.010	-0.9	50.0	Averaged	
91 3-Chloropropene	0.15040	0.14667	0.010	2.5	50.0	Averaged	
92 Isopropyl Ether	0.22791	0.22909	0.010	-0.5	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.66576	0.64858	0.010	2.6	50.0	Averaged	
94 Propionitrile	0.03723	0.03661	0.010	1.7	50.0	Averaged	
95 Ethyl Acetate	0.26251	0.26680	0.010	-1.6	50.0	Averaged	
96 Methacrylonitrile	0.18754	0.18761	0.010	0.0	50.0	Averaged	
97 Isobutanol	0.00872	0.00892	0.010	-2.3	50.0	Averaged <-	
99 n-Butanol	0.00455	0.00474	0.010	-4.0	50.0	Averaged <-	
100 Methyl Methacrylate	0.32906	0.34298	0.010	-4.2	50.0	Averaged	
101 2-Nitropropane	0.08524	0.08648	0.010	-1.5	50.0	Averaged	
103 Cyclohexanone	0.03550	0.04037	0.010	-13.7	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP016

Lab File ID: BFB552 BFB Injection Date: 07/17/00

Instrument ID: A3UX7 BFB Injection Time: 0830

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.4
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	71.8
175	5.0 - 9.0% of mass 174	4.9 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.1 (96.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74419	07/17/00	0845
02	VSTD010	50NG-A9CC	UX74420	07/17/00	0911
03	DGD64-CHK	DGD64102	UX74421	07/17/00	0937
04	DGD64-BLK	DGD64101	UX74422	07/17/00	1004
05	MPT-G4-GW-24	DFRC710V	UX74423	07/17/00	1030
06	MPT-G4-GW-26	DFRCD10V	UX74424	07/17/00	1057
07	TB070600	DFV7E101	UX74425	07/17/00	1123
08					
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22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 08:45
 Lab File ID: ux74419.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.32800	0.30136	0.010	8.1	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.42966	0.37840	0.010	11.9	50.0	Averaged	
\$ 6 Toluene-d8	1.27065	1.14985	0.010	9.5	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.01247	0.88646	0.010	12.4	50.0	Averaged	
8 Dichlorodifluoromethane	0.35966	0.35105	0.010	2.4	50.0	Averaged	
9 Chloromethane	0.40530	0.42367	0.100	-4.5	50.0	Averaged	
10 Vinyl Chloride	0.28838	0.26538	0.010	8.0	20.0	Averaged	
11 Bromomethane	0.15092	0.13983	0.010	7.3	50.0	Averaged	
12 Chloroethane	0.15410	0.17781	0.010	-15.4	50.0	Averaged	
13 Trichlorofluoromethane	0.36416	0.38322	0.010	-5.2	50.0	Averaged	
15 Acrolein	0.01256	0.01209	0.010	3.7	50.0	Averaged	
16 Acetone	0.17580	0.22949	0.010	-30.5	50.0	Averaged	
17 1,1-Dichloroethene	0.27322	0.28655	0.010	-4.9	20.0	Averaged	
18 Freon-113	0.28703	0.27385	0.010	4.6	50.0	Averaged	
19 Iodomethane	0.60974	0.51882	0.010	14.9	50.0	Averaged	
20 Carbon Disulfide	1.00239	1.11394	0.010	-11.1	50.0	Averaged	
21 Methylene Chloride	0.31647	0.30349	0.010	4.1	50.0	Averaged	
22 Acetonitrile	0.03003	0.03222	0.010	-7.3	50.0	Averaged	
23 Acrylonitrile	0.09729	0.09830	0.010	-1.0	50.0	Averaged	
24 Methyl tert-butyl ether	0.73703	0.65277	0.010	11.4	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.32640	0.32039	0.010	1.8	50.0	Averaged	
26 Hexane	0.05695	0.05677	0.010	0.3	50.0	Averaged	
27 Vinyl acetate	0.33141	0.30969	0.010	6.6	50.0	Averaged	
28 1,1-Dichloroethane	0.64837	0.63317	0.100	2.3	50.0	Averaged	
29 tert-Butyl Alcohol	0.01853	0.01288	0.010	30.5	50.0	Averaged	
30 2-Butanone	0.17262	0.15645	0.010	9.4	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.33133	0.32129	0.010	3.0	50.0	Averaged	
32 cis-1,2-dichloroethene	0.33626	0.32219	0.010	4.2	50.0	Averaged	
33 2,2-Dichloropropane	0.34416	0.23594	0.010	31.4	50.0	Averaged	
34 Bromochloromethane	0.16634	0.16109	0.010	3.2	50.0	Averaged	
35 Chloroform	0.61548	0.61216	0.010	0.5	20.0	Averaged	
36 Tetrahydrofuran	0.08041	0.06986	0.010	13.1	50.0	Averaged	
37 1,1,1-Trichloroethane	0.54725	0.47784	0.010	12.7	50.0	Averaged	
38 1,1-Dichloropropene	0.42689	0.42328	0.010	0.8	50.0	Averaged	
39 Carbon Tetrachloride	0.48660	0.43080	0.010	11.5	50.0	Averaged	
40 1,2-Dichloroethane	0.60904	0.58914	0.010	3.3	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 08:45
 Lab File ID: ux74419.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: SONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT		
41 Benzene	1.18437	1.16932	0.010	1.3	50.0	Averaged
42 Trichloroethane	0.33915	0.32853	0.010	3.1	50.0	Averaged
43 1,2-Dichloropropane	0.33039	0.32792	0.010	0.7	20.0	Averaged
44 1,4-Dioxane	0.00154	0.00174	0.010	-13.3	50.0	Averaged
45 Dibromomethane	0.20048	0.19204	0.010	4.2	50.0	Averaged
46 Bromodichloromethane	0.46110	0.44405	0.010	3.7	50.0	Averaged
47 2-Chloroethyl vinyl ether	0.12996	0.12931	0.010	0.5	50.0	Averaged
48 cis-1,3-Dichloropropene	0.46832	0.43959	0.010	6.1	50.0	Averaged
49 4-Methyl-2-pentanone	0.26872	0.25096	0.010	6.6	50.0	Averaged
50 Toluene	1.68123	1.60115	0.010	4.8	20.0	Averaged
51 trans-1,3-Dichloropropene	0.53939	0.47352	0.010	12.2	50.0	Averaged
52 Ethyl Methacrylate	0.38278	0.31472	0.010	17.8	50.0	Averaged
53 1,1,2-Trichloroethane	0.32872	0.30491	0.010	7.2	50.0	Averaged
54 1,3-Dichloropropane	0.56653	0.52892	0.010	6.6	50.0	Averaged
55 Tetrachloroethane	0.33278	0.31323	0.010	5.9	50.0	Averaged
56 2-Hexanone	0.25073	0.21303	0.010	15.0	50.0	Averaged
57 Dibromochloromethane	0.41031	0.37651	0.010	8.2	50.0	Averaged
58 1,2-Dibromoethane	0.33197	0.30590	0.010	7.9	50.0	Averaged
59 Chlorobenzene	1.17294	1.09896	0.300	6.3	50.0	Averaged
60 1,1,1,2-Tetrachloroethane	0.43539	0.39728	0.010	8.8	50.0	Averaged
61 Ethylbenzene	0.56393	0.52658	0.010	6.6	20.0	Averaged
62 m + p-Xylene	0.68011	0.64011	0.010	5.9	50.0	Averaged
63 Xylenes (total)	0.67003	0.63492	0.010	5.2	50.0	Averaged
64 Xylene-o	0.64987	0.62453	0.010	3.9	50.0	Averaged
65 Styrene	1.11741	1.05857	0.010	5.3	50.0	Averaged
66 Bromoform	0.21725	0.18971	0.100	12.7	50.0	Averaged
67 Isopropylbenzene	2.92713	2.84039	0.010	3.0	50.0	Averaged
68 1,1,2,2-Tetrachloroethane	0.62323	0.58115	0.300	6.8	50.0	Averaged
69 1,4-Dichloro-2-butene	0.22046	0.19482	0.010	11.6	50.0	Averaged
70 1,2,3-Trichloropropane	0.22660	0.20776	0.010	8.3	50.0	Averaged
71 Bromobenzene	0.89078	0.84078	0.010	5.6	50.0	Averaged
72 n-Propylbenzene	0.86125	0.82855	0.010	3.8	50.0	Averaged
73 2-Chlorotoluene	0.78140	0.76671	0.010	1.9	50.0	Averaged
74 1,3,5-Trimethylbenzene	2.52791	2.43426	0.010	3.7	50.0	Averaged
75 4-Chlorotoluene	0.84453	0.80881	0.010	4.2	50.0	Averaged
76 tert-Butylbenzene	2.18142	2.04592	0.010	6.2	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 08:45
 Lab File ID: ux74419.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RFSO	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
77 1,2,4-Trimethylbenzene	2.67097	2.57390	0.010	3.6	50.0	Averaged	
78 sec-Butylbenzene	2.75480	2.62207	0.010	4.8	50.0	Averaged	
79 4-Isopropyltoluene	2.51162	2.37094	0.010	5.6	50.0	Averaged	
80 1,3-Dichlorobenzene	1.68090	1.58334	0.010	5.8	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78812	1.64097	0.010	8.2	50.0	Averaged	
82 n-Butylbenzene	2.36039	2.18436	0.010	7.5	50.0	Averaged	
83 1,2-Dichlorobenzene	1.66145	1.50231	0.010	9.6	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.13027	0.11127	0.010	14.6	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.75601	0.61073	0.010	19.2	50.0	Averaged	
86 Hexachlorobutadiene	0.40490	0.28759	0.010	29.0	50.0	Averaged	
87 Naphthalene	1.66880	1.20830	0.010	27.6	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.60562	0.39630	0.010	34.6	50.0	Averaged	
98 Cyclohexane	0.53206	0.52003	0.010	2.3	50.0	Averaged	
143 Methyl Acetate	0.31013	0.25841	0.010	16.7	50.0	Averaged	
144 Methylcyclohexane	0.37329	0.37048	0.010	0.8	50.0	Averaged	
141 1,3,5-Trichlorobenzene	0.99386	0.80920	0.010	18.6	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 09:11
 Lab File ID: ux74420.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	MIN		MAX		CURVE TYPE
	RRP / AMOUNT	RF50	RRP	%D / %DRIFT	
14 Dichlorofluoromethane	0.22569	0.29296	0.010	-29.8	50.0 | Averaged
89 Ethyl Ether	0.20953	0.19520	0.010	6.8	50.0 | Averaged
91 3-Chloropropene	0.15040	0.14752	0.010	1.9	50.0 | Averaged
92 Isopropyl Ether	0.22791	0.22600	0.010	0.8	50.0 | Averaged
93 2-Chloro-1,3-butadiene	0.66576	0.66107	0.010	0.7	50.0 | Averaged
94 Propionitrile	0.03723	0.03298	0.010	11.4	50.0 | Averaged
95 Ethyl Acetate	0.26251	0.23123	0.010	11.9	50.0 | Averaged
96 Methacrylonitrile	0.18754	0.17525	0.010	6.6	50.0 | Averaged
97 Isobutanol	0.00872	0.00637	0.010	26.9	50.0 | Averaged|<-
99 n-Butanol	0.00455	0.00337	0.010	26.0	50.0 | Averaged|<-
100 Methyl Methacrylate	0.32906	0.28063	0.010	14.7	50.0 | Averaged
101 2-Nitropropane	0.08524	0.08268	0.010	3.0	50.0 | Averaged
103 Cyclohexanone	0.03550	0.03071	0.010	13.5	50.0 | Averaged

CLIENT NS Maxport		JOB NUMBER	
SUBJECT Sample Calc			
BASED ON MPT-64-GW-31-09 (DFV7810V)		DRAWING NUMBER	
BY DSS	CHECKED BY	APPROVED BY	DATE 10/10/00

Fraction: Volatile
 Matrix: Aqueous
 Compound: 1,1-Dichloroethane
 Form I: 14.0 ug/L

$$\text{ug/L} = \frac{A_x (I_s)(Df)}{A_s (RRF)(V_s)}$$

$A_x = 621503 \text{ Area}$

$I_s = 50 \text{ ng}$

$Df = 1$

$A_s = 677971 \text{ Area}$

$RRF = 0.64837$

$V_s = 5.0 \text{ ml}$

$$= \frac{621503 \text{ Area} (50.0 \text{ ng})(1)}{677971 \text{ Area} (0.64837)(5.0 \text{ ml})}$$

$$= 14.13 \text{ ng/ml or ug/L}$$

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3ux7.i/U00714B.b/ux74409.d
 Lab Smp Id: DFV7810V Client Smp ID: MPT-G4-GW-31-09
 Inj Date : 14-JUL-2000 21:04
 Operator : 43582 Inst ID: a3ux7.i
 Smp Info : DFV7810V,, SML/5ML
 Misc Info :
 Comment :
 Method : /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m
 Meth Date : 17-Jul-2000 07:39 evansl Quant Type: ISTD
 Cal Date : 14-JUL-2000 12:18 Cal File: ux74391.d
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-8260+IX.sub
 Target Version: 3.50
 Processing Host: hpuxcs3

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample volume
Va	100.00000	Injection Volume

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.539	9.542	(1.000)	677971	50.0000	
* 2 Chlorobenzene-d5	117	13.749	13.757	(1.000)	529250	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	17.278	17.280	(1.000)	269142	50.0000	
\$ 4 Dibromofluoromethane	113	8.633	8.647	(0.905)	200730	45.1339	9.027
\$ 5 1,2-Dichloroethane-d4	65	9.101	9.110	(0.954)	258886	44.4367	8.887
\$ 6 Toluene-d8	98	11.632	11.640	(0.846)	585021	43.4965	8.699
\$ 7 Bromofluorobenzene	95	15.702	15.704	(0.909)	238363	43.7365	8.747
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	4.563	4.553	(0.478)	7319	3.50267	0.7005
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
17 1,1-Dichloroethene	96	5.683	5.685	(0.596)	18865	5.09217	1.018
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	6.346	6.342	(0.665)	4355	1.01486	0.2030
22 Acetonitrile	41	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					
24 Methyl tert-butyl ether	73	Compound Not Detected.					
25 trans-1,2-Dichloroethene	96	6.717	6.731	(0.704)	19716	4.45482	0.8910
26 Hexane	86	Compound Not Detected.					
27 Vinyl acetate	43	Compound Not Detected.					
28 1,1-Dichloroethane	63	7.282	7.285	(0.763)	621503	70.6936	14.139
29 tert-Butyl Alcohol	59	Compound Not Detected.					
30 2-Butanone	43	Compound Not Detected.					
M 31 1,2-Dichloroethene (total)	96				153052	33.6982	6.740
32 cis-1,2-dichloroethene	96	8.043	8.039	(0.843)	133336	29.2434	5.849
33 2,2-Dichloropropane	77	Compound Not Detected.					
34 Bromochloromethane	128	Compound Not Detected.					
35 Chloroform	83	Compound Not Detected.					
36 Tetrahydrofuran	42	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 1,1-Dichloropropene	75	Compound Not Detected.					
39 Carbon Tetrachloride	117	Compound Not Detected.					
40 1,2-Dichloroethane	62	9.199	9.207	(0.964)	4557	0.55182	0.1104
41 Benzene	78	Compound Not Detected.					
42 Trichloroethene	130	10.020	10.028	(1.050)	8410	1.82877	0.3658
43 1,2-Dichloropropane	63	Compound Not Detected.					
44 1,4-Dioxane	88	Compound Not Detected.					
45 Dibromomethane	93	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
49 4-Methyl-2-pentanone	43	Compound Not Detected.					
50 Toluene	91	11.723	11.732	(0.853)	3874	0.21769	0.04354
51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
52 Ethyl Methacrylate	69	Compound Not Detected.					
53 1,1,2-Trichloroethane	97	Compound Not Detected.					
54 1,3-Dichloropropane	76	Compound Not Detected.					
55 Tetrachloroethene	164	Compound Not Detected.					
56 2-Hexanone	43	Compound Not Detected.					
57 Dibromochloromethane	129	Compound Not Detected.					
58 1,2-Dibromoethane	107	Compound Not Detected.					
59 Chlorobenzene	112	Compound Not Detected.					
60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61 Ethylbenzene	106	Compound Not Detected.					
62 m + p-Xylene	106	Compound Not Detected.					
M 63 Xylenes (total)	106	Compound Not Detected.					

UX7
Batch # 0195127

STL-North Canton
GC/MS VOA Run Log

2nd shift

Date: 7/14/07

Column Type: <u>LOW</u> Length: <u>100 M</u> I.D.: <u>0.25 mm</u> Flow Rate: <u>2ml/min</u>	BFB 100 C for <u>0.1 min</u> to <u>200 C</u> @ <u>20 C/min</u> Hold <u>min</u>	Analysis <u>45</u> for <u>2 min</u> to <u>400 C</u> @ <u>10 C/min</u> to <u>240 C</u> @ <u>15 C/min</u> Hold <u>min</u>	Purge & Trap Trap: <u>10</u> Purge: <u>4</u> Desorb: <u>2 min</u> @ <u>250</u> Bake: <u>6 min</u> @ <u>250</u> Heated Purge: Yes No
--	--	--	---

Auto num	Sample ID Workorder	Method	File Name	Amt. purged	Sample prep	Comments	Sample status
	BFB		DEFD551	500ug	As prep	(13:12)	OK
1	10L STD		WK74392	500ug		1100714	OK
2	A9 STD		93	L		L	OK
3	CHECK	DSAPP 102	94	100ug			OK
4	blank	DSAPP 101	95	5ug		0, 0.015, medly tal	OK
5	DEFNOM101	ED	96	40ug/5ug			OK
6	DEFNAP101	L	97	20ug/5ug		@ 40ug	
7	DEFOT301	S	98	5ug			OK
8	DEFNAP101	ED	99	40ug/5ug			OK
9	DEFAC10V		100	5ug			OK
10	DEFAC10V		01	3ug/5ug		@ 5ug	
11	DEFAC10V		02	5ug			OK
12	DEFADJ101		03				OK
13	DEFV6W1BL		04				OK
14	DEFV6W12M (S)		05		4100ug		OK
15	DEFV6W12M (O)		06		L		OK
16	DEFV7S10V		07				OK
17	DEFV7710V		08				OK
18	DEFV7810V		09				OK
19	DEFV7910V		10				OK
20	DEFV7C10V		11				OK
21	DEFV7D10V		12				OK
22	DEFV7E101		13			@ 2.5ml acetone	
23	DEFW0110V		14				OK
24	DEFW0410V		15				OK
25	DEFW0510V		16				OK
26	DEFW06101		17			@ 2.5ml (acetone)	
27	DEFW0810V	L	18				OK

7/14/07

Analyst: [Signature]
Second level Review: [Signature]

No 038

N:\QAQC\Lab Forms\voa run logs

**SDG NARRATIVE
MP016**

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.: SDG No.: MP016

Lab File ID: 6DF0706D

DFTPP Injection Date: 07/06/00

Instrument ID: A4HP6

DFTPP Injection Time: 0744

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.8
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Mass 69 relative abundance	78.4
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	4.72
441	Present, but less than mass 443	7.3
442	Greater than 40.0% of mass 198	48.6
443	17.0 - 23.0% of mass 442	9.3 (19.1)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0706	07/06/00	0802
02	SSTD004	SSTD004	6SL0706	07/06/00	0901
03	SSTD010	SSTD010	6SML0706	07/06/00	0939
04	SSTD024	SSTD024	6SMH0706	07/06/00	1017
05	SSTD032	SSTD032	6SH0706	07/06/00	1054
06	SSTD040	SSTD040	6SHH0706	07/06/00	1132
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SD
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP016

Lab File ID: 6DF0708D

DFTPP Injection Date: 07/08/00

Instrument ID: A4HP6

DFTPP Injection Time: 1943

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	66.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	52.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	3.84
441	Present, but less than mass 443	6.3
442	Greater than 40.0% of mass 198	42.4
443	17.0 - 23.0% of mass 442	8.2 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD004	ASTD004	6AL0708	07/08/00	2001
02	ASTD010	ASTD010	6AML0708	07/08/00	2038
03	ASTD016	ASTD016	6AM0708	07/08/00	2116
04	ASTD024	ASTD024	6AMH0708	07/08/00	2153
05	ASTD032	ASTD032	6AH0708	07/08/00	2230
06	ASTD040	ASTD040	6AHH0708	07/08/00	2308
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AL0708.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AML0708.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AM0708.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AMH0708.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AH0708.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AHH0708.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.64659	0.79016	0.75239	0.82999	0.86209	1.05669	0.82298	16.605
7 N-Nitrosomorpholine	1.19769	1.10715	1.24748	1.20768	1.22338	1.27820	1.21026	4.814
8 Ethyl methanesulfonate	2.04468	1.88761	2.07854	2.04831	2.02054	2.05882	2.02308	3.411
9 Pyridine	1.59151	1.84119	2.05722	1.70961	1.84064	1.94952	1.83162	9.054
10 N-Nitrosodimethylamine	1.45459	1.56024	1.58897	1.50257	1.63662	1.59917	1.55703	4.318
11 Ethyl methacrylate	1.90349	2.43027	2.04420	1.71958	2.22416	2.26260	2.09738	12.384
12 3-Chloropropionitrile	0.82784	0.93586	0.93627	0.89338	0.91595	0.87513	0.89741	4.644
13 Malononitrile	2.24459	2.30399	2.20850	2.18657	2.22916	2.09215	2.21083	3.188
14 2-Picoline	2.01979	2.04954	2.25732	2.43586	2.38600	2.61161	2.29335	10.053
15 N-Nitrosomethylethylamine	0.99413	0.98039	1.11086	0.99170	1.08530	0.87913	1.00692	8.235
16 Methyl methanesulfonate	1.96267	1.77509	1.81597	1.88888	1.82508	1.86175	1.85491	3.542
18 1,3-Dichloro-2-propanol	2.66466	2.62030	2.79011	2.89982	2.80207	2.89753	2.77908	4.163
19 N-Nitrosodiethylamine	0.91567	0.86228	0.95091	0.96413	0.94465	0.95615	0.93230	4.087
21 Aniline	2.88276	3.05380	3.08148	3.11588	3.28019	3.10523	3.08655	4.132
22 Phenol	2.69855	2.74194	2.73872	2.72707	2.89400	2.72332	2.75393	2.553
23 bis(2-Chloroethyl)ether	1.89760	1.88616	1.86573	1.86170	1.96770	1.84552	1.88740	2.302
24 2-Chlorophenol	1.27223	1.30509	1.27882	1.31895	1.40979	1.32802	1.31882	3.764
25 Pentachloroethane	0.60161	0.61821	0.65141	0.69641	0.69641	0.75371	0.66963	8.476
26 1,3-Dichlorobenzene	1.48782	1.52837	1.48077	1.54198	1.63383	1.59709	1.54498	3.914
27 1,4-Dichlorobenzene	1.47785	1.55826	1.51905	1.53218	1.65041	1.61378	1.55859	4.084
28 1,2-Dichlorobenzene	1.34420	1.40197	1.40313	1.42624	1.55797	1.52036	1.44231	5.591
29 Benzyl Alcohol	1.07521	1.12748	1.19118	1.24466	1.40474	1.29841	1.22361	9.750
30 2-Methylphenol	1.48040	1.58582	1.55740	1.60837	1.70750	1.57665	1.58602	4.661
31 bis(2-Chloroisopropyl)ether	1.43727	1.43955	1.52058	1.36365	1.41737	1.29505	1.41224	5.414
32 N-Nitroso-di-n-propylamine	2.00722	1.95264	2.06072	1.89014	1.98593	1.81254	1.95153	4.543

% RSD (2-methanol)
 0.0739 / 1.5860 = 4.659 (100)

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	3.05502	3.24135	3.28378	3.42218	3.76637	3.49458	3.37721	7.232
192 4-Methylphenol	1.57463	1.65553	1.72637	1.81381	2.05887	1.91793	1.79119	9.916
193 3-Methylphenol	1.79455	1.75115	1.97844	1.91840	2.00698	2.04472	1.91571	6.206
34 Hexachloroethane	0.73140	0.76096	0.77432	0.74510	0.79217	0.76973	0.76228	2.841
35 Nitrobenzene	0.79718	0.79699	0.81044	0.76976	0.81537	0.80421	0.79899	2.009
36 N-Nitrosopyrrolidine	0.89305	0.85119	0.96199	0.92735	0.93331	0.95873	0.92094	4.594
37 Acetophenone	2.66019	2.50343	2.82974	2.84495	2.84581	2.92026	2.76739	5.612
39 o-Toluidine	2.84006	2.63085	2.97870	3.09241	3.17816	3.25524	2.99590	7.723
40 N-Nitrosopiperidine	0.19718	0.20790	0.21785	0.22278	0.21994	0.22693	0.21543	5.094
41 Isophorone	1.28863	1.27657	1.37284	1.26168	1.34070	1.27643	1.30281	3.366
42 2-Nitrophenol	0.16609	0.17591	0.17350	0.18711	0.21313	0.20993	0.18761	10.523
43 2,4-Dimethylphenol	0.48970	0.50744	0.52001	0.51208	0.56245	0.54490	0.52276	5.072
44 Bis(2-Chloroethoxy)methane	0.65297	0.65835	0.64051	0.66000	0.71871	0.68779	0.66972	4.268
45 O,O,O-Triethyl phosphorothioa	0.22004	0.22576	0.24799	0.25934	0.26635	0.27869	0.24970	9.247
46 2,4-Toluediamene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.38071	0.38705	0.38992	0.39574	0.45436	0.46258	0.41173	8.895
48 2,4-Dichlorophenol	0.29988	0.31450	0.31754	0.32464	0.35941	0.35063	0.32777	6.947
49 Benzoic Acid	+++++	0.07375	0.12265	0.12511	0.13112	0.12407	0.11534	20.350 <-
50 1,2,4-Trichlorobenzene	0.34252	0.35095	0.36332	0.36390	0.40365	0.40175	0.37102	6.961
51 Naphthalene	1.03898	1.06586	1.07747	1.09049	1.21424	1.19054	1.11293	6.446
52 4-Chloroaniline	0.38579	0.42000	0.42123	0.44167	0.49381	0.47538	0.43965	9.007
53 a,a-Dimethyl-phenethylamine	0.44656	0.92684	0.50860	0.83938	0.81903	0.83734	0.72929	27.451
54 2,6-Dichlorophenol	0.28612	0.29342	0.34207	0.35122	0.35722	0.36596	0.33267	10.282
55 Hexachloropropene	0.21866	0.23425	0.25545	0.31618	0.32109	0.33907	0.28078	18.119
56 Hexachlorobutadiene	0.25425	0.25774	0.26883	0.28149	0.32590	0.33180	0.28667	11.890
57 1,2,3-Trichlorobenzene	0.35139	0.35312	0.36942	0.38286	0.43753	0.43721	0.38859	10.165
58 N-Nitrosodi-n-butylamine	0.45269	0.46304	0.48853	0.49381	0.49234	0.51646	0.48448	4.759
59 4-Chloro-3-Methylphenol	0.40172	0.42526	0.44983	0.43759	0.47578	0.45455	0.44079	5.805
60 p-Phenylene diamine	0.19525	0.27370	0.21982	0.38487	0.39665	0.42509	0.31590	31.264
61 Safrole	0.30982	0.30831	0.34040	0.34769	0.36065	0.37569	0.34043	7.962
62 2-Methylnaphthalene	0.68610	0.69722	0.71760	0.73540	0.83297	0.79793	0.74454	7.862
63 1-Methylnaphthalene	0.68321	0.68862	0.70810	0.71938	0.81330	0.78133	0.73232	7.235
64 Hexachlorocyclopentadiene	0.27815	0.32774	0.40150	0.42574	0.50433	0.56231	0.41663	25.470

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.59161	0.59227	0.68610	0.74049	0.79098	0.80587	0.70122	13.478
66 2,4,6-Trichlorophenol	0.35274	0.36587	0.38182	0.39933	0.43752	0.44242	0.39662	9.345
67 2,4,5-Trichlorophenol	0.34818	0.36918	0.37975	0.40128	0.44780	0.44939	0.39926	10.488
68 1,2,3,5-Tetrachlorobenzene	0.60535	0.61080	0.64135	0.67246	0.77539	0.80218	0.68459	12.362
69 1,4-Dinitrobenzene	0.11837	0.13350	0.16115	0.17466	0.18041	0.18305	0.15852	16.895
70 2-Chloronaphthalene	1.07395	1.10645	1.17692	1.25393	1.44477	1.47140	1.25457	13.517
71 Isosafrole 1	0.13939	0.14292	0.15369	0.15726	0.15707	0.15980	0.15169	5.578
M 188 Isosafrole, Total	1.07128	1.11383	1.29761	1.36962	1.47906	1.51239	1.30730	14.050
72 Isosafrole 2	0.93189	0.97090	1.14392	1.21236	1.32199	1.35259	1.15561	15.187
73 2-Nitroaniline	0.53222	0.58373	0.61730	0.62652	0.66504	0.66701	0.61530	8.343
74 1,2,3,4-Tetrachlorobenzene	0.56209	0.55558	0.56909	0.59572	0.67059	0.68050	0.60560	9.241
75 1,4-Naphthoquinone	0.34566	0.37181	0.41221	0.43779	0.44014	0.44917	0.40946	10.256
76 Dimethylphthalate	1.29578	1.31863	1.30018	1.35293	1.38962	1.41283	1.34499	3.609
77 m-Dinitrobenzene	0.15172	0.15629	0.17630	0.18604	0.18999	0.19184	0.17536	9.952
78 2,6-Dinitrotoluene	0.21517	0.24235	0.23980	0.25415	0.27465	0.27938	0.25092	9.529
79 Acenaphthylene	1.70448	1.74493	1.77316	1.90433	2.07874	2.11023	1.88598	9.286
80 1,2-Dinitrobenzene	0.11266	0.11914	0.12414	0.13657	0.14113	0.14557	0.12987	10.111
81 3-Nitroaniline	0.20581	0.21213	0.20353	0.24313	0.26876	0.26018	0.23226	12.420
82 Acenaphthene	1.09354	1.11301	1.13011	1.19670	1.31134	1.31560	1.19338	8.320
83 2,4-Dinitrophenol	+++++	0.05822	0.07811	0.09952	0.11723	0.11878	0.09437	27.613<-
84 Pentachlorobenzene	0.47187	0.49569	0.58090	0.61018	0.66213	0.68106	0.58364	14.658
85 4-Nitrophenol	+++++	0.22575	0.27172	0.28784	0.29779	0.31359	0.27934	12.028<-
86 Dibenzofuran	1.50506	1.54429	1.55249	1.65984	1.83602	1.84572	1.65724	9.127
87 2,4-Dinitrotoluene	0.28347	0.31753	0.33598	0.35624	0.38184	0.39006	0.34419	11.717
88 2,3,4,6-Tetrachlorophenol	0.21658	0.22567	0.28662	0.29693	0.31729	0.33379	0.27948	17.224
89 1-Naphthylamine	0.75187	0.87239	0.99556	1.06481	1.08624	1.19264	0.99392	15.997
90 Zinophos	0.43940	0.44687	0.45251	0.48082	0.49562	0.49142	0.46777	5.218
91 2,3,5,6-Tetrachlorophenol	0.26236	0.29596	0.31927	0.34062	0.38888	0.39400	0.33351	15.552
92 2-Naphthylamine	0.79986	0.85025	0.80202	0.92768	0.94416	1.01605	0.89000	9.755
93 Diethylphthalate	1.29141	1.28070	1.32376	1.31581	1.35282	1.38181	1.32439	2.860
94 Fluorene	1.26782	1.26851	1.31876	1.39561	1.56245	1.57168	1.39747	9.977
95 4-Chlorophenyl-phenylether	0.66088	0.65864	0.70470	0.71426	0.77555	0.80100	0.71917	8.148
96 4-Nitroaniline	0.17614	0.15687	0.18554	0.22835	0.24129	0.24312	0.20522	18.027

STL - North Canton

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Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.24407	0.23829	0.27573	0.29250	0.29405	0.30959	0.27571	10.470
98 4,6-Dinitro-2-methylphenol	++++	0.08183	0.09434	0.11335	0.13009	0.12764	0.10945	19.181<-
99 N-Nitrosodiphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
100 1,2-Diphenylhydrazine	1.66387	1.64154	1.74647	1.57690	1.66750	1.63413	1.65507	3.344
101 Diphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
102 Tetraethyl dithiopyrophosphat	0.10840	0.12096	0.13251	0.14311	0.15585	0.15200	0.13547	13.606
103 Diallate 1	1.05539	1.08962	1.13781	1.20528	1.23637	1.23284	1.15955	6.633
M 189 Diallate, Total	4.70416	4.28222	4.67869	4.51110	4.42999	4.54799	4.52569	3.485
104 Phorate	0.15485	0.16645	0.19263	0.21007	0.23435	0.23484	0.19886	16.988
105 1,3,5-Trinitrobenzene	0.04561	0.04556	0.06795	0.07470	0.08278	0.08952	0.06769	27.489
106 4-Bromophenyl-phenylether	0.23198	0.23739	0.24787	0.25148	0.29320	0.28697	0.25815	9.990
107 Hexachlorobenzene	0.21056	0.21545	0.23609	0.24014	0.29819	0.29119	0.24860	15.101
108 Phenacetin	0.39381	0.42738	0.48650	0.52136	0.53897	0.55442	0.48707	13.200
109 Diallate 2	0.16514	0.16925	0.17386	0.17293	0.17291	0.16908	0.17053	1.949
110 Dimethoate	0.40988	0.42393	0.45037	0.48079	0.46945	0.47181	0.45104	6.337
111 Pentachlorophenol	++++	0.09410	0.11460	0.12867	0.15659	0.15488	0.12977	20.581<-
112 Pentachloronitrobenzene	0.13908	0.13953	0.17200	0.18850	0.20585	0.21436	0.17655	18.313
113 4-Aminobiphenyl	0.50521	0.51154	0.71130	0.82007	0.94799	1.00195	0.74968	28.351
114 Pronamide	0.37523	0.38877	0.42833	0.45514	0.47206	0.48538	0.43415	10.335
115 Phenanthrene	1.12594	1.15503	1.19453	1.26294	1.47200	1.40596	1.26940	11.085
116 Anthracene	1.07069	1.09777	1.18165	1.18893	1.34998	1.32605	1.20251	9.553
117 Dinoseb	0.09725	0.09705	0.15594	0.17497	0.19788	0.20891	0.15533	31.325
118 Disulfoton	0.65325	0.65920	0.67635	0.70456	0.74153	0.72957	0.69408	5.320
119 Carbazole	0.88856	0.89240	0.87562	0.95072	1.09881	1.07158	0.96295	10.232
120 Di-n-Butylphthalate	1.39373	1.35904	1.40316	1.40402	1.58188	1.53891	1.44679	6.258
121 4-Nitroquinoline 1-oxide	0.03168	0.03669	0.06933	0.07702	0.09293	0.09987	0.06792	41.745
122 Methapyrilene	0.40822	0.47124	0.39003	0.45314	0.40540	0.42458	0.42544	7.297
123 Fluoranthene	1.22952	1.25569	1.31321	1.38272	1.63510	1.59412	1.40173	12.384
124 Benzidine	0.20435	0.21532	0.19464	0.24426	0.31543	0.32231	0.24938	22.607
125 Pyrene	1.56315	1.52547	1.30753	1.31840	1.19860	1.17099	1.34735	12.148
126 Aramite 1	0.08145	0.08164	0.08225	0.08824	0.08894	0.08957	0.08535	4.615
M 191 Aramite, Total	0.57691	0.51050	0.63107	0.57120	0.55569	0.58753	0.57215	6.904
127 Aramite 2	0.10220	0.11763	0.11409	0.12222	0.12506	0.12385	0.11751	7.278

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28356	0.30639	0.31473	0.34571	0.36354	0.37222	0.33102	10.548
129 p-Chlorobenzilate	0.61239	0.65119	0.66264	0.72461	0.75211	0.77515	0.69635	9.160
130 Famphur	0.50949	0.51233	0.35483	0.30627	0.20226	0.17982	0.34417	41.968
131 Butylbenzylphthalate	0.67287	0.65599	0.55957	0.53098	0.47461	0.45661	0.55844	16.169
132 3,3'-Dimethylbenzidine	0.42544	0.39316	0.39310	0.50697	0.53320	0.53654	0.46474	14.728
133 3,3'-Dimethoxybenzidine	0.17508	0.18540	0.18782	0.21812	0.26257	0.28681	0.21930	20.922
134 2-Acetylaminofluorene	0.38638	0.39809	0.46729	0.50115	0.51734	0.55310	0.47056	14.187
135 3,3'-Dichlorobenzidine	0.37064	0.38759	0.40643	0.42570	0.47111	0.45169	0.41886	9.130
136 Benzo(a)Anthracene	1.31246	1.33710	1.32155	1.30776	1.31852	1.27603	1.31224	1.552
137 Chrysene	1.14364	1.14690	1.05616	1.01452	0.98933	0.92503	1.04593	8.406
138 4,4'-Methylene bis(o-chloroa)	0.22299	0.21598	0.20779	0.21046	0.21939	0.20818	0.21413	2.943
139 bis(2-ethylhexyl)Phthalate	0.95889	0.92656	0.83147	0.74230	0.69316	0.66307	0.80257	15.332
140 Di-n-octylphthalate	1.83595	1.93623	1.90235	1.91054	2.09598	2.05058	1.95527	5.026
141 Benzo(b)fluoranthene	1.31786	1.40315	1.39812	1.50974	1.64736	1.61696	1.48220	8.875
142 Benzo(k)fluoranthene	1.24452	1.37650	1.40958	1.47502	1.73473	1.66760	1.48466	12.460
143 7,12-dimethylbenz(a)anthracen	0.57147	0.81368	0.82348	0.97019	1.07802	1.16770	0.90409	23.693
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
146 Benzo(a)pyrene	1.11718	1.20758	1.21735	1.27984	1.45590	1.38814	1.27767	9.793
148 3-Methylcholanthrene	0.70876	0.73653	0.79566	0.91659	0.99864	1.05313	0.86822	16.417
149 Indeno(1,2,3-cd)pyrene	0.87147	0.94466	0.94966	0.99531	1.12292	1.06732	0.99189	9.172
150 Dibenz(a,h)anthracene	0.83834	0.92320	0.95730	0.96714	1.12652	1.05577	0.97805	10.342
151 Benzo(g,h,i)perylene	0.92145	0.96064	0.98151	0.97578	1.10265	1.02616	0.99470	6.311
199 3-Picoline	1.74899	1.80612	1.97366	2.08895	2.29477	2.22596	2.02308	10.918
200 N,N-Dimethylacetamide	1.01001	1.03036	1.18630	1.17980	1.18447	1.21397	1.13415	7.875
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
209 Benzaldehyde	0.88459	1.07395	1.27556	1.38892	1.43425	1.16413	1.20356	17.143

STL - North Canton

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Start Cal Date : 06-JUL-2000 08:02
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
210 Caprolactam	0.11415	0.12030	0.12808	0.12272	0.12792	0.12310	0.12271	4.238
211 1,1'-Biphenyl	1.45983	1.52918	1.56424	1.73025	2.00058	2.02416	1.71804	14.250
212 Atrazine	0.22873	0.23726	0.23464	0.24601	0.26998	0.26203	0.24644	6.630
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

\$ 154 Nitrobenzene-d5	0.70648	0.71811	0.76715	0.72382	0.77007	0.75326	0.73982	3.668
\$ 155 2-Fluorobiphenyl	1.30504	1.30532	1.34161	1.40416	1.55826	1.57393	1.41472	8.681
\$ 156 Terphenyl-d14	0.97987	0.96425	0.86447	0.88080	0.82963	0.81718	0.88937	7.671
\$ 157 Phenol-d5	2.17540	2.27055	2.19865	2.24717	2.38514	2.23686	2.25230	3.265
\$ 158 2-Fluorophenol	1.32202	1.55630	1.51420	1.47374	1.54337	1.52647	1.48935	5.826
\$ 159 2,4,6-Tribromophenol	0.12158	0.12655	0.14359	0.15801	0.18314	0.19188	0.15413	18.834
\$ 186 2-Chlorophenol-d4	1.15418	1.19147	1.19461	1.21906	1.29538	1.23361	1.21472	3.947
\$ 187 1,2-Dichlorobenzene-d4	0.88915	0.91767	0.96644	0.97969	1.12123	1.11060	0.99746	9.771

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP016

Lab File ID: 6DF0710B

DFTPP Injection Date: 07/10/00

Instrument ID: A4HP6

DFTPP Injection Time: 0656

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	70.8
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	52.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.0% of mass 198	4.04
441	Present, but less than mass 443	6.5
442	Greater than 40.0% of mass 198	42.6
443	17.0 - 23.0% of mass 442	8.2 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0710	07/10/00	0714
02	ASTD016	ASTD016	6AM0710	07/10/00	0751
03	MPT-G4-GW-18	DFN48101	DFN48101	07/10/00	1055
04	MPT-G4-GW-19	DFN49101	DFN49101	07/10/00	1132
05	MPT-G4-GW-20	DFN4A101	DFN4A101	07/10/00	1209
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10/10/00
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STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 10-JUL-2000 07:14
 Lab File ID: 6SM0710.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00710a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.83162	1.93070	0.010	5.4	50.0
10 N-Nitrosodimethylamine	1.55703	1.57006	0.010	0.8	50.0
11 Ethyl methacrylate	2.09738	2.37416	0.010	13.2	50.0
12 3-Chloropropionitrile	0.89741	0.89494	0.010	-0.3	50.0
13 Malononitrile	2.21083	2.11717	0.010	-4.2	50.0
209 Benzaldehyde	1.20356	1.24590	0.010	3.5	50.0
21 Aniline	3.08655	3.05671	0.010	-1.0	50.0
22 Phenol	2.75393	2.80773	0.010	2.0	20.0
23 bis(2-Chloroethyl)ether	1.88740	1.79375	0.010	-5.0	50.0
24 2-Chlorophenol	1.31882	1.27987	0.010	-3.0	50.0
26 1,3-Dichlorobenzene	1.54498	1.47940	0.010	-4.2	50.0
27 1,4-Dichlorobenzene	1.55859	1.54271	0.010	-1.0	20.0
28 1,2-Dichlorobenzene	1.44231	1.39868	0.010	-3.0	50.0
29 Benzyl Alcohol	1.22361	1.24416	0.010	1.7	50.0
30 2-Methylphenol	1.58602	1.56714	0.010	-1.2	50.0
31 bis(2-Chloroisopropyl)ether	1.41224	1.40056	0.010	-0.8	50.0
37 Acetophenone	2.76739	2.52222	0.010	-8.9	50.0
32 N-Nitroso-di-n-propylamine	1.95153	1.99152	0.050	2.0	50.0
192 4-Methylphenol	1.79119	1.77392	0.010	-1.0	50.0
34 Hexachloroethane	0.76228	0.80093	0.010	5.1	50.0
35 Nitrobenzene	0.79899	0.81806	0.010	2.4	50.0
41 Isophorone	1.30281	1.35617	0.010	4.1	50.0
42 2-Nitrophenol	0.18761	0.18815	0.010	0.3	20.0
43 2,4-Dimethylphenol	0.52276	0.52955	0.010	1.3	50.0
44 bis(2-Chloroethoxy)methane	0.66972	0.63638	0.010	-5.0	50.0
46 2,4-Toluenediamene	++++	0.00674	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.41173	0.40294	0.010	-2.1	50.0
48 2,4-Dichlorophenol	0.32777	0.32823	0.010	0.1	20.0
49 Benzoic Acid	0.11534	0.14218	0.010	23.3	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.37227	0.010	0.3	50.0
51 Naphthalene	1.11293	1.09713	0.010	-1.4	50.0
52 4-Chloroaniline	0.43965	0.43880	0.010	-0.2	50.0
56 Hexachlorobutadiene	0.28667	0.27116	0.010	-5.4	20.0
210 Caprolactam	0.12271	0.12854	0.010	4.7	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.38210	0.010	-1.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 10-JUL-2000 07:14
 Lab File ID: 6SM0710.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00710a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.44079	0.45863	0.010	4.0	20.0
62 2-Methylnaphthalene	0.74454	0.73968	0.010	-0.7	50.0
63 1-Methylnaphthalene	0.73232	0.71864	0.010	-1.9	50.0
64 Hexachlorocyclopentadiene	0.41663	0.40509	0.050	-2.8	50.0
66 2,4,6-Trichlorophenol	0.39662	0.39502	0.010	-0.4	20.0
67 2,4,5-Trichlorophenol	0.39926	0.39827	0.010	-0.2	50.0
211 1,1'-Biphenyl	1.71804	1.68349	0.010	-2.0	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.65916	0.010	-3.7	50.0
70 2-Chloronaphthalene	1.25457	1.25228	0.010	-0.2	50.0
73 2-Nitroaniline	0.61530	0.65204	0.010	6.0	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.58850	0.010	-2.8	50.0
76 Dimethylphthalate	1.34499	1.31294	0.010	-2.4	50.0
78 2,6-Dinitrotoluene	0.25092	0.26063	0.010	3.9	50.0
79 Acenaphthylene	1.88598	1.84872	0.010	-2.0	50.0
80 1,2-Dinitrobenzene	0.12987	0.14088	0.010	8.5	50.0
81 3-Nitroaniline	0.23226	0.24565	0.010	5.8	50.0
82 Acenaphthene	1.19338	1.16117	0.010	-2.7	20.0
83 2,4-Dinitrophenol	0.09437	0.09339	0.050	-1.0	50.0
85 4-Nitrophenol	0.27934	0.30522	0.050	9.3	50.0
86 Dibenzofuran	1.65724	1.60651	0.010	-3.1	50.0
87 2,4-Dinitrotoluene	0.34419	0.36316	0.010	5.5	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.34191	0.010	2.5	50.0
93 Diethylphthalate	1.32439	1.37897	0.010	4.1	50.0
94 Fluorene	1.39747	1.37244	0.010	-1.8	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.73726	0.010	2.5	50.0
96 4-Nitroaniline	0.20522	0.23686	0.010	15.4	50.0
98 4,6-Dinitro-2-methylphenol	0.10945	0.10792	0.010	-1.4	50.0
99 N-Nitrosodiphenylamine	0.59293	0.57425	0.010	-3.2	20.0
100 1,2-Diphenylhydrazine	1.65507	1.70551	0.010	3.0	50.0
106 4-Bromophenyl-phenylether	0.25815	0.24930	0.010	-3.4	50.0
107 Hexachlorobenzene	0.24860	0.23028	0.010	-7.4	50.0
212 Atrazine	0.24644	0.25538	0.010	3.6	50.0
111 Pentachlorophenol	0.12977	0.12707	0.010	-2.1	20.0
115 Phenanthrene	1.26940	1.25286	0.010	-1.3	50.0
116 Anthracene	1.20251	1.22366	0.010	1.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 10-JUL-2000 07:14
 Lab File ID: 6SM0710.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00710a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.96295	0.96718	0.010	0.4	50.0
120 Di-n-Butylphthalate	1.44679	1.44345	0.010	-0.2	50.0
123 Fluoranthene	1.40173	1.38792	0.010	-1.0	20.0
124 Benzidine	0.24938	0.27606	0.010	10.7	50.0
125 Pyrene	1.34735	1.40685	0.010	4.4	50.0
131 Butylbenzylphthalate	0.55844	0.57559	0.010	3.1	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.21833	0.010	-0.4	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.39504	0.010	-5.7	50.0
136 Benzo(a)Anthracene	1.31224	1.28637	0.010	-2.0	50.0
137 Chrysene	1.04593	1.03984	0.010	-0.6	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.19989	0.010	-6.6	50.0
139 bis(2-ethylhexyl)Phthalate	0.80257	0.84079	0.010	4.8	50.0
140 Di-n-octylphthalate	1.95527	2.04279	0.010	4.5	20.0
141 Benzo(b)fluoranthene	1.48220	1.42346	0.010	-4.0	50.0
142 Benzo(k)fluoranthene	1.48466	1.43480	0.010	-3.4	50.0
146 Benzo(a)pyrene	1.27767	1.23136	0.010	-3.6	20.0
149 Indeno(1,2,3-cd)pyrene	0.99189	0.94639	0.010	-4.6	50.0
150 Dibenz(a,h)anthracene	0.97805	0.92561	0.010	-5.4	50.0
151 Benzo(g,h,i)perylene	0.99470	0.93832	0.010	-5.7	50.0
\$ 154 Nitrobenzene-d5	0.73982	0.79200	0.010	7.1	50.0
\$ 155 2-Fluorobiphenyl	1.41472	1.38965	0.010	-1.8	50.0
\$ 156 Terphenyl-d14	0.88937	0.93737	0.010	5.4	50.0
\$ 157 Phenol-d5	2.25230	2.24266	0.010	-0.4	50.0
\$ 158 2-Fluorophenol	1.48935	1.50623	0.010	1.1	50.0
\$ 159 2,4,6-Tribromophenol	0.15413	0.15124	0.010	-1.9	50.0
\$ 186 2-Chlorophenol-d4	1.21472	1.19332	0.010	-1.8	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99746	0.98020	0.010	-1.7	50.0
M 195 Cresols, total	3.37721	3.34106	0.010	-1.1	50.0
101 Diphenylamine	0.59293	0.57425	0.010	-3.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 10-JUL-2000 07:51
 Lab File ID: 6AM0710.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00710a.b\8270c.m

COMPOUND	RF16		MIN	MAX	
	RRF	RF16	RRF	%D	%D
7 N-Nitrosomorpholine	1.21026	1.23883	0.010	2.4	50.0
8 Ethyl methanesulfonate	2.02308	2.05740	0.010	1.7	50.0
14 2-Picoline	2.29335	2.20560	0.010	-3.8	50.0
15 N-Nitrosomethylethylamine	1.00692	1.08004	0.010	7.3	50.0
16 Methyl methanesulfonate	1.85491	1.77536	0.010	-4.3	50.0
18 1,3-Dichloro-2-propanol	2.77908	2.78064	0.010	0.1	50.0
19 N-Nitrosodiethylamine	0.93230	0.93275	0.010	0.0	50.0
25 Pentachloroethane	0.66963	0.66214	0.010	-1.1	50.0
36 N-Nitrosopyrrolidine	0.92094	0.96400	0.010	4.7	50.0
37 Acetophenone	2.76739	2.81132	0.010	1.6	50.0
39 o-Toluidine	2.99590	3.00813	0.010	0.4	50.0
40 N-Nitrosopiperidine	0.21543	0.21812	0.010	1.2	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.24818	0.010	-0.6	50.0
53 a,a-Dimethyl-phenethylamine	0.72929	0.43305	0.010	-40.6	50.0
54 2,6-Dichlorophenol	0.33267	0.34418	0.010	3.5	50.0
55 Hexachloropropene	0.28078	0.28322	0.010	0.9	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.48282	0.010	-0.3	50.0
60 p-Phenylene diamine	0.31590	0.22311	0.010	-29.4	50.0
61 Safrole	0.34043	0.33998	0.010	-0.1	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.69012	0.010	-1.6	50.0
71 Isosafrole 1	0.15169	0.15132	0.010	-0.2	50.0
M 188 Isosafrole, Total	1.30730	1.28740	0.010	-1.5	50.0
72 Isosafrole 2	1.15561	1.13608	0.010	-1.7	50.0
75 1,1-Naphthoquinone	0.40946	0.41640	0.010	1.7	50.0
81 Pentachlorobenzene	0.58364	0.58946	0.010	1.0	50.0
89 1-Naphthylamine	0.99392	1.00885	0.010	1.5	50.0
92 2-Naphthylamine	0.89000	0.82845	0.010	-6.9	50.0
90 Zinophos	0.46777	0.46086	0.010	-1.5	50.0
102 Tetracthyl dithiopyrophosph	0.13547	0.12462	0.010	-8.0	50.0
103 Diallate 1	1.15955	1.03625	0.010	-6.3	50.0
M 109 Diallate, Total	4.52559	4.72129	0.010	4.3	50.0
109 Diallate 2	0.17053	0.15938	0.010	-6.5	50.0
104 Phorate	0.19885	0.13735	0.010	-5.8	50.0
105 1,3,5-Trinitrobenzene	0.05769	0.07932	0.010	17.3	50.0
103 Phenacetin	0.43707	0.45406	0.010	1.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 10-JUL-2000 07:51
 Lab File ID: 6AM0710.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00710a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.45104	0.45369	0.010	0.6	50.0
112 Pentachloronitrobenzene	0.17655	0.17738	0.010	0.5	50.0
113 4-Aminobiphenyl	0.74968	0.72935	0.010	-2.7	50.0
114 Pronamide	0.43415	0.41901	0.010	-3.5	50.0
117 Dinoseb	0.15533	0.17360	0.010	11.8	50.0
118 Disulfoton	0.69408	0.64454	0.010	-7.1	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.08304	0.010	22.3	50.0
122 Methapyrilene	0.42544	0.37867	0.010	-11.0	50.0
126 Aramite 1	0.08535	0.08150	0.010	-4.5	50.0
M 191 Aramite, Total	0.57215	0.67833	0.010	18.6	50.0
127 Aramite 2	0.11751	0.11341	0.010	-3.5	50.0
128 p-Dimethylamino azobenzene	0.33102	0.31555	0.010	-4.7	50.0
129 p-Chlorobenzilate	0.69635	0.64036	0.010	-8.0	50.0
130 Famphur	0.34417	0.35297	0.010	2.6	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.43494	0.010	-6.4	50.0
134 2-Acetylaminofluorene	0.47056	0.50601	0.010	7.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.90409	0.79447	0.010	-12.1	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
149 3-Methylcholanthrene	0.86822	0.81799	0.010	-5.8	50.0
123 3-Methylphenol	1.91571	2.09933	0.010	9.6	50.0
69 1,4-Dinitrobenzene	0.15852	0.17545	0.010	10.7	50.0
77 m-Dinitrobenzene	0.17536	0.19434	0.010	10.8	50.0
198 1,4-Dioxane	0.82298	0.74236	0.010	-9.8	50.0
88 2,3,4,6-Tetrachlorophenol	0.27548	0.30720	0.010	9.9	50.0
97 5-Nitro-o-toluidine	0.27571	0.30133	0.010	9.3	50.0
100 3-Picoline	2.02308	1.91564	0.010	-5.3	50.0
200 N,N-Dimethylacetamide	1.13415	1.17679	0.010	3.8	50.0

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP016

Lab File ID: 6DF0712B

DFTPP Injection Date: 07/12/00

Instrument ID: A4HP6

DFTPP Injection Time: 0616

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	72.8
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	40.0 - 60.0% of mass 198	54.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	3.91
441	Present, but less than mass 443	6.0
442	Greater than 40.0% of mass 198	41.6
443	17.0 - 23.0% of mass 442	7.9 (19.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0712	07/12/00	0634
02	ASTD016	ASTD016	6AM0712	07/12/00	0710
03	DFQKGCHK	DFQKG102	DFQKG102	07/12/00	0823
04	MPT-G4-GW-21	DFN4E101	DFN4E101	07/12/00	0900
05	MPT-G4-GW-22	DFN4F101	DFN4F101	07/12/00	0936
06	MPT-G4-GW-23	DFN4G101	DFN4G101	07/12/00	1013
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Data File: \\qcanoh05\dd\chem\MSS\a4hp6.i\00712a.b\6SM0712.D
 Report Date: 12-Jul-2000 06:05

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 12-JUL-2000 06:34
 Lab File ID: 6SM0712.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00712a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.83162	2.26580	0.010	23.7	50.0
10 N-Nitrosodimethylamine	1.55703	1.51164	0.010	-2.9	50.0
11 Ethyl methacrylate	2.05738	2.30594	0.010	9.9	50.0
12 3-Chloropropionitrile	0.89741	0.92845	0.010	3.5	50.0
13 Malononitrile	2.21083	2.22561	0.010	0.7	50.0
209 Benzaldehyde	1.20356	1.27762	0.010	6.2	50.0
21 Aniline	3.08655	3.19549	0.010	3.5	50.0
22 Phenol	2.75393	2.81874	0.010	2.4	20.0
23 bis(2-Chloroethyl) ether	1.88740	1.85659	0.010	-1.6	50.0
24 2-Chlorophenol	1.31882	1.30146	0.010	-1.3	50.0
26 1,3-Dichlorobenzene	1.54498	1.46834	0.010	-5.0	50.0
27 1,4-Dichlorobenzene	1.55859	1.50057	0.010	-3.7	20.0
28 1,2-Dichlorobenzene	1.44231	1.38817	0.010	-3.8	50.0
29 Benzyl Alcohol	1.22361	1.30196	0.010	6.4	50.0
30 2-Methylphenol	1.58602	1.59740	0.010	0.7	50.0
31 bis(2-Chloroisopropyl) ether	1.41224	1.54108	0.010	9.1	50.0
37 Acetophenone	2.76739	2.55860	0.010	-7.5	50.0
32 N-Nitroso-di-n-propylamine	1.95153	2.07436	0.050	6.3	50.0
192 4-Methylphenol	1.79119	1.79886	0.010	0.4	50.0
34 Hexachloroethane	0.76228	0.77388	0.010	1.5	50.0
35 Nitrobenzene	0.79999	0.82506	0.010	3.3	50.0
41 Isophorone	1.30281	1.35038	0.010	3.7	50.0
42 2-Nitrophenol	0.18761	0.19291	0.010	2.8	20.0
43 2,4-Dimethylphenol	0.52276	0.51982	0.010	-0.6	50.0
44 bis(2-Chloroethoxy)methane	0.66272	0.64008	0.010	-4.4	50.0
46 2,4-Toluenediamine	++++	0.00727	0.010	+++	50.0
47 1,3,5-Trichlorobenzene	0.41173	0.38594	0.010	-6.3	50.0
48 2,4-Dichlorophenol	0.32777	0.32203	0.010	-1.8	20.0
49 Benzoic Acid	0.12524	0.16517	0.010	43.2	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.36488	0.010	-1.7	50.0
51 Naphthalene	1.11293	1.07267	0.010	-3.6	50.0
52 4-Chloroaniline	0.43965	0.45132	0.010	2.7	50.0
56 Hexachlorobutadiene	0.28667	0.26453	0.010	-7.7	20.0
210 Caprolactam	0.13273	0.13253	0.010	8.0	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.36712	0.010	-5.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 12-JUL-2000 06:34
 Lab File ID: 6SM0712.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANO05\dd\chem\MSS\a4hp6.i\00712a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.44079	0.46011	0.010	4.4	20.0
62 2-Methylnaphthalene	0.74454	0.73124	0.010	-1.8	50.0
63 1-Methylnaphthalene	0.73232	0.71601	0.010	-2.2	50.0
64 Hexachlorocyclopentadiene	0.41663	0.42247	0.050	1.4	50.0
66 2,4,6-Trichlorophenol	0.39662	0.40228	0.010	1.4	20.0
67 2,4,5-Trichlorophenol	0.39926	0.40874	0.010	2.4	50.0
211 1,1'-Biphenyl	1.71804	1.66166	0.010	-3.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.66007	0.010	-3.6	50.0
70 2-Chloronaphthalene	1.35457	1.26398	0.010	0.8	50.0
73 2-Nitroaniline	0.61530	0.72272	0.010	17.5	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.57483	0.010	-5.1	50.0
76 Dimethylphthalate	1.34499	1.31423	0.010	-2.3	50.0
78 2,6-Dinitrotoluene	0.25092	0.26959	0.010	7.4	50.0
79 Acenaphthylene	1.88598	1.85392	0.010	-1.7	50.0
80 1,2-Dinitrobenzene	0.12987	0.14316	0.010	10.2	50.0
81 3-Nitroaniline	0.23226	0.28149	0.010	21.2	50.0
82 Acenaphthene	1.19338	1.18232	0.010	-0.9	20.0
83 2,4-Dinitrophenol	0.09437	0.11285	0.050	19.6	50.0
85 4-Nitrophenol	0.27934	0.36406	0.050	30.3	50.0
86 Dibenzofuran	1.65724	1.64277	0.010	-0.9	50.0
87 2,4-Dinitrotoluene	0.34419	0.38134	0.010	10.8	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.35658	0.010	6.9	50.0
93 Diethylphthalate	1.32439	1.36600	0.010	3.1	50.0
94 Fluorone	1.37767	1.40733	0.010	0.7	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.72930	0.010	1.4	50.0
96 4-Nitroaniline	0.29522	0.29410	0.010	38.6	50.0
98 4,6-Dinitro-2-methylphenol	0.19945	0.11223	0.010	3.5	50.0
99 N-Nitrosodiphenylamine	0.59293	0.55783	0.010	-5.9	20.0
100 1,2-Diphenylhydrazine	1.05507	1.68763	0.010	3.0	50.0
105 4-Bromophenyl-phenylether	0.25915	0.24221	0.010	-6.2	50.0
107 Hexachlorobenzene	0.24669	0.22059	0.010	-11.3	50.0
212 Alrazine	0.21644	0.21296	0.010	-1.4	50.0
111 Pentachlorophenol	0.12277	0.13635	0.010	5.1	20.0
115 Phenanthrene	1.26910	1.24244	0.010	-2.1	50.0
116 Anthracene	1.20251	1.24092	0.010	3.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 12-JUL-2000 06:34
 Lab File ID: GSM0712.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00712a.b\8270c.m

COMPOUND	RRP	RP16	MIN RRP	%D	MAX %D
119 Carbazole	0.96295	1.03488	0.010	7.5	50.0
120 Di-n-Butylphthalate	1.44679	1.40257	0.010	-3.1	50.0
123 Fluoranthene	1.40173	1.46962	0.010	4.8	20.0
124 Benzidine	0.24938	0.27069	0.010	8.5	50.0
125 Pyrene	1.34735	1.15941	0.010	-13.9	50.0
131 Butylbenzylphthalate	0.55844	0.48507	0.010	-13.1	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.23283	0.010	6.2	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.42422	0.010	1.3	50.0
136 Benzo(a)Anthracene	1.31224	1.27770	0.010	-2.6	50.0
137 Chrysene	1.04593	0.98963	0.010	-5.5	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.20304	0.010	-5.2	50.0
139 bis(2-ethylhexyl)Phthalate	0.80257	0.70698	0.010	-11.9	50.0
140 Di-n-octylphthalate	1.95527	1.89953	0.010	-2.9	20.0
141 Benzo(b)fluoranthene	1.18220	1.45886	0.010	-1.6	50.0
142 Benzo(k)fluoranthene	1.48465	1.50745	0.010	1.5	50.0
146 Benzo(a)pyrene	1.27767	1.28413	0.010	0.5	20.0
147 Indeno(1,2,3-cd)pyrene	0.99189	0.92623	0.010	-6.6	50.0
150 Dibenz(a,h)anthracene	0.97205	0.94838	0.010	-3.0	50.0
151 Benzo(g,h,i)perylene	0.99170	0.91098	0.010	-8.4	50.0
§ 151 Nitrobenzene-d5	0.73982	0.81488	0.010	10.1	50.0
§ 155 2-Fluorodiphenyl	1.41472	1.36461	0.010	-3.5	50.0
§ 156 Terphenyl-d14	0.68237	0.77770	0.010	-12.6	50.0
§ 157 Phenol-d5	2.25230	2.27222	0.010	0.9	50.0
§ 158 3-Fluorophenol	1.43935	1.42983	0.010	0.0	50.0
§ 159 2,4,6-Tribromophenol	0.15113	0.15068	0.010	3.0	50.0
§ 166 2-Chlorophenol-d4	1.21472	1.17327	0.010	-3.4	50.0
§ 187 1,2-Dichlorobenzene-di	0.99746	0.98276	0.010	-1.5	50.0
§ 195 Cresols, total	3.37721	3.39626	0.010	0.6	50.0
191 Diphenylamine	0.59292	0.55783	0.010	-5.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 12-JUL-2000 07:10
 Lab File ID: 6AM0712.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\44hp6.i\00712a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.21026	1.17209	0.010	-3.2	50.0
8 Ethyl methanesulfonate	2.02308	1.92967	0.010	-4.6	50.0
14 2-Picoline	2.29335	1.99676	0.010	-12.9	50.0
15 N-Nitrosomethylethylamine	1.00692	1.00446	0.010	-0.2	50.0
16 Methyl methanesulfonate	1.95491	1.67759	0.010	-9.6	50.0
19 1,3-Dichloro-2-propanol	2.77908	2.70716	0.010	-2.6	50.0
19 N-Nitrosodiethylamine	0.93230	0.87203	0.010	-6.5	50.0
25 Pentachloroethane	0.66963	0.63989	0.010	-4.4	50.0
36 N-Nitrosopyrrolidine	0.92094	0.89564	0.010	-2.7	50.0
37 Acetophenone	2.76739	2.59467	0.010	-6.2	50.0
39 o-Toluidine	2.99590	2.78726	0.010	-7.0	50.0
40 N-Nitrosopiperidine	0.21543	0.20432	0.010	-5.2	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.21732	0.010	-13.0	50.0
53 o,o-Dimethyl-phenethylamine	0.72929	0.98286	0.010	34.8	50.0
54 2,6-Dichlorophenol	0.33267	0.30575	0.010	-8.1	50.0
55 Hexachloropropene	0.28078	0.27183	0.010	-3.2	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.45633	0.010	-5.8	50.0
60 p-Phenylene diamine	0.31590	0.39553	0.010	22.0	50.0
61 Safrole	0.34043	0.30573	0.010	-10.2	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.65592	0.010	-6.5	50.0
71 Isosafrole 1	0.15160	0.15390	0.010	1.5	50.0
M 180 Isosafrole, Total	1.30720	1.23706	0.010	-5.4	50.0
73 Isosafrole 2	1.15561	1.08316	0.010	-5.3	50.0
75 1,4-Naphthoquinone	0.40946	0.41426	0.010	1.2	50.0
84 Pentachlorobenzene	0.58364	0.51934	0.010	-5.9	50.0
89 1-Naphthylamine	0.99392	1.12114	0.010	12.8	50.0
92 2-Naphthylamine	0.89600	1.01263	0.010	12.1	50.0
90 Zinophos	0.45777	0.49018	0.010	4.9	50.0
102 Tetrachyl dithiopyrophosph	0.13517	0.12302	0.010	-3.2	50.0
103 Diallate 1	1.15960	1.10302	0.010	-4.0	50.0
M 189 Diallate, Total	4.52809	4.34101	0.010	-2.5	50.0
109 Diallate 2	0.19380	0.18474	0.010	-3.4	50.0
104 Phorate	0.19886	0.17764	0.010	-10.7	50.0
105 1,3,5-Trinitrobenzene	0.00769	0.07287	0.010	12.1	50.0
108 Ithencotin	0.19707	0.23814	0.010	10.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 12-JUL-2000 07:10
 Lab File ID: 6AM0712.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp6.i\00712a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.45104	0.47534	0.010	5.4	50.0
112 Pentachloronitrobenzene	0.17655	0.15561	0.010	-11.9	50.0
113 4-Aminobiphenyl	0.74268	0.69477	0.010	-7.3	50.0
114 Pronamide	0.43415	0.40927	0.010	-5.7	50.0
117 Dinoseb	0.15533	0.13678	0.010	-11.9	50.0
119 Disulfoton	0.69408	0.67609	0.010	-2.6	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.06539	0.010	-3.7	50.0
122 Methapyrilene	0.42544	0.48748	0.010	14.6	50.0
126 Aramite 1	0.08535	0.07463	0.010	-12.6	50.0
121 Aramite, Total	0.57215	0.61477	0.010	7.4	50.0
127 Aramite 2	0.11751	0.10861	0.010	-7.6	50.0
128 p-Dimethylamino azobenzene	0.33102	0.30366	0.010	-8.3	50.0
129 p-Chlorobenzilate	0.62635	0.60845	0.010	-12.6	50.0
130 Famphur	0.34417	0.30094	0.010	13.6	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.50365	0.010	8.4	50.0
134 2-Acetylaminofluorene	0.47056	0.50026	0.010	6.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.90409	0.69527	0.010	-24.3	50.0
144 Hexachlorophene	+++	0.00061	0.010	+++	50.0<-
145 Hexachlorophene product	+++	+++	0.010	+++	50.0<-
143 3-Methylcholanthrene	0.66222	0.65661	0.010	-21.4	50.0
193 3-Methylphenol	1.91571	1.87050	0.010	-2.4	50.0
69 1,4-Dinitrobenzene	0.15852	0.10048	0.010	20.2	50.0
77 m-Dinitrobenzene	0.17536	0.20154	0.010	14.9	50.0
123 1,4-Dioxane	0.22203	0.71630	0.010	-10.0	50.0
88 2,3,4,6-Tetrachlorophenol	0.27245	0.29615	0.010	6.0	50.0
97 5-Nitro-o-toluidine	0.27571	0.32553	0.010	19.5	50.0
192 3-Picoline	2.02362	1.91085	0.010	-3.5	50.0
200 N,N-Dimethylacetamide	1.13415	1.14584	0.010	1.3	50.0

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP016

Lab File ID: 9DF0717A

DFTPP Injection Date: 07/17/00

Instrument ID: A4HP9

DFTPP Injection Time: 1140

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.7 (1.2)1
69	Mass 69 relative abundance	54.4
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	52.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.0% of mass 198	3.40
441	Present, but less than mass 443	9.6
442	Greater than 40.0% of mass 198	57.7
443	17.0 - 23.0% of mass 442	11.0 (19.1)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	9SM0717	07/17/00	1204
02	SSTD004	SSTD004	9SL0717	07/17/00	1241
03	SSTD010	SSTD010	9SML0717	07/17/00	1318
04	SSTD024	SSTD024	9SMH0717	07/17/00	1355
05	SSTD032	SSTD032	9SH0717	07/17/00	1432
06	SSTD040	SSTD040	9SHH0717	07/17/00	1509
07					
08					
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16					
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20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SL0717.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SML0717.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SMO717.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SMH0717.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SH0717.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SHH0717.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.93366	0.89733	0.86426	0.88527	0.84569	0.80259	0.87147	5.180
7 N-Nitrosomorpholine	1.04861	1.05866	0.98106	0.96443	0.91806	0.88247	0.97555	7.156
8 Ethyl methanesulfonate	1.56458	1.53870	1.51060	1.55861	1.52269	1.48999	1.53086	1.874
9 Pyridine	1.40316	1.23735	1.39596	1.23307	1.24082	1.35294	1.31055	6.282
10 N-Nitrosodimethylamine	1.17691	1.18875	1.24848	1.16198	1.19885	1.15335	1.18805	2.861
11 Ethyl methacrylate	1.76958	1.85650	1.77456	1.71065	1.37234	1.34308	1.63779	13.558
12 3-Chloropropionitrile	1.19438	1.21675	1.09770	1.16294	1.16613	1.09140	1.15488	4.395
13 Malononitrile	1.89398	1.98543	1.84526	1.89271	1.90252	1.73823	1.87635	4.343
14 2-Picoline	1.89383	1.97355	1.88158	2.03429	1.97801	1.95009	1.95189	2.921
15 N-Nitrosomethylethylamine	0.95192	0.93985	0.95871	1.00613	0.99337	0.97498	0.97083	2.620
16 Methyl methanesulfonate	1.34330	1.30879	1.18838	1.27282	1.22122	1.18968	1.25403	5.149
18 1,3-Dichloro-2-propanol	2.22860	2.18629	2.15218	2.17329	2.09931	2.07017	2.15164	2.707
19 N-Nitrosodiethylamine	0.90832	0.89241	0.86547	0.87384	0.84954	0.82747	0.86951	3.346
21 Aniline	2.59412	2.69446	2.63534	2.68279	2.79136	2.57525	2.66222	2.961
22 Phenol	2.54822	2.48947	2.43246	2.43081	2.49476	2.28322	2.44649	3.730
23 bis(2-Chloroethyl)ether	1.95676	1.93485	1.85803	1.86478	1.90766	1.73379	1.87598	4.242
24 2-Chlorophenol	1.33347	1.30028	1.28406	1.30944	1.37549	1.26152	1.31071	3.043
25 Pentachloroethane	0.62395	0.59998	0.59391	0.60144	0.59081	0.58373	0.59897	2.308
26 1,3-Dichlorobenzene	1.50622	1.50762	1.45414	1.47930	1.53589	1.45506	1.48971	2.186
27 1,4-Dichlorobenzene	1.50002	1.50268	1.46815	1.48867	1.54079	1.45089	1.49187	2.083
28 1,2-Dichlorobenzene	1.38932	1.37243	1.35627	1.42529	1.52066	1.41935	1.41389	4.149
29 Benzyl Alcohol	1.05538	1.07969	1.05065	1.11785	1.19374	1.07604	1.09556	4.898
30 2-Methylphenol	1.61646	1.54766	1.51515	1.58577	1.64460	1.46757	1.56287	4.212
31 bis(2-Chloroisopropyl)ether	2.42934	2.31706	2.43017	2.14225	2.07712	1.91426	2.21837	9.398
32 N-Nitroso-di-n-propylamine	1.70212	1.60538	1.53112	1.53174	1.56062	1.38729	1.55305	6.656

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	3.22202	3.11176	3.10064	3.20014	3.34466	2.99427	3.16225	3.817
192 4-Methylphenol	1.60556	1.56410	1.58549	1.61437	1.70006	1.52670	1.59938	3.659
193 3-Methylphenol	1.32482	1.50273	1.45421	1.52131	1.47584	1.45387	1.45546	4.765
34 Hexachloroethane	0.75920	0.76295	0.74995	0.76094	0.77702	0.72758	0.75627	2.188
35 Nitrobenzene	0.69418	0.68568	0.65475	0.62813	0.62559	0.61001	0.64972	5.296
36 N-Nitrosopyrrolidine	0.74504	0.77072	0.74246	0.76012	0.73509	0.72252	0.74599	2.317
37 Acetophenone	2.47478	2.41260	2.40882	2.43764	2.49264	2.23751	2.41067	3.781
39 o-Toluidine	2.02015	2.10787	2.11717	2.16489	2.09757	1.97857	2.08104	3.297
40 N-Nitrosopiperidine	0.21194	0.21088	0.20372	0.21175	0.20677	0.20280	0.20798	1.980
41 Isophorone	1.19678	1.18556	1.18232	1.08777	1.11533	1.06452	1.13871	4.985
42 2-Nitrophenol	0.18175	0.18148	0.18552	0.18555	0.20237	0.19277	0.18824	4.268
43 2,4-Dimethylphenol	0.47597	0.49140	0.48231	0.46537	0.49157	0.46944	0.47934	2.301
44 bis(2-Chloroethoxy)methane	0.64601	0.64781	0.60456	0.60373	0.63090	0.60394	0.62283	3.430
45 O,O,O-Triethyl phosphorothioa	0.21383	0.20469	0.19823	0.20495	0.19877	0.19450	0.20249	3.389
46 2,4-Toluenediamene	++++	++++	++++	++++	++++	++++	++++	++++ <-
47 1,3,5-Trichlorobenzene	0.35403	0.35531	0.35044	0.34931	0.37237	0.36549	0.35782	2.556
48 2,4-Dichlorophenol	0.29062	0.29642	0.29252	0.28891	0.30686	0.29447	0.29496	2.173
49 Benzoic Acid	0.10867	0.11824	0.13847	0.13244	0.14451	0.13864	0.13016	10.623
50 1,2,4-Trichlorobenzene	0.32306	0.32179	0.32820	0.31557	0.33123	0.32233	0.32370	1.687
51 Naphthalene	1.03587	1.03330	1.02503	1.00940	1.06159	1.03035	1.03259	1.650
52 4-Chloroaniline	0.33996	0.36898	0.35972	0.35805	0.38587	0.37168	0.36404	4.245
53 a,a-Dimethyl-phenethylamine	0.57373	0.93555	1.04402	1.10259	1.08313	1.00187	0.95682	20.589
54 2,6-Dichlorophenol	0.24679	0.26398	0.25271	0.27083	0.25761	0.25615	0.25801	3.278
55 Hexachloropropene	0.18964	0.21320	0.20284	0.22259	0.21552	0.21790	0.21028	5.734
56 Hexachlorobutadiene	0.23010	0.23397	0.22417	0.23052	0.24604	0.23723	0.23367	3.194
57 1,2,3-Trichlorobenzene	0.32500	0.32685	0.32029	0.31674	0.33923	0.32640	0.32575	2.358
58 N-Nitrosodi-n-butylamine	0.37077	0.38258	0.37308	0.37383	0.36223	0.35981	0.37040	2.255
59 4-Chloro-3-Methylphenol	0.40812	0.41156	0.41900	0.40103	0.41639	0.39325	0.40823	2.375
60 p-Phenylene diamine	0.08526	0.11742	0.19465	0.23837	0.26508	0.23234	0.18885	38.200
61 Safrole	0.28888	0.28812	0.27716	0.28362	0.27475	0.27348	0.28100	2.414
62 2-Methylnaphthalene	0.66064	0.66906	0.67024	0.66386	0.70851	0.67888	0.67520	2.587
63 1-Methylnaphthalene	0.66838	0.67959	0.67528	0.67680	0.72070	0.68645	0.68453	2.727
64 Hexachlorocyclopentadiene	0.25265	0.28330	0.29814	0.30213	0.37256	0.34342	0.30870	13.914

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.58490	0.54080	0.54346	0.55790	0.53606	0.53118	0.54905	3.598
66 2,4,6-Trichlorophenol	0.36753	0.38549	0.37403	0.37614	0.44204	0.38589	0.38852	6.986
67 2,4,5-Trichlorophenol	0.35998	0.38381	0.36834	0.36872	0.39647	0.37836	0.37594	3.476
68 1,2,3,5-Tetrachlorobenzene	0.57024	0.55842	0.55898	0.56806	0.65505	0.60355	0.58572	6.450
69 1,4-Dinitrobenzene	0.12236	0.16354	0.17100	0.18402	0.17292	0.17758	0.16523	13.364
70 2-Chloronaphthalene	1.04398	1.06701	1.07615	1.09214	1.22803	1.14361	1.10849	6.081
71 Isosafrole 1	0.14714	0.14465	0.15080	0.15885	0.15144	0.15186	0.15079	3.216
M 188 Isosafrole, Total	0.98796	0.97559	0.98638	1.01193	0.95737	0.96100	0.98004	2.049
72 Isosafrole 2	0.84082	0.83094	0.83558	0.85308	0.80593	0.80913	0.82925	2.219
73 2-Nitroaniline	0.49362	0.51550	0.47862	0.46206	0.47000	0.46397	0.48063	4.289
74 1,2,3,4-Tetrachlorobenzene	0.52534	0.51676	0.50850	0.51262	0.58425	0.53616	0.53061	5.291
75 1,4-Naphthoquinone	0.28559	0.35449	0.35663	0.38466	0.36457	0.36799	0.35231	9.763
76 Dimethylphthalate	1.32769	1.25659	1.26304	1.19848	1.26849	1.19669	1.25183	3.924
77 m-Dinitrobenzene	0.14372	0.18233	0.18800	0.20045	0.18814	0.18796	0.18177	10.766
78 2,6-Dinitrotoluene	0.26331	0.27555	0.27528	0.25930	0.27240	0.25295	0.26646	3.517
79 Acenaphthylene	1.67006	1.69665	1.67080	1.67967	1.76766	1.73364	1.70308	2.323
80 1,2-Dinitrobenzene	0.12834	0.13512	0.13070	0.12232	0.12801	0.12269	0.12786	3.806
81 3-Nitroaniline	0.20162	0.21367	0.19449	0.20672	0.21091	0.19930	0.20445	3.565
82 Acenaphthene	1.06534	1.06700	1.05850	1.06362	1.12429	1.10197	1.08012	2.470
83 2,4-Dinitrophenol	+++++	0.06685	0.07891	0.08420	0.10419	0.09356	0.08554	16.605 <-
84 Pentachlorobenzene	0.43986	0.41935	0.42121	0.42977	0.41278	0.41680	0.42329	2.337
85 4-Nitrophenol	0.19970	0.24615	0.22593	0.22818	0.23031	0.21259	0.22381	7.126
86 Dibenzofuran	1.42624	1.45509	1.40300	1.40640	1.46665	1.45165	1.43484	1.870
87 2,4-Dinitrotoluene	0.33888	0.34261	0.36122	0.33848	0.34677	0.32880	0.34279	3.156
88 2,3,4,6-Tetrachlorophenol	0.11691	0.18753	0.19983	0.21859	0.21746	0.23005	0.19506	21.096
89 1-Naphthylamine	0.71477	0.80851	0.84726	0.87195	0.85161	0.85951	0.82560	7.067
90 Zinophos	0.37998	0.39211	0.40005	0.39745	0.38534	0.37900	0.38899	2.293
91 2,3,5,6-Tetrachlorophenol	0.26136	0.29217	0.29410	0.29195	0.31824	0.30632	0.29402	6.475
92 2-Naphthylamine	0.63311	0.75788	0.75869	0.70945	0.71646	0.71395	0.71492	6.406
93 Diethylphthalate	1.29359	1.26970	1.31575	1.20846	1.28529	1.21183	1.26410	3.510
94 Fluorene	1.20649	1.24464	1.24113	1.22789	1.28435	1.22555	1.23834	2.122
95 4-Chlorophenyl-phenylether	0.60930	0.61565	0.62460	0.60957	0.62959	0.59611	0.61414	1.953
96 4-Nitroaniline	0.17392	0.17333	0.16051	0.18638	0.20292	0.17840	0.17924	7.994

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.19557	0.26698	0.26497	0.27407	0.27054	0.26481	0.25616	11.670
98 4,6-Dinitro-2-methylphenol	+++++	0.11137	0.11810	0.12166	0.13700	0.12548	0.12272	7.759
99 N-Nitrosodiphenylamine	0.62609	0.62797	0.59113	0.57760	0.61898	0.59327	0.60584	3.497
100 1,2-Diphenylhydrazine	1.51460	1.44467	1.41133	1.30253	1.32935	1.30428	1.38446	6.252
101 Diphenylamine	0.62609	0.62797	0.59113	0.57760	0.61898	0.59327	0.60584	3.497
102 Tetraethyl dithiopyrophosphat	0.12316	0.11782	0.12371	0.12069	0.11762	0.11539	0.11973	2.783
103 Diallate 1	1.20273	1.03291	1.03614	0.95724	0.89504	0.85047	0.99575	12.590
M 189 Diallate, Total	3.74733	3.69140	3.51873	3.29596	3.12571	3.00477	3.39732	8.946
104 Phorate	0.20747	0.19007	0.19730	0.18709	0.17839	0.17638	0.18945	6.179
105 1,3,5-Trinitrobenzene	0.04202	0.07036	0.08189	0.08802	0.09006	0.08864	0.07683	24.135
106 4-Bromophenyl-phenylether	0.22794	0.23163	0.22389	0.22154	0.24053	0.23239	0.22965	2.963
107 Hexachlorobenzene	0.23101	0.23806	0.23692	0.24908	0.26397	0.26663	0.24761	6.024
108 Phenacetin	0.27985	0.41879	0.44878	0.47041	0.46378	0.45038	0.42200	17.031
109 Diallate 2	0.20358	0.18465	0.19599	0.19486	0.18826	0.18425	0.19193	3.941
110 Dimethoate	0.38088	0.45241	0.47789	0.46208	0.45002	0.44938	0.44544	7.502
111 Pentachlorophenol	0.07905	0.10841	0.11768	0.11843	0.13437	0.11691	0.11248	16.373
112 Pentachloronitrobenzene	0.12767	0.12699	0.13142	0.13057	0.12599	0.12763	0.12838	1.661
113 4-Aminobiphenyl	0.44315	0.47066	0.53066	0.57691	0.59753	0.56603	0.53082	11.649
114 Pronamide	0.37111	0.37424	0.39407	0.38212	0.37426	0.37021	0.37767	2.400
115 Phenanthrene	1.17454	1.17154	1.16107	1.16493	1.30998	1.20914	1.19853	4.774
116 Anthracene	1.03444	1.11611	1.11346	1.05219	1.13077	1.07603	1.08717	3.576
117 Dinoseb	+++++	0.12036	0.13892	0.16639	0.16800	0.17948	0.15463	15.692
118 Disulfoton	0.71869	0.65104	0.68348	0.62423	0.58912	0.56110	0.63794	9.205
119 Carbazole	0.85180	0.90601	0.82651	0.85384	0.91502	0.85707	0.86838	3.975
120 Di-n-Butylphthalate	1.45736	1.50506	1.50718	1.40684	1.49864	1.44614	1.47020	2.746
121 4-Nitroquinoline 1-oxide	+++++	0.03172	0.03609	0.05592	0.05473	0.06390	0.04847	28.558
122 Methapyrilene	0.31161	0.47791	0.46235	0.48559	0.47381	0.38247	0.43229	16.224
123 Fluoranthene	1.06650	1.17413	1.13679	1.14451	1.21515	1.12918	1.14438	4.325
124 Benzidine	0.18044	0.24088	0.21354	0.30534	0.41568	0.42616	0.29701	35.164
125 Pyrene	1.63806	1.62620	1.67160	1.57947	1.60141	1.59353	1.61836	2.086
126 Aramite 1	0.08629	0.09088	0.10502	0.09831	0.10299	0.10202	0.09758	7.633
M 191 Aramite, Total	0.34485	0.48680	0.49330	0.49380	0.49630	0.50257	0.46960	13.059
127 Aramite 2	0.12863	0.12870	0.14744	0.13609	0.14147	0.14136	0.13728	5.521

Handwritten notes:
 7.850
 0.0135 (RSD)
 0.0454
 28.5

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28771	0.30464	0.33592	0.31801	0.32598	0.31899	0.31521	5.375
129 p-Chlorobenzilate	0.73097	0.63237	0.71645	0.63848	0.65852	0.64840	0.67086	6.281
130 Famphur	0.53751	0.54268	0.54389	0.39370	0.36170	0.33387	0.45223	21.999
131 Butylbenzylphthalata	0.80819	0.79119	0.77755	0.75022	0.73828	0.72147	0.76448	4.352
132 3,3'-Dimethylbenzidine	0.21032	0.23927	0.35734	0.32753	0.41691	0.33463	0.31434	24.399
133 3,3'-Dimethoxybenzidine	0.22541	0.22351	0.18423	0.26015	0.31505	0.30736	0.25262	20.351
134 2-Acetylaminofluorane	0.16082	0.34672	0.38962	0.46359	0.44818	0.48714	0.38268	31.426
135 3,3'-Dichlorobenzidine	0.38042	0.41209	0.38830	0.43241	0.47752	0.44946	0.42337	6.771
136 Benzo(a)Anthracene	1.33253	1.33986	1.29028	1.29538	1.32829	1.27765	1.31067	1.984
137 Chrysene	1.22208	1.26245	1.21545	1.34238	1.45145	1.36082	1.30911	7.048
138 4,4'-Methylene bis(o-chloroan)	0.22444	0.23434	0.22864	0.26288	0.28904	0.27211	0.25191	10.522
139 bis(2-ethylhexyl)Phthalate	1.15479	1.09514	1.07518	1.04946	1.04019	0.97389	1.06478	5.671
140 Di-n-octylphthalate	2.28916	2.25705	2.35004	2.28361	2.29898	2.17008	2.27482	2.624
141 Benzo(b)fluoranthene	1.35861	1.32686	1.34063	1.37741	1.49218	1.37895	1.37911	4.280
142 Benzo(k)fluoranthene	1.32988	1.37362	1.36984	1.41879	1.51433	1.42952	1.40600	4.565
143 7,12-dimethylbenz[a]anthracen	0.84750	0.77811	0.69031	0.83648	0.85736	0.82031	0.80501	7.788
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.12857	1.15207	1.15656	1.16306	1.24979	1.18284	1.17215	3.573
148 3-Methylcholanthrene	0.61316	0.70049	0.59301	0.78202	0.76385	0.77100	0.70392	11.842
149 Indeno(1,2,3-cd)pyrene	0.84134	0.89583	0.86431	0.86192	0.97284	0.91247	0.89145	5.310
150 Dibenz(a,h)anthracene	0.82760	0.88203	0.84997	0.87353	0.98287	0.93934	0.89255	6.504
151 Benzo(g,h,i)perylene	0.79640	0.86675	0.82742	0.83888	0.93550	0.89708	0.86034	5.852
199 3-Picoline	1.45389	1.61156	1.55239	1.68733	1.64248	1.59822	1.59098	5.083
200 N,N-Dimethylacetamide	1.37290	1.45899	1.42716	1.48982	1.46465	1.41541	1.43815	2.901
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.86399	1.03935	1.15584	1.25464	1.27539	1.07682	1.11101	13.768

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.13491	0.14248	0.14403	0.13030	0.13213	0.12770	0.13526	4.912
211 1,1'-Biphenyl	1.31883	1.32624	1.31917	1.39017	1.47358	1.44307	1.37851	4.937
212 Atrazine	0.24286	0.25001	0.25644	0.24490	0.25931	0.24456	0.24968	2.741
\$ 154 Nitrobenzene-d5	0.68885	0.67979	0.68080	0.62734	0.63775	0.62635	0.65681	4.459
\$ 155 2-Fluorobiphenyl	1.24961	1.25061	1.24504	1.23280	1.39036	1.27249	1.27348	4.608
\$ 156 Terphenyl-d14	1.04365	1.04634	1.07526	1.03761	1.05522	1.04945	1.05125	1.250
\$ 157 Phenol-d5	2.07827	2.07953	2.01232	2.06298	2.13556	1.94981	2.05308	3.123
\$ 158 2-Fluorophenol	1.32713	1.55718	1.50931	1.51559	1.56689	1.49963	1.49596	5.817
\$ 159 2,4,6-Tribromophenol	0.12966	0.13630	0.13671	0.13135	0.15058	0.13893	0.13725	5.394
\$ 186 2-Chlorophenol-d4	1.17709	1.16398	1.15374	1.20453	1.28635	1.17704	1.19379	4.058
\$ 187 1,2-Dichlorobenzene-d4	0.90167	0.89520	0.90560	0.91210	0.96184	0.89072	0.91119	2.846

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.: SDG No.: MP016

Lab File ID: 9DF0720B
190

DFTPP Injection Date: 07/20/00

Instrument ID: A4HP9

DFTPP Injection Time: 0731

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	See Raw data (next pg)
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	40.0 - 60.0% of mass 198	
197	Less than 1.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 to 9.0% of mass 198	
275	10.0 - 30.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	Greater than 40.0% of mass 198	
443	17.0 - 23.0% of mass 442	() 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	9SM0719	07/19/00	0732
02	ASID016	ASTD016	9AM0719	07/19/00	0809
03	MPT-G4-GW-24	DFRC7101	DFRC7101	07/19/00	1416
04	MPT-G4-GW-25	DFRCA101	DFRCA101	07/19/00	1452
05	MPT-G4-GW-26	DFRCD101	DFRCD101	07/19/00	1529
06	MPT-G4-GW-27	DFRCE101	DFRCE101	07/19/00	1606
07	MPT-G4-GW-28	DFV6W101	DFV6W101	07/19/00	1642
08	MPT-G4-GW-28	DFV6W102	DFV6W102	07/19/00	1719
09	MPT-G4-GW-28	DFV6W103	DFV6W103	07/19/00	1755
10	MPT-G4-GW-29	DFV75101	DFV75101	07/19/00	1832
11	MPT-G4-GW-30	DFV77101	DFV77101	07/19/00	1908
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Data File: \\qcanoh05\dd\chem\HSS\44hp9.1\00719d.b\9df0719c.d

Date : 19-JUL-2000 07:32

Client ID:

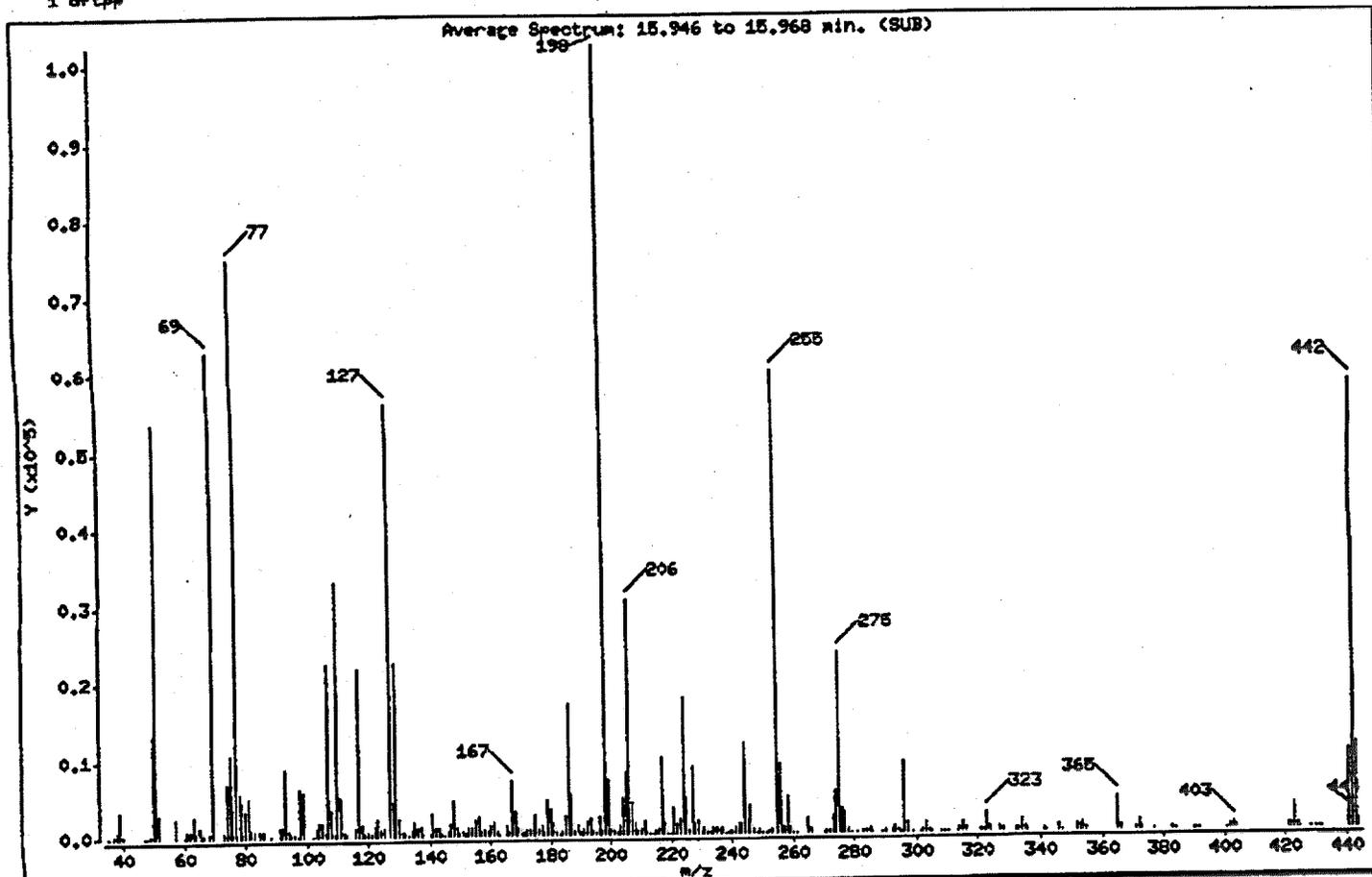
Instrument: 44hp9.1

Sample Info: sstd016,00719a.b.82700,1-827042.sub,2

Operator: 001710

Column phase:
1 dftpp

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.42
68	Less than 2.00% of mass 69	0.57 (0.93)
69	Mass 69 relative abundance	61.42
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	54.61
197	Less than 1.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	22.66
365	Greater than 1.00% of mass 198	4.06
441	Present, but less than mass 443	9.87
442	Greater than 40.00% of mass 198	56.75
443	17.00 - 23.00% of mass 442	10.77 (18.98)

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 19-JUL-2000 07:32
 Lab File ID: 9SM0719.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.31055	1.25648	0.010	-4.1	50.0
10 N-Nitrosodimethylamine	1.18805	1.12552	0.010	-5.3	50.0
11 Ethyl methacrylate	1.63779	1.80032	0.010	9.9	50.0
12 3-Chloropropionitrile	1.15488	1.22394	0.010	6.0	50.0
13 Malononitrile	1.87635	1.90724	0.010	1.6	50.0
209 Benzaldehyde	1.11101	1.21974	0.010	9.8	50.0
21 Aniline	2.66222	2.62703	0.010	-1.3	50.0
22 Phenol	2.44649	2.48516	0.010	1.6	20.0
23 bis(2-Chloroethyl)ether	1.87598	1.91882	0.010	2.3	50.0
24 2-Chlorophenol	1.31071	1.29652	0.010	-1.1	50.0
26 1,3-Dichlorobenzene	1.48971	1.46366	0.010	-1.7	50.0
27 1,4-Dichlorobenzene	1.49187	1.47582	0.010	-1.1	20.0
28 1,2-Dichlorobenzene	1.41389	1.39592	0.010	-1.3	50.0
29 Benzyl Alcohol	1.09556	1.07352	0.010	-2.0	50.0
30 2-Methylphenol	1.56287	1.54857	0.010	-0.9	50.0
31 bis(2-Chloroisopropyl)ether	2.21837	2.61045	0.010	17.7	50.0
37 Acetophenone	2.41067	2.45567	0.010	1.9	50.0
32 N-Nitroso-di-n-propylamine	1.55305	1.65826	0.050	6.8	50.0
192 4-Methylphenol	1.59938	1.58864	0.010	-0.7	50.0
34 Hexachloroethane	0.75627	0.79934	0.010	5.7	50.0
35 Nitrobenzene	0.64972	0.68501	0.010	5.4	50.0
41 Isophorone	1.13871	1.21199	0.010	6.4	50.0
42 2-Nitrophenol	0.18824	0.17836	0.010	-5.3	20.0
43 2,4-Dimethylphenol	0.47934	0.48498	0.010	1.2	50.0
44 bis(2-Chloroethoxy)methane	0.62283	0.60782	0.010	-2.4	50.0
46 2,4-Toluenediamine	++++	0.00400	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.35782	0.35167	0.010	-1.7	50.0
48 2,4-Dichlorophenol	0.29496	0.28190	0.010	-4.4	20.0
49 Benzoic Acid	0.13016	0.09914	0.010	-23.8	50.0
50 1,2,4-Trichlorobenzene	0.32370	0.33227	0.010	2.6	50.0
51 Naphthalene	1.03259	1.01564	0.010	-1.6	50.0
52 4-Chloroaniline	0.36404	0.33182	0.010	-8.9	50.0
56 Hexachlorobutadiene	0.23367	0.22681	0.010	-2.9	20.0
210 Caprolactam	0.13526	0.11883	0.010	-12.1	50.0
57 1,2,3-Trichlorobenzene	0.32575	0.31870	0.010	-2.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 19-JUL-2000 07:32
 Lab File ID: 9SM0719.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.40823	0.41196	0.010	0.9	20.0
62 2-Methylnaphthalene	0.67520	0.65708	0.010	-2.7	50.0
63 1-Methylnaphthalene	0.68453	0.66301	0.010	-3.1	50.0
64 Hexachlorocyclopentadiene	0.30870	0.26056	0.050	-15.6	50.0
66 2,4,6-Trichlorophenol	0.38852	0.36687	0.010	-5.6	20.0
67 2,4,5-Trichlorophenol	0.37594	0.35063	0.010	-6.7	50.0
211 1,1'-Biphenyl	1.37851	1.36540	0.010	-1.0	50.0
68 1,2,3,5-Tetrachlorobenzene	0.58572	0.57821	0.010	-1.3	50.0
70 2-Chloronaphthalene	1.10849	1.11465	0.010	0.6	50.0
73 2-Nitroaniline	0.48063	0.50953	0.010	6.0	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53061	0.52084	0.010	-1.8	50.0
76 Dimethylphthalate	1.25183	1.27993	0.010	2.2	50.0
78 2,6-Dinitrotoluene	0.26646	0.26236	0.010	-1.5	50.0
79 Acenaphthylene	1.70308	1.65507	0.010	-2.8	50.0
80 1,2-Dinitrobenzene	0.12786	0.12605	0.010	-1.4	50.0
81 3-Nitroaniline	0.20445	0.18345	0.010	-10.3	50.0
82 Acenaphthene	1.08012	1.05883	0.010	-2.0	20.0
83 2,4-Dinitrophenol	0.08554	0.06767	0.050	-20.9	50.0
85 4-Nitrophenol	0.22381	0.17369	0.050	-22.4	50.0
86 Dibenzofuran	1.43484	1.40923	0.010	-1.8	50.0
87 2,4-Dinitrotoluene	0.34279	0.35221	0.010	2.7	50.0
91 2,3,5,6-Tetrachlorophenol	0.29402	0.28421	0.010	-3.3	50.0
93 Diethylphthalate	1.26410	1.31978	0.010	4.4	50.0
94 Fluorene	1.23834	1.22554	0.010	-1.0	50.0
95 4-Chlorophenyl-phenylether	0.61414	0.62639	0.010	2.0	50.0
96 4-Nitroaniline	0.17924	0.15312	0.010	-14.6	50.0
98 4,6-Dinitro-2-methylphenol	0.12272	0.10740	0.010	-12.5	50.0
99 N-Nitrosodiphenylamine	0.60584	0.56209	0.010	-7.2	20.0
100 1,2-Diphenylhydrazine	1.38446	1.52272	0.010	10.0	50.0
106 4-Bromophenyl-phenylether	0.22965	0.22272	0.010	-3.0	50.0
107 Hexachlorobenzene	0.24761	0.23220	0.010	-6.2	50.0
212 Atrazine	0.24968	0.24026	0.010	-3.8	50.0
111 Pentachlorophenol	0.11248	0.11593	0.010	3.1	20.0
115 Phenanthrene	1.19853	1.16817	0.010	-2.5	50.0
116 Anthracene	1.08717	1.12020	0.010	3.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 19-JUL-2000 07:32
 Lab File ID: 9SM0719.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.86838	0.82956	0.010	-4.5	50.0
120 Di-n-Butylphthalate	1.47020	1.48374	0.010	0.9	50.0
123 Fluoranthene	1.14438	1.18812	0.010	3.8	20.0
124 Benzidine	0.29701	0.10727	0.010	-63.9	50.0
125 Pyrene	1.61838	1.71537	0.010	6.0	50.0
131 Butylbenzylphthalate	0.76448	0.81939	0.010	7.2	50.0
133 3,3'-Dimethoxybenzidine	0.25262	0.09033	0.010	-64.2	50.0
135 3,3'-Dichlorobenzidine	0.42337	0.35064	0.010	-17.2	50.0
136 Benzo(a)Anthracene	1.31067	1.28993	0.010	-1.6	50.0
137 Chrysene	1.30911	1.25680	0.010	-4.0	50.0
138 4,4'-Methylene bis(o-chloro	0.25191	0.19635	0.010	-22.1	50.0
139 bis(2-ethylhexyl)Phthalate	1.06478	1.14878	0.010	7.9	50.0
140 Di-n-octylphthalate	2.27482	2.61165	0.010	14.8	20.0
141 Benzo(b)fluoranthene	1.37911	1.35718	0.010	-1.6	50.0
142 Benzo(k)fluoranthene	1.40600	1.43588	0.010	2.1	50.0
146 Benzo(a)pyrene	1.17215	1.14313	0.010	-2.5	20.0
149 Indeno(1,2,3-cd)pyrene	0.89145	0.93519	0.010	4.9	50.0
150 Dibenz(a,h)anthracene	0.89255	0.76631	0.010	-14.1	50.0
151 Benzo(g,h,i)perylene	0.86034	0.76601	0.010	-11.0	50.0
\$ 154 Nitrobenzene-d5	0.65681	0.70911	0.010	8.0	50.0
\$ 155 2-Fluorobiphenyl	1.27348	1.27537	0.010	0.1	50.0
\$ 156 Terphenyl-d14	1.05125	1.11524	0.010	6.1	50.0
\$ 157 Phenol-d5	2.05308	2.03017	0.010	-1.1	50.0
\$ 158 2-Fluorophenol	1.49596	1.56392	0.010	4.5	50.0
\$ 159 2,4,6-Tribromophenol	0.13725	0.12923	0.010	-5.8	50.0
\$ 186 2-Chlorophenol-d4	1.19379	1.17491	0.010	-1.6	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.91119	0.91626	0.010	0.6	50.0
M 195 Cresols, total	3.16225	3.13720	0.010	-0.8	50.0
101 Diphenylamine	0.60584	0.56209	0.010	-7.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 19-JUL-2000 08:09
 Lab File ID: 9AM0719.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.97555	1.26910	0.010	30.1	50.0
8 Ethyl methanesulfonate	1.53086	1.69294	0.010	10.6	50.0
14 2-Picoline	1.95189	1.93593	0.010	-0.8	50.0
15 N-Nitrosomethylethylamine	0.97083	0.92148	0.010	-5.1	50.0
16 Methyl methanesulfonate	1.25403	1.45539	0.010	16.1	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.30874	0.010	7.3	50.0
19 N-Nitrosodiethylamine	0.86951	0.91228	0.010	4.9	50.0
25 Pentachloroethane	0.59897	0.64919	0.010	8.4	50.0
36 N-Nitrosopyrrolidine	0.74599	0.89129	0.010	19.5	50.0
37 Acetophenone	2.41067	2.51598	0.010	4.4	50.0
39 o-Toluidine	2.08104	2.53696	0.010	21.9	50.0
40 N-Nitrosopiperidine	0.20798	0.19555	0.010	-6.0	50.0
45 O,O,O-Triethyl phosphorothi	0.20249	0.20634	0.010	1.9	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.71445	0.010	-25.3	50.0
54 2,6-Dichlorophenol	0.25801	0.28116	0.010	9.0	50.0
55 Hexachloropropene	0.21028	0.21534	0.010	2.4	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.39908	0.010	7.7	50.0
60 p-Phenylene diamine	0.18885	0.11764	0.010	-37.7	50.0
61 Safrole	0.28100	0.29440	0.010	4.8	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.59690	0.010	8.7	50.0
71 Isosafrole 1	0.15079	0.15518	0.010	2.9	50.0
M 188 Isosafrole, Total	0.98004	1.12638	0.010	14.9	50.0
72 Isosafrole 2	0.82925	0.97119	0.010	17.1	50.0
75 1,4-Naphthoquinone	0.35231	0.33983	0.010	-3.5	50.0
84 Pentachlorobenzene	0.42329	0.45649	0.010	7.8	50.0
89 1-Naphthylamine	0.82560	0.80826	0.010	-2.1	50.0
92 2-Naphthylamine	0.71492	0.60853	0.010	-14.9	50.0
90 Zinophos	0.38899	0.44964	0.010	15.6	50.0
102 Tetraethyl dithiopyrophosph	0.11973	0.14680	0.010	22.6	50.0
103 Diallate 1	0.99575	1.16222	0.010	16.7	50.0
M 189 Diallate, Total	3.39732	3.99692	0.010	17.6	50.0
109 Diallate 2	0.19193	0.20658	0.010	7.6	50.0
104 Phorate	0.18945	0.21595	0.010	14.0	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.07777	0.010	1.2	50.0
108 Phenacetin	0.42200	0.51359	0.010	21.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 19-JUL-2000 08:09
 Lab File ID: 9AM0719.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00719a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	RD	MAX RD
110 Dimethoate	0.44544	0.49117	0.010	10.3	50.0
112 Pentachloronitrobenzene	0.12838	0.16825	0.010	31.1	50.0
113 4-Aminobiphenyl	0.53082	0.47199	0.010	-11.1	50.0
114 Pronamide	0.37767	0.44117	0.010	16.8	50.0
117 Dinoseb	0.15463	0.17610	0.010	13.9	50.0
118 Disulfoton	0.63794	0.69852	0.010	9.5	50.0
121 4-Nitroquinoline 1-oxide	0.04847	0.03341	0.010	-31.1	50.0
122 Methapyrilene	0.43229	0.36290	0.010	-16.1	50.0
126 Aramite 1	0.09758	0.10588	0.010	8.5	50.0
M 191 Aramite, Total	0.46960	0.52967	0.010	12.8	50.0
127 Aramite 2	0.13728	0.14830	0.010	8.0	50.0
128 p-Dimethylamino azobenzene	0.31521	0.32702	0.010	3.7	50.0
129 p-Chlorobenzilate	0.67086	0.76000	0.010	13.3	50.0
130 Pamphur	0.45223	0.52496	0.010	16.1	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.34176	0.010	8.7	50.0
134 2-Acetylaminofluorene	0.38268	0.45462	0.010	18.8	50.0
143 7,12-dimethylbenz(a)anthrac	0.80501	0.70122	0.010	-12.9	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0|<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0|<-
148 3-Methylcholanthrene	0.70392	0.61084	0.010	-13.2	50.0
193 3-Methylphenol	1.45546	1.76990	0.010	21.6	50.0
69 1,4-Dinitrobenzene	0.16523	0.15956	0.010	-3.4	50.0
77 m-Dinitrobenzene	0.18177	0.17648	0.010	-2.9	50.0
198 1,4-Dioxane	0.87147	0.67966	0.010	-22.0	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.23362	0.010	19.8	50.0
97 5-Nitro-o-toluidine	0.25616	0.23410	0.010	-8.6	50.0
199 3-Picoline	1.59098	1.70254	0.010	7.0	50.0
200 N,N-Dimethylacetamide	1.43815	1.65972	0.010	15.4	50.0

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP016

Lab File ID: 9DF0720B

DFTPP Injection Date: 07/20/00

Instrument ID: A4HP9

DFTPP Injection Time: 0752

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	54.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.0% of mass 198	3.93
441	Present, but less than mass 443	9.7
442	Greater than 40.0% of mass 198	56.1
443	17.0 - 23.0% of mass 442	10.7 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	9SM0720	07/20/00	0752
02	ASTD016	ASTD016	9AM0720	07/20/00	0828
03	DFW4CBLK	DFW4C101	DFW4C101	07/20/00	0905
04	DFW4CCHK	DFW4C102	DFW4C102	07/20/00	0941
05	MPT-G4-GW-32	DFV79101	DFV79101	07/20/00	1018
06	MPT-G4-GW-31	DFV78101	DFV78101	07/20/00	1055
07	MPT-G4-GW-DU	DFV7C101	DFV7C101	07/20/00	1131
08	MPT-G4-GW-33	DFV7D101	DFV7D101	07/20/00	1208
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STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 20-JUL-2000 07:52
 Lab File ID: 9SM0720.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00720a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.31055	1.28478	0.010	-2.0	50.0
10 N-Nitrosodimethylamine	1.18805	1.18046	0.010	-0.6	50.0
11 Ethyl methacrylate	1.63779	1.70904	0.010	4.4	50.0
12 3-Chloropropionitrile	1.15488	1.14188	0.010	-1.1	50.0
13 Malononitrile	1.87635	1.80980	0.010	-3.5	50.0
209 Benzaldehyde	1.11101	1.18449	0.010	6.6	50.0
21 Aniline	2.66222	2.66171	0.010	-0.0	50.0
22 Phenol	2.44649	2.46112	0.010	0.6	20.0
23 bis(2-Chloroethyl)ether	1.87598	2.66171	0.010	41.9	50.0
24 2-Chlorophenol	1.31071	1.24902	0.010	-4.7	50.0
26 1,3-Dichlorobenzene	1.48971	1.42851	0.010	-4.1	50.0
27 1,4-Dichlorobenzene	1.49187	1.46879	0.010	-1.5	20.0
28 1,2-Dichlorobenzene	1.41389	1.37684	0.010	-2.6	50.0
29 Benzyl Alcohol	1.09556	1.07648	0.010	-1.7	50.0
30 2-Methylphenol	1.56287	1.55734	0.010	-0.4	50.0
31 bis(2-Chloroisopropyl)ether	2.21837	2.58778	0.010	16.7	50.0
37 Acetophenone	2.41067	2.41730	0.010	0.3	50.0
32 N-Nitroso-di-n-propylamine	1.55305	1.64917	0.050	6.2	50.0
192 4-Methylphenol	1.59938	1.54318	0.010	-3.5	50.0
34 Hexachloroethane	0.75627	0.79198	0.010	4.7	50.0
35 Nitrobenzene	0.64972	0.69370	0.010	6.8	50.0
41 Isophorone	1.13871	1.23900	0.010	8.8	50.0
42 2-Nitrophenol	0.18824	0.17862	0.010	-5.1	20.0
43 2,4-Dimethylphenol	0.47934	0.50162	0.010	4.6	50.0
44 bis(2-Chloroethoxy)methane	0.62283	0.60872	0.010	-2.3	50.0
46 2,4-Toluenediamine	++++	0.00633	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.35782	0.35637	0.010	-0.4	50.0
48 2,4-Dichlorophenol	0.29496	0.28982	0.010	-1.7	20.0
49 Benzoic Acid	0.13016	0.09820	0.010	-24.6	50.0
50 1,2,4-Trichlorobenzene	0.32370	0.33282	0.010	2.8	50.0
51 Naphthalene	1.03259	1.03097	0.010	-0.2	50.0
52 4-Chloroaniline	0.36404	0.33456	0.010	-8.1	50.0
56 Hexachlorobutadiene	0.23367	0.23311	0.010	-0.2	20.0
210 Caprolactam	0.13526	0.12824	0.010	-5.2	50.0
57 1,2,3-Trichlorobenzene	0.32575	0.32442	0.010	-0.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 20-JUL-2000 07:52
 Lab File ID: 9SM0720.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00720a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.40823	0.42095	0.010	3.1	20.0
62 2-Methylnaphthalene	0.67520	0.65313	0.010	-3.3	50.0
63 1-Methylnaphthalene	0.68453	0.67017	0.010	-2.1	50.0
64 Hexachlorocyclopentadiene	0.30870	0.29232	0.050	-5.3	50.0
66 2,4,6-Trichlorophenol	0.38852	0.37174	0.010	-4.3	20.0
67 2,4,5-Trichlorophenol	0.37594	0.36061	0.010	-4.1	50.0
211 1,1'-Biphenyl	1.37851	1.39873	0.010	1.5	50.0
68 1,2,3,5-Tetrachlorobenzene	0.58572	0.59367	0.010	1.4	50.0
70 2-Chloronaphthalene	1.10849	1.13801	0.010	2.7	50.0
73 2-Nitroaniline	0.48063	0.53105	0.010	10.5	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53061	0.53175	0.010	0.2	50.0
76 Dimethylphthalate	1.25183	1.30459	0.010	4.2	50.0
78 2,6-Dinitrotoluene	0.26646	0.27204	0.010	2.1	50.0
79 Acenaphthylene	1.70308	1.67840	0.010	-1.4	50.0
80 1,2-Dinitrobenzene	0.12786	0.13006	0.010	1.7	50.0
81 3-Nitroaniline	0.20445	0.19475	0.010	-4.7	50.0
82 Acenaphthene	1.08012	1.07427	0.010	-0.5	20.0
83 2,4-Dinitrophenol	0.08554	0.07928	0.050	-7.3	50.0
85 4-Nitrophenol	0.22381	0.20486	0.050	-8.5	50.0
86 Dibenzofuran	1.43484	1.41539	0.010	-1.4	50.0
87 2,4-Dinitrotoluene	0.34279	0.35152	0.010	2.5	50.0
91 2,3,5,6-Tetrachlorophenol	0.29402	0.29348	0.010	-0.2	50.0
93 Diethylphthalate	1.26410	1.37090	0.010	8.4	50.0
94 Fluorene	1.23834	1.23576	0.010	-0.2	50.0
95 4-Chlorophenyl-phenylether	0.61414	0.63176	0.010	2.9	50.0
96 4-Nitroaniline	0.17924	0.16558	0.010	-7.6	50.0
98 4,6-Dinitro-2-methylphenol	0.12272	0.11685	0.010	-4.8	50.0
99 N-Nitrosodiphenylamine	0.60584	0.57612	0.010	-4.9	20.0
100 1,2-Diphenylhydrazine	1.38446	1.54750	0.010	11.8	50.0
106 4-Bromophenyl-phenylether	0.22965	0.22319	0.010	-2.8	50.0
107 Hexachlorobenzene	0.24761	0.22966	0.010	-7.3	50.0
212 Atrazine	0.24968	0.24562	0.010	-1.6	50.0
111 Pentachlorophenol	0.11248	0.11944	0.010	6.2	20.0
115 Phenanthrene	1.19853	1.15867	0.010	-3.3	50.0
116 Anthracene	1.08717	1.12629	0.010	3.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 20-JUL-2000 07:52
 Lab File ID: 9SM0720.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00720a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.86838	0.84762	0.010	-2.4	50.0
120 Di-n-Butylphthalate	1.47020	1.48068	0.010	0.7	50.0
123 Fluoranthene	1.14438	1.19799	0.010	4.7	20.0
124 Benzidine	0.29701	0.16227	0.010	-45.4	50.0
125 Pyrene	1.61838	1.68612	0.010	4.2	50.0
131 Butylbenzylphthalate	0.76448	0.80655	0.010	5.5	50.0
133 3,3'-Dimethoxybenzidine	0.25262	0.14200	0.010	-43.8	50.0
135 3,3'-Dichlorobenzidine	0.42337	0.38128	0.010	-9.9	50.0
136 Benzo (a) Anthracene	1.31067	1.29498	0.010	-1.2	50.0
137 Chrysene	1.30911	1.25024	0.010	-4.5	50.0
138 4,4'-Methylene bis(o-chloro	0.25191	0.20902	0.010	-17.0	50.0
139 bis(2-ethylhexyl) Phthalate	1.06478	1.13365	0.010	6.5	50.0
140 Di-n-octylphthalate	2.27482	2.57765	0.010	13.3	20.0
141 Benzo (b) fluoranthene	1.37911	1.34349	0.010	-2.6	50.0
142 Benzo (k) fluoranthene	1.40600	1.46747	0.010	4.4	50.0
146 Benzo (a) pyrene	1.17215	1.16238	0.010	-0.8	20.0
149 Indeno (1,2,3-cd) pyrene	0.89145	0.82189	0.010	-7.8	50.0
150 Dibenz (a,h) anthracene	0.89255	0.82745	0.010	-7.3	50.0
151 Benzo (g,h,i) perylene	0.86034	0.84485	0.010	-1.8	50.0
\$ 154 Nitrobenzene-d5	0.65681	0.71752	0.010	9.2	50.0
\$ 155 2-Fluorobiphenyl	1.27348	1.31430	0.010	3.2	50.0
\$ 156 Terphenyl-d14	1.05125	1.10007	0.010	4.6	50.0
\$ 157 Phenol-d5	2.05308	2.03016	0.010	-1.1	50.0
\$ 158 2-Fluorophenol	1.49596	1.42903	0.010	-4.5	50.0
\$ 159 2,4,6-Tribromophenol	0.13725	0.13402	0.010	-2.4	50.0
\$ 186 2-Chlorophenol-d4	1.19379	1.13065	0.010	-5.3	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.91119	0.90278	0.010	-0.9	50.0
M 195 Cresols, total	3.16225	3.10052	0.010	-2.0	50.0
101 Diphenylamine	0.60584	0.57612	0.010	-4.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 20-JUL-2000 08:28
 Lab File ID: 9AM0720.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00720a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.97555	1.35079	0.010	38.5	50.0
8 Ethyl methanesulfonate	1.53086	1.66619	0.010	8.8	50.0
14 2-Picoline	1.95189	1.97640	0.010	1.3	50.0
15 N-Nitrosomethylethylamine	0.97083	0.88449	0.010	-8.9	50.0
16 Methyl methanesulfonate	1.25403	1.50975	0.010	20.4	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.38619	0.010	10.9	50.0
19 N-Nitrosodiethylamine	0.86951	0.91523	0.010	5.3	50.0
25 Pentachloroethane	0.59897	0.66889	0.010	11.7	50.0
36 N-Nitrosopyrrolidine	0.74599	0.90375	0.010	21.1	50.0
37 Acetophenone	2.41067	2.51228	0.010	4.2	50.0
39 o-Toluidine	2.08104	2.53986	0.010	22.0	50.0
40 N-Nitrosopiperidine	0.20798	0.19981	0.010	-3.9	50.0
45 O,O,O-Trisethyl phosphorothi	0.20249	0.21535	0.010	6.4	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.88638	0.010	-7.4	50.0
54 2,6-Dichlorophenol	0.25801	0.28888	0.010	12.0	50.0
55 Hexachloropropene	0.21028	0.22669	0.010	7.8	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.42124	0.010	13.7	50.0
60 p-Phenylene diamine	0.18885	0.13897	0.010	-26.4	50.0
61 Safrole	0.28100	0.30027	0.010	6.9	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.59985	0.010	9.3	50.0
71 Isosafrole 1	0.15079	0.14759	0.010	-2.1	50.0
M 188 Isosafrole, Total	0.98004	1.19931	0.010	22.4	50.0
72 Isosafrole 2	0.82925	1.05172	0.010	26.8	50.0
75 1,4-Naphthoquinone	0.35231	0.34173	0.010	-3.0	50.0
84 Pentachlorobenzene	0.42329	0.46876	0.010	10.7	50.0
89 1-Naphthylamine	0.82560	0.84475	0.010	2.3	50.0
92 2-Naphthylamine	0.71492	0.71467	0.010	-0.0	50.0
90 Zinophos	0.38899	0.45424	0.010	16.8	50.0
102 Tetraethyl dichloropyrophosph	0.11973	0.13587	0.010	13.5	50.0
103 Diallate 1	0.99575	1.11606	0.010	12.1	50.0
M 189 Diallate, Total	3.39732	4.34078	0.010	27.8	50.0
109 Diallate 2	0.19193	0.19551	0.010	1.9	50.0
104 Phorate	0.18945	0.19855	0.010	4.8	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.07689	0.010	0.1	50.0
108 Phenacetin	0.42200	0.51923	0.010	23.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 20-JUL-2000 08:28
 Lab File ID: 9AM0720.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\gcanoh05\dd\chem\MSS\a4hp9.i\00720a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.44544	0.49053	0.010	10.1	50.0
112 Pentachloronitrobenzene	0.12838	0.16793	0.010	30.8	50.0
113 4-Aminobiphenyl	0.53082	0.49040	0.010	-7.6	50.0
114 Pronamide	0.37767	0.43513	0.010	15.2	50.0
117 Dinoseb	0.15463	0.18066	0.010	16.8	50.0
118 Disulfoton	0.63794	0.68708	0.010	7.7	50.0
121 4-Nitroquinoline 1-oxide	0.04847	0.03547	0.010	-26.8	50.0
122 Methapyrilene	0.43229	0.47379	0.010	9.6	50.0
126 Aramite 1	0.09758	0.10173	0.010	4.3	50.0
M 191 Aramite, Total	0.46960	0.59892	0.010	27.5	50.0
127 Aramite 2	0.13728	0.14289	0.010	4.1	50.0
128 p-Dimethylamino azobenzene	0.31521	0.31897	0.010	1.2	50.0
129 p-Chlorobenzilate	0.67086	0.77133	0.010	15.0	50.0
130 Pamphur	0.45223	0.49641	0.010	9.8	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.31793	0.010	1.1	50.0
134 2-Acetylaminofluorene	0.38268	0.46485	0.010	21.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.80501	0.71880	0.010	-10.7	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.70392	0.60708	0.010	-13.8	50.0
193 3-Methylphenol	1.45546	1.67987	0.010	15.4	50.0
69 1,4-Dinitrobenzene	0.16523	0.17128	0.010	3.7	50.0
77 m-Dinitrobenzene	0.18177	0.18947	0.010	4.2	50.0
198 1,4-Dioxane	0.87147	0.54618	0.010	-37.3	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.24295	0.010	24.6	50.0
97 5-Nitro-o-toluidine	0.25616	0.25927	0.010	1.2	50.0
199 3-Picoline	1.59098	1.70773	0.010	7.3	50.0
200 N,N-Dimethylacetamide	1.43815	1.67058	0.010	16.2	50.0

SW846 8270C METHOD BLANK SUMMARY

DFQK0101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: DFQK0101.

Lot Number: A0G020105

Date Analyzed: 07/09/00

Time Analyzed: 10:14

Matrix: WATER

Date Extracted:07/06/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP6

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-20-11	DFN4A101	DFN4A101.	07/10/00	12:09
02	MPT-G4-GW-18-09	DFN48101	DFN48101.	07/10/00	10:55
03	MPT-G4-GW-19-10	DFN49101	DFN49101.	07/10/00	11:32
04	CHECK SAMPLE	DFQK0102 C	DFQK0102.	07/09/00	10:51
05	DUPLICATE CHECK	DFQK0103 L	DFQK0103.	07/09/00	11:27
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COMMENTS:

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQK0102

BATCH: 0188278

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	† REC	QC LIMITS REC	QUAL
Acenaphthene	50	39	79	39 - 118	
2,4-Dinitrotoluene	50	43	86	47 - 131	
1,2,4-Trichlorobenzene	50	42	84	31 - 110	
Pyrene	50	45	91	46 - 130	
N-Nitrosodi-n-propylamine	50	44	87	30 - 115	
1,4-Dichlorobenzene	50	40	79	28 - 110	
Pentachlorophenol	50	14	28	10 - 140	
Phenol	50	24	47	10 - 131	
2-Chlorophenol	50	30	59	19 - 124	
4-Chloro-3-methylphenol	50	40	81	29 - 124	
4-Nitrophenol	50	10	21	19 - 144	
1,2-Dichlorobenzene	50	40	79	39 - 90	
1,3-Dichlorobenzene	50	39	78	34 - 85	
2,4,5-Trichlorophenol	50	24	48	41 - 125	
4-Methylphenol	100	74	74	29 - 144	
4-Nitroaniline	50	48	96	32 - 106	
Acenaphthylene	50	40	80	48 - 101	
Anthracene	50	42	84	56 - 105	
Benzo (a) anthracene	50	41	83	56 - 109	
Benzo (a) pyrene	50	40	80	50 - 100	
Benzo (k) fluoranthene	50	38	76	53 - 112	
bis (2-Chloroethoxy) methan	50	40	80	39 - 109	
bis (2-Chloroethyl) ether	50	43	86	45 - 103	
Benzo (b) fluoranthene	50	39	77	52 - 108	
Benzo (ghi) perylene	50	38	76	45 - 115	
2,2'-Oxybis (1-Chloropropa	50	44	88	49 - 136	
bis (2-Ethylhexyl) phtala	50	46	91	56 - 127	
2,4,6-Trichlorophenol	50	22	45*	46 - 135	a
2,4-Dichlorophenol	50	29	58	48 - 101	
2,4-Dimethylphenol	50	37	74	10 - 88	
2,4-Dinitrophenol	50	ND	23	21 - 143	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQK0102

BATCH: 0188278

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	45	91	62 - 114	
2-Chloronaphthalene	50	38	75	51 - 106	
2-Methylnaphthalene	50	42	84	49 - 98	
2-Methylphenol	50	38	75	33 - 115	
2-Nitroaniline	50	44	88	55 - 119	
2-Nitrophenol	50	25	50	43 - 104	
3,3'-Dichlorobenzidine	50	31	63	20 - 76	
3-Nitroaniline	50	45	91	33 - 107	
4,6-Dinitro-2-methylpheno	50	18	35*	37 - 137	a
4-Bromophenyl phenyl ethe	50	38	76	57 - 114	
4-Chloroaniline	50	39	77	19 - 82	
4-Chlorophenyl phenyl eth	50	41	81	57 - 114	
Butyl benzyl phthalate	50	44	89	53 - 113	
Carbazole	50	42	83	37 - 114	
Chrysene	50	44	88	59 - 112	
Dibenz(a,h)anthracene	50	40	79	50 - 112	
Dibenzofuran	50	40	80	55 - 107	
Diethyl phthalate	50	39	78	48 - 112	
Dimethyl phthalate	50	31	62	46 - 117	
Di-n-octyl phthalate	50	41	83	49 - 127	
Fluoranthene	50	40	81	53 - 116	
Fluorene	50	40	81	57 - 107	
Hexachlorobenzene	50	37	75	57 - 128	
Hexachlorobutadiene	50	37	73	36 - 116	
Hexachloroethane	50	41	81	30 - 110	
Isophorone	50	42	83	48 - 103	
Naphthalene	50	41	83	46 - 95	
Nitrobenzene	50	42	85	45 - 130	
N-Nitrosodiphenylamine	50	40	80	47 - 112	
Phenanthrene	50	40	79	58 - 110	
Indeno(1,2,3-cd)pyrene	50	37	75	49 - 114	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQK0102

BATCH: 0188278

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	39	78	59 - 108	
Hexachlorocyclopentadiene	50	28	57	10 - 81	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQK0103

BATCH: 0188278

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	43	86	31- 110	
Acenaphthene	50	40	81	39- 118	
2,4-Dinitrotoluene	50	44	89	47- 131	
Pyrene	50	49	98	46- 130	
N-Nitrosodi-n-propylamine	50	46	92	30- 115	
1,4-Dichlorobenzene	50	41	82	28- 110	
Pentachlorophenol	50	29	57	10- 140	p
Phenol	50	26	51	10- 131	
2-Chlorophenol	50	39	79	19- 124	
4-Chloro-3-methylphenol	50	43	87	29- 124	
4-Nitrophenol	50	20	39	19- 144	p
1,2-Dichlorobenzene	50	41	83	39- 90	
1,3-Dichlorobenzene	50	40	81	34- 85	
2,4,5-Trichlorophenol	50	39	78	41- 125	p
4-Methylphenol	100	75	75	29- 144	
4-Nitroaniline	50	44	88	32- 106	
Acenaphthylene	50	41	82	48- 101	
Anthracene	50	43	86	56- 105	
Benzo(a)anthracene	50	43	85	56- 109	
Benzo(a)pyrene	50	41	82	50- 100	
Benzo(b)fluoranthene	50	40	79	52- 108	
Benzo(ghi)perylene	50	41	83	45- 115	
Benzo(k)fluoranthene	50	39	78	53- 112	
bis(2-Chloroethoxy)methan	50	42	83	39- 109	
bis(2-Chloroethyl) ether	50	45	89	45- 103	
2,2'-Oxybis(1-Chloropropa	50	47	94	49- 136	
bis(2-Ethylhexyl) phthala	50	50	99	56- 127	
2,4,6-Trichlorophenol	50	38	76	46- 135	p
2,4-Dichlorophenol	50	40	80	48- 101	p
2,4-Dimethylphenol	50	38	77	10- 88	
2,4-Dinitrophenol	50	ND	62	21- 143	p

(Continued on next page)

$100 \times \frac{43}{50} = 86$
 $100 \times \frac{40}{50} = 80$
 $\frac{86 + 80}{2} = 83$
 $\frac{83 - 25}{0.5(83 + 25)} \times 100 = 68.2\%$

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: AOG060000

WO #: DFOK0103

BATCH: 0188278

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	† REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	47	94	62 - 114	
2-Chloronaphthalene	50	39	77	51 - 106	
2-Methylnaphthalene	50	43	87	49 - 98	
2-Methylphenol	50	39	78	33 - 115	
2-Nitroaniline	50	46	91	55 - 119	
2-Nitrophenol	50	40	80	43 - 104	p
3,3'-Dichlorobenzidine	50	30	60	20 - 76	
3-Nitroaniline	50	46	91	33 - 107	
4,6-Dinitro-2-methylpheno	50	36	71	37 - 137	p
4-Bromophenyl phenyl ethe	50	40	81	57 - 114	
4-Chloroaniline	50	40	79	19 - 82	
4-Chlorophenyl phenyl eth	50	42	84	57 - 114	
Butyl benzyl phthalate	50	49	98	53 - 113	
Carbazole	50	42	84	37 - 114	
Chrysene	50	46	93	59 - 112	
Dibenz (a,h) anthracene	50	42	83	50 - 112	
Dibenzofuran	50	41	82	55 - 107	
Diethyl phthalate	50	40	80	48 - 112	
Dimethyl phthalate	50	33	66	46 - 117	
Di-n-octyl phthalate	50	46	92	49 - 127	
Fluoranthene	50	41	83	53 - 116	
Fluorene	50	41	83	57 - 107	
Hexachlorobenzene	50	39	78	57 - 128	
Hexachlorobutadiene	50	38	76	36 - 116	
Hexachloroethane	50	43	86	30 - 110	
Isophorone	50	44	87	48 - 103	
Naphthalene	50	43	86	46 - 95	
Nitrobenzene	50	44	89	45 - 130	
N-Nitrosodiphenylamine	50	42	84	47 - 112	
Phenanthrene	50	41	81	58 - 110	
Indeno (1,2,3-cd) pyrene	50	41	82	49 - 114	

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SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QRESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQK0103

BATCH: 0188278

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
-----	-----	-----	-----	-----	-----
Di-n-butyl phthalate	50	41	82	59 - 108	
Hexachlorocyclopentadiene	50	30	60	10 - 81	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 0 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFQKG101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: DFQKG101.

Lot Number: A0G020105

Date Analyzed: 07/13/00

Time Analyzed: 08:06

Matrix: WATER

Date Extracted:07/07/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP6

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-21-08	DFN4E101	DFN4E101.	07/12/00	09:00
02	MPT-G4-GW-22-08	DFN4F101	DFN4F101.	07/12/00	09:36
03	MPT-G4-GW-23-08	DFN4G101	DFN4G101.	07/12/00	10:13
04	INTRA-LAB QC	DFN4V102	DFN4V102.	07/12/00	16:58
05	LAB MS/MSD	DFN4V106 S	DFN4V106.	07/12/00	17:35
06	LAB MS/MSD	DFN4V107 D	DFN4V107.	07/12/00	18:11
07	CHECK SAMPLE	DFQKG102 C	DFQKG102.	07/12/00	08:23
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COMMENTS:

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQKG102

BATCH: 0188277

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	‡ REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	42	83	31 - 110	
Acenaphthene	50	43	86	39 - 118	
2,4-Dinitrotoluene	50	48	96	47 - 131	
Pyrene	50	45	91	46 - 130	
N-Nitrosodi-n-propylamine	50	48	96	30 - 115	
1,4-Dichlorobenzene	50	39	78	28 - 110	
Pentachlorophenol	50	41	82	10 - 140	
Phenol	50	46	92	10 - 131	
2-Chlorophenol	50	46	92	19 - 124	
4-Chloro-3-methylphenol	50	46	92	29 - 124	
4-Nitrophenol	50	52	105	19 - 144	
1,2-Dichlorobenzene	50	40	80	39 - 90	
1,3-Dichlorobenzene	50	38	77	34 - 85	
2,4,5-Trichlorophenol	50	46	92	41 - 125	
4-Methylphenol	100	86	86	29 - 144	
4-Nitroaniline	50	50	99	32 - 106	
Acenaphthylene	50	42	85	48 - 101	
Anthracene	50	45	90	56 - 105	
Benzo(a)anthracene	50	43	87	56 - 109	
Benzo(a)pyrene	50	41	82	50 - 100	
Benzo(b)fluoranthene	50	41	82	52 - 108	
Benzo(ghi)perylene	50	38	76	45 - 115	
Benzo(k)fluoranthene	50	43	86	53 - 112	
bis(2-Chloroethoxy)methan	50	43	87	39 - 109	
bis(2-Chloroethyl) ether	50	47	95	45 - 103	
2,2'-Oxybis(1-Chloropropa	50	53	106	49 - 136	
bis(2-Ethylhexyl) phthala	50	52	103	56 - 127	
2,4,6-Trichlorophenol	50	45	90	46 - 135	
2,4-Dichlorophenol	50	44	88	48 - 101	
2,4-Dimethylphenol	50	15	30	10 - 88	
2,4-Dinitrophenol	50	46	93	21 - 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQKG102

BATCH: 0188277

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	‡ REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	49	99	62 - 114	
2-Chloronaphthalene	50	40	80	51 - 106	
2-Methylnaphthalene	50	44	88	49 - 98	
2-Methylphenol	50	42	85	33 - 115	
2-Nitroaniline	50	52	105	55 - 119	
2-Nitrophenol	50	45	90	43 - 104	
3,3'-Dichlorobenzidine	50	31	61	20 - 76	
3-Nitroaniline	50	52	104	33 - 107	
4,6-Dinitro-2-methylpheno	50	44	87	37 - 137	
4-Bromophenyl phenyl ethe	50	39	78	57 - 114	
4-Chloroaniline	50	41	83*	19 - 82	a
4-Chlorophenyl phenyl eth	50	43	85	57 - 114	
Butyl benzyl phthalate	50	44	89	53 - 113	
Carbazole	50	45	90	37 - 114	
Chrysene	50	47	95	59 - 112	
Dibenz (a, h) anthracene	50	40	81	50 - 112	
Dibenzofuran	50	43	86	55 - 107	
Diethyl phthalate	50	11	23*	48 - 112	a
Dimethyl phthalate	50	ND	2*	46 - 117	a
Di-n-octyl phthalate	50	46	92	49 - 127	
Fluoranthene	50	44	89	53 - 116	
Fluorene	50	44	88	57 - 107	
Hexachlorobenzene	50	38	76	57 - 128	
Hexachlorobutadiene	50	35	70	36 - 116	
Hexachloroethane	50	40	80	30 - 110	
Isophorone	50	45	91	48 - 103	
Naphthalene	50	43	86	46 - 95	
Nitrobenzene	50	47	93	45 - 130	
N-Nitrosodiphenylamine	50	40	80	47 - 112	
Phenanthrene	50	43	85	58 - 110	
Indeno (1,2,3-cd) pyrene	50	38	75	49 - 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G060000

WO #: DFQKG102

BATCH: 0188277

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	† REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	39	78	59 - 108	
Hexachlorocyclopentadiene	50	0.0	0*	10 - 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFW4C101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: DFW4C101.

Lot Number: AOG060210

Date Analyzed: 07/20/00

Time Analyzed: 09:05

Matrix: WATER

Date Extracted:07/10/00

GC Column: DB .625 ID: .32

Extraction Method: 3520C

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-25-07	DFRCA101	DFRCA101.	07/19/00	14:52
02	MPT-G4-GW-26-05	DFRCD101	DFRCD101.	07/19/00	15:29
03	MPT-G4-GW-27-08	DFRCE101	DFRCE101.	07/19/00	16:06
04	MPT-G4-GW-24-08	DFRC7101	DFRC7101.	07/19/00	14:16
05	INTRA-LAB QC	DFV6W101	DFV6W101.	07/19/00	16:42
06	LAB MS/MSD	DFV6W102 S	DFV6W102.	07/19/00	17:19
07	LAB MS/MSD	DFV6W103 D	DFV6W103.	07/19/00	17:55
08	CHECK SAMPLE	DFW4C102 C	DFW4C102.	07/20/00	09:41
09					
10					
11					
12					
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COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFW4C101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP016

Lab File ID: DFW4C101.

Lot Number: A0G070236

Date Analyzed: 07/20/00

Time Analyzed: 09:05

Matrix: WATER

Date Extracted:07/10/00

GC Column: DB .625 ID: .32

Extraction Method: 3520C

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 MPT-G4-GW-28-05	DFV6W101	DFV6W101.	07/19/00	16:42
02 MPT-G4-GW-28-05	DFV6W102 S	DFV6W102.	07/19/00	17:19
03 MPT-G4-GW-28-05	DFV6W103 D	DFV6W103.	07/19/00	17:55
04 MPT-G4-GW-DU02	DFV7C101	DFV7C101.	07/20/00	11:31
05 MPT-G4-GW-33-	DFV7D101	DFV7D101.	07/20/00	12:08
06 MPT-G4-GW-29-05	DFV75101	DFV75101.	07/19/00	18:32
07 MPT-G4-GW-30-07	DFV77101	DFV77101.	07/19/00	19:08
08 MPT-G4-GW-31-09	DFV78101	DFV78101.	07/20/00	10:55
09 MPT-G4-GW-32-07	DFV79101	DFV79101.	07/20/00	10:18
10 CHECK SAMPLE	DFW4C102 C	DFW4C102.	07/20/00	09:41
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COMMENTS:

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: AOG080000

WO #: DFW4C102

BATCH: 0190108

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	38	76	31- 110	
Acenaphthene	50	41	81	39- 118	
2,4-Dinitrotoluene	50	42	84	47- 131	
Pyrene	50	43	85	46- 130	
N-Nitrosodi-n-propylamine	50	44	87	30- 115	
1,4-Dichlorobenzene	50	33	66	28- 110	
Pentachlorophenol	50	40	80	10- 140	
Phenol	50	44	88	10- 131	
2-Chlorophenol	50	41	82	19- 124	
4-Chloro-3-methylphenol	50	41	82	29- 124	
4-Nitrophenol	50	42	84	19- 144	
1,2-Dichlorobenzene	50	34	68	39- 90	
1,3-Dichlorobenzene	50	32	64	34- 85	
2,4,5-Trichlorophenol	50	38	76	41- 125	
4-Methylphenol	100	79	79	29- 144	
4-Nitroaniline	50	29	59	32- 106	
Acenaphthylene	50	40	80	48- 101	
Anthracene	50	42	84	56- 105	
Benzo(a)anthracene	50	39	79	56- 109	
Benzo(a)pyrene	50	38	76	50- 100	
Benzo(b)fluoranthene	50	42	83	52- 108	
Benzo(ghi)perylene	50	36	72	45- 115	
Benzo(k)fluoranthene	50	41	83	53- 112	
bis(2-Chloroethoxy)methan	50	42	84	39- 109	
bis(2-Chloroethyl) ether	50	48	96	45- 103	
2,2'-Oxybis(1-Chloropropa	50	50	99	49- 136	
bis(2-Ethylhexyl) phthala	50	46	92	56- 127	
2,4,6-Trichlorophenol	50	40	80	46- 135	
2,4-Dichlorophenol	50	40	80	48- 101	
2,4-Dimethylphenol	50	14	28	10- 88	
2,4-Dinitrophenol	50	36	72	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G080000

WO #: DFW4C102

BATCH: 0190108

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	44	88	62- 114	
2-Chloronaphthalene	50	40	80	51- 106	
2-Methylnaphthalene	50	41	82	49- 98	
2-Methylphenol	50	37	74	33- 115	
2-Nitroaniline	50	46	93	55- 119	
2-Nitrophenol	50	41	81	43- 104	
3,3'-Dichlorobenzidine	50	21	42	20- 76	
3-Nitroaniline	50	38	76	33- 107	
4,6-Dinitro-2-methylpheno	50	38	76	37- 137	
4-Bromophenyl phenyl ethe	50	41	82	57- 114	
4-Chloroaniline	50	33	66	19- 82	
4-Chlorophenyl phenyl eth	50	42	84	57- 114	
Butyl benzyl phthalate	50	40	80	53- 113	
Carbazole	50	42	84	37- 114	
Dibenz (a, h) anthracene	50	37	74	50- 112	
Dibenzofuran	50	41	82	55- 107	
Diethyl phthalate	50	18	37*	48- 112	a
Chrysene	50	38	76	59- 112	
Dimethyl phthalate	50	7.6	15*	46- 117	a
Di-n-octyl phthalate	50	49	99	49- 127	
Fluoranthene	50	45	89	53- 116	
Fluorene	50	41	82	57- 107	
Hexachlorobenzene	50	39	79	57- 128	
Hexachlorobutadiene	50	34	68	36- 116	
Hexachloroethane	50	32	64	30- 110	
Isophorone	50	45	90	48- 103	
Naphthalene	50	40	80	46- 95	
Nitrobenzene	50	46	92	45- 130	
N-Nitrosodiphenylamine	50	38	75	47- 112	
Phenanthrene	50	40	81	58- 110	
Indeno (1,2,3-cd)pyrene	50	34	69	49- 114	

(Continued on next page)

SWS46 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP016

Lot #: A0G080000

WO #: DFW4C102

BATCH: 0190108

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	39	77	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

CLIENT <i>NS Mayport</i>		JOB NUMBER	
SUBJECT <i>Sample Calc.</i>			
BASED ON <i>MPT-64-GW-26-05 (DFRCD101)</i>		DRAWING NUMBER	
BY <i>DSS</i>	CHECKED BY	APPROVED BY	DATE <i>10/11/00</i>

Fraction: *Semivolatiles*
 Matrix: *Aqueous*
 Compound: *2-Methylnaphthalene*
 Form I: *53 ug/L*

$$ug/L = \frac{A_x (I_s)(Df)(V_t)}{A_{is} (\overline{RRF})(V_i)(V_s)}$$

$A_x = 1123774$ Area

$I_s = 8.0mg$

$Df = 1$

$V_t = 1.0ul$

$A_{is} = 633058$ Area

$\overline{RRF} = 0.633058 \quad 0.67520$

$V_i = 2.0ul$

$V_s = 1000ml$

$$= \frac{1123774 \text{ Area} (8.0mg)(1)(1.0ul)}{633058 \text{ Area} (0.633058)(2.0ul)(1000ml)}$$

$$= 52.58 \text{ ug/ml or ug/L}$$

STL - North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00719a.b\DFRCD101.D
 Lab Smp Id: DFRCD101 Client Smp ID: MPT-G4-GW-26-05
 Inj Date : 19-JUL-2000 15:29
 Operator : 001710 Inst ID: a4hp9.i
 Smp Info : dfrcd101,00719a.b,8270c,4-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp9.i\00719a.b\8270c.m
 Meth Date : 20-Jul-2000 06:31 hulat Quant Type: ISTD
 Cal Date : 17-JUL-2000 15:09 Cal File: 9SHH0717.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	6.457	6.453	(1.000)	176123	8.00000	(Q)
* 2 Naphthalene-d8	136	8.765	8.766	(1.000)	633058	8.00000	
* 3 Acenaphthene-d10	164	12.211	12.212	(1.000)	369711	8.00000	
* 4 Phenanthrene-d10	188	15.154	15.155	(1.000)	427866	8.00000	
* 5 Chrysene-d12	240	20.459	20.465	(1.000)	351005	8.00000	
* 6 Perylene-d12	264	23.114	23.115	(1.000)	241250	8.00000	
7 N-Nitrosomorpholine	56						Compound Not Detected.
8 Ethyl methanesulfonate	79						Compound Not Detected.
9 Pyridine	79						Compound Not Detected.
10 N-Nitrosodimethylamine	74						Compound Not Detected.
11 Ethyl methacrylate	69						Compound Not Detected.
12 3-Chloropropionitrile	54						Compound Not Detected.
13 Malononitrile	66						Compound Not Detected.
14 2-Picoline	93						Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
15 N-Nitrosomethylethylamine	88				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
18 1,3-Dichloro-2-propanol	79				Compound Not Detected.		
19 N-Nitrosodiethylamine	102				Compound Not Detected.		
21 Aniline	93				Compound Not Detected.		
22 Phenol	94				Compound Not Detected.		
23 bis(2-Chloroethyl)ether	93				Compound Not Detected.		
24 2-Chlorophenol	128				Compound Not Detected.		
25 Pentachloroethane	167				Compound Not Detected.		
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 bis(2-Chloroisopropyl)ether	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
193 3-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
36 N-Nitrosopyrrolidine	100				Compound Not Detected.		
37 Acetophenone	105				Compound Not Detected.		
39 o-Toluidine	106				Compound Not Detected.		
40 N-Nitrosopiperidine	114				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
45 O,O,O-Trisethyl phosphorothioa	198				Compound Not Detected.		
46 2,4-Toluenediamene	121				Compound Not Detected.		
47 1,3,5-Trichlorobenzene	180				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
53 a,a-Dimethyl-phenethylamine	58				Compound Not Detected.		
54 2,6-Dichlorophenol	162				Compound Not Detected.		
55 Hexachloropropene	213				Compound Not Detected.		
56 Hexachlorobutadiene	225				Compound Not Detected.		
57 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
58 N-Nitrosodi-n-butylamine	84				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
60 p-Phenyane diamine	108				Compound Not Detected.		
61 Safrole	162				Compound Not Detected.		
62 2-Methylnaphthalene	142	10.154	10.155	(1.158)	1123774	21.0327	52.582
63 1-Methylnaphthalene	142	10.346	10.347	(1.180)	1151586	21.2593	53.148
64 Hexachlorocyclopentadiene	237				Compound Not Detected.		

COLUMN
TYPE: DBX-62

ANALYSIS
to 30 deg. C for 1.5 min.

CASE NO. _____
SDG NO. _____

LENGTH: 30m

to 320 deg. C @ 12 deg. C/min

ID: 0.32 mm

hold for 2 min.

FILM THICKNESS: 0.5 MICRONS F.D. = 2 E.T. = 1.7 I.S.# 1308 TUNE: DF00J

FILE NAME	LOT #/ FILE NAME	SAMPLE PREP	D.F.	QUAL	COMMENTS	ANALYST
9DF0719B	512285		ST	OK	(7.04)	TLH
9DF0719C	512311	(check 7.32)		OK	Cal Std OK MW Checked by: 7/20/00	
95M0719	512311			OK		
9AM0719	512330			OK		
DGZEM101	B	7/15 1000 20 > 5 20 > 5	ST	OK	(8.20C)	
DGZEM102	C	7/15 1000 20 > 5 20 > 5	ST	OK		
DFNH6203	AGG030123	2/10 20 > 5 20 > 5	5/100	OK		
DFNH7103			15/100	OK		
DFNH4103		↓ ↓ ↓	10/100	OK		
DFQRT103	AGG060171	2/10 1000 20 > 5 20 > 5	ST	OK		
DFQRW103				OK		
DFQRX103				OK		
DFQRT1103				OK		
DFRC7101	AGG60210			OK		
DFRCA101	AGG060210			OK		
DFRCD101				OK		
DFRCE101				OK		
DFV6W101	AGG070236	↓		OK		
DFV6W102	S	800 20 > 5 20 > 5		OK		
DFV6W103	D	500 20 > 5 20 > 5		OK		
DFV75101		1000 20 > 5 20 > 5		OK		
DFVZZ101		↓ ↓ ↓	↓	OK	↓	TLH

QC = 4/4 sam = 14/14

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 7/31/00
Time: 5:58:44

<u>LEV</u>	<u>LEV</u>	<u>LEV</u>	<u>LEV</u>
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y

Blank Weights/Volumes
Check Spike & Surrogate Worksheet
MS/MSD Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to Analytical Group
Y Bench Sheet Copied per COC

Extractionist: 001935 Eric S. Miller

Concentrationist: 007696 Nathan A. Pietras

Reviewer/Date: MILLERE / 7/12/00

*
* QC BATCH: 0190108 *
*

PREP DATE: 7/10/00
COMP DATE: 7/12/00

Base/Neutrals and Acids (8270C)
LIQ/LIQ, COM (B/N/A) - Base->Acid

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH'S			SOLVENTS		VOL	SPIKE STANDARD/ SURROGATE ID
								INIT	ADJ1	ADJ2	EXTRACTION	VOL EXCHANGE		
7/12/00 COMMENTS:	7/20/00	AOG060171-001 DFQRT-1-03		OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291
7/12/00 COMMENTS:	7/20/00	AOG060171-002 DFQRT-1-03		OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291
7/12/00 COMMENTS:	7/20/00	AOG060171-003 DFQRT-1-03		OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291
7/12/00 COMMENTS:	7/20/00	AOG060171-004 DFQRT-1-03		OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291
7/12/00 COMMENTS:	7/26/00	AOG060210-002 DFRCA-1-01	D	OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291
7/12/00 COMMENTS:	7/26/00	AOG060210-003 DFRCD-1-01	D	OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291
7/12/00 COMMENTS:	7/26/00	AOG060210-004 DFRCE-1-01	D	OT	QL	WATER	1000mL 5.00mL	7.0	12.0	2.0	DCM	250.0	.0	0.5ML SUP #90291

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD910V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-39-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.9	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.55	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.17	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

MEMO TO: T. HANSEN
DATE: NOVEMBER 10, 2000

Semivolatiles

A initial calibration %RSD for 4-nitroquinoline-1-oxide was >30% but <50% quality control limit. No validation action was taken on this basis.

The continuing calibration RRF for 4-nitroquinoline-1-oxide was <0.05 quality control limit and the %D was >25% quality control limit affecting the samples analyzed on instrument A4HP7 on July 26. The nondetected results reported for 4-nitroquinoline-1-oxide in the affected samples were qualified as rejected, "UR".

The continuing calibration %D for 7,12-dimethylbenzo(a)anthracene was >25% quality control limit affecting the samples analyzed on instrument A4HP7 on July 26. The nondetected results reported for 7,12-dimethylbenzo(a)anthracene in the affected samples were qualified as estimated, "UJ".

The continuing calibration %Ds for 4-nitroquinoline-1-oxide and 7,12-dimethyl were >25% quality control limit affecting the samples analyzed on instrument A4HP7 on July 27. The nondetected results reported for 4-nitroquinoline-1-oxide and 7,12-dimethyl in the affected samples were qualified as estimated, "UJ".

The following compound was detected in the laboratory method blanks at the following maximum concentration:

<u>Compound</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Bis(2-ethyl hexyl)phthalate	3.6µg/L	36µg/L

An action level of 10X the maximum concentration was used to evaluate samples for blank contamination. The positive results less than the blank action level for bis(2-ethyl hexyl)phthalate were qualified, "U", as a result of blank contamination.

One semivolatile acid surrogate (2,4,6-tribromophenol) and two semivolatile base/neutral surrogates (nitrobenzene-d5 and 2-fluorobipheyl) were less than the lower quality control limits affecting sample MPT-G4-GW-44-04. The sample was reanalyzed out of hold time. All surrogate recoveries were within quality control limits. However, the original sample was used for validation purposes. No validation action was taken on the acid compounds. The results for the base/neutral compounds in sample MPT-G4-GW-44-04 were qualified as estimated, "J", and the nondetected results were qualified as estimated, "UJ".

The Blank Spike / Blank Spike Duplicate %Rs for hexachlorocyclopentadiene and dimethyl phthalate were <10%. The %Rs for several additional compounds were outside the quality control limits. The nondetected results reported for hexachlorocyclopentadiene and dimethyl phthalate were qualified as rejected, "UR".

Several other Matrix Spike / Matrix Spike Duplicate %Rs were above or below the quality control limits. However, no validation action was required.

The acid and base/neutral surrogates were high the Matrix Spike / Matrix Spike Duplicate samples of MPT-G4-GW-34-05. No validation action was taken on this basis.

The Matrix Spike / Matrix Spike Duplicate %R for hexachlorocyclopentadiene was <10% affecting samples MPT-G4-GW-34-05 and MPT -G4-GW-41-06. The nondetected results reported for hexachlorocyclopentadiene in the affected samples were qualified as rejected, "UR".

MEMO TO: T. HANSEN
DATE: NOVEMBER 10, 2000

The Matrix Spike / Matrix Spike Duplicate %Rs for hexachlorocyclopentadiene and dimethyl phthalate were <10% quality control limits affecting sample MPT-G4-GW-45-07. The nondetected results reported for hexachlorocyclopentadiene and dimethyl phthalate in the affected sample were qualified as rejected, "UR".

Notes

All positive results reported at concentration less than the reporting limits were qualified as estimated, "J".

The trip blanks were analyzed at the following dilutions:

TB070700	2X
TB071000	2.5X
TB071100	2.5X

It should be noted that according to the laboratory statement of work (SOW) both the volatile and semivolatile fraction both were to contain 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Since this would create data management problems, the laboratory reported these compounds in the semivolatile fraction only. It was not necessary to qualify any data based on this issue.

The analytical SOW listed pentachloroethane to be analyzed and reported as a volatile compound but the laboratory analyzed and reported this compound as a semivolatile compound. It was not necessary to qualify any data based on this issue.

The laboratory reported allyl chloride, which according to the analytical SOW was not a required volatile target compound. Because allyl chloride is an Appendix IX compound it was determined that this compound should remain in the database.

The laboratory reported Dinoseb, a,a-dimethylphenethylamine, chlorobenzilate, diallate, and N-nitrosopiperidine, which according to the analytical SOW were not required semivolatile target compounds. Because the aforementioned are Appendix IX compounds it was determined that these compounds should remain in the database.

The laboratory did not report hexachlorophene as requested in the analytical SOW. This compound is unstable and could not be analyzed.

Executive Summary

Laboratory Performance: Several compounds were qualified due to calibration noncompliances. Several compounds were present in the laboratory method blanks.

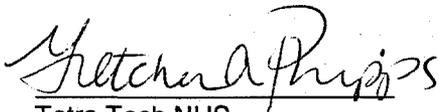
Other Factors Affecting Data Quality: Several compounds were present in the trip blanks. Hexachlorocyclopentadiene and dimethyl phthalate were qualified due to Blank Spike / Blank Spike Duplicate %Rs <10% and Matrix Spike / Matrix Spike Duplicate %Rs <10%. Sample MPT-G4-GW-44-04 was qualified due to surrogate recoveries.

MEMO TO: T. HANSEN
DATE: NOVEMBER 10, 2000

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (9/99). The text of this report has been formulated to address only those problem areas affecting data quality.

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Gretchen A. Phipps



Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-36-05	MPT-G4-GW-37-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080143001	A0G080143002	A0G080143008	A0G080143003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	0.63	J	P	1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	B
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U	B	1	U	
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.8			0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-36-05	MPT-G4-GW-37-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080143001	A0G080143002	A0G080143008	A0G080143003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	1	U	A	1	U	A	1	U	A
PROPIONITRILE	4	U		4	U		4	U		4	U	
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	UJ	C	1	UJ	C	1	U		1	UJ	C
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-38-04	MPT-G4-GW-39-04	MPT-G4-GW-40-04	MPT-G4-GW-41-06
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/10/00
LABORATORY ID:	A0G080143005	A0G080143006	A0G080143007	A0G110125001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		0.17	J	P	0.22	J	P	1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		0.11	J	P	1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U	B	1	U	B	1	U	B
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-38-04	MPT-G4-GW-39-04	MPT-G4-GW-40-04	MPT-G4-GW-41-06
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/10/00
LABORATORY ID:	A0G080143005	A0G080143006	A0G080143007	A0G110125001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U	A	1	U	A	1	U	A	1	U	
PROPIONITRILE	4	U		4	U		4	U		4	U	
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U	B	1	U	B	1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	UJ	C	1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-42-04	MPT-G4-GW-43-04	MPT-G4-GW-44-04	MPT-G4-GW-45-07
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/11/00
LABORATORY ID:	A0G110125002	A0G110125003	A0G110125004	A0G120127001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	0.18	J	P	0.16	J	P	0.22	J	P	1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	B
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		1	J	P
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		0.44	J	P	0.34	J	P	0.26	J	P
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U	B	1	U	B	1	U	B	1	U	B
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-42-04	MPT-G4-GW-43-04	MPT-G4-GW-44-04	MPT-G4-GW-45-07
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/11/00
LABORATORY ID:	A0G110125002	A0G110125003	A0G110125004	A0G120127001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
PROPIONITRILE	4	U		4	U		4	U		4	U	
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	B
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-46-07	MPT-G4-GW-47-07	MPT-G4-GW-48-07	MPT-G4-GW-49-07
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120127002	A0G120127003	A0G120127004	A0G120127005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHENE (TOTAL)	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	10	U	B	10	U	B	10	U	B	10	U	B
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C	20	UR	C
ACROLEIN	10	UR	C	10	UR	C	10	UR	C	10	UR	C
ACRYLONITRILE	10	U		10	U		10	U		10	U	
ALLYL CHLORIDE	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	A
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U		2	U	
CARBON DISULFIDE	1	U		0.43	J	P	1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U	B	1	U		1	U		1	U	B
CHLOROPRENE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-46-07	MPT-G4-GW-47-07	MPT-G4-GW-48-07	MPT-G4-GW-49-07
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120127002	A0G120127003	A0G120127004	A0G120127005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DIBROMOCHLOROMETHANE	1	U		1	U		1	U		1	U	
DIBROMOMETHANE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYL METHACRYLATE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
IODOMETHANE	1	U		1	U		1	U		1	U	
ISOBUTYL ALCOHOL	50	UR	C	50	UR	C	50	UR	C	50	UR	C
METHACRYLONITRILE	1	U		1	U		1	U		1	U	
METHYL METHACRYLATE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE	1	U		1	U		1	U		1	U	
PROPIONITRILE	4	U		4	U		4	U		4	U	
STYRENE	1	U		1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U	B	1	U		1	U		1	U	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	2	U		2	U		2	U		2	U	
VINYL ACETATE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	
XYLENES, TOTAL	1	U		1	U		1	U		1	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	TB070700	TB071000	TB071100	
SAMPLE DATE:	07/07/00	07/10/00	07/11/00	//
LABORATORY ID:	AOG080143004	AOG110125005	AOG120127006	
QC_TYPE:	TRIP BLANK	TRIP BLANK	TRIP BLANK	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	2	U		2.5	U		2.5	U				
1,1,1-TRICHLOROETHANE	2	U		2.5	U		2.5	U				
1,1,2,2-TETRACHLOROETHANE	2	U		2.5	U		2.5	U				
1,1,2-TRICHLOROETHANE	2	U		2.5	U		2.5	U				
1,1-DICHLOROETHANE	2	U		2.5	U		2.5	U				
1,1-DICHLOROETHENE	2	U		2.5	U		2.5	U				
1,2,3-TRICHLOROPROPANE	2	U		2.5	U		2.5	U				
1,2-DIBROMO-3-CHLOROPROPANE	2	U		2.5	U		2.5	U				
1,2-DIBROMOETHANE	2	U		2.5	U		2.5	U				
1,2-DICHLOROETHANE	2	U		2.5	U		2.5	U				
1,2-DICHLOROETHENE (TOTAL)	2	U		2.5	U		2.5	U				
1,2-DICHLOROPROPANE	2	U		2.5	U		2.5	U				
2-BUTANONE	27			33			39					
2-CHLOROETHYL VINYL ETHER	2	U		2.5	U		2.5	U				
2-HEXANONE	4	J	P	4.2	J	P	5.3	J	P			
4-METHYL-2-PENTANONE	20	U		25	U		25	U				
ACETONE	64	J	C	73	J	C	81	J	C			
ACETONITRILE	40	UR	C	50	UR	C	50	UR	C			
ACROLEIN	20	UR	C	25	UR	C	25	UR	C			
ACRYLONITRILE	20	U		25	U		25	U				
ALLYL CHLORIDE	2	U		2.5	U		2.5	U				
BENZENE	2	U		2.5	U		2.5	U				
BROMODICHLOROMETHANE	2	U		2.5	U		2.5	U				
BROMOFORM	2	U		2.5	U		2.5	U				
BROMOMETHANE	4	U		5	U		5	U				
CARBON DISULFIDE	2	U		2.5	U		2.5	U				
CARBON TETRACHLORIDE	2	U		2.5	U		2.5	U				
CHLOROBENZENE	2	U		2.5	U		2.5	U				
CHLOROETHANE	2	U		2.5	U		2.5	U				
CHLOROFORM	2	U		2.5	U		2.5	U				
CHLOROMETHANE	0.5	J	P	0.73	J	P	0.6	J	P			
CHLOROPRENE	2	U		2.5	U		2.5	U				
CIS-1,2-DICHLOROETHENE	1	U		1.2	U		1.2	U				

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

TB070700
07/07/00
A0G080143004
TRIP BLANK
0.0 %
UG/L

TB071000
07/10/00
A0G110125005
TRIP BLANK
0.0 %
UG/L

TB071100
07/11/00
A0G120127006
TRIP BLANK
0.0 %
UG/L

//
100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	2	U		2.5	U		2.5	U				
DIBROMOCHLOROMETHANE	2	U		2.5	U		2.5	U				
DIBROMOMETHANE	2	U		2.5	U		2.5	U				
DICHLORODIFLUOROMETHANE	2	U		2.5	U		2.5	U				
ETHYL METHACRYLATE	2	U		2.5	U		2.5	U				
ETHYLBENZENE	2	U		2.5	U		2.5	U				
IODOMETHANE	2	U		2.5	U		2.5	U				
ISOBUTYL ALCOHOL	100	UR	C	120	UR	C	120	UR	C			
METHACRYLONITRILE	2	U		2.5	U		2.5	U				
METHYL METHACRYLATE	2	U		2.5	U		2.5	U				
METHYL TERT-BUTYL ETHER	5	U		12	U		12	U				
METHYLENE CHLORIDE	0.5	J	P	0.44	J	P	0.5	J	P			
PROPIONITRILE	8	U		10	U		10	U				
STYRENE	2	U		2.5	U		2.5	U				
TETRACHLOROETHENE	2	U		2.5	U		2.5	U				
TOLUENE	0.13	J	P	0.28	J	P	0.16	J	P			
TRANS-1,2-DICHLOROETHENE	1	U		1.2	U		1.2	U				
TRANS-1,3-DICHLOROPROPENE	2	U		2.5	U		2.5	U				
TRANS-1,4-DICHLORO-2-BUTENE	2	U		2.5	U		2.5	U				
TRICHLOROETHENE	2	U		2.5	U		2.5	U				
TRICHLOROFLUOROMETHANE	4	U		5	U		5	U				
VINYL ACETATE	2	U		2.5	U		2.5	U				
VINYL CHLORIDE	2	U		2.5	U		2.5	U				
XYLENES, TOTAL	2	U		2.5	U		2.5	U				

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-36-05	MPT-G4-GW-37-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080143001	A0G080143002	A0G080143008	A0G080143003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	10	U										
1,2,4-TRICHLORO BENZENE	10	U										
1,2-DICHLORO BENZENE	10	U										
1,3,5-TRINITRO BENZENE	10	U										
1,3-DICHLORO BENZENE	10	U										
1,3-DINITRO BENZENE	10	U										
1,4-DICHLORO BENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFLUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROBENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-36-05	MPT-G4-GW-37-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080143001	A0G080143002	A0G080143008	A0G080143003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UJ	C	10	UR	C	10	UJ	C	10	UR	C
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	UJ	C									
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U	A	7.3	U	A	5	U		5	U	A
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-36-05	MPT-G4-GW-37-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080143001	A0G080143002	A0G080143008	A0G080143003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	ED	10	UR	E	10	UR	E	10	UR	E
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPIRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-34-05	MPT-G4-GW-35-05	MPT-G4-GW-36-05	MPT-G4-GW-37-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080143001	A0G080143002	A0G080143008	A0G080143003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	1.5	J	P	10	U		10	U		10	U	
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-38-04	MPT-G4-GW-39-04	MPT-G4-GW-40-04	MPT-G4-GW-41-06
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/10/00
LABORATORY ID:	A0G080143005	A0G080143006	A0G080143007	A0G110125001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	U										
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-38-04	MPT-G4-GW-39-04	MPT-G4-GW-40-04	MPT-G4-GW-41-06
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/10/00
LABORATORY ID:	A0G080143005	A0G080143006	A0G080143007	A0G110125001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	UR	C	10	UJ	C	10	UJ	C	10	U	
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	UJ	C	10	UJ	C	10	UJ	C	10	U	
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U		5	U		5	U	
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-38-04	MPT-G4-GW-39-04	MPT-G4-GW-40-04	MPT-G4-GW-41-06
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/10/00
LABORATORY ID:	AOG080143005	AOG080143006	AOG080143007	AOG110125001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E	10	UR	E	10	UR	E	10	UR	ED
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPIRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-38-04	MPT-G4-GW-39-04	MPT-G4-GW-40-04	MPT-G4-GW-41-06
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/10/00
LABORATORY ID:	A0G080143005	A0G080143006	A0G080143007	A0G110125001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROETHANE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U		10	U		2.6	J	P	10	U	
SAFROLE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-42-04	MPT-G4-GW-43-04	MPT-G4-GW-44-04	MPT-G4-GW-45-07
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/11/00
LABORATORY ID:	A0G110125002	A0G110125003	A0G110125004	A0G120127001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,2,4-TRICHLOROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,2-DICHLOROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,3,5-TRINITROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,3-DICHLOROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,3-DINITROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,4-DICHLOROBENZENE	10	U		10	U		10	UJ	R	10	U	
1,4-DIOXANE	10	U		10	U		10	UJ	R	10	U	
1,4-NAPHTHOQUINONE	10	U		10	U		10	UJ	R	10	U	
1-NAPHTHYLAMINE	10	U		10	U		10	UJ	R	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U		10	U		10	UJ	R	10	U	
2,3,4,6-TETRACHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4,5-TRICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4,6-TRICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4-DICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4-DIMETHYLPHENOL	10	U		10	U		10	U		10	U	
2,4-DINITROPHENOL	25	U		25	U		25	U		25	U	
2,4-DINITROTOLUENE	10	U		10	U		10	UJ	R	10	U	
2,6-DICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,6-DINITROTOLUENE	10	U		10	U		10	UJ	R	10	U	
2-ACETYLAMINOFUORENE	10	U		10	U		10	UJ	R	10	U	
2-CHLORONAPHTHALENE	10	U		10	U		10	UJ	R	10	U	
2-CHLOROPHENOL	10	U		10	U		10	U		10	U	
2-METHYLNAPHTHALENE	10	U		10	U		10	UJ	R	10	U	
2-METHYLPHENOL	10	U		10	U		10	U		10	U	
2-NAPHTHYLAMINE	10	U		10	U		10	UJ	R	10	U	
2-NITROANILINE	25	U		25	U		25	UJ	R	25	U	
2-NITROPHENOL	10	U		10	U		10	U		10	U	
2-PICOLINE	10	U		10	U		10	UJ	R	10	U	
3,3'-DICHLOROBENZIDINE	10	U		10	U		10	UJ	R	10	U	
3,3'-DIMETHYLBENZIDINE	10	U		10	U		10	UJ	R	10	U	
3-METHYLCHOLANTHRENE	10	U		10	U		10	UJ	R	10	U	
3-METHYLPHENOL	10	U		10	U		10	U		10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-42-04	MPT-G4-GW-43-04	MPT-G4-GW-44-04	MPT-G4-GW-45-07
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/11/00
LABORATORY ID:	A0G110125002	A0G110125003	A0G110125004	A0G120127001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	25	U		25	U		25	UJ	R	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U		25	U		25	U		25	U	
4-AMINOBIHENYL	10	U		10	U		10	UJ	R	10	U	
4-BROMOPHENYL PHENYL ETHER	10	U		10	U		10	UJ	R	10	U	
4-CHLORO-3-METHYLPHENOL	10	U		10	U		10	U		10	U	
4-CHLOROANILINE	10	U		10	U		10	UJ	R	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U		10	U		10	UJ	R	10	U	
4-METHYLPHENOL	10	U		10	U		10	U		10	U	
4-NITROANILINE	25	U		25	U		25	UJ	R	25	U	
4-NITROPHENOL	25	U		25	U		25	U		25	U	
4-NITROQUINOLINE-1-OXIDE	10	U		10	U		10	UJ	CR	10	U	
5-NITRO-O-TOLUIDINE	10	U		10	U		10	UJ	R	10	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U		10	U		10	UJ	CR	10	U	
A,A-DIMETHYLPHENETHYLAMINE	50	U		50	U		50	UJ	R	50	U	
ACENAPHTHENE	10	U		10	U		10	UJ	R	10	U	
ACENAPHTHYLENE	10	U		10	U		10	UJ	R	10	U	
ACETOPHENONE	10	U		10	U		10	UJ	R	10	U	
ANILINE	10	U		10	U		10	UJ	R	10	U	
ANTHRACENE	10	U		10	U		10	UJ	R	10	U	
ARAMITE	10	U		10	U		10	UJ	R	10	U	
BENZO(A)ANTHRACENE	10	U		10	U		10	UJ	R	10	U	
BENZO(A)PYRENE	10	U		10	U		10	UJ	R	10	U	
BENZO(B)FLUORANTHENE	10	U		10	U		10	UJ	R	10	U	
BENZO(G,H,I)PERYLENE	10	U		10	U		10	UJ	R	10	U	
BENZO(K)FLUORANTHENE	10	U		10	U		10	UJ	R	10	U	
BENZYL ALCOHOL	10	U		10	U		10	UJ	R	10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U		10	U		10	UJ	R	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U		10	U		10	UJ	R	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	5	U	A	5	U		5	UJ	R	5	U	
BUTYLBENZYL PHTHALATE	10	U		10	U		10	UJ	R	10	U	
CARBAZOLE	10	U		10	U		10	UJ	R	10	U	
CHLOROBENZILATE	10	U		10	U		10	UJ	R	10	U	
CHRYSENE	10	U		10	U		10	U	R	10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-42-04	MPT-G4-GW-43-04	MPT-G4-GW-44-04	MPT-G4-GW-45-07
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/11/00
LABORATORY ID:	A0G110125002	A0G110125003	A0G110125004	A0G120127001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U		10	U		10	UJ	R	10	U	
DI-N-OCTYL PHTHALATE	10	U		10	U		10	UJ	R	10	U	
DIALLATE	20	U		20	U		20	UJ	R	20	U	
DIBENZO(A,H)ANTHRACENE	10	U		10	U		10	UJ	R	10	U	
DIBENZOFURAN	10	U		10	U		10	UJ	R	10	U	
DIETHYL PHTHALATE	10	U		10	U		10	UJ	R	10	U	
DIMETHYL PHTHALATE	10	UR	E	10	UR	E	10	UJ	R	10	UR	D
DINOSEB	20	U		20	U		20	U		20	U	
DIPHENYLAMINE	10	U		10	U		10	UJ	R	10	U	
ETHYL METHANESULFONATE	10	U		10	U		10	UJ	R	10	U	
FLUORANTHENE	10	U		10	U		10	UJ	R	10	U	
FLUORENE	10	U		10	U		10	UJ	R	10	U	
HEXACHLORO BENZENE	10	U		10	U		10	UJ	R	10	U	
HEXACHLOROBUTADIENE	10	U		10	U		10	UJ	R	10	U	
HEXACHLOROCYCLOPENTADIENE	10	UR	E	10	UR	E	10	UR	E	10	UR	ED
HEXACHLOROETHANE	10	U		10	U		10	UJ	R	10	U	
HEXACHLOROPROPENE	10	U		10	U		10	UJ	R	10	U	
INDENO(1,2,3-CD)PYRENE	10	U		10	U		10	UJ	R	10	U	
ISOPHORONE	10	U		10	U		10	UJ	R	10	U	
ISOSAFROLE	10	U		10	U		10	UJ	R	10	U	
METHAPYRILENE	10	U		10	U		10	UJ	R	10	U	
METHYL METHANESULFONATE	10	U		10	U		10	UJ	R	10	U	
N-NITROSO-DI-N-BUTYLAMINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSODIETHYLAMINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSODIMETHYLAMINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSODIPHENYLAMINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSOMETHYLETHYLAMINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSOMORPHOLINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSOPIPERIDINE	10	U		10	U		10	UJ	R	10	U	
N-NITROSOPIRROLIDINE	10	U		10	U		10	UJ	R	10	U	
NAPHTHALENE	10	U		10	U		10	UJ	R	10	U	
NITROBENZENE	10	U		10	U		10	UJ	R	10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-42-04	MPT-G4-GW-43-04	MPT-G4-GW-44-04	MPT-G4-GW-45-07
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/11/00
LABORATORY ID:	A0G110125002	A0G110125003	A0G110125004	A0G120127001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	10	U		10	U		10	UJ	R	10	U	
P-DIMETHYLAMINOAZOBENZENE	10	U		10	U		10	UJ	R	10	U	
P-PHENYLENEDIAMINE	10	U		10	U		10	UJ	R	10	U	
PENTACHLOROBENZENE	10	U		10	U		10	UJ	R	10	U	
PENTACHLOROETHANE	50	U		50	U		50	UJ	R	50	U	
PENTACHLORONITROBENZENE	10	U		10	U		10	UJ	R	10	U	
PENTACHLOROPHENOL	10	U		10	U		10	U		10	U	
PHENACETIN	10	U		10	U		10	UJ	R	10	U	
PHENANTHRENE	10	U		10	U		10	UJ	R	10	U	
PHENOL	10	U		10	U		10	U		10	U	
PRONAMIDE	10	U		10	U		10	UJ	R	10	U	
PYRENE	10	U		10	U		10	UJ	R	10	U	
PYRIDINE	10	U		10	U		10	UJ	R	10	U	
SAFROLE	10	U		10	U		10	UJ	R	10	U	

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-46-07	MPT-G4-GW-47-07	MPT-G4-GW-48-07	MPT-G4-GW-49-07
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120127002	A0G120127003	A0G120127004	A0G120127005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	10	U										
1,2,4-TRICHLOROENZENE	10	U										
1,2-DICHLOROENZENE	10	U										
1,3,5-TRINITROENZENE	10	U										
1,3-DICHLOROENZENE	10	U										
1,3-DINITROENZENE	10	U										
1,4-DICHLOROENZENE	10	U										
1,4-DIOXANE	10	U										
1,4-NAPHTHOQUINONE	10	U										
1-NAPHTHYLAMINE	10	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U										
2,3,4,6-TETRACHLOROPHENOL	10	U										
2,4,5-TRICHLOROPHENOL	10	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	25	U										
2,4-DINITROTOLUENE	10	U										
2,6-DICHLOROPHENOL	10	U										
2,6-DINITROTOLUENE	10	U										
2-ACETYLAMINOFUORENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NAPHTHYLAMINE	10	U										
2-NITROANILINE	25	U										
2-NITROPHENOL	10	U										
2-PICOLINE	10	U										
3,3'-DICHLOROENZIDINE	10	U										
3,3'-DIMETHYLBENZIDINE	10	U										
3-METHYLCHOLANTHRENE	10	U										
3-METHYLPHENOL	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-46-07	MPT-G4-GW-47-07	MPT-G4-GW-48-07	MPT-G4-GW-49-07
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120127002	A0G120127003	A0G120127004	A0G120127005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
3-NITROANILINE	25	U										
4,6-DINITRO-2-METHYLPHENOL	25	U										
4-AMINOBIIPHENYL	10	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	10	U										
4-CHLOROANILINE	10	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-METHYLPHENOL	10	U										
4-NITROANILINE	25	U										
4-NITROPHENOL	25	U										
4-NITROQUINOLINE-1-OXIDE	10	U										
5-NITRO-O-TOLUIDINE	10	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U										
A,A-DIMETHYLPHENETHYLAMINE	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ACETOPHENONE	10	U										
ANILINE	10	U										
ANTHRACENE	10	U										
ARAMITE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZYL ALCOHOL	10	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	5	U	A	5	U		5	U		5	U	A
BUTYLBENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHLOROBENZILATE	10	U										
CHRYSENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-46-07	MPT-G4-GW-47-07	MPT-G4-GW-48-07	MPT-G4-GW-49-07
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120127002	A0G120127003	A0G120127004	A0G120127005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIALLATE	20	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	UR	E									
DINOSEB	20	U										
DIPHENYLAMINE	10	U										
ETHYL METHANESULFONATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	UR	E									
HEXACHLOROETHANE	10	U										
HEXACHLOROPROPENE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
ISOSAFROLE	10	U										
METHAPYRILENE	10	U										
METHYL METHANESULFONATE	10	U										
N-NITROSO-DI-N-BUTYLAMINE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIETHYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
N-NITROSOMETHYLETHYLAMINE	10	U										
N-NITROSOMORPHOLINE	10	U										
N-NITROSOPIPERIDINE	10	U										
N-NITROSOPYRROLIDINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP019**

SAMPLE NUMBER:	MPT-G4-GW-46-07	MPT-G4-GW-47-07	MPT-G4-GW-48-07	MPT-G4-GW-49-07
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120127002	A0G120127003	A0G120127004	A0G120127005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
SEMIVOLATILES												
O-TOLUIDINE	10	U										
P-DIMETHYLAMINOAZOBENZENE	10	U										
P-PHENYLENEDIAMINE	10	U										
PENTACHLOROBENZENE	10	U										
PENTACHLOROETHANE	50	U										
PENTACHLORONITROBENZENE	10	U										
PENTACHLOROPHENOL	10	U										
PHENACETIN	10	U										
PHENANTHRENE	10	U										
PHENOL	10	U										
PRONAMIDE	10	U										
PYRENE	10	U										
PYRIDINE	10	U										
SAFROLE	10	U										

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD110V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture †:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	0.93	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	0.63	J
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.80	
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD110V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.14	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.066	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD110V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture †:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD410V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.3	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD410V

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.17	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.046	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWDC10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-36-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	0.94	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.17	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWDC10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-36-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.19		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.076		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWDC10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-36-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD510V

Date Extracted: 07/15/00

Dilution factor: 1

Date Analyzed: 07/15/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.2	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD510V

Date Extracted: 07/15/00

Dilution factor: 1

Date Analyzed: 07/15/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.18	J B
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.051	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	0.65	J
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD510V

Date Extracted: 07/15/00

Dilution factor: 1

Date Analyzed: 07/15/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD810V

Date Extracted: 07/15/00

Dilution factor: 1

Date Analyzed: 07/15/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-38-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.1	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD810V

Date Extracted: 07/15/00

Dilution factor: 1

Date Analyzed: 07/15/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-38-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.18		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.044		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD810V

Date Extracted: 07/15/00

Dilution factor: 1

Date Analyzed: 07/15/00

Moisture %:

QC Batch: 0199127

Client Sample Id: MPT-G4-GW-38-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

MEMO TO: T. HANSEN
DATE: NOVEMBER 10, 2000

- * • Detection Limits
- * - All quality control criteria were met for this parameter.

Volatiles

All initial and continuing calibration RRFs for acrolein, acetonitrile and isobutyl alcohol were <0.05 quality control limit affecting all samples. The nondetected results reported for the above listed compounds were qualified as rejected, "UR". No positive results were reported for these compounds.

The initial calibration %RSDs for acetone was >30% but <50% quality control limit affecting the samples analyzed on instrument A3UX7. The positive results reported for acetone in the trip blanks were qualified as estimated, "J". All other results reported for acetone in the affected samples were qualified due to blank contamination. Therefore, no validation action was taken on this basis.

The continuing calibration %Ds for acrolein and vinyl acetate were >25% quality control limit affecting the samples analyzed on instrument A3UX7 on July 14. Only nondetected results were reported for vinyl acetate in the affected samples and these were qualified as estimated, "UJ". All results reported for acrolein were rejected due to initial calibration RRF <0.05. Therefore, no further validation action was taken on this basis.

The continuing calibration %Ds for acetone and isobutyl alcohol were >25% quality control limit affecting the samples analyzed on instrument A3UX7 on July 17. The nondetected results reported for isobutyl alcohol in the affected samples were rejected due to initial calibration noncompliances. All results reported for acetone in the affected samples were qualified due to blank contamination. Therefore, no further validation action for either compound was taken on this basis.

The initial calibration %RSD for acetone was >30% but <50% quality control limit affecting the samples analyzed on instrument A3UX10. All results reported for acetone in the affected samples were qualified due to blank contamination. Therefore, no validation action was taken on this basis.

The following compounds were detected in the laboratory method blanks / trip blanks at the following maximum concentrations:

<u>Compound</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
2-Butanone ⁽¹⁾	39 µg/L	390 µg/L
2-Hexanone ⁽¹⁾	5.3 µg/L	26.5 µg/L
Acetone ⁽¹⁾	81 µg/L	810 µg/L
Benzene	0.099 µg/L	0.495 µg/L
Chloromethane ⁽¹⁾	0.73 µg/L	3.65 µg/L
Methylene chloride	0.44 µg/L	4.4 µg/L
Toluene ⁽¹⁾	0.28 µg/L	1.4 µg/L

⁽¹⁾ Maximum concentration present in a trip blank.

An action level of 5 to 10X the maximum concentration was used to evaluate samples for blank contamination. The positive results less than the blank action level for 2-butanone, acetone, benzene, chloromethane, methylene chloride and toluene were qualified, "U", as a result of blank contamination. It should be noted the field quality control blanks are not qualified based on method blank contamination or contamination in other field quality control blanks.

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD4101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-35-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD910V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-39-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.0	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.11	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.49	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.22	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWDA10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-40-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.19		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.045		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWDA10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DG0TK10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.9	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.20	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOTK10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOTK10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DG0TV10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-42-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.3	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.28	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.18	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOTV10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-42-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MSK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DG0TV10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-42-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WG Lab Sample ID: AOG110125 003

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/11/00

Work Order: DG0TX10V Date Extracted: 07/17/00

Dilution factor: 1 Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-43-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.1	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.44	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.28	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.16	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DG0TX10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-43-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DG0TX10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-43-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOV010V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-44-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.1	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.34	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.32	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	0.22	J
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOV010V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-44-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOV010V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-44-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2M412L

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	6.3	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.26	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.15	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2M412L

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.097	J B
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	0.64	J
108-10-1	4-Methyl-2-pentanone (MIBK)	1.0	J

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2M412L

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2PN10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-46-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	2.6	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.46	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2PN10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-46-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.063		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2PN10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-46-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2Q910V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.8	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	0.43	J
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2Q910V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2Q910V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QE10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-48-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	2.0	J B
75-05-8	Acetonitrile	20	Q
107-02-8	Acrolein	10	Q
107-13-1	Acrylonitrile	10	Q
71-43-2	Benzene	1.0	Q
75-27-4	Bromodichloromethane	1.0	Q
75-25-2	Bromoform	1.0	Q
74-83-9	Bromomethane	2.0	Q
75-15-0	Carbon disulfide	1.0	Q
56-23-5	Carbon tetrachloride	1.0	Q
108-90-7	Chlorobenzene	1.0	Q
126-99-8	Chloroprene	1.0	Q
124-48-1	Dibromochloromethane	1.0	Q
96-12-8	1,2-Dibromo-3-chloropropane	1.0	Q
75-00-3	Chloroethane	1.0	Q
110-75-8	2-Chloroethyl vinyl ether	1.0	Q
67-66-3	Chloroform	1.0	Q
74-87-3	Chloromethane	1.0	Q
107-05-1	Allyl chloride	1.0	Q
74-95-3	Dibromomethane	1.0	Q
110-57-6	trans-1,4-Dichloro-2-butene	1.0	Q
75-71-8	Dichlorodifluoromethane	1.0	Q
75-34-3	1,1-Dichloroethane	1.0	Q
107-06-2	1,2-Dichloroethane	1.0	Q
75-35-4	1,1-Dichloroethene	1.0	Q
156-59-2	cis-1,2-Dichloroethene	0.50	Q
156-60-5	trans-1,2-Dichloroethene	0.50	Q
540-59-0	1,2-Dichloroethene (total)	1.0	Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QE10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-48-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	1.0		U
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QE10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-48-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QH10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200218

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.9	J B
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.097	J B
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	0.37	J
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QH10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200218

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QH10V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200218

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: A0G080143 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD6101

Date Extracted: 07/17/00

Dilution factor: 2

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: TB070700

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	64	B
75-05-8	Acetonitrile	40	U
107-02-8	Acrolein	20	U
107-13-1	Acrylonitrile	20	U
71-43-2	Benzene	2.0	U
75-27-4	Bromodichloromethane	2.0	U
75-25-2	Bromoform	2.0	U
74-83-9	Bromomethane	4.0	U
75-15-0	Carbon disulfide	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
108-90-7	Chlorobenzene	2.0	U
126-99-8	Chloroprene	2.0	U
124-48-1	Dibromochloromethane	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
75-00-3	Chloroethane	2.0	U
110-75-8	2-Chloroethyl vinyl ether	2.0	U
67-66-3	Chloroform	2.0	U
74-87-3	Chloromethane	0.50	J
107-05-1	Allyl chloride	2.0	U
74-95-3	Dibromomethane	2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	2.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
540-59-0	1,2-Dichloroethene (total)	2.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: A0G080143 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD6101

Date Extracted: 07/17/00

Dilution factor: 2

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: TB070700

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
78-87-5	1,2-Dichloropropane	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
100-41-4	Ethylbenzene	2.0	U
97-63-2	Ethyl methacrylate	2.0	U
75-69-4	Trichlorofluoromethane	4.0	U
591-78-6	2-Hexanone	4.0	J
74-88-4	Iodomethane	2.0	U
78-83-1	Isobutyl alcohol	100	U
126-98-7	Methacrylonitrile	2.0	U
75-09-2	Methylene chloride	0.50	J B
80-62-6	Methyl methacrylate	2.0	U
107-12-0	Propionitrile	8.0	U
100-42-5	Styrene	2.0	U
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
127-18-4	Tetrachloroethene	2.0	U
108-88-3	Toluene	0.13	J B
71-55-6	1,1,1-Trichloroethane	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
79-01-6	Trichloroethene	2.0	U
96-18-4	1,2,3-Trichloropropane	2.0	U
108-05-4	Vinyl acetate	2.0	U
75-01-4	Vinyl chloride	2.0	U
1330-20-7	Xylenes (total)	2.0	U
106-93-4	1,2-Dibromoethane (EDB)	2.0	U
78-93-3	2-Butanone (MEK)	27	
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: A0G080143 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD6101

Date Extracted: 07/17/00

Dilution factor: 2

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: TB070700

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: A0G110125 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOV1101

Date Extracted: 07/18/00

Dilution factor: 2.5

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0201165

Client Sample Id: TB071000

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	73	B
75-05-8	Acetonitrile	50	U
107-02-8	Acrolein	25	U
107-13-1	Acrylonitrile	25	U
71-43-2	Benzene	2.5	U
75-27-4	Bromodichloromethane	2.5	U
75-25-2	Bromoform	2.5	U
74-83-9	Bromomethane	5.0	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
108-90-7	Chlorobenzene	2.5	U
126-99-8	Chloroprene	2.5	U
124-48-1	Dibromochloromethane	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
75-00-3	Chloroethane	2.5	U
110-75-8	2-Chloroethyl vinyl ether	2.5	U
67-66-3	Chloroform	2.5	U
74-87-3	Chloromethane	0.73	J
107-05-1	Allyl chloride	2.5	U
74-95-3	Dibromomethane	2.5	U
110-57-6	trans-1,4-Dichloro-2-butene	2.5	U
75-71-8	Dichlorodifluoromethane	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
156-60-5	trans-1,2-Dichloroethene	1.2	U
540-59-0	1,2-Dichloroethene (total)	2.5	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: AOG110125 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOV1101

Date Extracted: 07/18/00

Dilution factor: 2.5

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0201165

Client Sample Id: TB071000

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
78-87-5	1,2-Dichloropropane	2.5		U
10061-01-5	cis-1,3-Dichloropropene	2.5		U
10061-02-6	trans-1,3-Dichloropropene	2.5		U
100-41-4	Ethylbenzene	2.5		U
97-63-2	Ethyl methacrylate	2.5		U
75-69-4	Trichlorofluoromethane	5.0		U
591-78-6	2-Hexanone	4.2		J
74-88-4	Iodomethane	2.5		U
78-83-1	Isobutyl alcohol	120		U
126-98-7	Methacrylonitrile	2.5		U
75-09-2	Methylene chloride	0.44		J B
80-62-6	Methyl methacrylate	2.5		U
107-12-0	Propionitrile	10		U
100-42-5	Styrene	2.5		U
630-20-6	1,1,1,2-Tetrachloroethane	2.5		U
79-34-5	1,1,2,2-Tetrachloroethane	2.5		U
127-18-4	Tetrachloroethene	2.5		U
108-88-3	Toluene	0.28		J
71-55-6	1,1,1-Trichloroethane	2.5		U
79-00-5	1,1,2-Trichloroethane	2.5		U
79-01-6	Trichloroethene	2.5		U
96-18-4	1,2,3-Trichloropropane	2.5		U
108-05-4	Vinyl acetate	2.5		U
75-01-4	Vinyl chloride	2.5		U
1330-20-7	Xylenes (total)	2.5		U
106-93-4	1,2-Dibromoethane (EDB)	2.5		U
78-93-3	2-Butanone (MEK)	33		
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: AOG110125 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/11/00

Work Order: DGOV1101

Date Extracted: 07/18/00

Dilution factor: 2.5

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0201165

Client Sample Id: TB071000

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	12		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: A0G120127 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QJ101

Date Extracted: 07/18/00

Dilution factor: 2.5

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0201165

Client Sample Id: TB071100

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	81	B
75-05-8	Acetonitrile	50	U
107-02-8	Acrolein	25	U
107-13-1	Acrylonitrile	25	U
71-43-2	Benzene	2.5	U
75-27-4	Bromodichloromethane	2.5	U
75-25-2	Bromoform	2.5	U
74-83-9	Bromomethane	5.0	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
108-90-7	Chlorobenzene	2.5	U
126-99-8	Chloroprene	2.5	U
124-48-1	Dibromochloromethane	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
75-00-3	Chloroethane	2.5	U
110-75-8	2-Chloroethyl vinyl ether	2.5	U
67-66-3	Chloroform	2.5	U
74-87-3	Chloromethane	0.60	J
107-05-1	Allyl chloride	2.5	U
74-95-3	Dibromomethane	2.5	U
110-57-6	trans-1,4-Dichloro-2-butene	2.5	U
75-71-8	Dichlorodifluoromethane	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
156-60-5	trans-1,2-Dichloroethene	1.2	U
540-59-0	1,2-Dichloroethene (total)	2.5	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: AOG120127 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QJ101

Date Extracted: 07/18/00

Dilution factor: 2.5

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0201165

Client Sample Id: TB071100

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	2.5		U
10061-01-5	cis-1,3-Dichloropropene	2.5		U
10061-02-6	trans-1,3-Dichloropropene	2.5		U
100-41-4	Ethylbenzene	2.5		U
97-63-2	Ethyl methacrylate	2.5		U
75-69-4	Trichlorofluoromethane	5.0		U
591-78-6	2-Hexanone	5.3		J
74-88-4	Iodomethane	2.5		U
78-83-1	Isobutyl alcohol	120		U
126-98-7	Methacrylonitrile	2.5		U
75-09-2	Methylene chloride	0.50		J B
80-62-6	Methyl methacrylate	2.5		U
107-12-0	Propionitrile	10		U
100-42-5	Styrene	2.5		U
630-20-6	1,1,1,2-Tetrachloroethane	2.5		U
79-34-5	1,1,2,2-Tetrachloroethane	2.5		U
127-18-4	Tetrachloroethene	2.5		U
108-88-3	Toluene	0.16		J
71-55-6	1,1,1-Trichloroethane	2.5		U
79-00-5	1,1,2-Trichloroethane	2.5		U
79-01-6	Trichloroethene	2.5		U
96-18-4	1,2,3-Trichloropropane	2.5		U
108-05-4	Vinyl acetate	2.5		U
75-01-4	Vinyl chloride	2.5		U
1330-20-7	Xylenes (total)	2.5		U
106-93-4	1,2-Dibromoethane (EDB)	2.5		U
78-93-3	2-Butanone (MEK)	39		
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WQ

Lab Sample ID: A0G120127 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DG2QJ101

Date Extracted: 07/18/00

Dilution factor: 2.5

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0201165

Client Sample Id: TB071100

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTBE)	12	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WG Lab Sample ID: A0G080143 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/08/00
 Work Order: DFWD1101 Date Extracted: 07/11/00
 Dilution factor: 1 Date Analyzed: 07/27/00
 Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	2.6		J B
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD1101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD1101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD1101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	1.5	J
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD1101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD4101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	7.3	B
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD4101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD4101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/08/00

Work Order: DFWD910V

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %:

QC Batch: 0200179

Client Sample Id: MPT-G4-GW-39-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.20		J B
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	0.048		J B
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QH101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDC101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-36-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q	
83-32-9	Acenaphthene	10			U
208-96-8	Acenaphthylene	10			U
98-86-2	Acetophenone	10			U
53-96-3	2-Acetylaminofluorene	10			U
92-67-1	4-Aminobiphenyl	10			U
62-53-3	Aniline	10			U
120-12-7	Anthracene	10			U
56-55-3	Benzo (a) anthracene	10			U
205-99-2	Benzo (b) fluoranthene	10			U
207-08-9	Benzo (k) fluoranthene	10			U
191-24-2	Benzo (ghi) perylene	10			U
50-32-8	Benzo (a) pyrene	10			U
100-51-6	Benzyl alcohol	10			U
111-91-1	bis (2-Chloroethoxy) methane	10			U
111-44-4	bis (2-Chloroethyl) ether	10			U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10			U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0			U
101-55-3	4-Bromophenyl phenyl ether	10			U
85-68-7	Butyl benzyl phthalate	10			U
106-47-8	4-Chloroaniline	10			U
59-50-7	4-Chloro-3-methylphenol	10			U
91-58-7	2-Chloronaphthalene	10			U
95-57-8	2-Chlorophenol	10			U
7005-72-3	4-Chlorophenyl phenyl ether	10			U
218-01-9	Chrysene	10			U
2303-16-4	Diallate	20			U
53-70-3	Dibenz (a, h) anthracene	10			U
132-64-9	Dibenzofuran	10			U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDC101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-36-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz (a) anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDC101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-36-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDC101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-36-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 008

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDC101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-36-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD5101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	3.3	J B
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD5101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD5101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WG Lab Sample ID: A0G080143 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/08/00
 Work Order: DFWD5101 Date Extracted: 07/11/00
 Dilution factor: 1 Date Analyzed: 07/26/00
 Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD5101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD8101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-38-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD8101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-38-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD8101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-38-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD8101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-38-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD8101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-38-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD9101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-39-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD9101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-39-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD9101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-39-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD9101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-39-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD9101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-39-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite		10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDA101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDA101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG080143 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDA101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDA101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	2.6	J
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWDA101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-40-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TK101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-41-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TK101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz (a) anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP019

Matrix: (soil/water) WG

Lab Sample ID:A0G110125 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TK101

Date Extracted:07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TK101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TK101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-41-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TV101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-42-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	2.7	J B
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TV101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-42-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TV101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-42-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample Wt/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TV101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-42-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TV101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-42-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TX101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-43-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TX101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-43-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TX101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-43-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TX101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-43-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0TX101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-43-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DGOV0101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-44-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DGOV0101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-44-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DGOV0101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-44-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG0V0101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-44-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DGOV0101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %:

QC Batch: 0193315

Client Sample Id: MPT-G4-GW-44-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 900 / mL

Date Received: 07/11/00

Work Order: DGOV0201

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0206104

Client Sample Id: MPT-G4-GW-44-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 900 / mL

Date Received: 07/11/00

Work Order: DGOV0201

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0206104

Client Sample Id: MPT-G4-GW-44-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 900 / mL

Date Received: 07/11/00

Work Order: DG0V0201

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0206104

Client Sample Id: MPT-G4-GW-44-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 900 / mL

Date Received: 07/11/00

Work Order: DGOV0201

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0206104

Client Sample Id: MPT-G4-GW-44-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G110125 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 900 / mL

Date Received: 07/11/00

Work Order: DGOV0201

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %:

QC Batch: 0206104

Client Sample Id: MPT-G4-GW-44-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2M4101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2M4101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-45-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2M4101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2M4101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2M4101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-45-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2PN101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-46-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	2.6	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2PN101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-46-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2PN101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-46-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2PN101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-46-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2FN101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-46-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2Q9101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2Q9101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
84-74-2	Di-n-butyl phthalate	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
120-83-2	2,4-Dichlorophenol	10		U
87-65-0	2,6-Dichlorophenol	10		U
84-66-2	Diethyl phthalate	10		U
60-11-7	p-Dimethylaminoazobenzene	10		U
57-97-6	7,12-Dimethylbenz(a)anthracene	10		U
119-93-7	3,3'-Dimethylbenzidine	10		U
105-67-9	2,4-Dimethylphenol	10		U
131-11-3	Dimethyl phthalate	10		U
117-84-0	Di-n-octyl phthalate	10		U
99-65-0	1,3-Dinitrobenzene	10		U
534-52-1	4,6-Dinitro-2-methylphenol	25		U
51-28-5	2,4-Dinitrophenol	25		U
121-14-2	2,4-Dinitrotoluene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20		U
123-91-1	1,4-Dioxane	10		U
122-39-4	Diphenylamine	10		U
62-50-0	Ethyl methanesulfonate	10		U
206-44-0	Fluoranthene	10		U
86-73-7	Fluorene	10		U
118-74-1	Hexachlorobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2Q9101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2Q9101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-47-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2Q9101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-47-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QE101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-48-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo (a) anthracene	10		U
205-99-2	Benzo (b) fluoranthene	10		U
207-08-9	Benzo (k) fluoranthene	10		U
191-24-2	Benzo (ghi) perylene	10		U
50-32-8	Benzo (a) pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis (2-Chloroethoxy) methane	10		U
111-44-4	bis (2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10		U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz (a, h) anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QE101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-48-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q	U
		(ug/L or ug/kg)	ug/L		
84-74-2	Di-n-butyl phthalate	10			U
95-50-1	1,2-Dichlorobenzene	10			U
541-73-1	1,3-Dichlorobenzene	10			U
106-46-7	1,4-Dichlorobenzene	10			U
91-94-1	3,3'-Dichlorobenzidine	10			U
120-83-2	2,4-Dichlorophenol	10			U
87-65-0	2,6-Dichlorophenol	10			U
84-66-2	Diethyl phthalate	10			U
60-11-7	p-Dimethylaminoazobenzene	10			U
57-97-6	7,12-Dimethylbenz(a)anthracene	10			U
119-93-7	3,3'-Dimethylbenzidine	10			U
105-67-9	2,4-Dimethylphenol	10			U
131-11-3	Dimethyl phthalate	10			U
117-84-0	Di-n-octyl phthalate	10			U
99-65-0	1,3-Dinitrobenzene	10			U
534-52-1	4,6-Dinitro-2-methylphenol	25			U
51-28-5	2,4-Dinitrophenol	25			U
121-14-2	2,4-Dinitrotoluene	10			U
606-20-2	2,6-Dinitrotoluene	10			U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20			U
123-91-1	1,4-Dioxane	10			U
122-39-4	Diphenylamine	10			U
62-50-0	Ethyl methanesulfonate	10			U
206-44-0	Fluoranthene	10			U
86-73-7	Fluorene	10			U
118-74-1	Hexachlorobenzene	10			U
87-68-3	Hexachlorobutadiene	10			U
77-47-4	Hexachlorocyclopentadiene	10			U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QE101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-48-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QE101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-48-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QE101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-48-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QH101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	2.9		J
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G120127 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QH101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: AOG120127 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG2QH101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %:

QC Batch: 0194279

Client Sample Id: MPT-G4-GW-49-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WG

Lab Sample ID: A0G080143 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFWD4101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %:

QC Batch: 0192223

Client Sample Id: MPT-G4-GW-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

CLIENT	Mayport	JOB NUMBER	
SUBJECT	Sample Calculation		
BASED ON	MPT-G4-GW-34-05	DRAWING NUMBER	
BY	yap	CHECKED BY	
		APPROVED BY	
			DATE

phenol 1.5 ug/L

$$\frac{(54702)(8)(5000)}{(296233)(2.5006)(1000)(2)}$$

= 1.47 = 1.5 ug/L

(296233)(2.5006)(1000)(2)

1.5 ug/L

APPENDIX C
SUPPORT DOCUMENTATION

SDG NARRATIVE

MP019

The following report contains the analytical results for nineteen water samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV Site, project number N0123. The samples were received July 8, 11, and 12, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

Coolers were received at the laboratory at temperatures of 2.1, 2.4, 2.4, 3.0, and 1.2.

(See STL's Cooler Receipt Form for additional information.)

SAMPLE SUMMARY

A0G110125

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DG0TK	001	MPT-G4-GW-41-06	07/10/00	11:50
DG0TV	002	MPT-G4-GW-42-04	07/10/00	14:30
DG0TX	003	MPT-G4-GW-43-04	07/10/00	15:27
DG0V0	004	MPT-G4-GW-44-04	07/10/00	16:30
DG0V1	005	TB071000	07/10/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G080143

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFWD1	001	MPT-G4-GW-34-05	07/07/00	08:15
DFWD4	002	MPT-G4-GW-35-05	07/07/00	09:40
DFWD5	003	MPT-G4-GW-37-05	07/07/00	11:35
DFWD6	004	TB070700	07/07/00	
DFWD8	005	MPT-G4-GW-38-04	07/07/00	13:25
DFWD9	006	MPT-G4-GW-39-04	07/07/00	14:25
DFWDA	007	MPT-G4-GW-40-04	07/07/00	15:25
DFWDC	008	MPT-G4-GW-36-05	07/07/00	10:35

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G120127

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DG2M4	001	MPT-G4-GW-45-07	07/11/00	09:27
DG2FN	002	MPT-G4-GW-46-07	07/11/00	11:00
DG2Q9	003	MPT-G4-GW-47-07	07/11/00	13:45
DG2QE	004	MPT-G4-GW-48-07	07/11/00	15:20
DG2QH	005	MPT-G4-GW-49-07	07/11/00	16:35
DG2QJ	006	TB071100	07/11/00	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



PROJECT NO: NO123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: Terry Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE): Chal Wale		FIELD OPERATIONS LEADER AND PHONE NUMBER: Tom Thompson (904) 281-0400	ADDRESS: 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER 7911 0738 9714 FedEx: 07911 0738 9600	CITY, STATE: N. Canton, OH

STANDARD TAT RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)					PRESERVATIVE USED	COMMENTS
						TOTAL VOC	TOTAL SVOC	TOTAL Metals + Tin	Cyanide	HCl			HNO3	NaOH
7-7	0750	MPT-G4-SU-34-05	S	5	5	X	X	X	X			Cool to 4°C
	0815	MPT-G4-GW-34-05	GW	7	7	X	X	X	X			
	0910	MPT-G4-SU-35-05	S	5	5	X	X	X	X			
	0940	MPT-G4-GW-35-05	GW	7	7	X	X	X	X			
	1110	MPT-G4-SU-36-37-05	S	5	5	X	X	X	X			
	1125	MPT-G4-GW-37-05	GW	7	7	X	X	X	X			
	1250	MPT-G4-SU-38-05	S	5	5	X	X	X	X			
		TBO70700	W	2	2	X			X			
	1325	MPT-G4-GW-38-04	GW	7	7	X	X	X	X			
	1330	MPT-G4-SU-39-05	S	5	5	X	X	X	X			
	1425	MPT-G4-GW-39-04	GW	7	7	X	X	X	X			
	1446	MPT-G4-SU-40-05	S	5	5	X	X	X	X			
	1525	MPT-G4-GW-40-04	GW	7	7	X	X	X	X			

1. RELINQUISHED BY:	DATE: 7-7-00	TIME: 1900	1. RECEIVED BY:	DATE: 7/8/00	TIME: 1015
2. RELINQUISHED BY:	DATE:	TIME:	2. RECEIVED BY:	DATE:	TIME:
3. RELINQUISHED BY:	DATE:	TIME:	3. RECEIVED BY:	DATE:	TIME:

COMMENTS: 2 Coolers - 1D#5: 070700-1 & 070700-2
 DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 2.1, 2.4°C



PROJECT NO: NO123	SITE NAME: NS Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: T. Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE): 		FIELD OPERATIONS LEADER AND PHONE NUMBER: T. Thompson	ADDRESS: 4101 Shuffel Dr NW
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER: Fed Ex 7908 5994 0010	CITY, STATE: N. Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)					PRESERVATIVE USED	COMMENTS
						TYPE OF ANALYSIS	TOC	VOC	SVOC	TAL Metals + Tin		
7-10	1025	MPT-64-SU-41-06	S	G	5	X	X	X	X			Cool to 4°C
	1150	MPT-64-GW-41-06	GW		7	X	X	X	X			
	1345	MPT-64-SU-42-04	S		5	X	X	X	X			
	1430	MPT-64-GW-42-04	GW		7	X	X	X	X			
	1457	MPT-64-SU-43-04	S		5	X	X	X	X			
	1527	MPT-64-GW-43-04	GW		7	X	X	X	X			
	1600	MPT-64-SU-44-	S		5	X	X	X	X			
	1630	MPT-64-GW-44-04	GW		7	X	X	X	X			
		TB07000	W		2	X						

1. RELINQUISHED BY 	DATE 7-10-00	TIME 1700	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY 	DATE 7/10	TIME 910
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

St. North Canton



PROJECT NO: N0123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: T. Mansur	LABORATORY NAME AND CONTACT: Quanta
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER: T. Thompson (904) 281-0400	ADDRESS: 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER 7911 1012 7614 FedEx 1923 5223 0232	CITY, STATE: N. Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (G)	No. OF CONTAINERS	TYPE OF ANALYSIS					COMMENTS	
						TCV VOC	TCV SVOC	TAL Metals + Tin Cyanide	HCl	HNO3		NaOH
7-11	0810	MPT-G4-SU-45-04	S	G	5	X	X	X	X			Cool to 4°C
	0927	MPT-G4-GW-45-07	GW		7	X	X	X	X			
	0955	MPT-G4-SU-46-03	S		5	X	X	X	X			
	1100	MPT-G4-GW-46-07	GW		7	X	X	X	X			
	1300	MPT-G4-SU-47-02	S		5	X	X	X	X			
	1345	MPT-G4-GW-47-07	GW		7	X	X	X	X			
	1430	MPT-G4-SU-48-04	S		5	X	X	X	X			
	1520	MPT-G4-GW-48-07	GW		7	X	X	X	X			
	1545	MPT-G4-SU-49-03	S		5	X	X	X	X			
	1635	MPT-G4-GW-49-07	GW		7	X	X	X	X			
		TB071100	W		2	X						

1. RELINQUISHED BY 	DATE 7-11-00	TIME 1900	1. RECEIVED BY 	DATE 7-12-00	TIME 9/10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 2 Coolers ID#: 071100-1 & 071100-2

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

STL North Canton

MP019

HOLDING TIME
08/18/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-34-05	A0G080143001	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-35-05	A0G080143002	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-36-05	A0G080143008	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-37-05	A0G080143003	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-38-04	A0G080143005	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-39-04	A0G080143006	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-40-04	A0G080143007	NORMAL	MP019	CN	07/07/00	07/19/00	07/21/00	12	2	14
UG/L	MPT-G4-GW-41-06	A0G110125001	NORMAL	MP019	CN	07/10/00	07/19/00	07/21/00	9	2	11
UG/L	MPT-G4-GW-42-04	A0G110125002	NORMAL	MP019	CN	07/10/00	07/20/00	07/21/00	10	1	11
UG/L	MPT-G4-GW-43-04	A0G110125003	NORMAL	MP019	CN	07/10/00	07/20/00	07/21/00	10	1	11
UG/L	MPT-G4-GW-44-04	A0G110125004	NORMAL	MP019	CN	07/10/00	07/20/00	07/21/00	10	1	11
UG/L	MPT-G4-GW-45-07	A0G120127001	NORMAL	MP019	CN	07/11/00	07/21/00	07/21/00	10	0	10
UG/L	MPT-G4-GW-46-07	A0G120127002	NORMAL	MP019	CN	07/11/00	07/21/00	07/21/00	10	0	10
UG/L	MPT-G4-GW-47-07	A0G120127003	NORMAL	MP019	CN	07/11/00	07/21/00	07/21/00	10	0	10
UG/L	MPT-G4-GW-48-07	A0G120127004	NORMAL	MP019	CN	07/11/00	07/21/00	07/21/00	10	0	10
UG/L	MPT-G4-GW-49-07	A0G120127005	NORMAL	MP019	CN	07/11/00	07/21/00	07/21/00	10	0	10
UG/L	MPT-G4-GW-34-05	A0G080143001	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-35-05	A0G080143002	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-36-05	A0G080143008	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-37-05	A0G080143003	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-38-04	A0G080143005	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-39-04	A0G080143006	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-40-04	A0G080143007	NORMAL	MP019	HG	07/07/00	07/13/00	07/16/00	6	3	9
UG/L	MPT-G4-GW-41-06	A0G110125001	NORMAL	MP019	HG	07/10/00	07/13/00	07/16/00	3	3	6
UG/L	MPT-G4-GW-42-04	A0G110125002	NORMAL	MP019	HG	07/10/00	07/13/00	07/16/00	3	3	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-43-04	A0G110125003	NORMAL	MP019	HG	07/10/00	07/13/00	07/16/00	3	3	6
UG/L	MPT-G4-GW-44-04	A0G110125004	NORMAL	MP019	HG	07/10/00	07/13/00	07/16/00	3	3	6
UG/L	MPT-G4-GW-45-07	A0G120127001	NORMAL	MP019	HG	07/11/00	07/13/00	07/16/00	2	3	5
UG/L	MPT-G4-GW-46-07	A0G120127002	NORMAL	MP019	HG	07/11/00	07/13/00	07/16/00	2	3	5
UG/L	MPT-G4-GW-47-07	A0G120127003	NORMAL	MP019	HG	07/11/00	07/13/00	07/16/00	2	3	5
UG/L	MPT-G4-GW-48-07	A0G120127004	NORMAL	MP019	HG	07/11/00	07/13/00	07/16/00	2	3	5
UG/L	MPT-G4-GW-49-07	A0G120127005	NORMAL	MP019	HG	07/11/00	07/13/00	07/16/00	2	3	5
UG/L	MPT-G4-GW-34-05	A0G080143001	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-35-05	A0G080143002	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-36-05	A0G080143008	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-37-05	A0G080143003	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-38-04	A0G080143005	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-39-04	A0G080143006	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-40-04	A0G080143007	NORMAL	MP019	M	07/07/00	07/13/00	07/24/00	6	11	17
UG/L	MPT-G4-GW-41-06	A0G110125001	NORMAL	MP019	M	07/10/00	07/13/00	07/24/00	3	11	14
UG/L	MPT-G4-GW-42-04	A0G110125002	NORMAL	MP019	M	07/10/00	07/13/00	07/24/00	3	11	14
UG/L	MPT-G4-GW-43-04	A0G110125003	NORMAL	MP019	M	07/10/00	07/13/00	07/24/00	3	11	14
UG/L	MPT-G4-GW-44-04	A0G110125004	NORMAL	MP019	M	07/10/00	07/13/00	07/24/00	3	11	14
UG/L	MPT-G4-GW-45-07	A0G120127001	NORMAL	MP019	M	07/11/00	07/13/00	07/24/00	2	11	13
UG/L	MPT-G4-GW-46-07	A0G120127002	NORMAL	MP019	M	07/11/00	07/13/00	07/24/00	2	11	13
UG/L	MPT-G4-GW-47-07	A0G120127003	NORMAL	MP019	M	07/11/00	07/13/00	07/24/00	2	11	13
UG/L	MPT-G4-GW-48-07	A0G120127004	NORMAL	MP019	M	07/11/00	07/13/00	07/24/00	2	11	13
UG/L	MPT-G4-GW-49-07	A0G120127005	NORMAL	MP019	M	07/11/00	07/13/00	07/24/00	2	11	13
UG/L	MPT-G4-GW-34-05	A0G080143001	NORMAL	MP019	OS	07/07/00	07/11/00	07/27/00	4	16	20
UG/L	MPT-G4-GW-35-05	A0G080143002	NORMAL	MP019	OS	07/07/00	07/11/00	07/26/00	4	15	19
UG/L	MPT-G4-GW-36-05	A0G080143008	NORMAL	MP019	OS	07/07/00	07/11/00	07/27/00	4	16	20
UG/L	MPT-G4-GW-37-05	A0G080143003	NORMAL	MP019	OS	07/07/00	07/11/00	07/26/00	4	15	19

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-38-04	A0G080143005	NORMAL	MP019	OS	07/07/00	07/11/00	07/26/00	4	15	19
UG/L	MPT-G4-GW-39-04	A0G080143006	NORMAL	MP019	OS	07/07/00	07/11/00	07/27/00	4	16	20
UG/L	MPT-G4-GW-40-04	A0G080143007	NORMAL	MP019	OS	07/07/00	07/11/00	07/27/00	4	16	20
UG/L	MPT-G4-GW-41-06	A0G110125001	NORMAL	MP019	OS	07/10/00	07/12/00	07/21/00	2	9	11
UG/L	MPT-G4-GW-42-04	A0G110125002	NORMAL	MP019	OS	07/10/00	07/12/00	07/21/00	2	9	11
UG/L	MPT-G4-GW-43-04	A0G110125003	NORMAL	MP019	OS	07/10/00	07/12/00	07/21/00	2	9	11
UG/L	MPT-G4-GW-44-04	A0G110125004	NORMAL	MP019	OS	07/10/00	07/12/00	07/21/00	2	9	11
UG/L	MPT-G4-GW-44-04RE	A0G110125004	NORMAL	MP019	OS	07/10/00	07/24/00	07/27/00	14	3	17
UG/L	MPT-G4-GW-45-07	A0G120127001	NORMAL	MP019	OS	07/11/00	07/13/00	07/18/00	2	5	7
UG/L	MPT-G4-GW-46-07	A0G120127002	NORMAL	MP019	OS	07/11/00	07/13/00	07/19/00	2	6	8
UG/L	MPT-G4-GW-47-07	A0G120127003	NORMAL	MP019	OS	07/11/00	07/13/00	07/19/00	2	6	8
UG/L	MPT-G4-GW-48-07	A0G120127004	NORMAL	MP019	OS	07/11/00	07/13/00	07/19/00	2	6	8
UG/L	MPT-G4-GW-49-07	A0G120127005	NORMAL	MP019	OS	07/11/00	07/13/00	07/19/00	2	6	8
UG/L	MPT-G4-GW-34-05	A0G080143001	NORMAL	MP019	OV	07/07/00	07/14/00	07/14/00	7	0	7
UG/L	MPT-G4-GW-35-05	A0G080143002	NORMAL	MP019	OV	07/07/00	07/14/00	07/14/00	7	0	7
UG/L	MPT-G4-GW-36-05	A0G080143008	NORMAL	MP019	OV	07/07/00	07/17/00	07/17/00	10	0	10
UG/L	MPT-G4-GW-37-05	A0G080143003	NORMAL	MP019	OV	07/07/00	07/15/00	07/15/00	8	0	8
UG/L	MPT-G4-GW-38-04	A0G080143005	NORMAL	MP019	OV	07/07/00	07/15/00	07/15/00	8	0	8
UG/L	MPT-G4-GW-39-04	A0G080143006	NORMAL	MP019	OV	07/07/00	07/17/00	07/17/00	10	0	10
UG/L	MPT-G4-GW-40-04	A0G080143007	NORMAL	MP019	OV	07/07/00	07/17/00	07/17/00	10	0	10
UG/L	MPT-G4-GW-41-06	A0G110125001	NORMAL	MP019	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/L	MPT-G4-GW-42-04	A0G110125002	NORMAL	MP019	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/L	MPT-G4-GW-43-04	A0G110125003	NORMAL	MP019	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/L	MPT-G4-GW-44-04	A0G110125004	NORMAL	MP019	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/L	MPT-G4-GW-45-07	A0G120127001	NORMAL	MP019	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/L	MPT-G4-GW-46-07	A0G120127002	NORMAL	MP019	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/L	MPT-G4-GW-47-07	A0G120127003	NORMAL	MP019	OV	07/11/00	07/17/00	07/17/00	6	0	6

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW-48-07	A0G120127004	NORMAL	MP019	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/L	MPT-G4-GW-49-07	A0G120127005	NORMAL	MP019	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/L	TB070700	A0G080143004	TRIP BLANK	MP019	OV	07/07/00	07/17/00	07/17/00	10	0	10
UG/L	TB071000	A0G110125005	TRIP BLANK	MP019	OV	07/10/00	07/18/00	07/18/00	8	0	8
UG/L	TB071100	A0G120127006	TRIP BLANK	MP019	OV	07/11/00	07/18/00	07/18/00	7	0	7

SDG NARRATIVE

MP019

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

The reporting limit is lower than our standard reporting limit (SRL) but is supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support this value. The continuing calibration blanks and method blanks may not support the lower RL.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Benzene, Methylene chloride, and Toluene were detected in the method blank for batch 0199127. These are common laboratory contaminants with concentrations less than five times the reporting limit. All affected sample results are qualified with "B".

Acetone, Methylene chloride, and Toluene were detected in the method blank for batch 0200179. These are common laboratory contaminants with concentrations less than five times the reporting limit. All affected sample results are qualified with "B".

Acetone and Methylene chloride were detected in the method blank for batch 0201165. These are common laboratory contaminants with concentrations less than five times the reporting limit. All affected sample results are qualified with "B".

Acetone and Benzene were detected in the method blank for batch 0200218. These are common laboratory contaminants with concentrations less than five times the reporting limit. All affected sample results are qualified with "B".

SDG NARRATIVE

MP019

GC/MS VOLATILES (continued)

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The initial calibration check for instrument UX7 on July 14, 2000 was outside acceptable limits for 2-Hexanone. This compound has poor purging efficiency; therefore, the initial calibration was accepted.

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019

Lab File ID: BFB082 BFB Injection Date: 06/28/00

Instrument ID: A3UX10 BFB Injection Time: 1110

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.0
75	30.0 - 60.0% of mass 95	39.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	74.7
175	5.0 - 9.0% of mass 174	5.3 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	73.0 (97.8)1
177	5.0 - 9.0% of mass 176	4.9 (6.7)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-A9IC	UXX2015	06/28/00	1423
02	VSTD020	100NG-A9IC	UXX2016	06/28/00	1447
03	VSTD010	50NG-A9IC	UXX2017	06/28/00	1511
04	VSTD005	25NG-A9IC	UXX2018	06/28/00	1534
05	VSTD001	5NG-A9IC	UXX2019	06/28/00	1558
06					
07					
08					
09					
10					
11					
12					
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14					
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17					
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19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 11:29
 End Cal Date : 17-JUL-2000 14:38
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux10.i/P00717A.b/8260LLUX10.m
 Cal Date : 18-Jul-2000 10:16 evansl
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux10.i/P00628A.b/uxx2019.d
 Level 2: /chem/can/msv/a3ux10.i/P00628A.b/uxx2018.d
 Level 3: /chem/can/msv/a3ux10.i/P00628A.b/uxx2017.d
 Level 4: /chem/can/msv/a3ux10.i/P00628A.b/uxx2016.d
 Level 5: /chem/can/msv/a3ux10.i/P00628A.b/uxx2015.d

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.09768	0.10016	0.09294	0.10058	0.08222	0.09472	8.043
9 Chloromethane	0.21288	0.18665	0.17527	0.18470	0.18500	0.18890	7.479
10 Vinyl Chloride	0.18578	0.16273	0.16389	0.16686	0.17027	0.16991	5.499
11 Bromomethane	0.12361	0.09449	0.09057	0.09785	0.10383	0.10207	12.723
12 Chloroethane	0.09456	0.09956	0.09332	0.10098	0.10623	0.09893	5.266
13 Trichlorofluoromethane	0.10064	0.12502	0.14099	0.15956	0.16480	0.13820	18.992
14 Dichlorofluoromethane	0.08379	0.10221	0.10572	0.12516	0.12969	0.10931	16.999
15 Acrolein	0.01451	0.01620	0.01809	0.01951	0.01991	0.01764	12.895
16 Acetone	0.21576	0.09683	0.08982	0.08790	0.09111	0.11628	47.905
17 1,1-Dichloroethene	0.16246	0.15033	0.16315	0.17914	0.18729	0.16848	8.711
18 Freon-113	0.07913	0.08594	0.10608	0.11090	0.08791	0.09399	14.614
19 Iodomethane	0.17611	0.20175	0.24800	0.25204	0.26454	0.22849	16.512
20 Carbon Disulfide	0.43385	0.43417	0.46629	0.48443	0.50675	0.46510	6.836
21 Methylene Chloride	0.19105	0.18591	0.20191	0.21542	0.21337	0.20153	6.503
22 Acetonitrile	0.01038	0.01308	0.01375	0.01791	0.01893	0.01481	23.963
23 Acrylonitrile	0.07556	0.07728	0.08177	0.08542	0.08778	0.08156	6.367
24 Methyl tert-butyl ether	0.52094	0.51041	0.50968	0.53460	0.51520	0.51816	1.974
25 trans-1,2-Dichloroethene	0.29146	0.28140	0.27173	0.28103	0.28268	0.28166	2.486
26 Hexane	0.05339	0.05774	0.06954	0.07283	0.05109	0.06092	15.989
27 Vinyl acetate	0.20895	0.22961	0.25512	0.29066	0.29825	0.25652	14.966
28 1,1-Dichloroethane	0.50529	0.46483	0.47479	0.48118	0.47458	0.48013	3.171
29 tert-Butyl Alcohol	0.00500	0.00633	0.00881	0.01075	0.01046	0.00827	30.641
30 2-Butanone	0.14524	0.11984	0.12285	0.12346	0.12977	0.12823	7.931
M 31 1,2-Dichloroethene (total)	0.30526	0.28624	0.28183	0.29164	0.28779	0.29055	3.078
32 cis-1,2-dichloroethene	0.31906	0.29108	0.29192	0.30225	0.29290	0.29944	3.959
33 2,2-Dichloropropane	0.14891	0.14632	0.15745	0.17083	0.17003	0.15871	7.226

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux10.i/P00717A.b/8260LLUX10.m
 Cal Date : 18-Jul-2000 10:16 evans1
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.14742	0.14030	0.13836	0.14414	0.14317	0.14268	2.459
35 Chloroform	0.46536	0.41105	0.41035	0.42112	0.41667	0.42491	5.421
36 Tetrahydrofuran	0.10556	0.06376	0.06723	0.06523	0.06841	0.07404	23.922
37 1,1,1-Trichloroethane	0.26892	0.27285	0.27445	0.28940	0.27996	0.27712	2.860
38 1,1-Dichloropropene	0.36033	0.32819	0.32087	0.33640	0.34339	0.33784	4.488
39 Carbon Tetrachloride	0.22145	0.21687	0.22013	0.23819	0.24958	0.22924	6.133
40 1,2-Dichloroethane	0.36458	0.32451	0.31941	0.33240	0.32738	0.33366	5.370
41 Benzene	1.33034	1.15349	1.12939	1.16849	1.16378	1.18910	6.760
42 Trichloroethane	0.34363	0.30969	0.30081	0.30961	0.31383	0.31551	5.204
43 1,2-Dichloropropene	0.30726	0.28578	0.28514	0.29405	0.28974	0.29239	3.092
44 1,4-Dioxane	0.00086	0.00106	0.00115	0.00129	0.00129	0.00113	15.923
45 Dibromomethane	0.15538	0.14265	0.14335	0.14720	0.14477	0.14667	3.524
46 Bromodichloromethane	0.33240	0.28589	0.29274	0.31147	0.30482	0.30546	5.918
47 2-Chloroethyl vinyl ether	0.15733	0.15476	0.15656	0.16149	0.16350	0.15873	2.288
48 cis-1,3-Dichloropropene	0.37911	0.37989	0.38432	0.40425	0.40871	0.39126	3.611
49 4-Methyl-2-pentanone	0.18742	0.20754	0.21213	0.21884	0.22052	0.20929	6.351
50 Toluene	1.72002	1.56611	1.54204	1.60139	1.62336	1.61058	4.268
51 trans-1,3-Dichloropropene	0.35618	0.36230	0.38197	0.41456	0.42750	0.38850	8.113
52 Ethyl Methacrylate	0.28648	0.32463	0.35647	0.38420	0.39552	0.34946	12.766
53 1,1,2-Trichloroethane	0.30813	0.28351	0.28337	0.29031	0.28354	0.28977	3.686
54 1,3-Dichloropropene	0.54471	0.51561	0.50857	0.52572	0.52376	0.52368	2.597
55 Tetrachloroethane	0.34815	0.30667	0.28868	0.30196	0.31822	0.31273	7.178
56 2-Hexanone	0.15069	0.16836	0.17663	0.18557	0.19043	0.17434	9.004
57 Dibromochloromethane	0.25723	0.26244	0.27184	0.29482	0.30123	0.27751	7.054
58 1,2-Dibromoethane	0.29328	0.27620	0.27748	0.28812	0.28027	0.28307	2.596
59 Chlorobenzene	1.06909	1.01156	0.99505	1.00590	1.01357	1.01903	2.835
60 1,1,1,2-Tetrachloroethane	0.29016	0.27897	0.29596	0.31337	0.32277	0.30025	5.894
61 Ethylbenzene	0.60315	0.55717	0.54007	0.55286	0.56763	0.56418	4.240
62 m + p-Xylene	0.72497	0.67475	0.64721	0.67535	0.70481	0.68542	4.386
63 Xylenes (total)	0.71850	0.66402	0.64342	0.66326	0.68639	0.67512	4.240
64 Xylene-o	0.70558	0.64258	0.63583	0.63908	0.64954	0.65452	4.429
65 Styrene	1.09678	1.05977	1.05886	1.09434	1.10449	1.08285	2.014
66 Bromoform	0.11554	0.12949	0.14353	0.16278	0.16861	0.14399	15.447

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 11:29
 End Cal Date : 17-JUL-2000 14:38
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux10.i/P00717A.b/8260LLUX10.m
 Cal Date : 18-Jul-2000 10:16 evans1
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
67 Isopropylbenzene	1.63757	1.56517	1.48930	1.54599	1.57446	1.56250	3.419
68 1,1,2,2-Tetrachloroethane	0.77117	0.72812	0.74384	0.79296	0.82389	0.77199	4.954
69 1,4-Dichloro-2-butene	0.11259	0.15066	0.17435	0.19740	0.22759	0.17252	25.473
70 1,2,3-Trichloropropane	0.26806	0.24877	0.25458	0.26082	0.27433	0.26131	3.911
71 Bromobenzene	1.10367	1.04542	1.05535	1.09968	1.18572	1.09797	5.053
72 n-Propylbenzene	1.29581	1.17473	1.15288	1.19357	1.32978	1.22935	6.381
73 2-Chlorotoluene	1.14987	1.01735	0.97658	1.01118	1.09148	1.04929	6.681
74 1,3,5-Trimethylbenzene	3.16801	2.96422	2.89673	3.03302	3.15122	3.04264	3.855
75 4-Chlorotoluene	1.07888	0.98504	1.00862	1.04155	1.09980	1.04278	4.563
76 tert-Butylbenzene	2.92847	2.76236	2.54114	2.68409	2.83042	2.74929	5.347
77 1,2,4-Trimethylbenzene	3.05044	2.84708	2.79083	2.83591	2.88723	2.88230	3.472
78 sec-Butylbenzene	3.71557	3.48587	3.36036	3.49233	3.59916	3.53066	3.783
79 4-Isopropyltoluene	2.74974	2.70039	2.57939	2.66872	2.76875	2.69340	2.785
80 1,3-Dichlorobenzene	1.69841	1.52461	1.48832	1.55047	1.60573	1.57351	5.204
81 1,4-Dichlorobenzene	1.79501	1.54985	1.53324	1.52985	1.57708	1.59701	7.029
82 n-Butylbenzene	2.10973	2.03388	1.92613	2.03623	2.25447	2.07209	5.848
83 1,2-Dichlorobenzene	1.41792	1.27024	1.23831	1.28686	1.34935	1.31254	5.444
84 1,2-Dibromo-3-chloropropane	0.07993	0.07485	0.08567	0.09529	0.11129	0.08941	16.106
85 1,2,4-Trichlorobenzene	0.88345	0.81914	0.81889	0.81974	0.94818	0.85788	6.717
86 Hexachlorobutadiene	0.34177	0.32037	0.28580	0.30222	0.35427	0.32088	8.718
87 Naphthalene	1.79553	1.79890	1.81524	1.91504	2.10271	1.88548	6.945
88 1,2,3-Trichlorobenzene	0.74230	0.76190	0.73486	0.77327	0.82476	0.76742	4.627
89 Ethyl Ether	0.23166	0.23582	0.22556	0.23111	0.21991	0.22881	2.697
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.13906	0.14902	0.14333	0.14794	0.14438	0.14475	2.740
92 Isopropyl Ether	0.24148	0.25860	0.24666	0.25251	0.24557	0.24896	2.682
93 2-Chloro-1,3-butadiene	0.38378	0.41316	0.38844	0.39968	0.38376	0.39377	3.210
94 Propionitrile	0.03154	0.03262	0.03231	0.03423	0.03299	0.03274	3.019
95 Ethyl Acetate	0.20593	0.20774	0.19722	0.21537	0.20897	0.20705	3.160
96 Methacrylonitrile	0.14199	0.15857	0.14709	0.15625	0.15084	0.15095	4.462
97 Isobutanol	0.00935	0.00954	0.00891	0.01027	0.01002	0.00962	5.621 <-
98 Cyclohexane	0.26771	0.30162	0.33958	0.34517	0.29242	0.30930	10.572
99 n-Butanol	0.00580	0.00705	0.00705	0.00844	0.00816	0.00730	14.404 <-

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 11:29
 End Cal Date : 17-JUL-2000 14:38
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux10.i/P00717A.b/8260LLUX10.m
 Cal Date : 18-Jul-2000 10:16 evans1
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
100 Methyl Methacrylate	0.19417	0.20766	0.19244	0.21538	0.20333	0.20260	4.706
101 2-Nitropropane	0.04173	0.04416	0.04453	0.04904	0.04788	0.04547	6.519
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Cyclohexanone	0.02192	0.02339	0.02140	0.02215	0.02141	0.02205	3.685
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 Crotononitrile (1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Crotononitrile (2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 Formaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 3,3,5-Trimethylcyclohexanone	0.21219	0.20863	0.20281	0.22731	0.22607	0.21540	5.034
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,3,5-Trichlorobenzene	0.92243	0.86387	0.86533	0.86924	1.05486	0.91515	8.943
143 Methyl Acetate	0.24291	0.22559	0.22479	0.22642	0.23296	0.23053	3.314
144 Methylcyclohexane	0.34776	0.36200	0.41275	0.42460	0.33493	0.37641	10.620
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++

\$ 4 Dibromofluoromethane	0.23593	0.22914	0.22943	0.23653	0.22839	0.23188	1.722
\$ 5 1,2-Dichloroethane-d4	0.26367	0.24596	0.24953	0.24280	0.25171	0.25073	3.187
\$ 6 Toluene-d8	1.32877	1.24988	1.24055	1.25254	1.28227	1.27080	2.831
\$ 7 Bromofluorobenzene	0.37810	0.39024	0.39001	0.38819	0.37261	0.38383	2.089

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019

Lab File ID: BFB091 BFB Injection Date: 07/17/00

Instrument ID: A3UX10 BFB Injection Time: 1248

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	44.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	95.4
175	5.0 - 9.0% of mass 174	7.7 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.3 (95.7)1
177	5.0 - 9.0% of mass 176	6.1 (6.7)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-IC	UXX2252	07/17/00	1303
02	VSTD020	100NG-IC	UXX2253	07/17/00	1327
03	VSTD010	50NG-IC	UXX2254	07/17/00	1350
04	VSTD005	25NG-IC	UXX2255	07/17/00	1414
05	VSTD001	5NG-IC	UXX2256	07/17/00	1438
06	DGD8J-CHK	DGD8J102	UXX2257	07/17/00	1502
07	VSTD010	50NG-A9CC	UXX2258	07/17/00	1548
08	DGD8J-BLK	DGD8J101	UXX2259	07/17/00	1613
09	MPT-G4-GW-49	DG2QH10V	UXX2260	07/17/00	1636
10	MPT-G4-GW-49	DG2QH10W	UXX2263	07/17/00	1747
11	MPT-G4-GW-49	DG2QH10X	UXX2264	07/17/00	1811
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux10.i Injection Date: 17-JUL-2000 15:48
 Lab File ID: uxx2258.d Init. Cal. Date(s): 28-JUN-2000 17-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 11:29 14:38
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux10.i/P00717A.b/8260LLUX10.m

COMPOUND	RRF / AMOUNT	RP50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.10931	0.12379	0.010	-13.2	50.0	Averaged	
89 Ethyl Ether	0.22881	0.22460	0.010	1.8	50.0	Averaged	
91 3-Chloropropene	0.14475	0.12583	0.010	13.1	50.0	Averaged	
92 Isopropyl Ether	0.24896	0.23011	0.010	7.6	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.39377	0.38938	0.010	1.1	50.0	Averaged	
94 Propionitrile	0.03274	0.02178	0.010	33.5	50.0	Averaged	
95 Ethyl Acetate	0.20705	0.19209	0.010	7.2	50.0	Averaged	
96 Methacrylonitrile	0.15095	0.13418	0.010	11.1	50.0	Averaged	
97 Isobutanol	0.00962	0.00274	0.010	71.5	50.0	Averaged	<-
99 n-Butanol	0.00730	0.00148	0.010	79.7	50.0	Averaged	<-
100 Methyl Methacrylate	0.20260	0.17524	0.010	13.5	50.0	Averaged	
101 2-Nitropropane	0.04547	0.02468	0.010	45.7	50.0	Averaged	
103 Cyclohexanone	0.02205	0.01702	0.010	22.8	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019

Lab File ID: BFB550 BFB Injection Date: 07/14/00

Instrument ID: A3UX7 BFB Injection Time: 0730

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.2 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.6 (95.2)1
177	5.0 - 9.0% of mass 176	4.3 (6.3)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-IC	UX74381	07/14/00	0745
02	VSTD010	50NG-A9IC	UX74382	07/14/00	0812
03	VSTD040	200NG-IC	UX74384	07/14/00	0912
04	VSTD020	100NG-IC	UX74385	07/14/00	0939
05	VSTD005	25NG-IC	UX74386	07/14/00	1005
06	VSTD001	5NG-IC	UX74387	07/14/00	1032
07	VSTD040	200NG-A9IC	UX74388	07/14/00	1058
08	VSTD020	100NG-A9IC	UX74389	07/14/00	1125
09	VSTD005	25NG-A9IC	UX74390	07/14/00	1151
10	VSTD001	5NG-A9IC	UX74391	07/14/00	1218
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evansl
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux7.i/U00714A.b/ux74391.d
 Level 2: /chem/can/msv/a3ux7.i/U00714A.b/ux74390.d
 Level 3: /chem/can/msv/a3ux7.i/U00714A.b/ux74382.d
 Level 4: /chem/can/msv/a3ux7.i/U00714A.b/ux74389.d
 Level 5: /chem/can/msv/a3ux7.i/U00714A.b/ux74388.d

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.38122	0.36678	0.37412	0.35287	0.32330	0.35966	6.359
9 Chloromethane	0.42884	0.42170	0.39944	0.38653	0.38997	0.40530	4.690
10 Vinyl Chloride	0.30766	0.32636	0.23542	0.30595	0.26653	0.28838	12.748
11 Bromomethane	0.18317	0.15918	0.13433	0.13919	0.13873	0.15092	13.537
12 Chloroethane	0.16231	0.15662	0.16015	0.14311	0.14832	0.15410	5.277
13 Trichlorofluoromethane	0.34094	0.36060	0.39327	0.36347	0.36251	0.36416	5.141
14 Dichlorofluoromethane	0.16943	0.20595	0.24178	0.24846	0.26281	0.22562	16.740
15 Acrolein	0.01182	0.01215	0.01255	0.01257	0.01369	0.01256	5.609
16 Acetone	0.29964	0.16001	0.17490	0.12592	0.11853	0.17580	41.561
17 1,1-Dichloroethene	0.29061	0.26092	0.27659	0.26274	0.27524	0.27322	4.403
18 Freon-113	0.29785	0.29530	0.28477	0.28471	0.27254	0.28703	3.509
19 Iodomethane	0.64295	0.63836	0.55767	0.62731	0.58243	0.60974	6.185
20 Carbon Disulfide	1.07719	0.98121	1.03219	0.96245	0.95892	1.00239	5.091
21 Methylene Chloride	0.37825	0.30640	0.30754	0.29761	0.29258	0.31647	11.087
22 Acetonitrile	0.03387	0.03118	0.02728	0.02937	0.02845	0.03003	8.577
23 Acrylonitrile	0.09923	0.10258	0.09289	0.09802	0.09371	0.09729	4.125
24 Methyl tert-butyl ether	0.77800	0.75826	0.69403	0.74738	0.70747	0.73703	4.777
25 trans-1,2-Dichloroethene	0.34282	0.32346	0.32938	0.31955	0.31678	0.32640	3.164
26 Hexane	0.05738	0.05810	0.05774	0.05632	0.05521	0.05695	2.067
27 Vinyl acetate	0.29976	0.34592	0.30005	0.36148	0.34984	0.33141	8.848
28 1,1-Dichloroethane	0.69757	0.63542	0.65048	0.62790	0.63047	0.64837	4.451
29 tert-Butyl Alcohol	0.02087	0.01925	0.01583	0.01916	0.01755	0.01853	10.325
30 2-Butanone	0.21818	0.18077	0.15658	0.15919	0.14839	0.17262	16.301
M 31 1,2-Dichloroethene (total)	0.35707	0.32952	0.32586	0.32391	0.31929	0.33133	4.491
32 cis-1,2-dichloroethene	0.37132	0.33557	0.32434	0.32827	0.32180	0.33626	6.030
33 2,2-Dichloropropane	0.37230	0.35284	0.30187	0.35630	0.33747	0.34416	7.753

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evans1
 Curve Type : Average

Compound	3.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
34 Bromochloromethane	0.17732	0.16783	0.16307	0.16393	0.15953	0.16634	4.096
35 Chloroform	0.67155	0.61076	0.61705	0.58836	0.58968	0.61548	5.492
36 Tetrahydrofuran	0.10522	0.08092	0.07059	0.07567	0.06964	0.08041	18.137
37 1,1,1-Trichloroethane	0.59426	0.53787	0.52637	0.54985	0.52788	0.54725	5.100
38 1,1-Dichloropropene	0.44273	0.42105	0.43200	0.42354	0.41513	0.42689	2.513
39 Carbon Tetrachloride	0.49547	0.47493	0.48255	0.48568	0.49436	0.48660	1.757
40 1,2-Dichloroethane	0.67203	0.61071	0.60634	0.58020	0.57590	0.60904	6.310
41 Benzene	1.29580	1.18756	1.17957	1.14451	1.11440	1.18437	5.809
42 Trichloroethene	0.35267	0.34274	0.33523	0.33522	0.32991	0.33915	2.604
43 1,2-Dichloropropane	0.35661	0.33244	0.33162	0.31908	0.31219	0.33039	5.137
44 1,4-Dioxane	0.00154	0.00146	0.00164	0.00150	0.00155	0.00154	4.457<-
45 Dibromomethane	0.21915	0.19530	0.20095	0.19547	0.19154	0.20048	5.467
46 Bromodichloromethane	0.49480	0.44465	0.46920	0.44603	0.45080	0.46110	4.607
47 2-Chloroethyl vinyl ether	0.11819	0.13322	0.12086	0.14000	0.13751	0.12996	7.595
48 cis-1,3-Dichloropropene	0.45987	0.46628	0.45864	0.47669	0.48013	0.46832	2.078
49 4-Methyl-2-pentanone	0.28095	0.27291	0.25161	0.27298	0.26513	0.26872	4.122
50 Toluene	1.79460	1.67715	1.67223	1.64934	1.61284	1.68123	4.061
51 trans-1,3-Dichloropropene	0.51869	0.52435	0.52969	0.56038	0.56385	0.53939	3.919
52 Ethyl Methacrylate	0.33444	0.38443	0.36664	0.41888	0.40952	0.38278	8.877
53 1,1,2-Trichloroethane	0.36295	0.33186	0.31520	0.32335	0.31024	0.32872	6.335
54 1,3-Dichloropropane	0.60370	0.58118	0.56183	0.55856	0.52738	0.56653	5.004
55 Tetrachloroethene	0.35586	0.33535	0.33021	0.32745	0.31505	0.33278	4.478
56 2-Hexanone	0.26373	0.26453	0.21698	0.25815	0.25026	0.25073	7.861
57 Dibromochloromethane	0.41692	0.39810	0.40500	0.41741	0.41410	0.41031	2.060
58 1,2-Dibromoethane	0.36210	0.32577	0.32216	0.33207	0.31778	0.33197	5.312
59 Chlorobenzene	1.29045	1.15511	1.15964	1.14314	1.11637	1.17294	5.781
60 1,1,1,2-Tetrachloroethane	0.44486	0.42395	0.43708	0.43490	0.43615	0.43539	1.719
61 Ethylbenzene	0.60394	0.56474	0.55959	0.55418	0.53720	0.56393	4.371
62 m + p-Xylene	0.72423	0.69306	0.67580	0.66364	0.64382	0.68011	4.485
M 63 Xylenes (total)	0.70570	0.68014	0.66622	0.65834	0.63976	0.67003	3.688
64 Xylene-o	0.66865	0.65428	0.64707	0.64774	0.63163	0.64987	2.060
65 Styrene	1.14440	1.11323	1.12332	1.11989	1.08619	1.11741	1.878
66 Bromoform	0.20444	0.21207	0.21239	0.22592	0.23143	0.21725	5.099

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evansl
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
67 Isopropylbenzene	3.02540	2.97388	2.89552	2.94317	2.79772	2.92713	2.951
68 1,1,2,2-Tetrachloroethane	0.74304	0.62668	0.59917	0.59552	0.55171	0.62323	11.579
69 1,4-Dichloro-2-butene	0.21003	0.22277	0.21334	0.23027	0.22589	0.22046	3.866
70 1,2,3-Trichloropropane	0.28336	0.23554	0.20843	0.21313	0.19251	0.22660	15.563
71 Bromobenzene	0.98699	0.92226	0.86082	0.86377	0.82007	0.89078	7.291
72 n-Propylbenzene	0.90699	0.89280	0.85076	0.84896	0.80676	0.86125	4.615
73 2-Chlorotoluene	0.82588	0.81860	0.75656	0.77128	0.73470	0.78140	5.064
74 1,3,5-Trimethylbenzene	2.66993	2.58736	2.48029	2.49741	2.40455	2.52791	4.059
75 4-Chlorotoluene	0.94734	0.85303	0.81600	0.82272	0.78357	0.84453	7.406
76 tert-Butylbenzene	2.18100	2.16662	2.40197	2.12042	2.03709	2.18142	6.210
77 1,2,4-Trimethylbenzene	2.82976	2.76904	2.62258	2.61388	2.51957	2.67097	4.712
78 sec-Butylbenzene	2.94128	2.81168	2.70114	2.70580	2.61412	2.75480	4.559
79 4-Isopropyltoluene	2.62986	2.60020	2.44138	2.50882	2.37785	2.51162	4.207
80 1,3-Dichlorobenzene	1.93862	1.72709	1.60500	1.61141	1.52237	1.68090	9.605
81 1,4-Dichlorobenzene	2.15934	1.79150	1.67117	1.68368	1.63489	1.78812	12.056
82 n-Butylbenzene	2.63426	2.42571	2.24891	2.30375	2.18933	2.36039	7.464
83 1,3-Dichlorobenzene	1.96858	1.72127	1.53872	1.57463	1.50403	1.66145	11.471
84 1,2-Dibromo-3-chloropropane	0.14446	0.13790	0.11406	0.13271	0.12224	0.13027	9.346
85 1,2,4-Trichlorobenzene	1.07266	0.83412	0.59074	0.69710	0.58545	0.75601	26.966
86 Hexachlorobutadiene	0.69353	0.42415	0.29339	0.33056	0.28286	0.40490	42.155
87 Naphthalene	2.41284	1.99056	1.16306	1.58536	1.19219	1.66880	32.088
88 1,2,3-Trichlorobenzene	1.01644	0.68819	0.39865	0.52272	0.40211	0.60562	42.637
89 Ethyl Ether	0.20937	0.22098	0.20727	0.20798	0.20207	0.20953	3.326
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
91 3-Chloropropene	0.15628	0.13838	0.15430	0.15463	0.14841	0.15040	4.887
92 Isopropyl Ether	0.22152	0.24263	0.22751	0.23134	0.21656	0.22791	4.379
93 2-Chloro-1,3-butadiene	0.61922	0.69068	0.66891	0.67810	0.67188	0.66576	4.105
94 Propionitrile	0.04106	0.03585	0.03481	0.03882	0.03559	0.03723	7.065
95 Ethyl Acetate	0.26195	0.27224	0.24662	0.26329	0.26845	0.26251	3.730
96 Methacrylonitrile	0.19176	0.19688	0.17343	0.18946	0.18619	0.18754	4.692
97 Isobutanol	0.00904	0.00916	0.00712	0.00909	0.00920	0.00872	10.317 <-
98 Cyclohexane	0.52634	0.54503	0.52250	0.54121	0.52520	0.53206	1.933
99 n-Butanol	0.00400	0.00454	0.00368	0.00504	0.00551	0.00455	16.374 <-

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2000 08:39
 End Cal Date : 14-JUL-2000 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/msv/a3ux7.i/U00714A.b/N8260UX7-3.m
 Cal Date : 14-Jul-2000 13:15 evansl
 Curve Type : Average

Compound	5.000 Level 1	25.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
100 Methyl Methacrylate	0.28553	0.32880	0.30783	0.36214	0.36098	0.32906	10.147
101 2-Nitropropane	0.07887	0.08204	0.08013	0.09076	0.09440	0.08524	8.114
102 Chloropicrin	++++	++++	++++	++++	++++	++++	++++ <-
103 Cyclohexanone	0.03147	0.03815	0.03099	0.03769	0.03920	0.03550	11.093
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++ <-
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++ <-
134 Thiophene	++++	++++	++++	++++	++++	++++	++++ <-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	++++ <-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	++++ <-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	++++ <-
138 Paraldehyde	++++	++++	++++	++++	++++	++++	++++ <-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	++++ <-
140 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++ <-
141 1,3,5-Trichlorobenzene	1.26834	1.06472	0.84043	0.92506	0.87076	0.99386	17.700
143 Methyl Acetate	0.35830	0.32603	0.27612	0.30203	0.28816	0.31013	10.545
144 Methylcyclohexane	0.36047	0.38851	0.37223	0.37896	0.36637	0.37329	2.926
\$ 4 Dibromofluoromethane	0.36325	0.33020	0.28029	0.33347	0.33277	0.32800	9.116
\$ 5 1,2-Dichloroethane-d4	0.46370	0.44446	0.38206	0.41700	0.44107	0.42966	7.299
\$ 6 Toluene-d8	1.32129	1.30183	1.09698	1.33270	1.30046	1.27065	7.715
\$ 7 Bromofluorobenzene	1.17834	1.04374	0.86596	0.99482	0.97950	1.01247	11.191

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019

Lab File ID: BFB551 BFB Injection Date: 07/14/00

Instrument ID: A3UX7 BFB Injection Time: 1312

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.8
175	5.0 - 9.0% of mass 174	6.0 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.8 (97.7)1
177	5.0 - 9.0% of mass 176	5.4 (6.2)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74392	07/14/00	1333
02	VSTD010	50NG-A9CC	UX74393	07/14/00	1400
03	DGPAR-CHK	DGAPR102	UX74394	07/14/00	1426
04	DGPAR-BLK	DGAPR101	UX74395	07/14/00	1453
05	MPT-G4-GW-34	DFWD110V	UX74414	07/14/00	2316
06	MPT-G4-GW-35	DFWD410V	UX74415	07/14/00	2343
07	MPT-G4-GW-37	DFWD510V	UX74416	07/15/00	0009
08	MPT-G4-GW-38	DFWD810V	UX74418	07/15/00	0102
09					
10					
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13					
14					
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17					
18					
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 13:33
 Lab File ID: ux74392.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
41 Benzene	1.18437	1.19252	0.010	-0.7	50.0	Averaged	
42 Trichloroethene	0.33915	0.33890	0.010	0.1	50.0	Averaged	
43 1,2-Dichloropropane	0.33039	0.34090	0.010	-3.2	20.0	Averaged	
44 1,4-Dioxane	0.00154	0.00231	0.010	-50.1	50.0	Averaged	
45 Dibromomethane	0.20048	0.21203	0.010	-5.8	50.0	Averaged	
46 Bromodichloromethane	0.46110	0.46814	0.010	-1.5	50.0	Averaged	
47 2-Chloroethyl vinyl ether	0.12996	0.15577	0.010	-19.9	50.0	Averaged	
48 cis-1,3-Dichloropropene	0.46832	0.48311	0.010	-3.2	50.0	Averaged	
49 4-Methyl-2-pentanone	0.26872	0.31361	0.010	-16.7	50.0	Averaged	
50 Toluene	1.68123	1.68526	0.010	-0.2	20.0	Averaged	
51 trans-1,3-Dichloropropene	0.53939	0.56059	0.010	-3.9	50.0	Averaged	
52 Ethyl Methacrylate	0.38278	0.43615	0.010	-13.9	50.0	Averaged	
53 1,1,2-Trichloroethane	0.32872	0.35017	0.010	-6.5	50.0	Averaged	
54 1,3-Dichloropropane	0.56653	0.59818	0.010	-5.6	50.0	Averaged	
55 Tetrachloroethene	0.33278	0.33568	0.010	-0.9	50.0	Averaged	
56 2-Hexanone	0.25073	0.29881	0.010	-19.2	50.0	Averaged	
57 Dibromochloromethane	0.41031	0.43316	0.010	-5.6	50.0	Averaged	
58 1,2-Dibromoethane	0.33197	0.36096	0.010	-8.7	50.0	Averaged	
59 Chlorobenzene	1.17294	1.16953	0.300	0.3	50.0	Averaged	
60 1,1,1,2-Tetrachloroethane	0.43539	0.44594	0.010	-2.4	50.0	Averaged	
61 Ethylbenzene	0.56393	0.57035	0.010	-1.1	20.0	Averaged	
62 m + p-Xylene	0.68011	0.68095	0.010	-0.1	50.0	Averaged	
M 63 Xylenes (total)	0.67003	0.67870	0.010	-1.3	50.0	Averaged	
64 Xylene-o	0.64987	0.67419	0.010	-3.7	50.0	Averaged	
65 Styrene	1.11741	1.15288	0.010	-3.2	50.0	Averaged	
66 Bromoform	0.21725	0.24048	0.100	-10.7	50.0	Averaged	
67 Isopropylbenzene	2.92713	2.88188	0.010	1.5	50.0	Averaged	
68 1,1,2,2-Tetrachloroethane	0.62323	0.67516	0.300	-8.3	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.22046	0.24971	0.010	-13.3	50.0	Averaged	
70 1,2,3-Trichloropropane	0.22660	0.25143	0.010	-11.0	50.0	Averaged	
71 Bromobenzene	0.89078	0.87437	0.010	1.8	50.0	Averaged	
72 n-Propylbenzene	0.86125	0.84731	0.010	1.6	50.0	Averaged	
73 2-Chlorotoluene	0.78140	0.77619	0.010	0.7	50.0	Averaged	
74 1,3,5-Trimethylbenzene	2.52791	2.51404	0.010	0.5	50.0	Averaged	
75 4-Chlorotoluene	0.84453	0.81279	0.010	3.8	50.0	Averaged	
76 tert-Butylbenzene	2.18142	2.42431	0.010	-11.1	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 13:33
 Lab File ID: ux74392.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.32800	0.29855	0.010	9.0	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.42966	0.38554	0.010	10.3	50.0	Averaged	
\$ 6 Toluene-d8	1.27065	1.15538	0.010	9.1	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.01247	0.87171	0.010	13.9	50.0	Averaged	
8 Dichlorodifluoromethane	0.35966	0.35791	0.010	0.5	50.0	Averaged	
9 Chloromethane	0.40530	0.40075	0.100	1.1	50.0	Averaged	
10 Vinyl Chloride	0.28838	0.28670	0.010	0.6	20.0	Averaged	
11 Bromomethane	0.15092	0.15273	0.010	-1.2	50.0	Averaged	
12 Chloroethane	0.15410	0.15172	0.010	1.5	50.0	Averaged	
13 Trichlorofluoromethane	0.36415	0.35858	0.010	1.5	50.0	Averaged	
15 Acrolein	0.01256	0.02365	0.010	-88.3	50.0	Averaged <-	
16 Acetone	0.17580	0.17614	0.010	-0.2	50.0	Averaged	
17 1,1-Dichloroethene	0.27322	0.30285	0.010	-10.8	20.0	Averaged	
18 Freon-113	0.28703	0.31711	0.010	-10.9	50.0	Averaged	
19 Iodomethane	0.60974	0.60704	0.010	0.4	50.0	Averaged	
20 Carbon Disulfide	1.00239	1.02109	0.010	-1.9	50.0	Averaged	
21 Methylene Chloride	0.31647	0.31647	0.010	0.0	50.0	Averaged	
22 Acetonitrile	0.03003	0.03434	0.010	-14.4	50.0	Averaged	
23 Acrylonitrile	0.09729	0.11636	0.010	-19.6	50.0	Averaged	
24 Methyl tert-butyl ether	0.73703	0.80750	0.010	-9.6	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.32640	0.33511	0.010	-2.7	50.0	Averaged	
26 Hexane	0.05695	0.05732	0.010	-0.7	50.0	Averaged	
27 Vinyl acetate	0.33140	0.51644	0.010	-55.8	50.0	Averaged <-	
28 1,1-Dichloroethane	0.64837	0.65567	0.100	-1.1	50.0	Averaged	
29 tert-Butyl Alcohol	0.01853	0.02161	0.010	-16.6	50.0	Averaged	
30 2-Butanone	0.17262	0.19918	0.010	-15.4	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.33133	0.33622	0.010	-1.5	50.0	Averaged	
32 cis-1,2-dichloroethene	0.33625	0.33734	0.010	-0.3	50.0	Averaged	
33 2,2-Dichloropropane	0.34416	0.35517	0.010	-3.2	50.0	Averaged	
34 Bromochloromethane	0.16634	0.17126	0.010	-3.0	50.0	Averaged	
35 Chloroform	0.61546	0.61992	0.010	-0.7	20.0	Averaged	
36 Tetrahydrofuran	0.08041	0.08740	0.010	-8.7	50.0	Averaged	
37 1,1,1-Trichloroethane	0.54725	0.56623	0.010	-3.5	50.0	Averaged	
38 1,1-Dichloropropene	0.42685	0.44172	0.010	-3.5	50.0	Averaged	
39 Carbon Tetrachloride	0.48660	0.51023	0.010	-4.9	50.0	Averaged	
40 1,2-Dichloroethane	0.60904	0.63375	0.010	-4.1	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 13:33
 Lab File ID: ux74392.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: SONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	RF50		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF	%D / %DRIPT	%D / %DRIPT		
77 1,2,4-Trimethylbenzene	2.67097	2.65977	0.010	0.4	50.0	Averaged	
78 sec-Butylbenzene	2.75480	2.79252	0.010	-1.4	50.0	Averaged	
79 4-Isopropyltoluene	2.51162	2.54372	0.010	-1.3	50.0	Averaged	
80 1,3-Dichlorobenzene	1.68090	1.65745	0.010	1.4	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78812	1.72149	0.010	3.7	50.0	Averaged	
82 n-Butylbenzene	2.36039	2.38102	0.010	-0.9	50.0	Averaged	
83 1,2-Dichlorobenzene	1.66145	1.61017	0.010	3.1	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.13027	0.15662	0.010	-20.2	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.75601	0.76324	0.010	-1.0	50.0	Averaged	
86 Hexachlorobutadiene	0.40490	0.33296	0.010	17.8	50.0	Averaged	
87 Naphthalene	1.66880	1.86708	0.010	-11.9	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.60562	0.57084	0.010	5.7	50.0	Averaged	
98 Cyclohexane	0.53206	0.55115	0.010	-3.6	50.0	Averaged	
143 Methyl Acetate	0.31013	0.30359	0.010	2.1	50.0	Averaged	
144 Methylcyclohexane	0.37329	0.39855	0.010	-6.8	50.0	Averaged	
141 1,3,5-Trichlorobenzene	0.99386	0.92566	0.010	6.9	50.0	Averaged	

Isobutyl alcohol | 0.00872

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 14-JUL-2000 14:00
 Lab File ID: ux74393.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 5ONG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m

COMPOUND	---		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.22569	0.23798	0.010	-5.4	50.0	Averaged	
89 Ethyl Ether	0.20953	0.21133	0.010	-0.9	50.0	Averaged	
91 3-Chloropropene	0.15040	0.14667	0.010	2.5	50.0	Averaged	
92 Isopropyl Ether	0.22791	0.22909	0.010	-0.5	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.66576	0.64858	0.010	2.6	50.0	Averaged	
94 Propionitrile	0.03723	0.03661	0.010	1.7	50.0	Averaged	
95 Ethyl Acetate	0.26251	0.26680	0.010	-1.6	50.0	Averaged	
96 Methacrylonitrile	0.18754	0.18761	0.010	0.0	50.0	Averaged	
97 Isobutanol	0.00872	0.00892	0.010	-2.3	50.0	Averaged <-	
99 n-Butanol	0.00455	0.00474	0.010	-4.0	50.0	Averaged <-	
100 Methyl Methacrylate	0.32906	0.34298	0.010	-4.2	50.0	Averaged	
101 2-Nitropropane	0.08524	0.08648	0.010	-1.5	50.0	Averaged	
103 Cyclohexanone	0.03550	0.04037	0.010	-13.7	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019
 Lab File ID: BFB552 BFB Injection Date: 07/17/00
 Instrument ID: A3UX7 BFB Injection Time: 0830
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.4
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	71.8
175	5.0 - 9.0% of mass 174	4.9 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	69.1 (96.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74419	07/17/00	0845
02	VSTD010	50NG-A9CC	UX74420	07/17/00	0911
03	DGD64-CHK	DGD64102	UX74421	07/17/00	0937
04	DGD64-BLK	DGD64101	UX74422	07/17/00	1004
05	TB070700	DFWD6101	UX74426	07/17/00	1150
06	MPT-G4-GW-39	DFWD910V	UX74427	07/17/00	1216
07	MPT-G4-GW-40	DFWDA10V	UX74428	07/17/00	1243
08	MPT-G4-GW-36	DFWDC10V	UX74429	07/17/00	1310
09	MPT-G4-GW-41	DG0TK10V	UX74435	07/17/00	1550
10	MPT-G4-GW-42	DG0TV10V	UX74436	07/17/00	1617
11	MPT-G4-GW-43	DG0TX10V	UX74437	07/17/00	1643
12	MPT-G4-GW-44	DG0V010V	UX74438	07/17/00	1710
13	MPT-G4-GW-45	DG2M412L	UX74440	07/17/00	1804
14	MPT-G4-GW-45	DG2M412M	UX74441	07/17/00	1831
15	MPT-G4-GW-45	DG2M412N	UX74442	07/17/00	1858
16	MPT-G4-GW-46	DG2PN10V	UX74443	07/17/00	1924
17	MPT-G4-GW-47	DG2Q910V	UX74444	07/17/00	1951
18	MPT-G4-GW-48	DG2QE10V	UX74445	07/17/00	2018
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 08:45
 Lab File ID: ux74419.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT		RF50	MIN		MAX		CURVE TYPE
	RRF	AMOUNT		RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.32800		0.30136	0.010	8.1	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.42966		0.37840	0.010	11.9	50.0	Averaged	
\$ 6 Toluene-d8	1.27065		1.14985	0.010	9.5	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.01247		0.88646	0.010	12.4	50.0	Averaged	
8 Dichlorodifluoromethane	0.35966		0.35105	0.010	2.4	50.0	Averaged	
9 Chloromethane	0.40530		0.42367	0.100	-4.5	50.0	Averaged	
10 Vinyl Chloride	0.28838		0.26538	0.010	8.0	20.0	Averaged	
11 Bromomethane	0.15092		0.13983	0.010	7.3	50.0	Averaged	
12 Chloroethane	0.15410		0.17781	0.010	-15.4	50.0	Averaged	
13 Trichlorofluoromethane	0.36416		0.38322	0.010	-5.2	50.0	Averaged	
15 Acrolein	0.01256		0.01209	0.010	3.7	50.0	Averaged	
16 Acetone	0.17590		0.22949	0.010	-30.5	50.0	Averaged	
17 1,1-Dichloroethene	0.27322		0.28655	0.010	-4.9	20.0	Averaged	
18 Freon-113	0.28703		0.27385	0.010	4.6	50.0	Averaged	
19 Iodomethane	0.60974		0.51882	0.010	14.9	50.0	Averaged	
20 Carbon Disulfide	1.00239		1.11394	0.010	-11.1	50.0	Averaged	
21 Methylene Chloride	0.31647		0.30348	0.010	4.1	50.0	Averaged	
22 Acetonitrile	0.03033		0.03222	0.010	-7.3	50.0	Averaged	
23 Acrylonitrile	0.09729		0.09830	0.010	-1.0	50.0	Averaged	
24 Methyl tert-butyl ether	0.73703		0.65277	0.010	11.4	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.32640		0.32039	0.010	1.8	50.0	Averaged	
26 Hexane	0.05695		0.05677	0.010	0.3	50.0	Averaged	
27 Vinyl acetate	0.33141		0.30969	0.010	6.6	50.0	Averaged	
28 1,1-Dichloroethane	0.64837		0.63317	0.100	2.3	50.0	Averaged	
29 tert-Butyl Alcohol	0.01553		0.01288	0.010	30.5	50.0	Averaged	
30 2-Butanone	0.17252		0.15645	0.010	9.4	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.33233		0.32129	0.010	3.0	50.0	Averaged	
32 cis-1,2-dichloroethene	0.33626		0.32219	0.010	4.2	50.0	Averaged	
33 2,2-Dichloropropane	0.34416		0.23594	0.010	31.4	50.0	Averaged	
34 Bromochloromethane	0.16634		0.16109	0.010	3.2	50.0	Averaged	
35 Chloroform	0.61548		0.61216	0.010	0.5	20.0	Averaged	
36 Tetrahydrofuran	0.08041		0.06986	0.010	13.1	50.0	Averaged	
37 1,1,1-Trichloroethane	0.54725		0.47784	0.010	12.7	50.0	Averaged	
38 1,1-Dichloropropene	0.42689		0.42328	0.010	0.8	50.0	Averaged	
39 Carbon Tetrachloride	0.48660		0.43080	0.010	11.5	50.0	Averaged	
40 1,2-Dichloroethane	0.60904		0.58914	0.010	3.3	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 08:45
 Lab File ID: ux74419.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
41 Benzene	1.18437	1.16932	0.010	1.3	50.0	Averaged	
42 Trichloroethene	0.33915	0.32853	0.010	3.1	50.0	Averaged	
43 1,2-Dichloropropane	0.33039	0.32792	0.010	0.7	20.0	Averaged	
44 1,4-Dioxane	0.00154	0.00174	0.010	-13.3	50.0	Averaged	
45 Dibromomethane	0.20048	0.19204	0.010	4.2	50.0	Averaged	
46 Bromodichloromethane	0.46110	0.44405	0.010	3.7	50.0	Averaged	
47 2-Chloroethyl vinyl ether	0.12996	0.12931	0.010	0.5	50.0	Averaged	
48 cis-1,3-Dichloropropene	0.46832	0.43959	0.010	6.1	50.0	Averaged	
49 4-Methyl-2-pentanone	0.26872	0.25096	0.010	6.6	50.0	Averaged	
50 Toluene	1.68123	1.60115	0.010	4.8	20.0	Averaged	
51 trans-1,3-Dichloropropene	0.53939	0.47352	0.010	12.2	50.0	Averaged	
52 Ethyl Methacrylate	0.38278	0.31472	0.010	17.8	50.0	Averaged	
53 1,1,2-Trichloroethane	0.32872	0.30491	0.010	7.2	50.0	Averaged	
54 1,3-Dichloropropane	0.56653	0.52892	0.010	6.6	50.0	Averaged	
55 Tetrachloroethene	0.33278	0.31323	0.010	5.9	50.0	Averaged	
56 2-Hexanone	0.25073	0.21303	0.010	15.0	50.0	Averaged	
57 Dibromochloromethane	0.41031	0.37651	0.010	8.2	50.0	Averaged	
58 1,2-Dibromoethane	0.33197	0.30590	0.010	7.9	50.0	Averaged	
59 Chlorobenzene	1.17294	1.09896	0.300	6.3	50.0	Averaged	
60 1,1,1,2-Tetrachloroethane	0.43539	0.39728	0.010	8.8	50.0	Averaged	
61 Ethylbenzene	0.56393	0.52658	0.010	6.6	20.0	Averaged	
62 m + p-Xylene	0.68011	0.64011	0.010	5.9	50.0	Averaged	
M 63 Xylenes (total)	0.67003	0.63492	0.010	5.2	50.0	Averaged	
64 Xylene-o	0.64987	0.62453	0.010	3.9	50.0	Averaged	
65 Styrene	1.11741	1.05857	0.010	5.3	50.0	Averaged	
66 Bromoform	0.21725	0.18971	0.100	12.7	50.0	Averaged	
67 Isopropylbenzene	2.92713	2.84039	0.010	3.0	50.0	Averaged	
68 1,1,2,2-Tetrachloroethane	0.62323	0.58115	0.300	6.8	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.22046	0.19482	0.010	11.6	50.0	Averaged	
70 1,2,3-Trichloropropane	0.22660	0.20776	0.010	8.3	50.0	Averaged	
71 Bromobenzene	0.89078	0.84078	0.010	5.6	50.0	Averaged	
72 n-Propylbenzene	0.86125	0.82855	0.010	3.8	50.0	Averaged	
73 2-Chlorotoluene	0.78140	0.76671	0.010	1.9	50.0	Averaged	
74 1,3,5-Trimethylbenzene	2.52791	2.43426	0.010	3.7	50.0	Averaged	
75 4-Chlorotoluene	0.84453	0.80881	0.010	4.2	50.0	Averaged	
76 tert-Butylbenzene	2.18142	2.04592	0.010	6.2	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 08:45
 Lab File ID: ux74419.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
77 1,2,4-Trimethylbenzene	2.67097	2.57390	0.010	3.6	50.0	Averaged	
78 sec-Butylbenzene	2.75480	2.62207	0.010	4.8	50.0	Averaged	
79 4-Isopropyltoluene	2.51162	2.37094	0.010	5.6	50.0	Averaged	
80 1,3-Dichlorobenzene	1.68090	1.58334	0.010	5.8	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78812	1.64097	0.010	8.2	50.0	Averaged	
82 n-Butylbenzene	2.36039	2.18436	0.010	7.5	50.0	Averaged	
83 1,2-Dichlorobenzene	1.66145	1.50231	0.010	9.6	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.13027	0.11127	0.010	14.6	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.75601	0.61073	0.010	19.2	50.0	Averaged	
86 Hexachlorobutadiene	0.40490	0.28759	0.010	29.0	50.0	Averaged	
87 Naphthalene	1.66880	1.20830	0.010	27.6	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.60562	0.39630	0.010	34.6	50.0	Averaged	
98 Cyclohexane	0.53206	0.52003	0.010	2.3	50.0	Averaged	
143 Methyl Acetate	0.31013	0.25841	0.010	16.7	50.0	Averaged	
144 Methylcyclohexane	0.37329	0.37048	0.010	0.8	50.0	Averaged	
141 1,3,5-Trichlorobenzene	0.99386	0.80920	0.010	18.6	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 17-JUL-2000 09:11
 Lab File ID: ux74420.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00717A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.22569	0.29296	0.010	-29.8	50.0	Averaged	
89 Ethyl Ether	0.20953	0.19520	0.010	6.8	50.0	Averaged	
91 3-Chloropropene	0.15040	0.14752	0.010	1.9	50.0	Averaged	
92 Isopropyl Ether	0.22791	0.22600	0.010	0.8	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.66576	0.66107	0.010	0.7	50.0	Averaged	
94 Propionitrile	0.03723	0.03298	0.010	11.4	50.0	Averaged	
95 Ethyl Acetate	0.26251	0.23123	0.010	11.9	50.0	Averaged	
96 Methacrylonitrile	0.18754	0.17525	0.010	6.6	50.0	Averaged	
97 Isobutanol	0.00872	0.00637	0.010	26.9	50.0	Averaged	<-
99 n-Butanol	0.00455	0.00337	0.010	26.0	50.0	Averaged	<-
100 Methyl Methacrylate	0.32906	0.28063	0.010	14.7	50.0	Averaged	
101 2-Nitropropane	0.08524	0.08268	0.010	3.0	50.0	Averaged	
103 Cyclohexanone	0.03550	0.03071	0.010	13.5	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019

Lab File ID: BFB553 BFB Injection Date: 07/18/00

Instrument ID: A3UX7 BFB Injection Time: 0824

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.9
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.2 (6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	73.4 (95.4)1
177	5.0 - 9.0% of mass 176	5.1 (6.9)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX74446	07/18/00	0841
02	VSTD010	50NG-A9CC	UX74447	07/18/00	0908
03	DGF24-CHK	DGF24102	UX74448	07/18/00	0934
04	DGF24-BLK	DGF24101	UX74449	07/18/00	1000
05	TB071000	DGOV1101	UX74450	07/18/00	1027
06	TB071100	DG2QJ101	UX74454	07/18/00	1213
07					
08					
09					
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 18-JUL-2000 08:41
 Lab File ID: ux74446.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 5ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00718A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Dibromofluoromethane	0.32800	0.30778	0.010	6.2	50.0	Averaged	
\$ 5 1,2-Dichloroethane-d4	0.42966	0.38601	0.010	10.2	50.0	Averaged	
\$ 6 Toluene-d8	1.27065	1.14781	0.010	9.7	50.0	Averaged	
\$ 7 Bromofluorobenzene	1.01247	0.88916	0.010	12.2	50.0	Averaged	
8 Dichlorodifluoromethane	0.35966	0.32822	0.010	8.7	50.0	Averaged	
9 Chloromethane	0.40530	0.40005	0.100	1.3	50.0	Averaged	
10 Vinyl Chloride	0.28838	0.29805	0.010	-3.4	20.0	Averaged	
11 Bromomethane	0.15092	0.16654	0.010	-10.4	50.0	Averaged	
12 Chloroethane	0.15410	0.16770	0.010	-8.8	50.0	Averaged	
13 Trichlorofluoromethane	0.36416	0.39003	0.010	-7.1	50.0	Averaged	
15 Acrolein	0.01256	0.01174	0.010	6.5	50.0	Averaged	
16 Acetone	0.17580	0.13627	0.010	22.5	50.0	Averaged	
17 1,1-Dichloroethane	0.27322	0.30239	0.010	-10.7	20.0	Averaged	
18 Freon-113	0.28703	0.31799	0.010	-10.8	50.0	Averaged	
19 Iodomethane	0.60974	0.59363	0.010	2.6	50.0	Averaged	
20 Carbon Disulfide	1.00239	1.15336	0.010	-15.1	50.0	Averaged	
21 Methylene Chloride	0.31647	0.30673	0.010	3.1	50.0	Averaged	
22 Acetonitrile	0.03003	0.02900	0.010	3.4	50.0	Averaged	
23 Acrylonitrile	0.09729	0.09877	0.010	-1.5	50.0	Averaged	
24 Methyl tert-butyl ether	0.73703	0.69783	0.010	5.3	50.0	Averaged	
25 trans-1,2-Dichloroethene	0.32640	0.32303	0.010	1.0	50.0	Averaged	
26 Hexane	0.05695	0.05500	0.010	3.4	50.0	Averaged	
27 Vinyl acetate	0.33141	0.28311	0.010	14.6	50.0	Averaged	
28 1,1-Dichloroethane	0.64837	0.65362	0.100	-0.8	50.0	Averaged	
29 tert-Butyl Alcohol	0.01853	0.01475	0.010	20.4	50.0	Averaged	
30 2-Butanone	0.17262	0.14850	0.010	14.0	50.0	Averaged	
M 31 1,2-Dichloroethene (total)	0.33133	0.32527	0.010	1.8	50.0	Averaged	
32 cis-1,2-dichloroethene	0.33626	0.32750	0.010	2.6	50.0	Averaged	
33 2,2-Dichloropropane	0.34416	0.30060	0.010	12.7	50.0	Averaged	
34 Bromochloromethane	0.16634	0.16478	0.010	0.9	50.0	Averaged	
35 Chloroform	0.63548	0.62142	0.010	-1.0	20.0	Averaged	
36 Tetrahydrofuran	0.08041	0.07208	0.010	10.4	50.0	Averaged	
37 1,1,1-Trichloroethane	0.54725	0.54203	0.010	1.0	50.0	Averaged	
38 1,1-Dichloropropene	0.42689	0.42747	0.010	-0.1	50.0	Averaged	
39 Carbon Tetrachloride	0.48660	0.48076	0.010	1.2	50.0	Averaged	
40 1,2-Dichloroethane	0.60904	0.60486	0.010	0.7	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 18-JUL-2000 08:41
 Lab File ID: ux74446.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00718A.b/N8260UX7-3.m

COMPOUND	RF50		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT		
41 Benzene	1.18437	1.16943	0.010	1.3	50.0	Averaged	
42 Trichloroethene	0.33915	0.33209	0.010	2.1	50.0	Averaged	
43 1,2-Dichloropropane	0.33039	0.33283	0.010	-0.7	20.0	Averaged	
44 1,4-Dioxane	0.00154	0.00165	0.010	-7.2	50.0	Averaged	
45 Dibromomethane	0.20048	0.20099	0.010	-0.3	50.0	Averaged	
46 Bromodichloromethane	0.46110	0.46244	0.010	-0.3	50.0	Averaged	
47 2-Chloroethyl vinyl ether	0.12996	0.12991	0.010	0.0	50.0	Averaged	
48 cis-1,3-Dichloropropene	0.46832	0.45177	0.010	3.5	50.0	Averaged	
49 4-Methyl-2-pentanone	0.26872	0.25514	0.010	5.1	50.0	Averaged	
50 Toluene	1.68123	1.64625	0.010	2.1	20.0	Averaged	
51 trans-1,3-Dichloropropene	0.53939	0.50546	0.010	6.3	50.0	Averaged	
52 Ethyl Methacrylate	0.38278	0.34953	0.010	8.7	50.0	Averaged	
53 1,1,2-Trichloroethane	0.32872	0.31864	0.010	3.1	50.0	Averaged	
54 1,3-Dichloropropane	0.56653	0.55326	0.010	2.3	50.0	Averaged	
55 Tetrachloroethene	0.33278	0.32259	0.010	3.1	50.0	Averaged	
56 2-Hexanone	0.25073	0.21770	0.010	13.2	50.0	Averaged	
57 Dibromochloromethane	0.41031	0.39356	0.010	4.1	50.0	Averaged	
58 1,2-Dibromoethane	0.33197	0.32019	0.010	3.5	50.0	Averaged	
59 Chlorobenzene	1.17294	1.12494	0.300	4.1	50.0	Averaged	
60 1,1,1,2-Tetrachloroethane	0.43539	0.41828	0.010	3.9	50.0	Averaged	
61 Ethylbenzene	0.56393	0.54410	0.010	3.5	20.0	Averaged	
62 m + p-Xylene	0.68011	0.65400	0.010	3.8	50.0	Averaged	
M 63 Xylenes (total)	0.67003	0.64881	0.010	3.2	50.0	Averaged	
64 Xylene-o	0.64987	0.63842	0.010	1.8	50.0	Averaged	
65 Styrene	1.11741	1.10559	0.010	1.1	50.0	Averaged	
66 Bromoform	0.21725	0.20566	0.100	5.3	50.0	Averaged	
67 Isopropylbenzene	2.92713	2.82643	0.010	3.4	50.0	Averaged	
68 1,1,2,2-Tetrachloroethane	0.62323	0.59098	0.300	5.2	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.22046	0.19464	0.010	11.7	50.0	Averaged	
70 1,2,3-Trichloropropane	0.22660	0.21112	0.010	6.8	50.0	Averaged	
71 Bromobenzene	0.89078	0.84973	0.010	4.6	50.0	Averaged	
72 n-Propylbenzene	0.86125	0.84322	0.010	2.1	50.0	Averaged	
73 2-Chlorotoluene	0.78140	0.75258	0.010	3.7	50.0	Averaged	
74 1,3,5-Trimethylbenzene	2.52791	2.43799	0.010	3.6	50.0	Averaged	
75 4-Chlorotoluene	0.84453	0.79599	0.010	5.7	50.0	Averaged	
76 tert-Butylbenzene	2.18142	2.02847	0.010	7.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 18-JUL-2000 08:41
 Lab File ID: ux74446.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00718A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
77 1,2,4-Trimethylbenzene	2.67097	2.57862	0.010	3.5	50.0	Averaged	
78 sec-Butylbenzene	2.75480	2.64466	0.010	4.0	50.0	Averaged	
79 4-Isopropyltoluene	2.51162	2.39976	0.010	4.5	50.0	Averaged	
80 1,3-Dichlorobenzene	1.68090	1.57650	0.010	6.2	50.0	Averaged	
81 1,4-Dichlorobenzene	1.78812	1.63968	0.010	8.3	50.0	Averaged	
82 n-Butylbenzene	2.36039	2.21008	0.010	6.4	50.0	Averaged	
83 1,2-Dichlorobenzene	1.66145	1.49668	0.010	9.9	50.0	Averaged	
84 1,2-Dibromo-3-chloropropane	0.13027	0.11559	0.010	11.3	50.0	Averaged	
85 1,2,4-Trichlorobenzene	0.75601	0.58265	0.010	22.9	50.0	Averaged	
86 Hexachlorobutadiene	0.40490	0.28518	0.010	29.6	50.0	Averaged	
87 Naphthalene	1.66880	1.17673	0.010	29.5	50.0	Averaged	
88 1,2,3-Trichlorobenzene	0.60562	0.40245	0.010	33.5	50.0	Averaged	
98 Cyclohexane	0.53206	0.52414	0.010	1.5	50.0	Averaged	
143 Methyl Acetate	0.31013	0.28198	0.010	9.1	50.0	Averaged	
144 Methylcyclohexane	0.37329	0.36624	0.010	1.9	50.0	Averaged	
141 1,3,5-Trichlorobenzene	0.99386	0.81824	0.010	17.7	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 18-JUL-2000 09:08
 Lab File ID: ux74447.d Init. Cal. Date(s): 14-JUL-2000 14-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 07:45 12:18
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux7.i/U00718A.b/N8260UX7-3.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
14 Dichlorofluoromethane	0.22569	0.27160	0.010	-20.3	50.0	Averaged	
89 Ethyl Ether	0.20953	0.21878	0.010	-4.4	50.0	Averaged	
91 3-Chloropropene	0.15040	0.19734	0.010	-31.2	50.0	Averaged	
92 Isopropyl Ether	0.22791	0.23782	0.010	-4.4	50.0	Averaged	
93 2-Chloro-1,3-butadiene	0.66576	0.68638	0.010	-3.1	50.0	Averaged	
94 Propionitrile	0.03723	0.03670	0.010	1.4	50.0	Averaged	
95 Ethyl Acetate	0.26251	0.25429	0.010	3.1	50.0	Averaged	
96 Methacrylonitrile	0.18754	0.18146	0.010	3.2	50.0	Averaged	
97 Isobutanol	0.00872	0.00678	0.010	22.3	50.0	Averaged	<-
99 n-Butanol	0.00455	0.00371	0.010	18.6	50.0	Averaged	<-
100 Methyl Methacrylate	0.32906	0.30459	0.010	7.4	50.0	Averaged	
101 2-Nitropropane	0.08524	0.08768	0.010	-2.9	50.0	Averaged	
103 Cyclohexanone	0.03550	0.03177	0.010	10.5	50.0	Averaged	

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGAPR101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: ux74395.d

Lot Number: AOG080143

Date Analyzed: 07/14/00

Time Analyzed: 14:53

Matrix: WATER

Date Extracted:07/14/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DFV6W12L	ux74404.d	07/14/00	18:52
02	LAB MS/MSD	DFV6W12M S	ux74405.d	07/14/00	19:18
03	LAB MS/MSD	DFV6W12N D	ux74406.d	07/14/00	19:45
04	MPT-G4-GW-34-05	DFWD110V	ux74414.d	07/14/00	23:16
05	MPT-G4-GW-35-05	DFWD410V	ux74415.d	07/14/00	23:43
06	MPT-G4-GW-37-05	DFWD510V	ux74416.d	07/15/00	00:09
07	MPT-G4-GW-38-04	DFWD810V	ux74418.d	07/15/00	01:02
08	CHECK SAMPLE	DGAPR102 C	ux74394.d	07/14/00	14:26
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G170000 127

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/07/00

Work Order: DGAPR101

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0199127

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.079	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER Lab Sample ID: AOG170000 127

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/07/00

Work Order: DGAPR101 Date Extracted: 07/14/00

Dilution factor: 1 Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0199127

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.44	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.073	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGD64101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: ux74422.d

Lot Number: AOG110125

Date Analyzed: 07/17/00

Time Analyzed: 10:04

Matrix: WATER

Date Extracted:07/17/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGD64102 C	ux74421.d	07/17/00	09:37
02	MPT-G4-GW-41-06	DG0TK10V	ux74435.d	07/17/00	15:50
03	MPT-G4-GW-42-04	DG0TV10V	ux74436.d	07/17/00	16:17
04	MPT-G4-GW-43-04	DG0TX10V	ux74437.d	07/17/00	16:43
05	MPT-G4-GW-44-04	DG0V010V	ux74438.d	07/17/00	17:10
06	INTRA-LAB QC	DG2M412L	ux74440.d	07/17/00	18:04
07	LAB MS/MSD	DG2M412M S	ux74441.d	07/17/00	18:31
08	LAB MS/MSD	DG2M412N D	ux74442.d	07/17/00	18:58
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COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGD64101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: ux74422.d

Lot Number: AOG080143

Date Analyzed: 07/17/00

Time Analyzed: 10:04

Matrix: WATER

Date Extracted:07/17/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-40-04	DFWDA10V	ux74428.d	07/17/00	12:43
02	MPT-G4-GW-36-05	DFWDC10V	ux74429.d	07/17/00	13:10
03	TB070700	DFWD6101	ux74426.d	07/17/00	11:50
04	MPT-G4-GW-39-04	DFWD910V	ux74427.d	07/17/00	12:16
05	CHECK SAMPLE	DGD64102 C	ux74421.d	07/17/00	09:37
06	INTRA-LAB QC	DG2M412L	ux74440.d	07/17/00	18:04
07	LAB MS/MSD	DG2M412M S	ux74441.d	07/17/00	18:31
08	LAB MS/MSD	DG2M412N D	ux74442.d	07/17/00	18:58
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COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGD64101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number: MP019

Lab File ID: ux74422.d

Lot Number: A0G120127

Date Analyzed: 07/17/00

Time Analyzed: 10:04

Matrix: WATER

Date Extracted: 07/17/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGD64102 C	ux74421.d	07/17/00	09:37
02	MPT-G4-GW-45-07	DG2M412L	ux74440.d	07/17/00	18:04
03	MPT-G4-GW-45-07	DG2M412M S	ux74441.d	07/17/00	18:31
04	MPT-G4-GW-45-07	DG2M412N D	ux74442.d	07/17/00	18:58
05	MPT-G4-GW-46-07	DG2PN10V	ux74443.d	07/17/00	19:24
06	MPT-G4-GW-48-07	DG2QE10V	ux74445.d	07/17/00	20:18
07	MPT-G4-GW-47-07	DG2Q910V	ux74444.d	07/17/00	19:51
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G180000 179

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DGD64101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %: NA

QC Batch: 0200179

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	1.4	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G180000 179

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DGD64101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %: NA

QC Batch: 0200179

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	0.19	J
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.043	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G180000 179

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DGD64101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %: NA

QC Batch: 0200179

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGF24101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: ux74449.d

Lot Number: A0G120127

Date Analyzed: 07/18/00

Time Analyzed: 10:00

Matrix: WATER

Date Extracted:07/18/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGF24102 C	ux74448.d	07/18/00	09:34
02	TB071100	DG2QJ101	ux74454.d	07/18/00	12:13
03	INTRA-LAB QC	DG4KH10V	ux74461.d	07/18/00	15:18
04	LAB MS/MSD	DG4KH110 S	ux74468.d	07/18/00	18:25
05	LAB MS/MSD	DG4KH111 D	ux74469.d	07/18/00	18:52
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COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGF24101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: ux74449.d

Lot Number: A0G110125

Date Analyzed: 07/18/00

Time Analyzed: 10:00

Matrix: WATER

Date Extracted:07/18/00

GC Column: DB 624 ID: .25

Extraction Method: 5030B/8260B

Instrument ID: UX7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 CHECK SAMPLE	DGF24102 C	ux74448.d	07/18/00	09:34
02 TB071000	DGOV1101	ux74450.d	07/18/00	10:27
03 INTRA-LAB QC	DG4KH10V	ux74461.d	07/18/00	15:18
04 LAB MS/MSD	DG4KH110 S	ux74468.d	07/18/00	18:25
05 LAB MS/MSD	DG4KH111 D	ux74469.d	07/18/00	18:52
06				
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER Lab Sample ID: A0G190000 165

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/13/00

Work Order: DGF24101

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %: NA

QC Batch: 0201165

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	1.3	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER Lab Sample ID: AOG190000 165
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/13/00
Work Order: DGF24101 Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/18/00
Moisture %: NA

QC Batch: 0201165

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
78-87-5	1,2-Dichloropropane	1.0		U
10061-01-5	cis-1,3-Dichloropropene	1.0		U
10061-02-6	trans-1,3-Dichloropropene	1.0		U
100-41-4	Ethylbenzene	1.0		U
97-63-2	Ethyl methacrylate	1.0		U
75-69-4	Trichlorofluoromethane	2.0		U
591-78-6	2-Hexanone	10		U
74-88-4	Iodomethane	1.0		U
78-83-1	Isobutyl alcohol	50		U
126-98-7	Methacrylonitrile	1.0		U
75-09-2	Methylene chloride	0.18	J	
80-62-6	Methyl methacrylate	1.0		U
107-12-0	Propionitrile	4.0		U
100-42-5	Styrene	1.0		U
630-20-6	1,1,1,2-Tetrachloroethane	1.0		U
79-34-5	1,1,2,2-Tetrachloroethane	1.0		U
127-18-4	Tetrachloroethene	1.0		U
108-88-3	Toluene	1.0		U
71-55-6	1,1,1-Trichloroethane	1.0		U
79-00-5	1,1,2-Trichloroethane	1.0		U
79-01-6	Trichloroethene	1.0		U
96-18-4	1,2,3-Trichloropropane	1.0		U
108-05-4	Vinyl acetate	1.0		U
75-01-4	Vinyl chloride	1.0		U
1330-20-7	Xylenes (total)	1.0		U
106-93-4	1,2-Dibromoethane (EDB)	1.0		U
78-93-3	2-Butanone (MEK)	10		U
108-10-1	4-Methyl-2-pentanone (MIBK)	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: AOG190000 165

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/13/00

Work Order: DGF24101

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %: NA

QC Batch: 0201165

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGD8J101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: wcx2259.d

Lot Number: A0G120127

Date Analyzed: 07/17/00

Time Analyzed: 16:13

Matrix: WATER

Date Extracted:07/17/00

GC Column: DB 624 ID: .18

Extraction Method: 5030B/8260B

Instrument ID: UX10

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGD8J102 C	wcx2257.d	07/17/00	15:02
02	MPT-G4-GW-49-07	DG2QH10V	wcx2260.d	07/17/00	16:36
03	MPT-G4-GW-49-07	DG2QH10W S	wcx2263.d	07/17/00	17:47
04	MPT-G4-GW-49-07	DG2QH10X D	wcx2264.d	07/17/00	18:11
05					
06					
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G180000 218

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DGD8J101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %: NA

QC Batch: 0200218

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	0.93	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	0.099	J
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER Lab Sample ID: AOG180000 218
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 07/12/00
Work Order: DGD8J101 Date Extracted: 07/17/00
Dilution factor: 1 Date Analyzed: 07/17/00
Moisture %: NA

QC Batch: 0200218

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: AOG180000 218

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 07/12/00

Work Order: DGD8J101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/17/00

Moisture %: NA

QC Batch: 0200218

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
1634-04-4	Methyl tert-butyl ether (MTB)	5.0		U

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3ux7.i/U00714B.b/ux74414.d
 Lab Smp Id: DFWD110V Client Smp ID: MPT-G4-GW-34-05
 Inj Date : 14-JUL-2000 23:16
 Operator : 43582 Inst ID: a3ux7.i
 Smp Info : DFWD110V,,5ML/5ML
 Misc Info :
 Comment :
 Method : /chem/can/msv/a3ux7.i/U00714B.b/N8260UX7-3.m
 Meth Date : 17-Jul-2000 07:39 evansl Quant Type: ISTD
 Cal Date : 14-JUL-2000 12:18 Cal File: ux74391.d
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-8260+IX.sub
 Target Version: 3.50
 Processing Host: hpuxcs3

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample volume
Va	100.00000	Injection Volume

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	9.539	9.542	(1.000)	657364	50.0000	
* 2 Chlorobenzene-d5	117	13.749	13.757	(1.000)	510289	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	17.277	17.280	(1.000)	261315	50.0000	
\$ 4 Dibromofluoromethane	113	8.639	8.647	(0.906)	192115	44.5510	8.910
\$ 5 1,2-Dichloroethane-d4	65	9.101	9.110	(0.954)	255754	45.2753	9.055
\$ 6 Toluene-d8	98	11.632	11.640	(0.846)	570895	44.0234	8.805
\$ 7 Bromofluorobenzene	95	15.702	15.704	(0.909)	231158	43.6849	8.737
8 Dichlorodifluoromethane	85				Compound Not Detected.		
9 Chloromethane	50				Compound Not Detected.		
10 Vinyl Chloride	62				Compound Not Detected.		
11 Bromomethane	94				Compound Not Detected.		
12 Chloroethane	64				Compound Not Detected.		
13 Trichlorofluoromethane	101				Compound Not Detected.		
15 Acrolein	56				Compound Not Detected.		
16 Acetone	43	5.755	5.727	(0.603)	10760	4.65538	0.9311
17 1,1-Dichloroethene	96				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
18 Freon-113	151						
19 Iodomethane	142						
20 Carbon Disulfide	76						
21 Methylene Chloride	84	6.333	6.342	(0.664)	2926	0.70323	0.1406
22 Acetonitrile	41						
23 Acrylonitrile	53						
24 Methyl tert-butyl ether	73						
25 trans-1,2-Dichloroethane	96						
26 Hexane	86						
27 Vinyl acetate	43						
28 1,1-Dichloroethane	63	7.288	7.285	(0.764)	26697	3.13188	0.6264
29 tert-Butyl Alcohol	59						
30 2-Butanone	43						
32 cis-1,2-dichloroethene	96	8.036	8.039	(0.842)	17593	3.97947	0.7959
33 2,2-Dichloropropane	77						
34 Bromochloromethane	128						
35 Chloroform	83						
36 Tetrahydrofuran	42						
37 1,1,1-Trichloroethane	97						
38 1,1-Dichloropropene	75						
39 Carbon Tetrachloride	117						
40 1,2-Dichloroethane	62						
41 Benzene	78						
42 Trichloroethene	130						
43 1,2-Dichloropropane	63						
44 1,4-Dioxane	88						
45 Dibromomethane	93						
46 Bromodichloromethane	83						
47 2-Chloroethyl vinyl ether	63						
48 cis-1,3-Dichloropropene	75						
49 4-Methyl-2-pentanone	43						
50 Toluene	91	11.729	11.732	(0.853)	5688	0.33150	0.06630
51 trans-1,3-Dichloropropene	75						
52 Ethyl Methacrylate	69						
53 1,1,2-Trichloroethane	97						
54 1,3-Dichloropropane	76						
55 Tetrachloroethene	164						
56 2-Hexanone	43						
57 Dibromochloromethane	129						
58 1,2-Dibromoethane	107						
59 Chlorobenzene	112						
60 1,1,1,2-Tetrachloroethane	131						
61 Ethylbenzene	106						
62 m + p-Xylene	106						
M 63 Xylenes (total)	106						
64 Xylene-o	106						
65 Styrene	104						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
66 Bromoform	173				Compound Not Detected.		
67 Isopropylbenzene	105				Compound Not Detected.		
68 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
69 1,4-Dichloro-2-butene	53				Compound Not Detected.		
70 1,2,3-Trichloropropane	110				Compound Not Detected.		
71 Bromobenzene	156				Compound Not Detected.		
72 n-Propylbenzene	120				Compound Not Detected.		
73 2-Chlorotoluene	126				Compound Not Detected.		
74 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
75 4-Chlorotoluene	126				Compound Not Detected.		
76 tert-Butylbenzene	119				Compound Not Detected.		
77 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
78 sec-Butylbenzene	105				Compound Not Detected.		
79 4-Isopropyltoluene	119				Compound Not Detected.		
80 1,3-Dichlorobenzene	146				Compound Not Detected.		
81 1,4-Dichlorobenzene	146				Compound Not Detected.		
82 n-Butylbenzene	91				Compound Not Detected.		
83 1,2-Dichlorobenzene	146				Compound Not Detected.		
84 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.		
85 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
86 Hexachlorobutadiene	225				Compound Not Detected.		
87 Naphthalene	128				Compound Not Detected.		
88 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
14 Dichlorofluoromethane	67				Compound Not Detected.		
89 Ethyl Ether	59				Compound Not Detected.		
91 3-Chloropropene	76				Compound Not Detected.		
92 Isopropyl Ether	87				Compound Not Detected.		
93 2-Chloro-1,3-butadiene	53				Compound Not Detected.		
94 Propionitrile	54				Compound Not Detected.		
95 Ethyl Acetate	43				Compound Not Detected.		
96 Methacrylonitrile	41				Compound Not Detected.		
97 Isobutanol	41				Compound Not Detected.		
99 n-Butanol	56				Compound Not Detected.		
100 Methyl Methacrylate	41				Compound Not Detected.		
101 2-Nitropropane	41				Compound Not Detected.		
103 Cyclohexanone	55				Compound Not Detected.		
98 Cyclohexane	56				Compound Not Detected.		
143 Methyl Acetate	43				Compound Not Detected.		
144 Methylcyclohexane	83				Compound Not Detected.		

CLIENT <i>Mayport</i>		JOB NUMBER	
SUBJECT <i>Sample Calculation</i>			
BASED ON <i>MPT-G4-GW-0534-05</i>		DRAWING NUMBER	
BY <i>gap</i>	CHECKED BY	APPROVED BY	DATE

1,1-dichloroethane 0.63 ug/L

$$\frac{(26697)(50)}{(657364)(.64837)(5)} = 0.63 \text{ ug/L}$$

SDG NARRATIVE

MP019

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Sample MPT-G4-GW-44-04 had surrogate recoveries outside acceptance limits. Upon re-extraction and reanalysis, all surrogates were within acceptance limits, however recommended holding time had been exceeded.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Bis(2-Ethylhexyl) phthalate was detected in the method blank for batch 0200218. All affected sample results are qualified with "B".

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

The MS/MSD for batch 0192223 had RPD's and/or recoveries outside acceptance limits. However, since the associated method blank and check were in control, no corrective action was necessary.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

58
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP019

Lab File ID: 7DF0712A

DFTPP Injection Date: 07/12/00

Instrument ID: A4HP7

DFTPP Injection Time: 0727

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.0
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	40.0 - 60.0% of mass 198	48.6
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.0% of mass 198	2.0
441	Present, but less than mass 443	7.2
442	40.0 - 100.0% of mass 198	48.5
443	17.0 - 23.0% of mass 442	9.1 (18.8)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD002	ASTD002	7AL0712	07/12/00	0746
02	ASTD005	ASTD005	7AML0712	07/12/00	0823
03	ASTD008	ASTD008	7AM0712	07/12/00	0900
04	ASTD012	ASTD012	7AMH0712	07/12/00	0938
05	ASTD016	ASTD016	7AH0712	07/12/00	1014
06	ASTD020	ASTD020	7AHH0712	07/12/00	1052
07					
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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019
 Lab File ID: 7DF0720A DFTPP Injection Date: 07/20/00
 Instrument ID: A4HP7 DFTPP Injection Time: 1020

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	78.2
70	Less than 2.0% of mass 69	0.7 (0.9)1
127	40.0 - 60.0% of mass 198	50.9
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	28.4
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than mass 443	12.0
442	40.0 - 100.0% of mass 198	89.6
443	17.0 - 23.0% of mass 442	15.8 (17.6)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SM0720	07/20/00	1040
02	SSTD005	SSTD005	7SML0720	07/20/00	1118
03	SSTD002	SSTD002	7SL0720	07/20/00	1154
04	SSTD012	SSTD012	7SMH0720	07/20/00	1231
05	SSTD016	SSTD016	7SH0720	07/20/00	1308
06	SSTD020	SSTD020	7SHH0720	07/20/00	1345
07					
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20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 07:46
 End Cal Date : 18-JUL-2000 19:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SL0718.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SML0718.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SM0718.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SMH0718.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SH0718.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SHH0718.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.61792	0.63068	0.66057	0.73625	0.71437	0.73189	0.68194	7.670
7 N-Nitrosomorpholine	0.82855	0.80793	0.79608	0.80184	0.78673	0.77391	0.79917	2.341
8 Ethyl methanesulfonate	1.31223	1.32378	1.31804	1.35254	1.35558	1.33863	1.33346	1.368
9 Pyridine	1.62798	1.61479	1.62875	1.59567	1.73211	1.68080	1.64668	3.067
10 N-Nitrosodimethylamine	0.93381	0.97847	0.96242	0.93404	0.96704	0.94277	0.95309	1.973
11 Ethyl methacrylate	1.49710	1.42590	1.36199	1.39718	1.44036	1.37880	1.41689	3.446
12 3-Chloropropionitrile	0.63116	0.64503	0.61351	0.60143	0.63247	0.63565	0.62654	2.555
13 Malononitrile	1.33704	1.34578	1.28983	1.28223	1.30927	1.24230	1.30108	2.936
14 2-Picoline	1.69490	1.75791	1.72424	1.84156	1.80576	1.71554	1.75665	3.238
15 N-Nitrosomethylethylamine	0.74728	0.77270	0.80457	0.85192	0.85126	0.83416	0.81031	5.350
16 Methyl methanesulfonate	1.10104	1.06687	1.00117	1.09879	1.09325	1.08504	1.07436	3.530
18 1,3-Dichloro-2-propanol	1.94965	1.90980	1.92241	1.98875	1.94991	1.92019	1.94012	1.491
19 N-Nitrosodiethylamine	0.72184	0.72121	0.73355	0.76067	0.75362	0.74620	0.73951	2.242
21 Aniline	2.34936	2.39935	2.33506	2.28661	2.32655	2.23789	2.32247	2.378
22 Phenol	2.05649	2.07285	1.99945	1.93986	1.98565	1.88541	1.98995	3.543
23 bis(2-Chloroethyl)ether	1.47885	1.47888	1.40929	1.37579	1.39288	1.32648	1.41036	4.245
24 2-Chlorophenol	1.31204	1.29627	1.24081	1.22195	1.24320	1.19781	1.25201	3.501
25 Pentachloroethane	0.56095	0.54111	0.54093	0.56555	0.54394	0.54378	0.54938	1.988
26 1,3-Dichlorobenzene	1.44207	1.40410	1.32358	1.32310	1.36478	1.30321	1.36014	3.975
27 1,4-Dichlorobenzene	1.42216	1.38818	1.36383	1.32893	1.35965	1.29989	1.36044	3.162
28 1,2-Dichlorobenzene	1.31153	1.28478	1.23635	1.20747	1.22608	1.16549	1.23861	4.261
29 Benzyl Alcohol	0.99836	1.02465	0.96829	0.94002	0.95330	0.91041	0.96584	4.248
30 2-Methylphenol	1.37737	1.41709	1.33681	1.30564	1.32799	1.27442	1.33989	3.802
31 bis(2-Chloroisopropyl)ether	1.04272	1.02225	1.09266	0.98820	1.00312	0.96465	1.01893	4.423
32 N-Nitroso-di-n-propylamine	1.18461	1.19829	1.13445	1.11786	1.14017	1.08446	1.14327	3.693

STL - North Canton
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 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.81202	2.86410	2.70435	2.61549	2.65854	2.53390	2.69807	4.567
192 4-Methylphenol	1.43465	1.44701	1.36753	1.30985	1.33055	1.25948	1.35818	5.377
193 3-Methylphenol	1.48022	1.43862	1.40303	1.43653	1.41858	1.37432	1.42522	2.522
34 Hexachloroethane	0.61573	0.62807	0.62080	0.59929	0.61022	0.58157	0.60928	2.742
35 Nitrobenzene	0.54681	0.56081	0.52865	0.52928	0.53233	0.51030	0.53470	3.234
36 N-Nitrosopyrrolidine	0.69693	0.75388	0.75850	0.79589	0.79997	0.80785	0.76884	5.433
37 Acetophenone	2.01581	2.11537	1.96402	1.90403	1.93226	1.83989	1.96190	4.866
39 o-Toluidine	2.33647	2.28111	2.28101	2.30709	2.24582	2.19232	2.27397	2.204
40 N-Nitrosopiperidine	0.18340	0.18945	0.18653	0.19966	0.19216	0.19736	0.19143	3.268
41 Isophorone	0.88187	0.88435	0.87114	0.83297	0.84138	0.80932	0.85350	3.549
42 2-Nitrophenol	0.18212	0.19207	0.18772	0.18328	0.18474	0.18073	0.18511	2.253
43 2,4-Dimethylphenol	0.44447	0.44942	0.43695	0.43048	0.43143	0.41635	0.43485	2.686
44 bis(2-Chloroethoxy)methane	0.52956	0.53312	0.48979	0.50226	0.50158	0.47801	0.50572	4.305
45 O,O,O-Triethyl phosphorothioa	0.19103	0.18620	0.17937	0.18605	0.18150	0.17745	0.18360	2.756
46 2,4-Toluediamene	0.15747	0.04509	0.05543	0.07251	0.09401	0.08595	0.08508	46.889
47 1,3,5-Trichlorobenzene	0.35520	0.35479	0.33780	0.32728	0.32511	0.31257	0.33546	5.106
48 2,4-Dichlorophenol	0.29874	0.31033	0.29948	0.28899	0.29173	0.27945	0.29478	3.582
49 Benzoic Acid	+++++	0.19054	0.18231	0.18358	0.17944	0.16847	0.18087	4.447
50 1,2,4-Trichlorobenzene	0.32460	0.32596	0.33230	0.30816	0.30768	0.29376	0.31541	4.621
51 Naphthalene	1.08447	1.07305	1.03316	0.99795	0.98831	0.93880	1.01929	5.414
52 4-Chloroaniline	0.42876	0.44812	0.43018	0.42677	0.43236	0.41430	0.43008	2.530
53 a,a-Dimethyl-phenethylamine	0.56041	0.72992	0.78787	0.85662	0.87016	0.91101	0.78599	16.267
54 2,6-Dichlorophenol	0.28059	0.27687	0.27185	0.28271	0.27543	0.27671	0.27736	1.385
55 Hexachloropropene	0.22142	0.22758	0.22055	0.24224	0.23486	0.23390	0.23009	3.674
56 Hexachlorobutadiene	0.24432	0.24088	0.22305	0.21678	0.21645	0.20277	0.22404	7.080
57 1,2,3-Trichlorobenzene	0.32601	0.31970	0.30784	0.29704	0.29399	0.28571	0.30505	5.126
58 N-Nitrosodi-n-butylamine	0.30508	0.31625	0.30281	0.31095	0.30248	0.29950	0.30618	2.041
59 4-Chloro-3-Methylphenol	0.38703	0.40820	0.39235	0.38424	0.38961	0.37447	0.38932	2.854
60 p-Phenylene diamine	0.29772	0.34301	0.35036	0.39421	0.39476	0.42193	0.36700	12.295
61 Safrole	0.27326	0.27273	0.27091	0.27699	0.26904	0.26682	0.27163	1.306
62 2-Methylnaphthalene	0.67820	0.68482	0.65910	0.63648	0.63464	0.60987	0.65052	4.412
63 1-Methylnaphthalene	0.68268	0.67978	0.64768	0.63077	0.62570	0.60170	0.64472	4.947
64 Hexachlorocyclopentadiene	0.29023	0.36639	0.36895	0.36554	0.37891	0.35821	0.35470	9.103

STL - North Canton
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 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	RSD
65 1,2,4,5-Tetrachlorobenzene	0.65134	0.59686	0.62255	0.61428	0.58768	0.56565	0.60639	4.917
66 2,4,6-Trichlorophenol	0.38982	0.41251	0.38852	0.38126	0.38706	0.37311	0.38871	3.392
67 2,4,5-Trichlorophenol	0.42247	0.44535	0.41232	0.40077	0.41306	0.39799	0.41533	4.141
68 1,2,3,5-Tetrachlorobenzene	0.65390	0.61909	0.60270	0.57785	0.57848	0.55213	0.59736	6.027
69 1,4-Dinitrobenzene	0.18511	0.21067	0.22215	0.22877	0.23137	0.23471	0.21880	8.484
70 2-Chloronaphthalene	1.09096	1.05174	1.01948	0.97330	0.97608	0.93966	1.00854	5.577
71 Isosafrole 1	0.14777	0.14622	0.15756	0.15950	0.15613	0.15718	0.15406	3.636
M 188 Isosafrole, Total	1.11250	1.06911	1.10812	1.09788	1.04246	1.02766	1.07629	3.311
72 Isosafrole 2	0.96472	0.92289	0.95056	0.93838	0.88634	0.87048	0.92223	4.009
73 2-Nitroaniline	0.43464	0.47435	0.43801	0.44319	0.45960	0.44875	0.44976	3.316
74 1,2,3,4-Tetrachlorobenzene	0.61635	0.59521	0.56035	0.55277	0.55687	0.53482	0.56940	5.316
75 1,4-Naphthoquinone	0.36253	0.42829	0.44317	0.46446	0.45158	0.45354	0.43393	8.525
76 Dimethylphthalate	1.32323	1.35798	1.22602	1.23062	1.25047	1.21343	1.26696	4.681
77 m-Dinitrobenzene	0.20598	0.23686	0.24586	0.25116	0.25299	0.25322	0.24101	7.567
78 2,6-Dinitrotoluene	0.26451	0.29147	0.28092	0.27883	0.28203	0.27830	0.27934	3.113
79 Acenaphthylene	1.93867	1.90472	1.78659	1.73748	1.73788	1.66687	1.79537	5.881
80 1,2-Dinitrobenzene	0.15620	0.16801	0.15046	0.15235	0.15507	0.15303	0.15585	4.035
81 3-Nitroaniline	0.28116	0.31631	0.29165	0.30481	0.31639	0.31113	0.30358	4.726
82 Acenaphthene	1.20634	1.18598	1.11847	1.09336	1.10235	1.05923	1.12762	5.044
83 2,4-Dinitrophenol	++++	0.12153	0.11687	0.12954	0.14391	0.14832	0.13203	10.392<-
84 Pentachlorobenzene	0.50936	0.47789	0.48820	0.48624	0.46935	0.45771	0.48146	3.681
85 4-Nitrophenol	0.15951	0.23349	0.21733	0.22361	0.22507	0.21964	0.21311	12.595
86 Dibenzofuran	1.75931	1.72612	1.60319	1.55760	1.56010	1.49748	1.61730	6.390
87 2,4-Dinitrotoluene	0.37424	0.41075	0.38667	0.37748	0.39144	0.38495	0.38759	3.343
88 2,3,4,6-Tetrachlorophenol	0.25786	0.28942	0.30403	0.30904	0.31263	0.31291	0.29765	7.172
89 1-Naphthylamine	1.05378	1.07066	1.14146	1.14214	1.11061	1.12268	1.10689	3.340
90 Zinophos	0.36399	0.38777	0.39368	0.37786	0.36172	0.35115	0.37270	4.417
91 2,3,5,6-Tetrachlorophenol	0.32906	0.39799	0.37310	0.36202	0.38077	0.37011	0.36884	6.231
92 2-Naphthylamine	1.07632	1.04781	1.09966	1.10744	1.09566	1.10866	1.08926	2.150
93 Diethylphthalate	1.38813	1.44089	1.37589	1.30387	1.31108	1.24191	1.34363	5.312
94 Fluorene	1.33359	1.32254	1.25019	1.22177	1.22587	1.17640	1.25506	4.898
95 4-Chlorophenyl-phenylether	0.74577	0.74818	0.70629	0.67023	0.68079	0.65796	0.70153	5.507
96 4-Nitroaniline	0.21831	0.27381	0.25665	0.26408	0.27149	0.25964	0.25733	7.862

STL - North Canton

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 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Substit

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.30566	0.34292	0.36839	0.37250	0.36064	0.35914	0.35154	7.017
98 4,6-Dinitro-2-methylphenol	++++	0.11251	0.11103	0.11146	0.12139	0.12261	0.11580	4.923 ←
99 N-Nitrosodiphenylamine	0.55471	0.55001	0.52715	0.51817	0.53061	0.50534	0.53100	3.535
100 1,2-Diphenylhydrazine	0.99546	0.99657	0.95310	0.92969	0.93912	0.87873	0.94878	4.677
101 Diphenylamine	0.55471	0.55001	0.52715	0.51817	0.53061	0.50534	0.53100	3.535
102 Tetraethyl dithiopyrophosphat	0.10330	0.10334	0.10361	0.10317	0.09999	0.09556	0.10149	3.161
103 Diallate 1	0.82712	0.74420	0.75868	0.70929	0.65633	0.60962	0.71754	10.772
M 189 Diallate, Total	3.28722	3.24656	3.15308	2.89184	2.82982	2.73170	3.02337	7.772
104 Phorate	0.15768	0.15317	0.15309	0.14350	0.13653	0.12855	0.14542	7.759
105 1,3,5-Trinitrobenzene	0.04954	0.07160	0.07763	0.08278	0.08580	0.08427	0.07527	18.114
106 4-Bromophenyl-phenylether	0.22325	0.22404	0.21273	0.20519	0.20913	0.19823	0.21209	4.791
107 Hexachlorobenzene	0.23957	0.22411	0.21935	0.20976	0.21222	0.20409	0.21818	5.794
108 Phenacetin	0.36356	0.39232	0.40956	0.41278	0.41393	0.40372	0.39931	4.813
109 Diallate 2	0.13033	0.13183	0.13651	0.13517	0.13804	0.13312	0.13417	2.182
110 Dimethoate	0.35406	0.37549	0.38047	0.37927	0.36651	0.35584	0.36861	3.166
111 Pentachlorophenol	0.08252	0.13498	0.12969	0.12118	0.12741	0.12431	0.12001	15.800
112 Pentachloronitrobenzene	0.09049	0.09362	0.09281	0.09122	0.08643	0.08099	0.08926	5.333
113 4-Aminobiphenyl	0.61776	0.55731	0.61432	0.62212	0.61021	0.58513	0.60114	4.175
114 Pronamide	0.31250	0.32925	0.33916	0.33720	0.32684	0.31427	0.32654	3.432
115 Phenanthrene	1.09469	1.07961	1.03745	0.98671	0.99375	0.94543	1.02294	5.657
116 Anthracene	1.02960	1.04886	1.03125	0.95605	0.95669	0.88647	0.98482	6.350
117 Dinoseb	0.10539	0.15590	0.16701	0.17729	0.19044	0.18944	0.16425	19.315
118 Disulfoton	0.54527	0.53374	0.54416	0.52697	0.51146	0.47871	0.52338	4.810
119 Carbazole	0.88679	0.92000	0.88865	0.83394	0.84289	0.78028	0.85876	5.812
120 Di-n-Butylphthalate	1.30156	1.26264	1.25167	1.18405	1.17289	1.07873	1.20859	6.636
121 4-Nitroquinoline 1-oxide	0.02734	0.05916	0.06920	0.08411	0.09212	0.09719	0.07152	36.202
122 Methapyrilene	0.30774	0.32821	0.30319	0.33292	0.30092	0.28998	0.31049	5.370
123 Fluoranthene	1.21487	1.19653	1.17722	1.07268	1.08386	0.98903	1.12237	7.848
124 Benzidine	0.28699	0.46676	0.56591	0.65902	0.75192	0.75066	0.58021	31.195
125 Pyrene	1.76992	1.79004	1.75177	1.68404	1.82587	1.74589	1.76125	2.707
126 Aramite 1	0.07448	0.08337	0.08922	0.09259	0.08364	0.08289	0.08437	7.358
M 191 Aramite, Total	0.44011	0.54494	0.53023	0.53642	0.55533	0.55167	0.52645	8.228
127 Aramite 2	0.10513	0.11625	0.12364	0.12810	0.11726	0.11510	0.11758	6.700

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 07:46
 End Cal Date : 18-JUL-2000 19:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.27796	0.29015	0.31220	0.31420	0.29828	0.28923	0.29702	4.763
129 p-Chlorobenzilate	0.49000	0.47503	0.50833	0.50002	0.45280	0.43077	0.47616	6.232
130 Famphur	0.52574	0.42423	0.38509	0.31051	0.19551	0.16897	0.33501	41.032
131 Butylbenzylphthalate	0.71245	0.74305	0.71560	0.70326	0.78040	0.75087	0.73427	3.979
132 3,3'-Dimethylbenzidine	0.53219	0.44783	0.51031	0.54670	0.51843	0.52028	0.51262	6.667
133 3,3'-Dimethoxybenzidine	0.21156	0.21983	0.23216	0.24470	0.26512	0.26638	0.23996	9.550
134 2-Acetylaminofluorene	0.25782	0.37385	0.37379	0.42618	0.42597	0.43683	0.38241	17.521
135 3,3'-Dichlorobenzidine	0.33984	0.40128	0.37973	0.39254	0.40613	0.40248	0.38700	6.452
136 Benzo(a)Anthracene	1.34408	1.34390	1.33021	1.28498	1.33060	1.30185	1.32260	1.815
137 Chrysene	1.29816	1.34390	1.29623	1.28028	1.34891	1.31648	1.31399	2.104
138 4,4'-Methylene bis(o-chloroan	0.22537	0.25051	0.23962	0.24831	0.25857	0.25579	0.24636	4.955
139 bis(2-ethylhexyl)Phthalate	0.97585	0.96876	0.96232	0.93954	1.01710	0.97788	0.97358	2.609
140 Di-n-octylphthalate	2.16430	1.89422	1.93789	1.83767	1.92621	1.72611	1.91440	7.566
141 Benzo(b)fluoranthene	1.44694	1.38254	1.34787	1.28364	1.35692	1.26977	1.34778	4.863
142 Benzo(k)fluoranthene	1.43666	1.36444	1.35130	1.34395	1.33910	1.26143	1.34948	4.155
143 7,12-dimethylbenz(a)anthracen	0.83322	0.78370	0.69794	0.82489	0.79219	0.75908	0.78184	6.308
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.14404	1.15663	1.14560	1.09551	1.13853	1.08180	1.12702	2.715
148 3-Methylcholanthrene	0.72605	0.70423	0.60228	0.74767	0.71814	0.71456	0.70215	7.271
149 Indeno(1,2,3-cd)pyrene	0.72591	0.84223	0.80148	0.78210	0.84125	0.83339	0.80440	5.641
150 Dibenz(a,h)anthracene	0.69283	0.82510	0.79417	0.76341	0.82612	0.82686	0.78808	6.724
151 Benzo(g,h,i)perylene	0.72665	0.83885	0.80311	0.75952	0.82321	0.83073	0.79701	5.602
199 3-Picoline	1.68757	1.69335	1.67584	1.79447	1.75336	1.72251	1.72118	2.646
200 N,N-Dimethylacetamide	0.83457	0.97910	0.99474	1.04215	1.03509	1.02548	0.98519	7.885
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.53620	0.74647	0.82423	0.89034	0.89057	0.75251	0.77339	17.096

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 07:46
 End Cal Date : 18-JUL-2000 19:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11374	0.13220	0.12440	0.12027	0.12474	0.12225	0.12293	4.927
211 1,1'-Biphenyl	1.48710	1.41414	1.33052	1.30025	1.30150	1.23984	1.34556	6.658
212 Atrazine	0.21732	0.21217	0.21037	0.19703	0.19373	0.18300	0.20227	6.490
213 2-Chloroacetophenone	0.73979	0.76191	0.74466	0.77572	0.75836	0.75896	0.75657	1.701
\$ 154 Nitrobenzene-d5	0.51316	0.52716	0.51612	0.50110	0.50716	0.48853	0.50887	2.611
\$ 155 2-Fluorobiphenyl	1.34577	1.33621	1.27323	1.23511	1.24368	1.18918	1.27053	4.797
\$ 156 Terphenyl-d14	1.13127	1.12598	1.12142	1.07214	1.17650	1.14086	1.12803	2.992
\$ 157 Phenol-d5	1.79029	1.81392	1.70483	1.68696	1.73743	1.65554	1.73150	3.537
\$ 158 2-Fluorophenol	1.20804	1.27056	1.28435	1.26338	1.31073	1.26497	1.26700	2.669
\$ 159 2,4,6-Tribromophenol	0.12003	0.14076	0.13732	0.14475	0.15804	0.15936	0.14338	10.160
\$ 186 2-Chlorophenol-d4	1.18945	1.20517	1.15648	1.11749	1.15531	1.10242	1.15439	3.438
\$ 187 1,2-Dichlorobenzene-d4	0.90415	0.87644	0.86374	0.81041	0.81761	0.77729	0.84161	5.649

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP019

Lab File ID: 7DF0718H

DFTPP Injection Date: 07/18/00

Instrument ID: A4HP7

DFTPP Injection Time: 1952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	46.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.0% of mass 198	2.1
441	Present, but less than mass 443	4.6
442	40.0 - 100.0% of mass 198	44.2
443	17.0 - 23.0% of mass 442	8.1 (18.2)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	7SM0718A	07/18/00	2012
02	ASTD016	ASTD016	7AM0718	07/18/00	2049
03	DG35DBLK	DG35D101	DG35D101	07/18/00	2126
04	DG35DCHK	DG35D102	DG35D102	07/18/00	2203
05	MPT-G4-GW-45	DG2M4101	DG2M4101	07/18/00	2240
06	MPT-G4-GW-45	DG2M4102	DG2M4102	07/18/00	2317
07	MPT-G4-GW-45	DG2M4103	DG2M4103	07/18/00	2354
08	MPT-G4-GW-46	DG2PN101	DG2PN101	07/19/00	0032
09	MPT-G4-GW-47	DG2Q9101	DG2Q9101	07/19/00	0109
10	MPT-G4-GW-48	DG2QE101	DG2QE101	07/19/00	0146
11	MPT-G4-GW-49	DG2QH101	DG2QH101	07/19/00	0223
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 18-JUL-2000 20:12
 Lab File ID: 7SM0718A.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.64668	1.73787	0.010	5.5	50.0
10 N-Nitrosodimethylamine	0.95309	0.99120	0.010	4.0	50.0
11 Ethyl methacrylate	1.41689	1.44717	0.010	2.1	50.0
12 3-Chloropropionitrile	0.62654	0.63103	0.010	0.7	50.0
13 Malononitrile	1.30108	1.29473	0.010	-0.5	50.0
209 Benzaldehyde	0.77339	0.78687	0.010	1.7	50.0
21 Aniline	2.32247	2.36023	0.010	1.6	50.0
22 Phenol	1.98995	1.98512	0.010	-0.2	20.0
23 bis(2-Chloroethyl)ether	1.41036	1.41404	0.010	0.3	50.0
24 2-Chlorophenol	1.25201	1.25746	0.010	0.4	50.0
26 1,3-Dichlorobenzene	1.36014	1.35511	0.010	-0.4	50.0
27 1,4-Dichlorobenzene	1.36044	1.39506	0.010	2.5	20.0
28 1,2-Dichlorobenzene	1.23861	1.25265	0.010	1.1	50.0
29 Benzyl Alcohol	0.96584	0.96404	0.010	-0.2	50.0
30 2-Methylphenol	1.33989	1.33844	0.010	-0.1	50.0
31 bis(2-Chloroisopropyl)ether	1.01893	1.12992	0.010	10.9	50.0
37 Acetophenone	1.96190	1.96598	0.010	0.2	50.0
32 N-Nitroso-di-n-propylamine	1.14327	1.13182	0.050	-1.0	50.0
192 4-Methylphenol	1.35818	1.35334	0.010	-0.4	50.0
34 Hexachloroethane	0.60928	0.61567	0.010	1.0	50.0
35 Nitrobenzene	0.53470	0.54246	0.010	1.5	50.0
41 Isophorone	0.85350	0.87805	0.010	2.9	50.0
42 2-Nitrophenol	0.18511	0.18671	0.010	0.9	20.0
43 2,4-Dimethylphenol	0.43485	0.44292	0.010	1.9	50.0
44 bis(2-Chloroethoxy)methane	0.50572	0.49590	0.010	-1.9	50.0
46 2,4-Toluediamene	0.08508	0.07241	0.010	-14.9	50.0
47 1,3,5-Trichlorobenzene	0.33546	0.34710	0.010	3.5	50.0
48 2,4-Dichlorophenol	0.29478	0.30004	0.010	1.8	20.0
49 Benzoic Acid	0.18087	0.17424	0.010	-3.7	50.0
50 1,2,4-Trichlorobenzene	0.31541	0.32955	0.010	4.5	50.0
51 Naphthalene	1.01929	1.05657	0.010	3.7	50.0
52 4-Chloroaniline	0.43008	0.43777	0.010	1.8	50.0
56 Hexachlorobutadiene	0.22404	0.22317	0.010	-0.4	20.0
210 Caprolactam	0.12293	0.12930	0.010	5.2	50.0
57 1,2,3-Trichlorobenzene	0.30505	0.30975	0.010	1.5	50.0

2nd Source + Continuing

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 18-JUL-2000 20:12
 Lab File ID: 7SM0718A.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.38932	0.39719	0.010	2.0	20.0
62 2-Methylnaphthalene	0.65052	0.66908	0.010	2.9	50.0
63 1-Methylnaphthalene	0.64472	0.65140	0.010	1.0	50.0
64 Hexachlorocyclopentadiene	0.35470	0.36018	0.050	1.5	50.0
66 2,4,6-Trichlorophenol	0.38871	0.38806	0.010	-0.2	20.0
67 2,4,5-Trichlorophenol	0.41533	0.41775	0.010	0.6	50.0
211 1,1'-Biphenyl	1.34556	1.35393	0.010	0.6	50.0
68 1,2,3,5-Tetrachlorobenzene	0.59736	0.61416	0.010	2.8	50.0
70 2-Chloronaphthalene	1.00854	1.03517	0.010	2.6	50.0
73 2-Nitroaniline	0.44976	0.44907	0.010	-0.2	50.0
74 1,2,3,4-Tetrachlorobenzene	0.56940	0.57649	0.010	1.2	50.0
76 Dimethylphthalate	1.26696	1.24371	0.010	-1.8	50.0
78 2,6-Dinitrotoluene	0.27934	0.29194	0.010	4.5	50.0
79 Acenaphthylene	1.79537	1.83412	0.010	2.2	50.0
80 1,2-Dinitrobenzene	0.15585	0.15820	0.010	1.5	50.0
81 3-Nitroaniline	0.30358	0.30028	0.010	-1.1	50.0
82 Acenaphthene	1.12762	1.14174	0.010	1.3	20.0
83 2,4-Dinitrophenol	0.13203	0.10572	0.050	-19.9	50.0
85 4-Nitrophenol	0.21311	0.19555	0.050	-8.2	50.0
86 Dibenzofuran	1.61730	1.63458	0.010	1.1	50.0
87 2,4-Dinitrotoluene	0.38759	0.40445	0.010	4.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.36884	0.37025	0.010	0.4	50.0
93 Diethylphthalate	1.34363	1.39869	0.010	4.1	50.0
94 Fluorene	1.25506	1.28115	0.010	2.1	50.0
95 4-Chlorophenyl-phenylether	0.70153	0.71884	0.010	2.5	50.0
96 4-Nitroaniline	0.25733	0.25303	0.010	-1.7	50.0
98 4,6-Dinitro-2-methylphenol	0.11580	0.10652	0.010	-8.0	50.0
99 N-Nitrosodiphenylamine	0.53100	0.54189	0.010	2.1	20.0
100 1,2-Diphenylhydrazine	0.94878	0.97637	0.010	2.9	50.0
106 4-Bromophenyl-phenylether	0.21209	0.21964	0.010	3.6	50.0
107 Hexachlorobenzene	0.21818	0.22027	0.010	1.0	50.0
212 Atrazine	0.20227	0.21575	0.010	6.7	50.0
111 Pentachlorophenol	0.12001	0.11265	0.010	-6.1	20.0
115 Phenanthrene	1.02294	1.04158	0.010	1.8	50.0
116 Anthracene	0.98482	1.04467	0.010	6.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 18-JUL-2000 20:12
 Lab File ID: 7SM0718A.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	RD	MAX RD
119 Carbazole	0.85876	0.85455	0.010	-0.5	50.0
120 Di-n-Butylphthalate	1.20859	1.27732	0.010	5.7	50.0
123 Fluoranthene	1.12237	1.11595	0.010	-0.6	20.0
124 Benzidine	0.58021	0.59235	0.010	2.1	50.0
125 Pyrene	1.76125	1.79530	0.010	1.9	50.0
131 Butylbenzylphthalate	0.73427	0.72606	0.010	-1.1	50.0
133 3,3'-Dimethoxybenzidine	0.23996	0.24403	0.010	1.7	50.0
135 3,3'-Dichlorobenzidine	0.38700	0.37877	0.010	-2.1	50.0
136 Benzo(a)Anthracene	1.32260	1.32553	0.010	0.2	50.0
137 Chrysene	1.31399	1.31311	0.010	-0.1	50.0
138 4,4'-Methylene bis(o-chloro	0.24636	0.23570	0.010	-4.3	50.0
139 bis(2-ethylhexyl)Phthalate	0.97358	0.98236	0.010	0.9	50.0
140 Di-n-octylphthalate	1.91440	1.99456	0.010	4.2	20.0
141 Benzo(b)fluoranthene	1.34778	1.39391	0.010	3.4	50.0
142 Benzo(k)fluoranthene	1.34948	1.40448	0.010	4.1	50.0
146 Benzo(a)pyrene	1.12702	1.15348	0.010	2.3	20.0
149 Indeno(1,2,3-cd)pyrene	0.80440	0.80807	0.010	0.5	50.0
150 Dibenz(a,h)anthracene	0.78808	0.76811	0.010	-2.5	50.0
151 Benzo(g,h,i)perylene	0.79701	0.77998	0.010	-2.1	50.0
\$ 154 Nitrobenzene-d5	0.50887	0.53217	0.010	4.6	50.0
\$ 155 2-Fluorobiphenyl	1.27053	1.29113	0.010	1.6	50.0
\$ 156 Terphenyl-d14	1.12803	1.16068	0.010	2.9	50.0
\$ 157 Phenol-d5	1.73150	1.71096	0.010	-1.2	50.0
\$ 158 2-Fluorophenol	1.26700	1.30937	0.010	3.3	50.0
\$ 159 2,4,6-Tribromophenol	0.14338	0.15021	0.010	4.8	50.0
\$ 186 2-Chlorophenol-d4	1.15439	1.16743	0.010	1.1	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.84161	0.86916	0.010	3.3	50.0
M 195 Cresols, total	2.69807	2.69178	0.010	-0.2	50.0
101 Diphenylamine	0.53100	0.54189	0.010	2.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 18-JUL-2000 20:49
 Lab File ID: 7AM0718.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	0.79917	0.75163	0.010	-5.9	50.0
8 Ethyl methanesulfonate	1.33346	1.25198	0.010	-6.1	50.0
14 2-Picoline	1.75665	1.65507	0.010	-5.8	50.0
15 N-Nitrosomethylethylamine	0.81031	0.75814	0.010	-6.4	50.0
16 Methyl methanesulfonate	1.07436	0.98266	0.010	-8.5	50.0
18 1,3-Dichloro-2-propanol	1.94012	1.78692	0.010	-7.9	50.0
19 N-Nitrosodiethylamine	0.73951	0.69560	0.010	-5.9	50.0
25 Pentachloroethane	0.54938	0.57606	0.010	4.9	50.0
36 N-Nitrosopyrrolidine	0.76884	0.71625	0.010	-6.8	50.0
37 Acetophenone	1.96190	2.09170	0.010	6.6	50.0
39 o-Toluidine	2.27397	2.22713	0.010	-2.1	50.0
40 N-Nitrosopiperidine	0.19143	0.18466	0.010	-3.5	50.0
45 O,O,O-Triethyl phosphorothi	0.18360	0.19460	0.010	6.0	50.0
53 a,a-Dimethyl-phenethylamine	0.78599	0.62742	0.010	-20.2	50.0
54 2,6-Dichlorophenol	0.27736	0.28778	0.010	3.8	50.0
55 Hexachloropropene	0.23009	0.24390	0.010	6.0	50.0
58 N-Nitrosodi-n-butylamine	0.30618	0.30493	0.010	-0.4	50.0
60 p-Phenylene diamine	0.36700	0.34134	0.010	-7.0	50.0
61 Safrole	0.27163	0.28120	0.010	3.5	50.0
65 1,2,4,5-Tetrachlorobenzene	0.60639	0.62761	0.010	3.5	50.0
71 Isosafrole 1	0.15406	0.15001	0.010	-2.6	50.0
M 188 Isosafrole, Total	1.07629	1.06095	0.010	-1.4	50.0
72 Isosafrole 2	0.92223	0.91094	0.010	-1.2	50.0
75 1,4-Naphthoquinone	0.43393	0.42740	0.010	-1.5	50.0
84 Pentachlorobenzene	0.48146	0.51435	0.010	6.8	50.0
89 1-Naphthylamine	1.10689	1.10178	0.010	-0.5	50.0
92 2-Naphthylamine	1.08926	1.07376	0.010	-1.4	50.0
90 Zinophos	0.37270	0.38253	0.010	2.6	50.0
102 Tetraethyl dithiopyrophosph	0.10149	0.11316	0.010	11.5	50.0
103 Diallate 1	0.71754	0.68712	0.010	-4.2	50.0
M 189 Diallate, Total	3.02337	3.11382	0.010	3.0	50.0
109 Diallate 2	0.13417	0.12387	0.010	-7.7	50.0
104 Phorate	0.14542	0.14494	0.010	-0.3	50.0
105 1,3,5-Trinitrobenzene	0.07527	0.08479	0.010	12.6	50.0
108 Phenacetin	0.39931	0.40939	0.010	2.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 18-JUL-2000 20:49
 Lab File ID: 7AM0718.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m

COMPOUND	RRF	RP16	MIN	RD	MAX
110 Dimethoate	0.36861	0.34372	0.010	-6.8	50.0
112 Pentachloronitrobenzene	0.08926	0.10703	0.010	19.9	50.0
113 4-Aminobiphenyl	0.60114	0.66393	0.010	10.4	50.0
114 Pronamide	0.32654	0.34999	0.010	7.2	50.0
117 Dinoseb	0.16425	0.17448	0.010	6.2	50.0
118 Disulfoton	0.52338	0.48426	0.010	-7.5	50.0
121 4-Nitroquinoline 1-oxide	0.07152	0.06738	0.010	-5.8	50.0
122 Methapyrilene	0.31049	0.23797	0.010	-23.4	50.0
126 Aramite 1	0.08437	0.09704	0.010	15.0	50.0
M 191 Aramite, Total	0.52645	0.63547	0.010	20.7	50.0
127 Aramite 2	0.11758	0.13271	0.010	12.9	50.0
128 p-Dimethylamino azobenzene	0.29702	0.33074	0.010	11.4	50.0
129 p-Chlorobenzilate	0.47616	0.52814	0.010	10.9	50.0
130 Famphur	0.33501	0.30871	0.010	-7.9	50.0
132 3,3'-Dimethylbenzidine	0.51262	0.57090	0.010	11.4	50.0
134 2-Acetylaminofluorene	0.38241	0.39105	0.010	2.3	50.0
143 7,12-dimethylbenz[a]anthrac	0.78184	0.69901	0.010	-10.6	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0<-
148 3-Methylcholanthrene	0.70215	0.59484	0.010	-15.3	50.0
193 3-Methylphenol	1.42522	1.40090	0.010	-1.7	50.0
69 1,4-Dinitrobenzene	0.21880	0.22400	0.010	2.4	50.0
77 m-Dinitrobenzene	0.24101	0.23909	0.010	-0.8	50.0
198 1,4-Dioxane	0.68194	0.63422	0.010	-7.0	50.0
88 2,3,4,6-Tetrachlorophenol	0.29765	0.31128	0.010	4.6	50.0
97 5-Nitro-o-toluidine	0.35154	0.35498	0.010	1.0	50.0
199 3-Picoline	1.72118	1.59931	0.010	-7.1	50.0
200 N,N-Dimethylacetamide	0.98519	0.84001	0.010	-14.7	50.0
213 2-Chloroacetophenone	0.75657	0.74237	0.010	-1.9	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP019

Lab File ID: 7DF0718G

DFTPP Injection Date: 07/18/00

Instrument ID: A4HP7

DFTPP Injection Time: 1552

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.7
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	49.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	46.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	6.3
442	40.0 - 100.0% of mass 198	42.5
443	17.0 - 23.0% of mass 442	7.7 (18.2)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	7SML0718	07/18/00	1612
02	SSTD008	SSTD008	7SM0718	07/18/00	1650
03	SSTD002	SSTD002	7SL0718	07/18/00	1727
04	SSTD012	SSTD012	7SMH0718	07/18/00	1804
05	SSTD016	SSTD016	7SH0718	07/18/00	1842
06	SSTD020	SSTD020	7SHH0718	07/18/00	1919
07					
08					
09					
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18					
19					
20					
21					
22					

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019
 Lab File ID: 7DF0721B DFTPP Injection Date: 07/21/00
 Instrument ID: A4HP7 DFTPP Injection Time: 1055

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.8
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	50.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	27.4
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	11.7
442	40.0 - 100.0% of mass 198	76.7
443	17.0 - 23.0% of mass 442	15.6 (20.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SM0721	07/21/00	1115
02	ASTD008	ASTD008	7AM0721	07/21/00	1152
03	ASTD005	ASTD005	7AML0721	07/21/00	1229
04	ASTD002	ASTD002	7AL0721	07/21/00	1305
05	ASTD012	ASTD012	7AMH0721	07/21/00	1342
06	ASTD016	ASTD016	7AH0721	07/21/00	1418
07	ASTD020	ASTD020	7AHH0721	07/21/00	1454
08	DG16XBLK	DG16X101	DG16X101	07/21/00	1529
09	DG16XCHK	DG16X102	DG16X102	07/21/00	1606
10	MPT-G4-GW-41	DG0TK101	DG0TK101	07/21/00	1756
11	MPT-G4-GW-41	DG0TK10W	DG0TK10W	07/21/00	1833
12	MPT-G4-GW-41	DG0TK10X	DG0TK10X	07/21/00	1910
13	MPT-G4-GW-42	DG0TV101	DG0TV101	07/21/00	1946
14	MPT-G4-GW-43	DG0TX101	DG0TX101	07/21/00	2023
15	MPT-G4-GW-44	DG0V0101	DG0V0101	07/21/00	2100
16					
17					
18					
19					
20					
21					
22					

At 7/24

Report Date : 21-Jul-2000 15:28

Page 1

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUL-2000 10:40
 End Cal Date : 21-JUL-2000 14:54
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m
 Cal Date : 21-Jul-2000 15:27 gruberj
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7AL0721.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7AML0721.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7AM0721.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7AMH0721.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7AH0721.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7AHH0721.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.70364	0.70273	0.78637	0.76901	0.71089	0.76156	0.73903	5.066
7 N-Nitrosomorpholine	1.01932	1.02228	1.00343	1.06124	1.00588	1.02198	1.02235	2.029
8 Ethyl methanesulfonate	1.54925	1.59059	1.61161	1.67143	1.61401	1.62189	1.60980	2.485
9 Pyridine	1.99191	2.26499	2.18282	2.18152	2.22308	2.16687	2.16853	4.319
10 N-Nitrosodimethylamine	1.35397	1.34140	1.35639	1.31910	1.33293	1.31971	1.33725	1.215
11 Ethyl methacrylate	1.96889	1.97369	1.94405	1.92922	1.96754	1.93532	1.95312	0.985
12 3-Chloropropionitrile	0.92052	0.93965	0.91479	0.89026	0.88836	0.89260	0.90770	2.280
13 Malononitrile	1.91704	1.82662	1.85674	1.84376	1.88146	1.75066	1.84605	3.054
14 2-Picoline	2.02600	1.96385	2.02374	2.12854	1.96064	2.06307	2.02764	3.120
15 N-Nitrosomethyl ethylamine	0.88349	0.89768	0.93313	0.97261	0.92936	0.93435	0.92510	3.387
16 Methyl methanesulfonate	1.35698	1.36572	1.28727	1.43087	1.35837	1.34598	1.35753	3.378
18 1,3-Dichloro-2-propanol	2.19407	2.23788	2.27754	2.38685	2.28445	2.28508	2.27765	2.818
19 N-Nitrosodiethylamine	0.81130	0.85892	0.87336	0.92281	0.87741	0.86823	0.86867	4.124
21 Aniline	2.94169	2.93275	2.94957	2.85986	2.97366	2.84405	2.91693	1.796
22 Phenol	2.58023	2.46864	2.52323	2.46199	2.54079	2.42880	2.50061	2.272
23 bis(2-Chloroethyl) ether	1.85122	1.75331	1.75473	1.71348	1.76606	1.68788	1.75445	3.185
24 2-Chlorophenol	1.40295	1.36739	1.35204	1.34438	1.39036	1.33411	1.36520	1.975
25 Pentachloroethane	0.53446	0.51687	0.53597	0.55940	0.54322	0.55016	0.54001	2.711
26 1,3-Dichlorobenzene	1.53644	1.48762	1.45427	1.47805	1.52417	1.47259	1.49219	2.124
27 1,4-Dichlorobenzene	1.53688	1.55947	1.48127	1.48671	1.53160	1.48163	1.51293	2.243
28 1,2-Dichlorobenzene	1.46368	1.38746	1.39015	1.35098	1.40850	1.34178	1.39042	3.155
29 Benzyl Alcohol	1.10918	1.06627	1.09231	1.10060	1.16030	1.11142	1.10668	2.794
30 2-Methylphenol	1.58644	1.54301	1.55892	1.52682	1.56930	1.49925	1.54729	2.023
31 bis(2-Chloroisopropyl) ether	1.61216	1.52406	1.69843	1.50770	1.54729	1.48196	1.56193	5.133
32 N-Nitroso-di-n-propylamine	1.71973	1.61286	1.62636	1.59094	1.62929	1.57122	1.62507	3.161

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 20-JUL-2000 10:40
 End Cal Date : 21-JUL-2000 14:54
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m
 Cal Date : 21-Jul-2000 15:27 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	3.27775	3.17494	3.22079	3.13767	3.24328	3.10641	3.19347	2.047
192 4-Methylphenol	1.69131	1.63193	1.66187	1.61085	1.67398	1.60717	1.64618	2.109
193 3-Methylphenol	1.61157	1.73969	1.76445	1.85780	1.80638	1.81666	1.76609	4.882
34 Hexachloroethane	0.65841	0.64605	0.65605	0.64237	0.66834	0.63616	0.65123	1.817
35 Nitrobenzene	0.63933	0.64365	0.61501	0.60131	0.62277	0.60326	0.62089	2.872
36 N-Nitrosopyrrolidine	0.76943	0.82292	0.84713	0.89823	0.85690	0.88053	0.84586	5.401
37 Acetophenone	2.24941	2.34820	2.40904	2.52686	2.43185	2.44734	2.40212	3.939
39 o-Toluidine	2.55043	2.67421	2.73464	2.79717	2.71556	2.74028	2.70205	3.119
40 N-Nitrosopiperidine	0.19648	0.19545	0.19267	0.20460	0.20322	0.20458	0.19950	2.634
41 Isophorone	0.99944	1.01639	1.01497	0.98411	1.00785	0.96733	0.99835	1.931
42 2-Nitrophenol	0.17433	0.17849	0.18127	0.18229	0.19243	0.18958	0.18306	3.715
43 2,4-Dimethylphenol	0.45226	0.47326	0.45431	0.45345	0.47291	0.44698	0.45886	2.465
44 bis(2-Chloroethoxy)methane	0.59952	0.61126	0.56621	0.58158	0.60577	0.57682	0.59019	3.033
45 O,O,O-Triethyl phosphorothioa	0.17420	0.18172	0.17738	0.18818	0.18697	0.18269	0.18186	2.966
46 2,4-Toluenediamene	0.06002	0.06796	0.04380	0.07400	0.08571	0.07428	0.06763	21.301
47 1,3,5-Trichlorobenzene	0.32662	0.33524	0.32586	0.31580	0.33026	0.31542	0.32487	2.433
48 2,4-Dichlorophenol	0.29100	0.29263	0.28295	0.28059	0.29307	0.28087	0.28685	2.089
49 Benzoic Acid	+++++	0.15329	0.16662	0.16616	0.18998	0.18205	0.17162	8.427
50 1,2,4-Trichlorobenzene	0.29903	0.30689	0.31188	0.29396	0.30501	0.29308	0.30164	2.493
51 Naphthalene	1.06993	1.07048	1.05142	1.02089	1.05779	1.01099	1.04692	2.413
52 4-Chloroaniline	0.42367	0.45111	0.43574	0.43486	0.45488	0.43708	0.43956	2.621
53 a,a-Dimethyl-phenethylamine	0.67429	0.82510	0.72450	0.82278	0.81263	0.88308	0.79040	9.662
54 2,6-Dichlorophenol	0.26301	0.27426	0.27290	0.28933	0.28706	0.28566	0.27870	3.697
55 Hexachloropropene	0.19153	0.20112	0.20187	0.22665	0.22474	0.23037	0.21272	7.728
56 Hexachlorobutadiene	0.20241	0.20163	0.18791	0.18649	0.19478	0.18795	0.19353	3.715
57 1,2,3-Trichlorobenzene	0.31117	0.30707	0.29390	0.29271	0.30669	0.29458	0.30102	2.711
58 N-Nitrosodi-n-butylamine	0.36436	0.38208	0.37791	0.39563	0.38837	0.39374	0.38368	3.028
59 4-Chloro-3-Methylphenol	0.41696	0.42756	0.43211	0.41466	0.44036	0.42535	0.42617	2.242
60 p-Phenylene diamine	0.29123	0.35735	0.36288	0.42819	0.43022	0.45922	0.38818	16.049
61 Saffrole	0.27925	0.27734	0.28045	0.29166	0.29290	0.29219	0.28563	2.565
62 2-Methylnaphthalene	0.65546	0.65738	0.65971	0.63242	0.66203	0.63588	0.65048	1.981
63 1-Methylnaphthalene	0.66210	0.66115	0.64753	0.63095	0.64977	0.62919	0.64678	2.198
64 Hexachlorocyclopentadiene	0.27573	0.32670	0.34539	0.35593	0.39236	0.37182	0.34466	11.760

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUL-2000 10:40
 End Cal Date : 21-JUL-2000 14:54
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m
 Cal Date : 21-Jul-2000 15:27 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.57817	0.55776	0.58305	0.61188	0.58051	0.59942	0.58513	3.191
66 2,4,6-Trichlorophenol	0.36641	0.36832	0.36991	0.36720	0.38504	0.37382	0.37178	1.884
67 2,4,5-Trichlorophenol	0.39140	0.39033	0.38674	0.38686	0.40847	0.39650	0.39338	2.088
68 1,2,3,5-Tetrachlorobenzene	0.57701	0.58385	0.57621	0.55943	0.57464	0.54977	0.57015	2.249
69 1,4-Dinitrobenzene	0.15830	0.18178	0.19888	0.21170	0.21095	0.21263	0.19571	11.143
70 2-Chloronaphthalene	1.11538	1.10144	1.08455	1.06578	1.10404	1.05396	1.08753	2.196
71 Isosafrole 1	0.14510	0.13925	0.14491	0.15243	0.14649	0.15345	0.14694	3.594
M 188 Isosafrole, Total	1.07465	1.03965	1.09150	1.12753	1.08706	1.13033	1.09179	3.119
72 Isosafrole 2	0.92954	0.90040	0.94659	0.97509	0.94058	0.97688	0.94485	3.057
73 2-Nitroaniline	0.57018	0.58995	0.57745	0.58856	0.60946	0.58598	0.58693	2.274
74 1,2,3,4-Tetrachlorobenzene	0.54456	0.54778	0.52658	0.52132	0.55026	0.51703	0.53459	2.733
75 1,4-Naphthoquinone	0.34529	0.40046	0.40805	0.42070	0.40555	0.41651	0.39943	6.891
76 Dimethylphthalate	1.30096	1.30417	1.26746	1.25282	1.28139	1.21743	1.27070	2.567
77 m-Dinitrobenzene	0.18331	0.21188	0.22832	0.22834	0.23106	0.22529	0.21803	8.402
78 2,6-Dinitrotoluene	0.27420	0.29001	0.28753	0.28602	0.30361	0.29467	0.28934	3.372
79 Acenaphthylene	1.82669	1.85273	1.83725	1.80818	1.88786	1.77390	1.83110	2.121
80 1,3-Dinitrobenzene	0.14252	0.14773	0.14909	0.14601	0.15619	0.15061	0.14869	3.100
81 3-Nitroaniline	0.26490	0.28685	0.28870	0.30639	0.31328	0.31036	0.29508	6.271
82 Acenaphthene	1.18563	1.18287	1.15566	1.14795	1.19297	1.13352	1.16643	2.059
83 2,4-Dinitrophenol	+++++	0.07509	0.09753	0.11492	0.14019	0.14028	0.11360	24.750
84 Pentachlorobenzene	0.52522	0.50675	0.51754	0.54770	0.52508	0.53579	0.52635	2.700
85 4-Nitrophenol	0.15791	0.17814	0.18656	0.19372	0.20506	0.20176	0.18719	9.396
86 Dibenzofuran	1.59785	1.61793	1.56383	1.54689	1.60020	1.52670	1.57557	2.243
87 2,4-Dinitrotoluene	0.39372	0.40929	0.41183	0.41029	0.43264	0.41513	0.41215	3.031
88 2,3,4,6-Tetrachlorophenol	0.19650	0.25617	0.27841	0.29490	0.29387	0.30977	0.27160	15.109
89 1-Naphthylamine	1.03626	1.07286	1.11924	1.18952	1.16173	1.19485	1.12908	5.729
90 Zinophos	0.40363	0.42141	0.41897	0.42887	0.41083	0.41042	0.41569	2.189
91 2,3,5,6-Tetrachlorophenol	0.31462	0.32555	0.33539	0.34165	0.36360	0.35619	0.33950	5.423
92 2-Naphthylamine	1.05528	1.06121	1.12070	1.12574	1.09189	1.09370	1.09142	2.674
93 Diethylphthalate	1.35037	1.34215	1.33575	1.27126	1.30049	1.23535	1.30589	3.491
94 Fluorene	1.33997	1.35521	1.34326	1.32347	1.37713	1.31838	1.34290	1.601
95 4-Chlorophenyl-phenylether	0.66720	0.66179	0.66557	0.64268	0.66464	0.63817	0.65668	1.948
96 4-Nitroaniline	0.21238	0.24368	0.25010	0.25872	0.27441	0.26428	0.25059	8.613

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUL-2000 10:40
 End Cal Date : 21-JUL-2000 14:54
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m
 Cal Date : 21-Jul-2000 15:27 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.25946	0.32089	0.33226	0.34406	0.32803	0.35647	0.32353	10.450
98 4,6-Dinitro-2-methylphenol	++++	0.09824	0.10994	0.11869	0.13804	0.13403	0.11979	13.834|<-
99 N-Nitrosodiphenylamine	0.59630	0.61123	0.58503	0.58694	0.58916	0.55853	0.58786	2.935
100 1,2-Diphenylhydrazine	1.32728	1.31553	1.30627	1.25067	1.28587	1.17492	1.27676	4.439
101 Diphenylamine	0.59630	0.61123	0.58503	0.58694	0.58916	0.55853	0.58786	2.935
102 Tetraethyl dithiopyrophosphat	0.10801	0.10976	0.11056	0.11361	0.11216	0.10657	0.11011	2.358
103 Diallate 1	0.97933	0.92467	0.94148	0.95040	0.92147	0.89281	0.93503	3.141
M 189 Diallate, Total	3.89409	4.08550	3.90069	3.99697	3.81761	3.66474	3.89327	3.735
104 Phorate	0.17543	0.16888	0.17404	0.17853	0.17600	0.17066	0.17392	2.056
105 1,3,5-Trinitrobenzene	++++	0.06760	0.07514	0.08399	0.08616	0.09318	0.08121	12.274|<-
106 4-Bromophenyl-phenylether	0.25176	0.24784	0.24208	0.24075	0.24525	0.23148	0.24319	2.871
107 Hexachlorobenzene	0.26683	0.26630	0.26306	0.25623	0.26825	0.25375	0.26240	2.302
108 Phenacetin	0.35943	0.41617	0.46341	0.48069	0.47040	0.49414	0.44737	11.306
109 Diallate 2	0.15763	0.15526	0.15724	0.16558	0.15920	0.15376	0.15809	2.606
110 Dimethoate	0.39359	0.41314	0.42083	0.41335	0.40722	0.40835	0.40941	2.228
111 Pentachlorophenol	0.09613	0.11219	0.13542	0.12960	0.14269	0.13962	0.12594	14.417
112 Pentachloronitrobenzene	0.10132	0.10179	0.10812	0.10980	0.11167	0.10709	0.10663	3.967
113 4-Aminobiphenyl	0.63375	0.61238	0.71229	0.73867	0.73369	0.76516	0.69933	8.836
114 Pronamide	0.33268	0.33469	0.34412	0.35570	0.34436	0.35173	0.34388	2.638
115 Phenanthrene	1.17425	1.17306	1.15841	1.13748	1.18662	1.07560	1.15090	3.523
116 Anthracene	1.11048	1.11292	1.14424	1.07339	1.11866	1.06593	1.10427	2.669
117 Dinoseb	++++	0.12952	0.15481	0.17627	0.18745	0.20444	0.17050	17.094|<-
118 Disulfoton	0.60345	0.60149	0.61631	0.62897	0.61339	0.60880	0.61207	1.637
119 Carbazole	0.85242	0.86212	0.87068	0.83841	0.93097	0.81441	0.86150	4.568
120 Di-n-Butylphthalate	1.35083	1.34794	1.33022	1.27958	1.29212	1.19510	1.29930	4.524
121 4-Nitroquinoline 1-oxide	++++	0.03627	0.05334	0.05836	0.06544	0.08322	0.05933	28.911|<-
122 Methapyrilene	0.41354	0.40262	0.33963	0.36376	0.32557	0.34517	0.36505	9.774
123 Fluoranthene	1.05974	1.09060	1.08821	1.04134	1.13708	0.99051	1.06793	4.677
124 Benzidine	++++	0.44316	0.51356	0.56528	0.60981	0.60429	0.54722	12.747|<-
125 Pyrene	1.54519	1.52974	1.50025	1.38952	1.49006	1.40108	1.47597	4.448
126 Aramite 1	0.08526	0.09177	0.09142	0.09987	0.09811	0.09126	0.09295	5.699
M 191 Aramite, Total	0.49864	0.56620	0.56871	0.59591	0.55449	0.60459	0.56476	6.650
127 Aramite 2	0.11709	0.12875	0.12738	0.13967	0.13094	0.12487	0.12812	5.783

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUL-2000 10:40
 End Cal Date : 21-JUL-2000 14:54
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\00721a.b\8270c.m
 Cal Date : 21-Jul-2000 15:27 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	t RSD
128 p-Dimethylamino azobenzene	0.28154	0.30575	0.30764	0.33943	0.32662	0.32185	0.31380	6.420
129 p-Chlorobenzilate	0.54179	0.53746	0.52897	0.57754	0.54614	0.52657	0.54308	3.397
130 Pamphur	0.49843	0.43783	0.35027	0.24706	0.16844	0.14336	0.30756	47.162
131 Butylbenzylphthalate	0.67506	0.63812	0.61830	0.59942	0.64248	0.60285	0.62937	4.527
132 3,3'-Dimethylbenzidine	0.49583	0.45166	0.52262	0.50909	0.50093	0.48433	0.49407	4.945
133 3,3'-Dimethoxybenzidine	0.19595	0.22877	0.23170	0.26660	0.25971	0.25620	0.23982	11.023
134 2-Acetylaminofluorene	0.26821	0.35317	0.40749	0.40763	0.42131	0.44669	0.38408	16.788
135 3,3'-Dichlorobenzidine	0.38188	0.40842	0.40595	0.41772	0.43307	0.42540	0.41207	4.358
136 Benzo(a)Anthracene	1.29003	1.27359	1.24859	1.21016	1.27911	1.22092	1.25373	2.611
137 Chrysene	1.20013	1.21224	1.16929	1.14405	1.18768	1.15231	1.17762	2.292
138 4,4'-Methylene bis(o-chloroan	0.21429	0.22686	0.22457	0.23164	0.24047	0.23124	0.22818	3.821
139 bis(2-ethylhexyl)Phthalate	0.90208	0.87428	0.85695	0.82577	0.87042	0.80724	0.85612	4.032
140 Di-n-octylphthalate	1.71849	1.58892	1.68651	1.59347	1.84025	1.60115	1.67147	5.909
141 Benzo(b)fluoranthene	1.37866	1.34323	1.33994	1.31543	1.40152	1.33046	1.35154	2.383
142 Benzo(k)fluoranthene	1.37955	1.34363	1.41459	1.31649	1.43971	1.33438	1.37139	3.536
143 7,12-dimethylbens(a)anthracen	0.84243	0.89888	0.70912	1.00384	0.99182	0.96433	0.90174	12.457
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.15929	1.14882	1.15218	1.12062	1.18581	1.12852	1.14921	2.021
148 3-Methylcholanthrene	0.67632	0.69949	0.61087	0.79226	0.79517	0.81333	0.73124	11.121
149 Indeno(1,2,3-cd)pyrene	0.90388	0.89805	0.94163	0.89846	0.86524	0.88893	0.89936	2.761
150 Dibenz(a,h)anthracene	0.90455	0.86938	0.91179	0.90488	0.84792	0.90032	0.88981	2.848
151 Benzo(g,h,i)perylene	0.92683	0.89093	0.92404	0.89705	0.85442	0.87465	0.89466	3.137
199 3-Picoline	1.59366	1.74358	1.83678	1.99815	1.90328	1.92104	1.83275	7.917
200 N,N-Dimethylacetamide	1.21846	1.23582	1.25621	1.33162	1.28947	1.30266	1.27237	3.376
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.80609	0.91432	1.09650	1.17273	1.17287	0.98221	1.02412	14.536

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUL-2000 10:40
 End Cal Date : 21-JUL-2000 14:54
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m
 Cal Date : 21-Jul-2000 15:27 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.12726	0.13325	0.13705	0.13254	0.14020	0.13427	0.13410	3.267
211 1,1'-Biphenyl	1.41332	1.44146	1.38424	1.38568	1.44577	1.36476	1.40587	2.355
212 Acrazine	0.22063	0.22560	0.21659	0.20512	0.20268	0.18842	0.20984	6.544
213 2-Chloroacetophenone	0.75207	0.81911	0.79577	0.83316	0.83581	0.83821	0.81236	4.122
\$ 154 Nitrobenzene-d5	0.60897	0.60810	0.61038	0.58324	0.60365	0.58063	0.59916	2.262
\$ 155 2-Fluorobiphenyl	1.26319	1.25595	1.23354	1.22176	1.26839	1.20084	1.24061	2.134
\$ 156 Terphenyl-d14	1.07694	1.07653	1.05234	0.99026	1.05569	1.00128	1.04217	3.601
\$ 157 Phenol-d5	2.09947	2.05283	2.03801	2.03724	2.12156	2.04015	2.06488	1.766
\$ 158 2-Fluorophenol	1.46793	1.50004	1.47898	1.47284	1.52827	1.47929	1.48789	1.520
\$ 159 2,4,6-Tribromophenol	0.16362	0.17012	0.17435	0.18009	0.18799	0.18559	0.17696	5.285
\$ 186 2-Chlorophenol-d4	1.28178	1.22652	1.23830	1.20232	1.25404	1.20362	1.23443	2.480
\$ 187 1,2-Dichlorobenzene-d4	0.92294	0.88548	0.90009	0.86301	0.88498	0.85869	0.88586	2.690

CH AZUC

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\00721a.b\7SM0721.D
Report Date: 21-Jul-2000 11:53

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-JUL-2000 11:15
Lab File ID: 7SM0721.D Init. Cal. Date(s): 20-JUL-2000 20-JUL-2000
Analysis Type: Init. Cal. Times: 10:40 13:45
Lab Sample ID: sstd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	2.16853	2.09134	0.010	-3.6	50.0
10 N-Nitrosodimethylamine	1.33725	1.30892	0.010	-2.1	50.0
11 Ethyl methacrylate	1.95312	1.91425	0.010	-2.0	50.0
12 3-Chloropropionitrile	0.90770	0.86290	0.010	-4.9	50.0
13 Malononitrile	1.84605	1.80437	0.010	-2.3	50.0
209 Benzaldehyde	1.02412	1.05311	0.010	2.8	50.0
21 Aniline	2.91693	2.89718	0.010	-0.7	50.0
22 Phenol	2.50061	2.46124	0.010	-1.6	20.0
23 bis(2-Chloroethyl)ether	1.75445	1.71905	0.010	-2.0	50.0
24 2-Chlorophenol	1.36520	1.33650	0.010	-2.1	50.0
26 1,3-Dichlorobenzene	1.49219	1.43141	0.010	-4.1	50.0
27 1,4-Dichlorobenzene	1.51293	1.48122	0.010	-2.1	20.0
28 1,2-Dichlorobenzene	1.39042	1.34121	0.010	-3.5	50.0
29 Benzyl Alcohol	1.10668	1.10124	0.010	-0.5	50.0
30 2-Methylphenol	1.54729	1.51346	0.010	-2.2	50.0
31 bis(2-Chloroisopropyl)ether	1.56193	1.64105	0.010	5.1	50.0
37 Acetophenone	2.34207	2.28073	0.010	-2.6	50.0
32 N-Nitroso-di-n-propylamine	1.62507	1.58204	0.050	-2.6	50.0
192 4-Methylphenol	1.64618	1.59420	0.010	-3.2	50.0
34 Hexachloroethane	0.65123	0.64365	0.010	-1.2	50.0
35 Nitrobenzene	0.62089	0.62568	0.010	0.8	50.0
41 Isophorone	0.99835	1.01140	0.010	1.3	50.0
42 2-Nitrophenol	0.18306	0.18531	0.010	1.2	20.0
43 2,4-Dimethylphenol	0.45886	0.45979	0.010	0.2	50.0
44 bis(2-Chloroethoxy)methane	0.59019	0.57363	0.010	-2.8	50.0
46 2,4-Toluenediamine	0.06763	0.07622	0.010	12.7	50.0
47 1,3,5-Trichlorobenzene	0.32487	0.32641	0.010	0.5	50.0
48 2,4-Dichlorophenol	0.28685	0.28226	0.010	-1.6	20.0
49 Benzoic Acid	0.17162	0.16722	0.010	-2.6	50.0
50 1,2,4-Trichlorobenzene	0.30164	0.30985	0.010	2.7	50.0
51 Naphthalene	1.04692	1.05889	0.010	1.1	50.0
52 4-Chloroaniline	0.43956	0.43511	0.010	-1.0	50.0
56 Hexachlorobutadiene	0.19353	0.19333	0.010	-0.1	20.0
210 Caprolactam	0.13410	0.13503	0.010	0.7	50.0
57 1,2,3-Trichlorobenzene	0.30102	0.29365	0.010	-2.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-JUL-2000 11:15
 Lab File ID: 7SM0721.D Init. Cal. Date(s): 20-JUL-2000 20-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 13:45
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.42617	0.43387	0.010	1.8	20.0
62 2-Methylnaphthalene	0.65048	0.66687	0.010	2.5	50.0
63 1-Methylnaphthalene	0.64678	0.65543	0.010	1.3	50.0
64 Hexachlorocyclopentadiene	0.34466	0.35726	0.050	3.7	50.0
66 2,4,6-Trichlorophenol	0.37178	0.37461	0.010	0.8	20.0
67 2,4,5-Trichlorophenol	0.39338	0.38949	0.010	-1.0	50.0
211 1,1'-Biphenyl	1.40587	1.38971	0.010	-1.1	50.0
68 1,2,3,5-Tetrachlorobenzene	0.57015	0.56019	0.010	-1.7	50.0
70 2-Chloronaphthalene	1.08753	1.11483	0.010	2.5	50.0
73 2-Nitroaniline	0.58693	0.58894	0.010	0.3	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53459	0.52315	0.010	-2.1	50.0
76 Dimethylphthalate	1.27070	1.28722	0.010	1.3	50.0
78 2,6-Dinitrotoluene	0.28934	0.28367	0.010	-2.0	50.0
79 Acenaphthylene	1.83110	1.85030	0.010	1.0	50.0
80 1,2-Dinitrobenzene	0.14869	0.13882	0.010	-6.6	50.0
81 3-Nitroaniline	0.29508	0.29424	0.010	-0.3	50.0
82 Acenaphthene	1.16643	1.19737	0.010	2.7	20.0
83 2,4-Dinitrophenol	0.11360	0.09102	0.050	-19.9	50.0
85 4-Nitrophenol	0.18719	0.20398	0.050	9.0	50.0
86 Dibenzofuran	1.57557	1.61272	0.010	2.4	50.0
87 2,4-Dinitrotoluene	0.41215	0.40261	0.010	-2.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.33950	0.33880	0.010	-0.2	50.0
93 Diethylphthalate	1.30589	1.29787	0.010	-0.6	50.0
94 Fluorene	1.34290	1.38142	0.010	2.9	50.0
95 4-Chlorophenyl-phenylether	0.65668	0.68000	0.010	3.6	50.0
96 4-Nitroaniline	0.25059	0.26434	0.010	5.5	50.0
98 4,6-Dinitro-2-methylphenol	0.11979	0.09891	0.010	-17.4	50.0
99 N-Nitrosodiphenylamine	0.58786	0.56126	0.010	-4.5	20.0
100 1,2-Diphenylhydrazine	1.27676	1.29759	0.010	1.6	50.0
106 4-Bromophenyl-phenylether	0.24319	0.24287	0.010	-0.1	50.0
107 Hexachlorobenzene	0.26240	0.25689	0.010	-2.1	50.0
212 Atrazine	0.20984	0.21251	0.010	1.3	50.0
111 Pentachlorophenol	0.12594	0.13508	0.010	7.3	20.0
115 Phenanthrene	1.15090	1.13823	0.010	-1.1	50.0
116 Anthracene	1.10427	1.14735	0.010	3.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-JUL-2000 11:15
 Lab File ID: 7SM0721.D Init. Cal. Date(s): 20-JUL-2000 20-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 13:45
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.86150	0.89682	0.010	4.1	50.0
120 Di-n-Butylphthalate	1.29930	1.28575	0.010	-1.0	50.0
123 Fluoranthene	1.06791	1.15024	0.010	7.7	20.0
124 Benzidine	0.54722	0.53202	0.010	-2.8	50.0
125 Pyrene	1.47597	1.42848	0.010	-3.2	50.0
131 Butylbenzylphthalate	0.62937	0.61484	0.010	-2.3	50.0
133 3,3'-Dimethoxybenzidine	0.23982	0.22548	0.010	-6.0	50.0
135 3,3'-Dichlorobenzidine	0.41207	0.39692	0.010	-3.7	50.0
136 Benzo(a)Anthracene	1.25373	1.24117	0.010	-1.0	50.0
137 Chrysene	1.17762	1.16015	0.010	-1.5	50.0
138 4,4'-Methylene bis(o-chloro	0.22818	0.22069	0.010	-3.3	50.0
139 bis(2-ethylhexyl)Phthalate	0.85612	0.84465	0.010	-1.3	50.0
140 Di-n-octylphthalate	1.67147	1.71720	0.010	2.7	20.0
141 Benzo(b)fluoranthene	1.35154	1.35691	0.010	0.4	50.0
142 Benzo(k)fluoranthene	1.37139	1.34168	0.010	-2.2	50.0
146 Benzo(a)pyrene	1.14921	1.12059	0.010	-2.5	20.0
149 Indeno(1,2,3-cd)pyrene	0.89936	0.86916	0.010	-3.4	50.0
150 Dibenz(a,h)anthracene	0.88981	0.87488	0.010	-1.7	50.0
151 Benzo(g,h,i)perylene	0.89466	0.83518	0.010	-6.6	50.0
\$ 154 Nitrobenzene-d5	0.59916	0.61221	0.010	2.2	50.0
\$ 155 2-Fluorobiphenyl	1.24061	1.24149	0.010	0.1	50.0
\$ 156 Terphenyl-d14	1.04217	0.99005	0.010	-5.0	50.0
\$ 157 Phenol-d5	2.06488	1.97107	0.010	-4.5	50.0
\$ 158 2-Fluorophenol	1.48789	1.42288	0.010	-4.4	50.0
\$ 159 2,4,6-Tribromophenol	0.17696	0.18196	0.010	2.8	50.0
\$ 186 2-Chlorophenol-d4	1.23443	1.20185	0.010	-2.6	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.88586	0.89919	0.010	1.5	50.0
M 195 Cresols, total	3.19347	3.10766	0.010	-2.7	50.0
101 Diphenylamine	0.58786	0.56126	0.010	-4.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.1 Injection Date: 21-JUL-2000 11:52
 Lab File ID: 7AM0721.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.02235	1.00343	0.010	-1.9	50.0
8 Ethyl methanesulfonate	1.60980	1.61161	0.010	0.1	50.0
14 2-Picoline	2.02764	2.02374	0.010	-0.2	50.0
15 N-Nitrosomethylethylamine	0.92510	0.93313	0.010	0.9	50.0
16 Methyl methanesulfonate	1.35753	1.28727	0.010	-5.2	50.0
18 1,3-Dichloro-2-propanol	2.27765	2.27754	0.010	-0.0	50.0
19 N-Nitrosodiethylamine	0.86867	0.87336	0.010	0.5	50.0
25 Pentachloroethane	0.54001	0.53597	0.010	-0.7	50.0
36 N-Nitrosopyrrolidine	0.84586	0.84713	0.010	0.2	50.0
37 Acetophenone	2.40212	2.40904	0.010	0.3	50.0
39 o-Toluidine	2.70205	2.73464	0.010	1.2	50.0
40 N-Nitrosopiperidine	0.19950	0.19267	0.010	-3.4	50.0
45 O,O,O-Triethyl phosphorothi	0.18186	0.17738	0.010	-2.5	50.0
53 a,a-Dimethyl-phenethylamine	0.79040	0.72450	0.010	-8.3	50.0
54 2,6-Dichlorophenol	0.27870	0.27290	0.010	-2.1	50.0
55 Hexachloropropene	0.21272	0.20187	0.010	-5.1	50.0
58 N-Nitrosodi-n-butylamine	0.38368	0.37791	0.010	-1.5	50.0
60 p-Phenylene diamine	0.38818	0.36288	0.010	-6.5	50.0
61 Safrole	0.28563	0.28045	0.010	-1.8	50.0
65 1,2,4,5-Tetrachlorobenzene	0.58513	0.58305	0.010	-0.4	50.0
71 Isosafrole 1	0.14694	0.14491	0.010	-1.4	50.0
M 188 Isosafrole, Total	1.09179	1.09150	0.010	-0.0	50.0
72 Isosafrole 2	0.94485	0.94659	0.010	0.2	50.0
75 1,4-Naphthoquinone	0.39943	0.40805	0.010	2.2	50.0
84 Pentachlorobenzene	0.52635	0.51754	0.010	-1.7	50.0
89 1-Naphthylamine	1.12908	1.11924	0.010	-0.9	50.0
92 2-Naphthylamine	1.09142	1.12070	0.010	2.7	50.0
90 Zinophos	0.41569	0.41897	0.010	0.8	50.0
102 Tetraethyl dithiopyrophosph	0.11011	0.11056	0.010	0.4	50.0
103 Diallate 1	0.93503	0.94148	0.010	0.7	50.0
M 189 Diallate, Total	3.89327	3.90069	0.010	0.2	50.0
109 Diallate 2	0.15809	0.15724	0.010	-0.5	50.0
104 Phorate	0.17392	0.17404	0.010	0.1	50.0
105 1,3,5-Trinitrobenzene	0.08121	0.07514	0.010	-7.5	50.0
108 Phenacetin	0.44737	0.46341	0.010	3.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 21-JUL-2000 11:52
 Lab File ID: 7AM0721.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.40941	0.42083	0.010	2.8	50.0
112 Pentachloronitrobenzene	0.10663	0.10812	0.010	1.4	50.0
113 4-Aminobiphenyl	0.69933	0.71229	0.010	1.9	50.0
114 Pronamide	0.34388	0.34412	0.010	0.1	50.0
117 Dinoseb	0.17050	0.15481	0.010	-9.2	50.0
118 Disulfoton	0.61207	0.61631	0.010	0.7	50.0
121 4-Nitroquinoline 1-oxide	0.05933	0.05334	0.010	-10.1	50.0
122 Methapyrilene	0.36505	0.33963	0.010	-7.0	50.0
126 Aramite 1	0.09295	0.09142	0.010	-1.6	50.0
M 191 Aramite, Total	0.56476	0.56871	0.010	0.7	50.0
127 Aramite 2	0.12812	0.12738	0.010	-0.6	50.0
128 p-Dimethylamino azobenzene	0.31380	0.30764	0.010	-2.0	50.0
129 p-Chlorobenzilate	0.54308	0.52897	0.010	-2.6	50.0
130 Pamphur	0.30756	0.35027	0.010	13.9	50.0
132 3,3'-Dimethylbenzidine	0.49407	0.52262	0.010	5.8	50.0
134 2-Acetylaminofluorene	0.38408	0.40749	0.010	6.1	50.0
143 7,12-dimethylbenz[alanthrac	0.90174	0.70912	0.010	-21.4	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.73124	0.61087	0.010	-16.5	50.0
193 3-Methylphenol	1.76609	1.76445	0.010	-0.1	50.0
69 1,4-Dinitrobenzene	0.19571	0.19888	0.010	1.6	50.0
77 m-Dinitrobenzene	0.21803	0.22832	0.010	4.7	50.0
198 1,4-Dioxane	0.73903	0.78637	0.010	6.4	50.0
88 2,3,4,6-Tetrachlorophenol	0.27160	0.27841	0.010	2.5	50.0
97 5-Nitro-o-toluidine	0.32353	0.33226	0.010	2.7	50.0
199 3-Picoline	1.83275	1.83678	0.010	0.2	50.0
200 N,N-Dimethylacetamide	1.27237	1.25621	0.010	-1.3	50.0
213 2-Chloroacetophenone	0.81236	0.79577	0.010	-2.0	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019
 Lab File ID: 7DF0726A DFTPP Injection Date: 07/26/00
 Instrument ID: A4HP7 DFTPP Injection Time: 0810

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.9
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	53.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	27.7
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	11.8
442	40.0 - 100.0% of mass 198	79.7
443	17.0 - 23.0% of mass 442	15.1 (19.0)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	7SM0726	07/26/00	0830
02	ASTD008	ASTD008	7AM0726	07/26/00	0907
03	DFXFDLKL	DFXFD101	DFXFD101	07/26/00	0943
04	DFXFDCHK	DFXFD102	DFXFD102	07/26/00	1020
05	MPT-G4-GW-35	DFWD4101	DFWD4101	07/26/00	1208
06	MPT-G4-GW-37	DFWD5101	DFWD5101	07/26/00	1244
07	MPT-G4-GW-38	DFWD8101	DFWD8101	07/26/00	1321
08	MPT-G4-GW-34	DFWD110W	DFWD110W	07/26/00	1434
09	MPT-G4-GW-34	DFWD110X	DFWD110X	07/26/00	1510
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22					

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\00726a.b\7SM0726.D
Report Date: 26-Jul-2000 11:05

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 26-JUL-2000 08:30
Lab File ID: 7SM0726.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
Analysis Type: Init. Cal. Times: 10:40 14:54
Lab Sample ID: sstd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00726a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	2.16853	2.01372	0.010	-7.1	50.0
10 N-Nitrosodimethylamine	1.33725	1.13322	0.010	-15.3	50.0
11 Ethyl methacrylate	1.95312	1.74410	0.010	-10.7	50.0
12 3-Chloropropionitrile	0.90770	0.86905	0.010	-4.3	50.0
13 Malononitrile	1.84605	1.73921	0.010	-5.8	50.0
209 Benzaldehyde	1.02412	1.07546	0.010	5.0	50.0
21 Aniline	2.91693	2.84493	0.010	-2.5	50.0
22 Phenol	2.50061	2.43382	0.010	-2.7	20.0
23 bis(2-Chloroethyl)ether	1.75445	1.78285	0.010	1.6	50.0
24 2-Chlorophenol	1.36520	1.33441	0.010	-2.3	50.0
26 1,3-Dichlorobenzene	1.49219	1.42771	0.010	-4.3	50.0
27 1,4-Dichlorobenzene	1.51293	1.45603	0.010	-3.8	20.0
28 1,2-Dichlorobenzene	1.39042	1.34349	0.010	-3.4	50.0
29 Benzyl Alcohol	1.10668	1.11496	0.010	0.7	50.0
30 2-Methylphenol	1.54729	1.54516	0.010	-0.1	50.0
31 bis(2-Chloroisopropyl)ether	1.56193	1.66394	0.010	6.5	50.0
37 Acetophenone	2.40212	2.33073	0.010	-3.0	50.0
32 N-Nitroso-di-n-propylamine	1.62507	1.60999	0.050	-0.9	50.0
192 4-Methylphenol	1.64618	1.65583	0.010	0.6	50.0
34 Hexachloroethane	0.65123	0.63561	0.010	-2.4	50.0
35 Nitrobenzene	0.62089	0.62806	0.010	1.2	50.0
41 Isophorone	0.99835	1.03310	0.010	3.5	50.0
42 2-Nitrophenol	0.18306	0.18559	0.010	1.4	20.0
43 2,4-Dimethylphenol	0.45886	0.46095	0.010	0.5	50.0
44 bis(2-Chloroethoxy)methane	0.59019	0.56277	0.010	-4.6	50.0
46 2,4-Toluediamene	0.06763	0.03011	0.010	-55.5	50.0
47 1,3,5-Trichlorobenzene	0.32487	0.33023	0.010	1.7	50.0
48 2,4-Dichlorophenol	0.28685	0.28657	0.010	-0.1	20.0
49 Benzoic Acid	0.17162	0.14926	0.010	-13.0	50.0
50 1,2,4-Trichlorobenzene	0.30164	0.31069	0.010	3.0	50.0
51 Naphthalene	1.04692	1.04011	0.010	-0.6	50.0
52 4-Chloroaniline	0.43956	0.42851	0.010	-2.5	50.0
56 Hexachlorobutadiene	0.19353	0.19400	0.010	0.2	20.0
210 Caprolactam	0.13410	0.13422	0.010	0.1	50.0
57 1,2,3-Trichlorobenzene	0.30102	0.30596	0.010	1.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 26-JUL-2000 08:30
 Lab File ID: 7SM0726.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00726a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	4D	MAX 4D
59 4-Chloro-3-Methylphenol	0.42617	0.43249	0.010	1.5	20.0
62 2-Methylnaphthalene	0.65048	0.67477	0.010	3.7	50.0
63 1-Methylnaphthalene	0.64678	0.65769	0.010	1.7	50.0
64 Hexachlorocyclopentadiene	0.34466	0.32799	0.050	-4.8	50.0
66 2,4,6-Trichlorophenol	0.37178	0.38275	0.010	3.0	20.0
67 2,4,5-Trichlorophenol	0.39338	0.38836	0.010	-1.3	50.0
211 1,1'-Biphenyl	1.40587	1.39232	0.010	-1.0	50.0
68 1,2,3,5-Tetrachlorobenzene	0.57015	0.57040	0.010	0.0	50.0
70 2-Chloronaphthalene	1.08753	1.12223	0.010	3.2	50.0
73 2-Nitroaniline	0.58693	0.58817	0.010	0.2	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53459	0.51838	0.010	-3.0	50.0
76 Dimethylphthalate	1.27070	1.33401	0.010	5.0	50.0
78 2,6-Dinitrotoluene	0.28934	0.30576	0.010	5.7	50.0
79 Acenaphthylene	1.83110	1.86889	0.010	2.1	50.0
80 1,2-Dinitrobenzene	0.14869	0.15646	0.010	5.2	50.0
81 3-Nitroaniline	0.29508	0.27925	0.010	-5.4	50.0
82 Acenaphthene	1.16643	1.19046	0.010	2.1	20.0
83 2,4-Dinitrophenol	0.11360	0.09123	0.050	-19.7	50.0
85 4-Nitrophenol	0.18719	0.16503	0.050	-11.8	50.0
86 Dibenzofuran	1.57557	1.58846	0.010	0.8	50.0
87 2,4-Dinitrotoluene	0.41215	0.42604	0.010	3.4	50.0
91 2,3,5,6-Tetrachlorophenol	0.33950	0.33236	0.010	-2.1	50.0
93 Diethylphthalate	1.30589	1.38171	0.010	5.8	50.0
94 Fluorene	1.34290	1.36647	0.010	1.8	50.0
95 4-Chlorophenyl-phenylether	0.65668	0.68243	0.010	3.9	50.0
96 4-Nitroaniline	0.25059	0.21385	0.010	-14.7	50.0
98 4,6-Dinitro-2-methylphenol	0.11979	0.11140	0.010	-7.0	50.0
99 N-Nitrosodiphenylamine	0.58786	0.61659	0.010	4.9	20.0
100 1,2-Diphenylhydrazine	1.27676	1.38429	0.010	8.4	50.0
106 4-Bromophenyl-phenylether	0.24319	0.27079	0.010	11.3	50.0
107 Hexachlorobenzene	0.26240	0.28990	0.010	10.5	50.0
212 Atrazine	0.20984	0.22166	0.010	5.6	50.0
111 Pentachlorophenol	0.12594	0.12328	0.010	-2.1	20.0
115 Phenanthrene	1.15090	1.18794	0.010	3.2	50.0
116 Anthracene	1.10427	1.16273	0.010	5.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 26-JUL-2000 08:30
 Lab File ID: 7SM0726.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00726a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
119 Carbazole	0.86150	0.74100	0.010	-14.0	50.0
120 Di-n-Butylphthalate	1.29930	1.34410	0.010	3.4	50.0
123 Fluoranthene	1.06791	0.94787	0.010	-11.2	20.0
124 Benzidine	0.54722	0.47484	0.010	-13.2	50.0
125 Pyrene	1.47597	1.50965	0.010	2.3	50.0
131 Butylbenzylphthalate	0.62937	0.62248	0.010	-1.1	50.0
133 3,3'-Dimethoxybenzidine	0.23982	0.22384	0.010	-6.7	50.0
135 3,3'-Dichlorobenzidine	0.41207	0.41683	0.010	1.2	50.0
136 Benzo(a)Anthracene	1.25373	1.26031	0.010	0.5	50.0
137 Chrysene	1.17762	1.18280	0.010	0.4	50.0
138 4,4'-Methylene bis(o-chloro	0.22818	0.22534	0.010	-1.2	50.0
139 bis(2-ethylhexyl)Phthalate	0.85612	0.87987	0.010	2.8	50.0
140 Di-n-octylphthalate	1.67147	1.58082	0.010	-5.4	20.0
141 Benzo(b)fluoranthene	1.35154	1.27430	0.010	-5.7	50.0
142 Benzo(k)fluoranthene	1.37139	1.32410	0.010	-3.4	50.0
146 Benzo(a)pyrene	1.14921	1.13944	0.010	-0.9	20.0
149 Indeno(1,2,3-cd)pyrene	0.89936	0.94314	0.010	4.9	50.0
150 Dibenz(a,h)anthracene	0.88981	0.95736	0.010	7.6	50.0
151 Benzo(g,h,i)perylene	0.89466	0.96535	0.010	7.9	50.0
\$ 154 Nitrobenzene-d5	0.59916	0.62356	0.010	4.1	50.0
\$ 155 2-Fluorobiphenyl	1.24061	1.25077	0.010	0.8	50.0
\$ 156 Terphenyl-d14	1.04217	1.05002	0.010	0.8	50.0
\$ 157 Phenol-d5	2.06488	1.97986	0.010	-4.1	50.0
\$ 158 2-Fluorophenol	1.48789	1.42119	0.010	-4.5	50.0
\$ 159 2,4,6-Tribromophenol	0.17696	0.17562	0.010	-0.8	50.0
\$ 186 2-Chlorophenol-d4	1.23443	1.20545	0.010	-2.3	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.88586	0.91201	0.010	3.0	50.0
M 195 Cresols, total	3.19347	3.20099	0.010	0.2	50.0
101 Diphenylamine	0.58786	0.61659	0.010	4.9	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp7.i\00726a.b\7AM0726.D
Report Date: 26-Jul-2000 10:05

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 26-JUL-2000 09:07
Lab File ID: 7AM0726.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
Analysis Type: Init. Cal. Times: 10:40 14:54
Lab Sample ID: astd008 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00726a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.02235	1.03795	0.010	1.5	50.0
8 Ethyl methanesulfonate	1.60980	1.60490	0.010	-0.3	50.0
14 2-Picoline	2.02764	2.04986	0.010	1.1	50.0
15 N-Nitrosomethylethylamine	0.92510	0.90210	0.010	-2.5	50.0
16 Methyl methanesulfonate	1.35753	1.28885	0.010	-5.1	50.0
18 1,3-Dichloro-2-propanol	2.27765	2.24226	0.010	-1.6	50.0
19 N-Nitrosodiethylamine	0.86867	0.85314	0.010	-1.8	50.0
25 Pentachloroethane	0.54001	0.55391	0.010	2.6	50.0
36 N-Nitrosopyrrolidine	0.84586	0.84472	0.010	-0.1	50.0
37 Acetophenone	2.40212	2.44834	0.010	1.9	50.0
39 o-Toluidine	2.70205	2.74615	0.010	1.6	50.0
40 N-Nitrosopiperidine	0.19950	0.19495	0.010	-2.3	50.0
45 O,O,O-Triethyl phosphorothi	0.18186	0.18484	0.010	1.6	50.0
53 a,a-Dimethyl-phenethylamine	0.79040	0.75509	0.010	-4.5	50.0
54 2,6-Dichlorophenol	0.27870	0.28177	0.010	1.1	50.0
55 Hexachloropropene	0.21272	0.19727	0.010	-7.3	50.0
58 N-Nitrosodi-n-butylamine	0.38368	0.38389	0.010	0.1	50.0
60 p-Phenylene diamine	0.38818	0.32607	0.010	-16.0	50.0
61 Safrole	0.28563	0.27929	0.010	-2.2	50.0
65 1,2,4,5-Tetrachlorobenzene	0.58513	0.59437	0.010	1.6	50.0
71 Isosafrole 1	0.14694	0.14626	0.010	-0.5	50.0
M 188 Isosafrole, Total	1.09179	1.10486	0.010	1.2	50.0
72 Isosafrole 2	0.94485	0.95860	0.010	1.5	50.0
75 1,4-Naphthoquinone	0.39943	0.41336	0.010	3.5	50.0
84 Pentachlorobenzene	0.52635	0.53055	0.010	0.8	50.0
89 1-Naphthylamine	1.12908	1.10286	0.010	-2.3	50.0
92 2-Naphthylamine	1.09142	1.03664	0.010	-5.0	50.0
90 Zinophos	0.41569	0.43734	0.010	5.2	50.0
102 Tetraethyl dithiopyrophosph	0.11011	0.12743	0.010	15.7	50.0
103 Diallyl 1	0.93503	1.00568	0.010	7.6	50.0
M 189 Diallyl, Total	3.89327	4.10077	0.010	5.3	50.0
109 Diallyl 2	0.15809	0.16488	0.010	4.3	50.0
104 Phorate	0.17392	0.18576	0.010	6.8	50.0
105 1,3,5-Trinitrobenzene	0.08121	0.07044	0.010	-13.3	50.0
108 Phenacetin	0.44737	0.40740	0.010	-8.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 26-JUL-2000 09:07
 Lab File ID: 7AM0726.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00726a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.40941	0.41725	0.010	1.9	50.0
112 Pentachloronitrobenzene	0.10663	0.11734	0.010	10.0	50.0
113 4-Aminobiphenyl	0.69933	0.63355	0.010	-9.4	50.0
114 Pronamide	0.34388	0.35065	0.010	2.0	50.0
117 Dinoseb	0.17050	0.15093	0.010	-11.5	50.0
118 Disulfoton	0.61207	0.63817	0.010	4.3	50.0
121 4-Nitroquinoline 1-oxide	0.05933	0.04357	0.010	-26.6	50.0
122 Methapyrilene	0.36505	0.32845	0.010	-10.0	50.0
126 Aramite 1	0.09295	0.09152	0.010	-1.5	50.0
M 191 Aramite, Total	0.56476	0.47607	0.010	-15.7	50.0
127 Aramite 2	0.12812	0.12387	0.010	-3.3	50.0
128 p-Dimethylamino azobenzene	0.31380	0.30196	0.010	-3.8	50.0
129 p-Chlorobenzilate	0.54308	0.52767	0.010	-2.8	50.0
130 Famphur	0.30756	0.36507	0.010	18.7	50.0
132 3,3'-Dimethylbenzidine	0.49407	0.47864	0.010	-3.1	50.0
134 2-Acetylaminofluorene	0.38408	0.45041	0.010	17.3	50.0
143 7,12-dimethylbenz[a]anthrac	0.90174	0.65295	0.010	-27.6	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.73124	0.64202	0.010	-12.2	50.0
193 3-Methylphenol	1.76609	1.81454	0.010	2.7	50.0
69 1,4-Dinitrobenzene	0.19571	0.20876	0.010	6.7	50.0
77 m-Dinitrobenzene	0.21803	0.22798	0.010	4.6	50.0
198 1,4-Dioxane	0.73903	0.72154	0.010	-2.4	50.0
88 2,3,4,6-Tetrachlorophenol	0.27160	0.28285	0.010	4.1	50.0
97 5-Nitro-o-toluidine	0.32353	0.31892	0.010	-1.4	50.0
199 3-Picoline	1.83275	1.75008	0.010	-4.5	50.0
200 N,N-Dimethylacetamide	1.27237	1.10941	0.010	-12.8	50.0
213 2-Chloroacetophenone	0.81236	0.79918	0.010	-1.6	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP019
 Lab File ID: 7DF0727A DFTPP Injection Date: 07/27/00
 Instrument ID: A4HP7 DFTPP Injection Time: 0809

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.1
70	Less than 2.0% of mass 69	0.6 (0.8)1
127	40.0 - 60.0% of mass 198	51.8
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	28.0
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than mass 443	11.1
442	40.0 - 100.0% of mass 198	73.4
443	17.0 - 23.0% of mass 442	13.4 (18.3)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSID008	SSID008	7SM0727	07/27/00	0829
02	ASID008	ASID008	7AM0727	07/27/00	0905
03	DGNJTBLK	DGNJT101	DGNJT101	07/27/00	0941
04	DGNJTCHK	DGNJT102	DGNJT102	07/27/00	1018
05	DGNJTCHKDUP	DGNJT103	DGNJT103	07/27/00	1055
06	MPT-G4-GW-44	DGOV0201	DGOV0201	07/27/00	1207
07	MPT-G4-GW-39	DFWD9101	DFWD9101	07/27/00	1244
08	MPT-G4-GW-40	DFWDA101	DFWDA101	07/27/00	1320
09	MPT-G4-GW-36	DFWDC101	DFWDC101	07/27/00	1356
10	MPT-G4-GW-34	DFWD1101	DFWD1101	07/27/00	1925
11					
12					
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14					
15					
16					
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19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.1 Injection Date: 27-JUL-2000 08:29
 Lab File ID: 7SM0727.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00727a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	2.16853	1.91912	0.010	-11.5	50.0
10 N-Nitrosodimethylamine	1.33725	1.15027	0.010	-14.0	50.0
11 Ethyl methacrylate	1.95312	1.78733	0.010	-8.5	50.0
12 3-Chloropropionitrile	0.90770	0.85404	0.010	-5.8	50.0
13 Malononitrile	1.84605	1.76059	0.010	-4.6	50.0
209 Benzaldehyde	1.02412	1.07732	0.010	5.2	50.0
21 Aniline	2.91693	2.90029	0.010	-0.6	50.0
22 Phenol	2.50061	2.48029	0.010	-0.8	20.0
23 bis(2-Chloroethyl)ether	1.75445	1.75919	0.010	0.3	50.0
24 2-Chlorophenol	1.36520	1.34583	0.010	-1.4	50.0
26 1,3-Dichlorobenzene	1.49219	1.43886	0.010	-3.6	50.0
27 1,4-Dichlorobenzene	1.51293	1.48461	0.010	-1.9	20.0
28 1,2-Dichlorobenzene	1.39042	1.37464	0.010	-1.1	50.0
29 Benzyl Alcohol	1.10668	1.15677	0.010	4.5	50.0
30 2-Methylphenol	1.54729	1.58747	0.010	2.6	50.0
31 bis(2-Chloroisopropyl)ether	1.56193	1.64987	0.010	5.6	50.0
37 Acetophenone	2.40212	2.38039	0.010	-0.9	50.0
32 N-Nitroso-di-n-propylamine	1.62507	1.69452	0.050	4.3	50.0
192 4-Methylphenol	1.64618	1.72184	0.010	4.6	50.0
34 Hexachloroethane	0.65123	0.65407	0.010	0.4	50.0
35 Nitrobenzene	0.62089	0.61798	0.010	-0.5	50.0
41 Isophorone	0.99935	1.05097	0.010	5.3	50.0
42 2-Nitrophenol	0.18306	0.19260	0.010	5.2	20.0
43 2,4-Dimethylphenol	0.45886	0.46233	0.010	0.8	50.0
44 bis(2-Chloroethoxy)methane	0.59019	0.57466	0.010	-2.6	50.0
46 2,4-Toluediamene	0.06763	0.02988	0.010	-55.8	50.0
47 1,3,5-Trichlorobenzene	0.32487	0.32699	0.010	0.7	50.0
48 2,4-Dichlorophenol	0.28685	0.29289	0.010	2.1	20.0
49 Benzoic Acid	0.17162	0.14033	0.010	-18.2	50.0
50 1,2,4-Trichlorobenzene	0.30164	0.30881	0.010	2.4	50.0
51 Naphthalene	1.04692	1.06313	0.010	1.5	50.0
52 4-Chloroaniline	0.43956	0.44982	0.010	2.3	50.0
56 Hexachlorobutadiene	0.19353	0.19642	0.010	1.5	20.0
210 Caprolactam	0.13410	0.14226	0.010	6.1	50.0
57 1,2,3-Trichlorobenzene	0.30102	0.30601	0.010	1.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 27-JUL-2000 08:29
 Lab File ID: 7SM0727.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00727a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.42617	0.45309	0.010	6.3	20.0
62 2-Methylnaphthalene	0.65048	0.68275	0.010	5.0	50.0
63 1-Methylnaphthalene	0.64678	0.66631	0.010	3.0	50.0
64 Hexachlorocyclopentadiene	0.34466	0.34241	0.050	-0.7	50.0
66 2,4,6-Trichlorophenol	0.37178	0.38451	0.010	3.4	20.0
67 2,4,5-Trichlorophenol	0.39338	0.39828	0.010	1.2	50.0
211 1,1'-Biphenyl	1.40587	1.38959	0.010	-1.2	50.0
68 1,2,3,5-Tetrachlorobenzene	0.57015	0.55264	0.010	-3.1	50.0
70 2-Chloronaphthalene	1.08753	1.10200	0.010	1.3	50.0
73 2-Nitroaniline	0.58693	0.59622	0.010	1.6	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53459	0.52326	0.010	-2.1	50.0
76 Dimethylphthalate	1.27070	1.33828	0.010	5.3	50.0
78 2,6-Dinitrotoluene	0.28934	0.31278	0.010	8.1	50.0
79 Acenaphthylene	1.83110	1.87446	0.010	2.4	50.0
80 1,2-Dinitrobenzene	0.14869	0.15219	0.010	2.4	50.0
81 3-Nitroaniline	0.29508	0.27952	0.010	-5.3	50.0
82 Acenaphthene	1.16643	1.19179	0.010	2.2	20.0
83 2,4-Dinitrophenol	0.11360	0.11058	0.050	-2.7	50.0
85 4-Nitrophenol	0.18719	0.18997	0.050	1.5	50.0
86 Dibenzofuran	1.57557	1.60390	0.010	1.8	50.0
87 2,4-Dinitrotoluene	0.41215	0.43654	0.010	5.9	50.0
91 2,3,5,6-Tetrachlorophenol	0.33950	0.35059	0.010	3.3	50.0
93 Diethylphthalate	1.30589	1.41840	0.010	8.6	50.0
94 Fluorene	1.34290	1.37756	0.010	2.6	50.0
95 4-Chlorophenyl-phenylether	0.65668	0.69990	0.010	6.6	50.0
96 4-Nitroaniline	0.25059	0.23437	0.010	-6.5	50.0
98 4,6-Dinitro-2-methylphenol	0.11979	0.12268	0.010	2.4	50.0
99 N-Nitrosodiphenylamine	0.58786	0.59212	0.010	0.7	20.0
100 1,2-Diphenylhydrazine	1.27676	1.29590	0.010	1.5	50.0
106 4-Bromophenyl-phenylether	0.24319	0.26198	0.010	7.7	50.0
107 Hexachlorobenzene	0.26240	0.27730	0.010	5.7	50.0
212 Atrazine	0.20984	0.22161	0.010	5.6	50.0
111 Pentachlorophenol	0.12594	0.13401	0.010	6.4	20.0
115 Phenanthrene	1.15090	1.14352	0.010	-0.6	50.0
116 Anthracene	1.10427	1.12955	0.010	2.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 27-JUL-2000 08:29
 Lab File ID: 7SM0727.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00727a.b\8270c.m

COMPOUND	RRF	RF16	MIN	RD	MAX
119 Carbazole	0.86150	0.78275	0.010	-9.1	50.0
120 Di-n-Butylphthalate	1.29930	1.32055	0.010	1.6	50.0
123 Fluoranthene	1.06791	1.01495	0.010	-5.0	20.0
124 Benzidine	0.54722	0.42439	0.010	-22.4	50.0
125 Pyrene	1.47597	1.42093	0.010	-3.7	50.0
131 Butylbenzylphthalate	0.62937	0.60311	0.010	-4.2	50.0
133 3,3'-Dimethoxybenzidine	0.23982	0.21148	0.010	-11.8	50.0
135 3,3'-Dichlorobenzidine	0.41207	0.40622	0.010	-1.4	50.0
136 Benzo(a)Anthracene	1.25373	1.24433	0.010	-0.8	50.0
137 Chrysene	1.17762	1.16108	0.010	-1.4	50.0
138 4,4'-Methylene bis(o-chloro	0.22818	0.21775	0.010	-4.6	50.0
139 bis(2-ethylhexyl)Phthalate	0.85612	0.85336	0.010	-0.3	50.0
140 Di-n-octylphthalate	1.67147	1.64408	0.010	-1.6	20.0
141 Benzo(b)fluoranthene	1.35154	1.34139	0.010	-0.8	50.0
142 Benzo(k)fluoranthene	1.37139	1.30464	0.010	-4.9	50.0
146 Benzo(a)pyrene	1.14921	1.12724	0.010	-1.9	20.0
149 Indeno(1,2,3-cd)pyrene	0.89936	0.85410	0.010	-5.0	50.0
150 Dibenz(a,h)anthracene	0.88981	0.84278	0.010	-5.3	50.0
151 Benzo(g,h,i)perylene	0.89466	0.85763	0.010	-4.1	50.0
\$ 154 Nitrobenzene-d5	0.59916	0.61349	0.010	2.4	50.0
\$ 155 2-Fluorobiphenyl	1.24061	1.24346	0.010	0.2	50.0
\$ 156 Terphenyl-d14	1.04217	1.01030	0.010	-3.1	50.0
\$ 157 Phenol-d5	2.06488	2.01470	0.010	-2.4	50.0
\$ 158 2-Fluorophenol	1.48789	1.35242	0.010	-9.1	50.0
\$ 159 2,4,6-Tribromophenol	0.17696	0.18107	0.010	2.3	50.0
\$ 186 2-Chlorophenol-d4	1.23443	1.22457	0.010	-0.8	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.88586	0.92049	0.010	3.9	50.0
M 195 Cresols, total	3.19347	3.30932	0.010	3.6	50.0
101 Diphenylamine	0.58786	0.59212	0.010	0.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 27-JUL-2000 09:05
 Lab File ID: 7AM0727.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00727a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.02235	1.00008	0.010	-2.2	50.0
8 Methyl methanesulfonate	1.60990	1.51904	0.010	-5.7	50.0
14 2-Picoline	2.02764	1.97542	0.010	-7.5	50.0
15 N-Nitrosomethylethylamine	0.92510	0.83948	0.010	-9.3	50.0
16 Methyl methanesulfonate	1.35753	1.22854	0.010	-9.5	50.0
18 1,3-Dichloro-2-propanol	2.27765	2.13625	0.010	-6.2	50.0
19 N-Nitrosodiethylamine	0.86867	0.85233	0.010	-1.9	50.0
25 Pentachloroethane	0.54001	0.54085	0.010	0.2	50.0
36 N-Nitrosopyrrolidine	0.84586	0.81747	0.010	-3.4	50.0
37 Acetophenone	2.40212	2.35256	0.010	-2.1	50.0
39 o-Toluidine	2.70205	2.66176	0.010	-1.5	50.0
40 N-Nitrosopiperidine	0.19950	0.19594	0.010	-1.8	50.0
45 O,O,O-Triethyl phosphorothi	0.18196	0.18492	0.010	1.7	50.0
53 a,a-Dimethyl-phenethylamine	0.79040	0.70344	0.010	-11.0	50.0
54 2,6-Dichlorophenol	0.27870	0.27734	0.010	-0.5	50.0
55 Hexachloropropene	0.21272	0.19794	0.010	-6.9	50.0
58 N-Nitrosodi-n-butylamine	0.38368	0.37747	0.010	-1.6	50.0
60 p-Phenylene diamine	0.38818	0.29749	0.010	-23.4	50.0
61 Safrole	0.28563	0.27867	0.010	-2.4	50.0
65 1,2,4,5-Tetrachlorobenzene	0.58513	0.60250	0.010	3.0	50.0
71 Isosafrole 1	0.14694	0.15051	0.010	2.4	50.0
M 188 Isosafrole, Total	1.09179	1.10327	0.010	1.1	50.0
72 Isosafrole 2	0.94485	0.95277	0.010	0.8	50.0
75 1,4-Naphthoquinone	0.39943	0.41247	0.010	3.3	50.0
84 Pentachlorobenzene	0.52635	0.55157	0.010	4.8	50.0
89 1-Naphthylamine	1.12908	1.05230	0.010	-6.8	50.0
92 2-Naphthylamine	1.09142	0.96531	0.010	-11.6	50.0
90 Zinphos	0.41569	0.43197	0.010	3.9	50.0
102 Tetraethyl dithiopyrophosph	0.11011	0.12971	0.010	17.8	50.0
103 Diallate 1	0.93503	1.03387	0.010	10.6	50.0
M 189 Diallate, Total	3.89327	4.00602	0.010	2.9	50.0
109 Diallate 2	0.15809	0.17096	0.010	8.1	50.0
104 Phorate	0.17392	0.18965	0.010	9.0	50.0
105 1,3,5-Trinitrobenzene	0.08121	0.07273	0.010	-10.5	50.0
108 Phenacetin	0.44737	0.41880	0.010	-6.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 27-JUL-2000 09:05
 Lab File ID: 7AM0727.D Init. Cal. Date(s): 20-JUL-2000 21-JUL-2000
 Analysis Type: Init. Cal. Times: 10:40 14:54
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00727a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.40941	0.40589	0.010	-0.9	50.0
112 Pentachloronitrobenzene	0.10663	0.12062	0.010	13.1	50.0
113 4-Aminobiphenyl	0.69933	0.61734	0.010	-11.7	50.0
114 Pronamide	0.34388	0.34809	0.010	1.2	50.0
117 Dinoseb	0.17050	0.16139	0.010	-5.3	50.0
118 Disulfoton	0.61207	0.64499	0.010	5.4	50.0
121 4-Nitroquinoline 1-oxide	0.05933	0.03896	0.010	-34.3	50.0
122 Methapyrilene	0.36505	0.31396	0.010	-14.0	50.0
126 Aramite 1	0.09295	0.09378	0.010	0.9	50.0
M 191 Aramite, Total	0.56476	0.47641	0.010	-15.6	50.0
127 Aramite 2	0.12812	0.13331	0.010	4.1	50.0
128 p-Dimethylamino azobenzene	0.31380	0.31381	0.010	0.0	50.0
129 p-Chlorobenzilate	0.54308	0.55645	0.010	2.5	50.0
130 Famphur	0.30756	0.38178	0.010	24.1	50.0
132 3,3'-Dimethylbenzidine	0.49407	0.44852	0.010	-9.2	50.0
134 2-Acetylaminofluorene	0.38408	0.42869	0.010	11.6	50.0
143 7,12-dimethylbenz(a)anthrac	0.90174	0.67095	0.010	-25.0	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.73124	0.63183	0.010	-13.6	50.0
193 3-Methylphenol	1.76609	1.75201	0.010	-0.8	50.0
69 1,4-Dinitrobenzene	0.19571	0.20671	0.010	5.6	50.0
77 m-Dinitrobenzene	0.21803	0.22784	0.010	4.5	50.0
198 1,4-Dioxane	0.73903	0.67760	0.010	-8.3	50.0
88 2,3,4,6-Tetrachlorophenol	0.27160	0.28594	0.010	5.3	50.0
97 5-Nitro-o-toluidine	0.32353	0.30856	0.010	-4.6	50.0
199 3-Picoline	1.83275	1.67090	0.010	-8.8	50.0
200 N,N-Dimethylacetamide	1.27237	1.16685	0.010	-8.3	50.0
213 2-Chloroacetophenone	0.81236	0.79089	0.010	-2.6	50.0

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP019

Lot #: A0G080143

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	MPT-G4-GW-40-04	113*	105	118	110	101	104	01
02	MPT-G4-GW-36-05	100	95	117	100	90	100	00
03	MPT-G4-GW-34-05	101	97	106	102	93	94	00
04	MPT-G4-GW-35-05	96	91	115	96	87	92	00
05	MPT-G4-GW-37-05	100	94	87	98	90	103	00
06	MPT-G4-GW-38-04	95	95	80	63	90	100	00
07	MPT-G4-GW-39-04	97	89	54	93	85	89	00
08	METHOD BLK. DFXFD101	91	86	103	90	82	76	00
09	LCS DFXFD102	107	103	116	112	101	104	00
10	MPT-G4-GW-34-05 D	117*	114*	118	121*	109	124*	04
11	MPT-G4-GW-34-05 S	114*	107	120	119*	107	114	02

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = Phenol-d5
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(32-112)
 (30-110)
 (10-144)
 (10-113)
 (13-110)
 (21-122)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP019

Lot #: A0G110125

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	MPT-G4-GW-41-06	96	95	80	92	90	83	00
02	MPT-G4-GW-42-04	86	83	82	81	82	77	00
03	MPT-G4-GW-43-04	84	83	44	83	82	80	00
04	MPT-G4-GW-44-04	(20 *)	(21 *)	21	20	20	(16 *)	03
05	MPT-G4-GW-44-04 RE-1	83	74	98	81	72	76	00
06	METHOD BLK. DGNJT101	79	74	93	77	70	70	00
07	METHOD BLK. DG16X101	94	89	113	88	90	78	00
08	LCS DGNJT102	96	90	103	96	88	93	00
09	LCS DG16X102	92	90	93	91	91	90	00
10	MPT-G4-GW-41-06 D	84	84	68	81	78	82	00
11	LCSD DGNJT103	98	93	104	98	90	93	00
12	MPT-G4-GW-41-06 S	85	84	69	84	83	83	00

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = Phenol-d5
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(32-112)
 (30-110)
 (10-144)
 (10-113)
 (13-110)
 (21-122)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFXFD101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: DFXFD101.

Lot Number: A0G080143

Date Analyzed: 07/26/00

Time Analyzed: 09:43

Matrix: WATER

Date Extracted:07/11/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-40-04	DFWDA101	DFWDA101.	07/27/00	13:20
02	MPT-G4-GW-36-05	DFWDC101	DFWDC101.	07/27/00	13:56
03	MPT-G4-GW-34-05	DFWD110W S	DFWD110W.	07/26/00	14:34
04	MPT-G4-GW-34-05	DFWD110X D	DFWD110X.	07/26/00	15:10
05	MPT-G4-GW-34-05	DFWD1101	DFWD1101.	07/27/00	19:25
06	MPT-G4-GW-35-05	DFWD4101	DFWD4101.	07/26/00	12:08
07	MPT-G4-GW-37-05	DFWD5101	DFWD5101.	07/26/00	12:44
08	MPT-G4-GW-38-04	DFWD8101	DFWD8101.	07/26/00	13:21
09	MPT-G4-GW-39-04	DFWD9101	DFWD9101.	07/27/00	12:44
10	CHECK SAMPLE	DFXFD102 C	DFXFD102.	07/26/00	10:20
11					
12					
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G100000 223

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFXFD101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0192223

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q	
83-32-9	Acenaphthene	10			U
208-96-8	Acenaphthylene	10			U
98-86-2	Acetophenone	10			U
53-96-3	2-Acetylaminofluorene	10			U
92-67-1	4-Aminobiphenyl	10			U
62-53-3	Aniline	10			U
120-12-7	Anthracene	10			U
56-55-3	Benzo(a)anthracene	10			U
205-99-2	Benzo(b)fluoranthene	10			U
207-08-9	Benzo(k)fluoranthene	10			U
191-24-2	Benzo(ghi)perylene	10			U
50-32-8	Benzo(a)pyrene	10			U
100-51-6	Benzyl alcohol	10			U
111-91-1	bis(2-Chloroethoxy)methane	10			U
111-44-4	bis(2-Chloroethyl) ether	10			U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10			U
117-81-7	bis(2-Ethylhexyl) phthalate	2.3		J	
101-55-3	4-Bromophenyl phenyl ether	10			U
85-68-7	Butyl benzyl phthalate	10			U
106-47-8	4-Chloroaniline	10			U
59-50-7	4-Chloro-3-methylphenol	10			U
91-58-7	2-Chloronaphthalene	10			U
95-57-8	2-Chlorophenol	10			U
7005-72-3	4-Chlorophenyl phenyl ether	10			U
218-01-9	Chrysene	10			U
2303-16-4	Diallate	20			U
53-70-3	Dibenz(a,h)anthracene	10			U
132-64-9	Dibenzofuran	10			U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G100000 223

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFXFD101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0192223

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G100000 223

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFXFD101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0192223

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G100000 223

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFXFD101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0192223

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
10595-95-6	N-Nitrosomethylethylamine	10		U
59-89-2	N-Nitrosomorpholine	10		U
100-75-4	N-Nitrosopiperidine	10		U
930-55-2	N-Nitrosopyrrolidine	10		U
99-55-8	5-Nitro-o-toluidine	10		U
608-93-5	Pentachlorobenzene	10		U
76-01-7	Pentachloroethane	50		U
82-68-8	Pentachloronitrobenzene	10		U
87-86-5	Pentachlorophenol	10		U
62-44-2	Phenacetin	10		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
106-50-3	p-Phenylene diamine	10		U
109-06-8	2-Picoline	10		U
23950-58-5	Pronamide	10		U
129-00-0	Pyrene	10		U
110-86-1	Pyridine	10		U
94-59-7	Safrole	10		U
95-94-3	1,2,4,5-Tetrachlorobenzene	10		U
58-90-2	2,3,4,6-Tetrachlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
99-35-4	1,3,5-Trinitrobenzene	10		U
86-74-8	Carbazole	10		U
510-15-6	Chlorobenzilate	10		U
122-09-8	a,a-Dimethylphenethylamine	50		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: AOG100000 223

Method: SWS46 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/08/00

Work Order: DFXFD101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/26/00

Moisture %: NA

QC Batch: 0192223

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
140-57-8	Aramite	10		U

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G100000

WO #: DFXFD102

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	55	109	31- 110	
Acenaphthene	50	52	103	39- 118	
2,4-Dinitrotoluene	50	50	101	47- 131	
Pyrene	50	49	97	46- 130	
N-Nitrosodi-n-propylamine	50	50	100	30- 115	
1,4-Dichlorobenzene	50	53	107	28- 110	
Pentachlorophenol	50	44	89	10- 140	
Phenol	50	52	104	10- 131	
2-Chlorophenol	50	53	106	19- 124	
4-Chloro-3-methylphenol	50	51	101	29- 124	
4-Nitrophenol	50	46	92	19- 144	
1,2-Dichlorobenzene	50	54	108*	39- 90	a
1,3-Dichlorobenzene	50	53	106*	34- 85	a
2,4,5-Trichlorophenol	50	51	102	41- 125	
4-Methylphenol	100	98	98	29- 144	
4-Nitroaniline	50	37	74	32- 106	
Acenaphthylene	50	50	100	48- 101	
Anthracene	50	52	104	56- 105	
Benzo(a)anthracene	50	48	95	56- 109	
Benzo(a)pyrene	50	49	98	50- 100	
Benzo(b)fluoranthene	50	49	97	52- 108	
Benzo(ghi)perylene	50	54	109	45- 115	
Benzo(k)fluoranthene	50	51	101	53- 112	
bis(2-Chloroethoxy)methan	50	49	97	39- 109	
bis(2-Chloroethyl) ether	50	53	107*	45- 103	a
2,2'-Oxybis(1-Chloropropa	50	56	113	49- 136	
2,4,6-Trichlorophenol	50	51	102	46- 135	
bis(2-Ethylhexyl) phthala	50	51	102	56- 127	
2,4-Dichlorophenol	50	51	102*	48- 101	a
2,4-Dimethylphenol	50	14	28	10- 88	
2,4-Dinitrophenol	50	45	90	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G100000

WO #: DFXFD102

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	56	112	62- 114	
2-Chloronaphthalene	50	52	103	51- 106	
2-Methylnaphthalene	50	54	108*	49- 98	a
2-Methylphenol	50	45	91	33- 115	
2-Nitroaniline	50	51	103	55- 119	
2-Nitrophenol	50	53	106*	43- 104	a
3,3'-Dichlorobenzidine	50	34	68	20- 76	
3-Nitroaniline	50	46	93	33- 107	
4,6-Dinitro-2-methylpheno	50	49	99	37- 137	
4-Bromophenyl phenyl ethe	50	53	107	57- 114	
4-Chloroaniline	50	44	88*	19- 82	a
4-Chlorophenyl phenyl eth	50	52	104	57- 114	
Butyl benzyl phthalate	50	46	92	53- 113	
Carbazole	50	43	87	37- 114	
Chrysene	50	49	98	59- 112	
Dibenz (a, h) anthracene	50	55	111	50- 112	
Dibenzofuran	50	51	102	55- 107	
Diethyl phthalate	50	24	48	48- 112	
Dimethyl phthalate	50	8.4	17*	46- 117	a
Di-n-octyl phthalate	50	50	100	49- 127	
Fluoranthene	50	44	88	53- 116	
Fluorene	50	52	103	57- 107	
Hexachlorobenzene	50	54	107	57- 128	
Hexachlorobutadiene	50	52	104	36- 116	
Hexachloroethane	50	55	109	30- 110	
Isophorone	50	52	103	48- 103	
Naphthalene	50	53	105*	46- 95	a
Nitrobenzene	50	52	104	45- 130	
N-Nitrosodiphenylamine	50	48	97	47- 112	
Phenanthrene	50	51	102	58- 110	
Indeno (1, 2, 3-cd) pyrene	50	53	105	49- 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G100000

WO #: DFXFD102

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	47	94	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 10 out of 64 outside limits

COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG16X101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: DG16X101.

Lot Number: A0G110125

Date Analyzed: 07/21/00

Time Analyzed: 15:29

Matrix: WATER

Date Extracted:07/12/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-41-06	DG0TK10W S	DG0TK10W.	07/21/00	18:33
02	MPT-G4-GW-41-06	DG0TK10X D	DG0TK10X.	07/21/00	19:10
03	MPT-G4-GW-41-06	DG0TK101	DG0TK101.	07/21/00	17:56
04	MPT-G4-GW-42-04	DG0TV101	DG0TV101.	07/21/00	19:46
05	MPT-G4-GW-43-04	DG0TX101	DG0TX101.	07/21/00	20:23
06	MPT-G4-GW-44-04	DG0V0101	DG0V0101.	07/21/00	21:00
07	CHECK SAMPLE	DG16X102 C	DG16X102.	07/21/00	16:06
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G110000 315

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG16X101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0193315

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
98-86-2	Acetophenone	10		U
53-96-3	2-Acetylaminofluorene	10		U
92-67-1	4-Aminobiphenyl	10		U
62-53-3	Aniline	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
50-32-8	Benzo(a)pyrene	10		U
100-51-6	Benzyl alcohol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	3.6		J
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
2303-16-4	Diallate	20		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G110000 315

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG16X101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0193315

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: AOG110000 315

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG16X101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0193315

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno(1,2,3-cd)pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G110000 315

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG16X101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0193315

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G110000 315

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/11/00

Work Order: DG16X101

Date Extracted: 07/12/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0193315

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G110000

WO #: DG16X102

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	38	76	31- 110	
Acenaphthene	50	43	85	39- 118	
2,4-Dinitrotoluene	50	42	85	47- 131	
Pyrene	50	42	84	46- 130	
N-Nitrosodi-n-propylamine	50	42	84	30- 115	
1,4-Dichlorobenzene	50	33	66	28- 110	
Pentachlorophenol	50	40	81	10- 140	
Phenol	50	43	85	10- 131	
2-Chlorophenol	50	44	87	19- 124	
4-Chloro-3-methylphenol	50	42	84	29- 124	
4-Nitrophenol	50	36	73	19- 144	
1,2-Dichlorobenzene	50	35	71	39- 90	
2,4,5-Trichlorophenol	50	42	85	41- 125	
4-Methylphenol	100	81	81	29- 144	
4-Nitroaniline	50	34	69	32- 106	
1,3-Dichlorobenzene	50	32	64	34- 85	
Acenaphthylene	50	41	83	48- 101	
Anthracene	50	45	89	56- 105	
Benzo(a)pyrene	50	41	82	50- 100	
Benzo(b)fluoranthene	50	43	86	52- 108	
Benzo(ghi)perylene	50	38	76	45- 115	
bis(2-Chloroethoxy)methan	50	41	83	39- 109	
Benzo(a)anthracene	50	41	82	56- 109	
Benzo(k)fluoranthene	50	45	90	53- 112	
bis(2-Chloroethyl) ether	50	45	89	45- 103	
2,2'-Oxybis(1-Chloropropa	50	48	95	49- 136	
bis(2-Ethylhexyl) phthala	50	46	92	56- 127	
2,4,6-Trichlorophenol	50	43	86	46- 135	
2,4-Dichlorophenol	50	42	83	48- 101	
2,4-Dimethylphenol	50	14	29	10- 88	
2,4-Dinitrophenol	50	35	71	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G110000

WO #: DG16X102

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	47	94	62- 114	
2-Methylphenol	50	39	77	33- 115	
2-Nitroaniline	50	44	88	55- 119	
2-Nitrophenol	50	44	89	43- 104	
2-Chloronaphthalene	50	43	85	51- 106	
2-Methylnaphthalene	50	42	85	49- 98	
3,3'-Dichlorobenzidine	50	26	52	20- 76	
3-Nitroaniline	50	42	84	33- 107	
4,6-Dinitro-2-methylpheno	50	41	81	37- 137	
4-Bromophenyl phenyl ethe	50	43	87	57- 114	
4-Chloroaniline	50	38	75	19- 82	
4-Chlorophenyl phenyl eth	50	43	86	57- 114	
Butyl benzyl phthalate	50	41	82	53- 113	
Carbazole	50	43	85	37- 114	
Chrysene	50	42	84	59- 112	
Dibenz (a, h) anthracene	50	40	80	50- 112	
Dibenzofuran	50	43	85	55- 107	
Diethyl phthalate	50	13	26*	48- 112	a
Dimethyl phthalate	50	ND	5*	46- 117	a
Di-n-octyl phthalate	50	51	101	49- 127	
Fluoranthene	50	45	90	53- 116	
Fluorene	50	43	87	57- 107	
Hexachlorobenzene	50	44	88	57- 128	
Hexachlorobutadiene	50	31	62	36- 116	
Hexachloroethane	50	28	55	30- 110	
Isophorone	50	43	86	48- 103	
Naphthalene	50	42	83	46- 95	
Nitrobenzene	50	44	88	45- 130	
N-Nitrosodiphenylamine	50	41	83	47- 112	
Phenanthrene	50	44	88	58- 110	
Indeno (1,2,3-cd) pyrene	50	38	76	49- 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G110000

WO #: DG16X102

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	* REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	40	80	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG35D101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: DG35D101.

Lot Number: A0G120127

Date Analyzed: 07/18/00

Time Analyzed: 21:26

Matrix: WATER

Date Extracted:07/13/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-GW-45-07	DG2M4101	DG2M4101.	07/18/00	22:40
02	MPT-G4-GW-45-07	DG2M4102 S	DG2M4102.	07/18/00	23:17
03	MPT-G4-GW-45-07	DG2M4103 D	DG2M4103.	07/18/00	23:54
04	MPT-G4-GW-46-07	DG2PN101	DG2PN101.	07/19/00	00:32
05	MPT-G4-GW-48-07	DG2QE101	DG2QE101.	07/19/00	01:46
06	MPT-G4-GW-49-07	DG2QH101	DG2QH101.	07/19/00	02:23
07	MPT-G4-GW-47-07	DG2Q9101	DG2Q9101.	07/19/00	01:09
08	CHECK SAMPLE	DG35D102 C	DG35D102.	07/18/00	22:03
09					
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G120000 279

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG35D101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %: NA

QC Batch: 0194279

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER Lab Sample ID: A0G120000 279
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/12/00
Work Order: DG35D101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/18/00
Moisture %: NA

QC Batch: 0194279

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G120000 279

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/12/00

Work Order: DG35D101

Date Extracted: 07/13/00

Dilution factor: 1

Date Analyzed: 07/18/00

Moisture %: NA

QC Batch: 0194279

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
67-72-1	Hexachloroethane	10		U
1888-71-7	Hexachloropropene	10		U
193-39-5	Indeno (1,2,3-cd) pyrene	10		U
78-59-1	Isophorone	10		U
120-58-1	Isosafrole	10		U
91-80-5	Methapyrilene	10		U
95-53-4	o-Toluidine	10		U
56-49-5	3-Methylcholanthrene	10		U
66-27-3	Methyl methanesulfonate	10		U
91-57-6	2-Methylnaphthalene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
91-20-3	Naphthalene	10		U
130-15-4	1,4-Naphthoquinone	10		U
134-32-7	1-Naphthylamine	10		U
91-59-8	2-Naphthylamine	10		U
88-74-4	2-Nitroaniline	25		U
99-09-2	3-Nitroaniline	25		U
100-01-6	4-Nitroaniline	25		U
98-95-3	Nitrobenzene	10		U
88-75-5	2-Nitrophenol	10		U
100-02-7	4-Nitrophenol	25		U
56-57-5	4-Nitroquinoline-1-oxide	10		U
924-16-3	N-Nitrosodi-n-butylamine	10		U
55-18-5	N-Nitrosodiethylamine	10		U
62-75-9	N-Nitrosodimethylamine	10		U
621-64-7	N-Nitrosodi-n-propylamine	10		U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019
 Matrix: (soil/water) WATER Lab Sample ID: A0GL20000 279
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 07/12/00
 Work Order: DG35D101 Date Extracted: 07/13/00
 Dilution factor: 1 Date Analyzed: 07/18/00
 Moisture %: NA
 QC Batch: 0194279
 Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019
Matrix: (soil/water) WATER Lab Sample ID: A0G120000 279
Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/12/00
Work Order: DG35D101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/18/00
Moisture %: NA

Client Sample Id: INTRA-LAB BLANK QC Batch: 0194279

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G120000

WO #: DG35D102

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	41	83	31- 110	
Acenaphthene	50	41	82	39- 118	
2,4-Dinitrotoluene	50	41	83	47- 131	
Pyrene	50	37	75	46- 130	
N-Nitrosodi-n-propylamine	50	40	80	30- 115	
1,4-Dichlorobenzene	50	40	79	28- 110	
Pentachlorophenol	50	41	83	10- 140	
Phenol	50	42	84	10- 131	
2-Chlorophenol	50	42	84	19- 124	
4-Chloro-3-methylphenol	50	40	80	29- 124	
4-Nitrophenol	50	41	82	19- 144	
1,2-Dichlorobenzene	50	41	82	39- 90	
1,3-Dichlorobenzene	50	39	78	34- 85	
2,4,5-Trichlorophenol	50	41	83	41- 125	
4-Methylphenol	100	79	79	29- 144	
4-Nitroaniline	50	35	71	32- 106	
Acenaphthylene	50	40	79	48- 101	
Anthracene	50	43	85	56- 105	
Benzo (a) anthracene	50	39	78	56- 109	
Benzo (a) pyrene	50	39	79	50- 100	
Benzo (b) fluoranthene	50	40	80	52- 108	
Benzo (ghi) perylene	50	41	82	45- 115	
Benzo (k) fluoranthene	50	41	81	53- 112	
bis (2-Chloroethoxy) methan	50	40	79	39- 109	
bis (2-Chloroethyl) ether	50	44	87	45- 103	
2,2'-Oxybis (1-Chloropropa	50	48	97	49- 136	
bis (2-Ethylhexyl) phthala	50	40	80	56- 127	
2,4,6-Trichlorophenol	50	41	82	46- 135	
2,4-Dichlorophenol	50	41	81	48- 101	
2,4-Dimethylphenol	50	13	26	10- 88	
2,4-Dinitrophenol	50	39	78	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G120000

WO #: DG35D102

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	44	88	62 - 114	
2-Chloronaphthalene	50	43	86	51 - 106	
2-Methylnaphthalene	50	42	84	49 - 98	
2-Methylphenol	50	38	76	33 - 115	
2-Nitroaniline	50	42	84	55 - 119	
2-Nitrophenol	50	42	83	43 - 104	
3,3'-Dichlorobenzidine	50	30	59	20 - 76	
3-Nitroaniline	50	40	80	33 - 107	
4,6-Dinitro-2-methylpheno	50	41	82	37 - 137	
4-Bromophenyl phenyl ethe	50	41	82	57 - 114	
4-Chloroaniline	50	37	75	19 - 82	
4-Chlorophenyl phenyl eth	50	41	82	57 - 114	
Butyl benzyl phthalate	50	36	72	53 - 113	
Carbazole	50	43	85	37 - 114	
Chrysene	50	38	77	59 - 112	
Dibenz (a, h) anthracene	50	43	85	50 - 112	
Dibenzofuran	50	41	82	55 - 107	
Diethyl phthalate	50	21	43*	48 - 112	a
Dimethyl phthalate	50	8.1	16*	46 - 117	a
Di-n-octyl phthalate	50	41	83	49 - 127	
Fluoranthene	50	44	87	53 - 116	
Fluorene	50	41	82	57 - 107	
Hexachlorobenzene	50	41	82	57 - 128	
Hexachlorobutadiene	50	40	80	36 - 116	
Hexachloroethane	50	39	78	30 - 110	
Isophorone	50	41	82	48 - 103	
Naphthalene	50	42	84	46 - 95	
Nitrobenzene	50	42	83	45 - 130	
N-Nitrosodiphenylamine	50	40	79	47 - 112	
Phenanthrene	50	42	83	58 - 110	
Indeno (1,2,3-cd) pyrene	50	40	80	49 - 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G120000

WO #: DG35D102

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	40	79	59 - 108	
Hexachlorocyclopentadiene	50	0.0	0*	10 - 81	a

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGNJT101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP019

Lab File ID: DGNJT101.

Lot Number: A0G110125

Date Analyzed: 07/27/00

Time Analyzed: 09:41

Matrix: WATER

Date Extracted:07/24/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3520C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGNJT102 C	DGNJT102.	07/27/00	10:18
02	DUPLICATE CHECK	DGNJT103 L	DGNJT103.	07/27/00	10:55
03	MPT-G4-GW-44-04	DGOV0201	DGOV0201.	07/27/00	12:07
04					
05					
06					
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30					

COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: AOG240000 104

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGNJT101

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %: NA

QC Batch: 0206104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo (a) anthracene	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
191-24-2	Benzo (ghi) perylene	10	U
50-32-8	Benzo (a) pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis (2-Chloroethoxy) methane	10	U
111-44-4	bis (2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz (a, h) anthracene	10	U
132-64-9	Dibenzofuran	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019

Matrix: (soil/water) WATER Lab Sample ID: A0G240000 104
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/13/00
Work Order: DGNJT101 Date Extracted: 07/24/00
Dilution factor: 1 Date Analyzed: 07/27/00
Moisture %: NA

QC Batch: 0206104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz (a) anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G240000 104

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGNJT101

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %: NA

QC Batch: 0206104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: AOG240000 104

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGNJT101

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %: NA

QC Batch: 0206104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP019

Matrix: (soil/water) WATER

Lab Sample ID: A0G240000 104

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 07/13/00

Work Order: DGNJT101

Date Extracted: 07/24/00

Dilution factor: 1

Date Analyzed: 07/27/00

Moisture %: NA

QC Batch: 0206104

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
140-57-8	Aramite	10	U

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G240000

WO #: DGNJT102

BATCH: 0206104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	44	89	31- 110	
Acenaphthene	50	45	91	39- 118	
2,4-Dinitrotoluene	50	45	91	47- 131	
Pyrene	50	44	87	46- 130	
N-Nitrosodi-n-propylamine	50	45	90	30- 115	
1,4-Dichlorobenzene	50	40	80	28- 110	
Pentachlorophenol	50	45	89	10- 140	
Phenol	50	45	91	10- 131	
2-Chlorophenol	50	47	94	19- 124	
4-Chloro-3-methylphenol	50	46	93	29- 124	
4-Nitrophenol	50	43	85	19- 144	
1,2-Dichlorobenzene	50	42	84	39- 90	
1,3-Dichlorobenzene	50	39	78	34- 85	
2,4,5-Trichlorophenol	50	45	90	41- 125	
4-Methylphenol	100	89	89	29- 144	
4-Nitroaniline	50	38	75	32- 106	
Acenaphthylene	50	44	88	48- 101	
Anthracene	50	47	94	56- 105	
Benzo(a)anthracene	50	44	87	56- 109	
Benzo(a)pyrene	50	43	87	50- 100	
Benzo(b)fluoranthene	50	45	89	52- 108	
Benzo(ghi)perylene	50	47	94	45- 115	
Benzo(k)fluoranthene	50	43	87	53- 112	
bis(2-Chloroethoxy)methan	50	44	89	39- 109	
bis(2-Chloroethyl) ether	50	48	95	45- 103	
2,2'-Oxybis(1-Chloropropa	50	50	100	49- 136	
bis(2-Ethylhexyl) phthala	50	48	95	56- 127	
2,4,6-Trichlorophenol	50	46	92	46- 135	
2,4-Dichlorophenol	50	47	93	48- 101	
2,4-Dimethylphenol	50	17	34	10- 88	
2,4-Dinitrophenol	50	42	83	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: AOG240000

WO #: DGNJT102

BATCH: 0206104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	49	98	62 - 114	
2-Chloronaphthalene	50	46	91	51 - 106	
2-Methylnaphthalene	50	47	94	49 - 98	
2-Methylphenol	50	43	86	33 - 115	
2-Nitroaniline	50	46	91	55 - 119	
2-Nitrophenol	50	48	96	43 - 104	
3,3'-Dichlorobenzidine	50	31	63	20 - 76	
4-Bromophenyl phenyl ethe	50	50	100	57 - 114	
4-Chloroaniline	50	41	81	19 - 82	
3-Nitroaniline	50	42	84	33 - 107	
4,6-Dinitro-2-methylpheno	50	46	91	37 - 137	
4-Chlorophenyl phenyl eth	50	46	93	57 - 114	
Butyl benzyl phthalate	50	43	85	53 - 113	
Carbazole	50	41	82	37 - 114	
Chrysene	50	44	89	59 - 112	
Dibenz (a,h) anthracene	50	48	95	50 - 112	
Dibenzofuran	50	45	91	55 - 107	
Diethyl phthalate	50	19	37*	48 - 112	a
Dimethyl phthalate	50	8.3	17*	46 - 117	a
Di-n-octyl phthalate	50	46	92	49 - 127	
Fluoranthene	50	42	84	53 - 116	
Hexachlorobenzene	50	50	100	57 - 128	
Fluorene	50	46	93	57 - 107	
Hexachlorobutadiene	50	41	81	36 - 116	
Hexachloroethane	50	38	75	30 - 110	
Isophorone	50	47	94	48 - 103	
Naphthalene	50	46	93	46 - 95	
Nitrobenzene	50	48	95	45 - 130	
N-Nitrosodiphenylamine	50	46	92	47 - 112	
Di-n-butyl phthalate	50	44	88	59 - 108	
Phenanthrene	50	46	92	58 - 110	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G240000

WO #: DGNJT102

BATCH: 0206104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
-----	-----	-----	-----	-----	-----
Indeno (1,2,3-cd) pyrene	50	46	93	49- 114	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G240000

WO #: DGNJT103

BATCH: 0206104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	46	91	31 - 110	
Acenaphthene	50	47	94	39 - 118	
2,4-Dinitrotoluene	50	47	94	47 - 131	
Pyrene	50	45	90	46 - 130	
N-Nitrosodi-n-propylamine	50	47	94	30 - 115	
1,4-Dichlorobenzene	50	41	81	28 - 110	
Pentachlorophenol	50	45	89	10 - 140	
Phenol	50	46	92	10 - 131	
4-Nitrophenol	50	43	86	19 - 144	
2-Chlorophenol	50	47	94	19 - 124	
4-Chloro-3-methylphenol	50	48	96	29 - 124	
1,2-Dichlorobenzene	50	42	85	39 - 90	
1,3-Dichlorobenzene	50	40	81	34 - 85	
2,4,5-Trichlorophenol	50	48	95	41 - 125	
4-Methylphenol	100	91	91	29 - 144	
4-Nitroaniline	50	36	71	32 - 106	
Acenaphthylene	50	46	92	48 - 101	
Anthracene	50	48	95	56 - 105	
Benzo(a)anthracene	50	45	89	56 - 109	
Benzo(a)pyrene	50	44	88	50 - 100	
Benzo(b)fluoranthene	50	44	89	52 - 108	
Benzo(ghi)perylene	50	48	95	45 - 115	
Benzo(k)fluoranthene	50	44	89	53 - 112	
bis(2-Chloroethoxy)methan	50	45	91	39 - 109	
bis(2-Chloroethyl) ether	50	49	98	45 - 103	
2,2'-Oxybis(1-Chloropropa	50	51	102	49 - 136	
bis(2-Ethylhexyl) phthala	50	48	97	56 - 127	
2,4,6-Trichlorophenol	50	48	97	46 - 135	
2,4-Dichlorophenol	50	47	95	48 - 101	
2,4-Dimethylphenol	50	18	37	10 - 88	
2,4-Dinitrophenol	50	42	84	21 - 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G240000

WO #: DGNJT103

BATCH: 0206104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	51	103	62 - 114	
2-Chloronaphthalene	50	47	94	51 - 106	
2-Methylnaphthalene	50	48	96	49 - 98	
2-Nitrophenol	50	49	98	43 - 104	
3,3'-Dichlorobenzidine	50	33	65	20 - 76	
3-Nitroaniline	50	43	86	33 - 107	
2-Methylphenol	50	44	89	33 - 115	
2-Nitroaniline	50	47	95	55 - 119	
4,6-Dinitro-2-methylpheno	50	46	93	37 - 137	
4-Bromophenyl phenyl ethe	50	51	101	57 - 114	
4-Chloroaniline	50	41	82	19 - 82	
Chrysene	50	45	91	59 - 112	
Dibenz (a,h) anthracene	50	49	97	50 - 112	
4-Chlorophenyl phenyl eth	50	48	96	57 - 114	
Butyl benzyl phthalate	50	43	86	53 - 113	
Carbazole	50	42	85	37 - 114	
Dibenzofuran	50	47	94	55 - 107	
Diethyl phthalate	50	19	39*	48 - 112	a
Dimethyl phthalate	50	7.7	15*	46 - 117	a
Di-n-octyl phthalate	50	46	91	49 - 127	
Hexachlorobenzene	50	51	102	57 - 128	
Hexachlorobutadiene	50	42	83	36 - 116	
Hexachloroethane	50	39	77	30 - 110	
Fluoranthene	50	43	86	53 - 116	
Fluorene	50	47	95	57 - 107	
Isophorone	50	49	97	48 - 103	
Naphthalene	50	47	93	46 - 95	
Nitrobenzene	50	48	97	45 - 130	
N-Nitrosodiphenylamine	50	49	97	47 - 112	
Phenanthrene	50	47	94	58 - 110	
Indeno (1,2,3-cd) pyrene	50	47	95	49 - 114	

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SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Lot #: A0G240000

WO #: DGNJT103

BATCH: 0206104

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	45	90	59- 108	
Hexachlorocyclopentadiene	50	0.0	0*	10- 81	a

NOTES(S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-34-05

Lot #: A0G080143

WO #: DFWD110W

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100	ND	110	106	22 - 110	
Acenaphthene	100	ND	100	104	26 - 118	
2,4-Dinitrotoluene	100	ND	100	102	31 - 131	
Pyrene	100	ND	100	100	27 - 138	
N-Nitrosodi-n-propylamine	100	ND	100	102	18 - 115	
1,4-Dichlorobenzene	100	ND	99	99	18 - 110	
4-Chloro-3-methylphenol	100	ND	110	107	21 - 124	
4-Nitrophenol	100	ND	110	113	10 - 145	
2-Chlorophenol	100	ND	110	111	19 - 124	
Pentachlorophenol	100	ND	130	131	10 - 140	
Phenol	100	1.5	110	106	10 - 131	
Acenaphthylene	100	ND	100	101*	48 - 96	a
Anthracene	100	ND	110	106*	52 - 101	a
Benzo(a)anthracene	100	ND	100	105	52 - 110	
Benzo(b)fluoranthene	100	ND	100	102	48 - 107	
Benzo(k)fluoranthene	100	ND	100	102	53 - 109	
Benzo(ghi)perylene	100	ND	110	108	48 - 109	
bis(2-Chloroethoxy)methan	100	ND	100	102*	40 - 101	a
Benzo(a)pyrene	100	ND	97	97	47 - 98	
bis(2-Chloroethyl) ether	100	ND	110	112*	36 - 104	a
2,2'-Oxybis(1-Chloropropa	100	ND	120	118	43 - 133	
bis(2-Ethylhexyl) phthala	100	2.6	120	116	44 - 133	
4-Bromophenyl phenyl ethe	100	ND	110	107	56 - 110	
Butyl benzyl phthalate	100	ND	94	94	46 - 115	
Carbazole	100	ND	110	110	42 - 115	
4-Chloroaniline	100	ND	84	84*	13 - 71	a
2-Chloronaphthalene	100	ND	110	106*	46 - 104	a
4-Chlorophenyl phenyl eth	100	ND	110	105	55 - 110	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-34-05

Lot #: A0G080143

WO #: DFWD110W

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS & REC	LIMITS REC	QUAL
Chrysene	100	ND	100	104	54 - 115	
Dibenz (a, h) anthracene	100	ND	120	117*	49 - 110	a
Dibenzofuran	100	ND	110	106*	53 - 104	a
Di-n-butyl phthalate	100	ND	91	91	53 - 109	
1,2-Dichlorobenzene	100	ND	100	101*	33 - 91	a
1,3-Dichlorobenzene	100	ND	96	96*	30 - 86	a
3,3'-Dichlorobenzidine	100	ND	36	36	10 - 71	
Diethyl phthalate	100	ND	35	35*	36 - 117	a
2,4-Dichlorophenol	100	ND	110	108*	43 - 103	a
2,4-Dimethylphenol	100	ND	48	48	10 - 88	
Dimethyl phthalate	100	ND	23	23*	32 - 124	a
4,6-Dinitro-2-methylpheno	100	ND	130	133*	46 - 123	a
2,4-Dinitrophenol	100	ND	150	151*	30 - 133	a
2,6-Dinitrotoluene	100	ND	110	111*	58 - 109	a
Di-n-octyl phthalate	100	ND	110	106	46 - 124	
Fluoranthene	100	ND	120	117*	51 - 113	a
Fluorene	100	ND	110	107*	54 - 105	a
Hexachlorobenzene	100	ND	120	115	36 - 132	
Hexachlorobutadiene	100	ND	94	94	18 - 116	
Hexachlorocyclopentadiene	100	ND	0.0	0*	10 - 45	a
Hexachloroethane	100	ND	94	94	18 - 110	
Indeno (1,2,3-cd) pyrene	100	ND	110	109	48 - 113	
Isophorone	100	ND	110	107*	42 - 102	a
2-Methylnaphthalene	100	ND	110	110*	39 - 102	a
2-Methylphenol	100	ND	99	99	29 - 115	
4-Methylphenol	200	ND	210	105	25 - 144	
Naphthalene	100	ND	110	108*	39 - 96	a
2-Nitroaniline	100	ND	110	108	44 - 116	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-34-05

Lot #: A0G080143

WO #: DFWD110W

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
3-Nitroaniline	100	ND	92	92	20 - 102	
Nitrobenzene	100	ND	110	110	10 - 211	
4-Nitroaniline	100	ND	92	92	25 - 95	
2-Nitrophenol	100	ND	110	113*	35 - 104	a
2,4,5-Trichlorophenol	100	ND	110	110	24 - 143	
2,4,6-Trichlorophenol	100	ND	110	111	36 - 135	
N-Nitrosodiphenylamine	100	ND	110	108*	53 - 99	a
Phenanthrene	100	ND	100	103	55 - 109	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits
 Spike Recovery: 24 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-34-05

Lot #: A0G080143

WO #: DFWD110X

BATCH: 0192223

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
4-Chloroaniline	100	91	91*	8.1	41	13- 71	a
2-Chloronaphthalene	100	120	119*	12	25	46- 104	a
4-Chlorophenyl phenyl eth	100	120	115*	9.0	19	55- 110	a
Chrysene	100	110	106	1.5	16	54- 115	
Dibenz (a, h) anthracene	100	120	116*	0.73	18	49- 110	a
Dibenzofuran	100	120	115*	8.9	20	53- 104	a
Di-n-butyl phthalate	100	91	91	0.25	17	53- 109	
1,2-Dichlorobenzene	100	110	107*	5.2	29	33- 91	a
1,3-Dichlorobenzene	100	100	103*	7.4	31	30- 86	a
3,3'-Dichlorobenzidine	100	34	34	5.2	36	10- 71	
2,4-Dichlorophenol	100	120	117*	8.0	26	43- 103	a
Diethyl phthalate	100	33	33*	5.0	20	36- 117	a
2,4-Dimethylphenol	100	50	50	4.6	28	10- 88	
Dimethyl phthalate	100	17	17*	29	* 22	32- 124	a p
4,6-Dinitro-2-methylpheno	100	130	132*	0.47	24	46- 123	a
2,4-Dinitrophenol	100	160	163*	7.6	32	30- 133	a
2,6-Dinitrotoluene	100	120	123*	10	16	58- 109	a
Di-n-octyl phthalate	100	120	120	12	22	46- 124	
Fluoranthene	100	110	112	4.3	19	51- 113	
Hexachlorobutadiene	100	100	105	11	32	18- 116	
Fluorene	100	120	116*	7.7	19	54- 105	a
Hexachlorobenzene	100	110	112	3.4	22	36- 132	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10- 45	a
Hexachloroethane	100	100	103	9.2	33	18- 110	
Indeno (1,2,3-cd) pyrene	100	110	107	2.0	19	48- 113	
Isophorone	100	110	115*	6.9	25	42- 102	a
2-Methylnaphthalene	100	120	119*	8.0	28	39- 102	a
2-Methylphenol	100	110	107	7.5	31	29- 115	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-34-05

Lot #: A0G080143

WO #: DFWD110X

BATCH: 0192223

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
4-Methylphenol	200	220	111	5.5	33	25 - 144	
Naphthalene	100	120	116*	7.0	26	39 - 96	a
3-Nitroaniline	100	100	101	9.1	23	20 - 102	
2-Nitroaniline	100	120	120*	10	17	44 - 116	a
4-Nitroaniline	100	110	112*	20	26	25 - 95	a
Nitrobenzene	100	120	116	5.8	50	10 - 211	
2-Nitrophenol	100	120	121*	6.9	26	35 - 104	a
N-Nitrosodiphenylamine	100	110	107*	1.1	18	53 - 99	a
Phenanthrene	100	110	111*	7.5	18	55 - 109	a
2,4,5-Trichlorophenol	100	120	119	7.7	22	24 - 143	
2,4,6-Trichlorophenol	100	120	121	8.7	27	36 - 135	
Acenaphthylene	100	110	109*	7.2	21	48 - 96	a
Butyl benzyl phthalate	100	97	97	2.4	18	46 - 115	
Anthracene	100	110	108*	2.1	18	52 - 101	a
Benzo (a) anthracene	100	100	104	0.25	16	52 - 110	
Benzo (b) fluoranthene	100	110	106	4.5	20	48 - 107	
1,2,4-Trichlorobenzene	100	110	114*	7.6	37	22 - 110	a
Benzo (k) fluoranthene	100	110	110*	7.3	20	53 - 109	a
Benzo (ghi) perylene	100	110	106	1.7	17	48 - 109	
Benzo (a) pyrene	100	100	101*	4.3	18	47 - 98	a
bis (2-Chloroethoxy) methan	100	110	110*	7.2	40	40 - 101	a
Carbazole	100	110	110	0.21	21	42 - 115	
Acenaphthene	100	110	114	9.5	35	26 - 118	
bis (2-Chloroethyl) ether	100	120	117*	4.1	26	36 - 104	a
2,4-Dinitrotoluene	100	120	116	13	32	31 - 131	
Pyrene	100	110	107	7.2	31	27 - 138	
2,2'-Oxybis (1-Chloropropa	100	120	125	5.5	25	43 - 133	
N-Nitrosodi-n-propylamine	100	110	108	5.4	36	18 - 115	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-34-05

Lot #: A0G080143

WO #: DFWD110X

BATCH: 0192223

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
bis(2-Ethylhexyl) phthala	100	120	117	1.1	23	44 - 133	
1,4-Dichlorobenzene	100	100	104	4.4	36	18 - 110	
Pentachlorophenol	100	130	134	2.0	56	10 - 140	
Phenol	100	110	113	6.3	43	10 - 131	
2-Chlorophenol	100	120	117	5.2	43	19 - 124	
4-Chloro-3-methylphenol	100	120	116	7.8	55	21 - 124	
4-Nitrophenol	100	130	129	13	34	10 - 145	
4-Bromophenyl phenyl ethe	100	110	112*	4.6	17	56 - 110	a

NOTES (S) :

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 1 out of 64 outside limits
 Spike Recovery: 31 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-41-06

Lot #: A0G110125

WO #: DG0TK10W

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100	ND	77	77	22- 110	
Acenaphthene	100	ND	83	83	26- 118	
2,4-Dinitrotoluene	100	ND	83	83	31- 131	
Pyrene	100	ND	81	81	27- 138	
N-Nitrosodi-n-propylamine	100	ND	77	77	18- 115	
1,4-Dichlorobenzene	100	ND	70	70	18- 110	
Pentachlorophenol	100	ND	84	84	10- 140	
Phenol	100	ND	82	82	10- 131	
2-Chlorophenol	100	ND	82	82	19- 124	
4-Chloro-3-methylphenol	100	ND	81	81	21- 124	
4-Nitrophenol	100	ND	74	74	10- 145	
Acenaphthylene	100	ND	79	79	48- 96	
Anthracene	100	ND	82	82	52- 101	
Benzo (a) anthracene	100	ND	80	80	52- 110	
Benzo (b) fluoranthene	100	ND	83	83	48- 107	
Benzo (k) fluoranthene	100	ND	86	86	53- 109	
bis (2-Chloroethoxy) methan	100	ND	79	79	40- 101	
Benzo (ghi) perylene	100	ND	68	68	48- 109	
Benzo (a) pyrene	100	ND	76	76	47- 98	
bis (2-Chloroethyl) ether	100	ND	84	84	36- 104	
2,2'-Oxybis (1-Chloropropa	100	ND	92	92	43- 133	
bis (2-Ethylhexyl) phthala	100	ND	90	89	44- 133	
4-Bromophenyl phenyl ethe	100	ND	85	85	56- 110	
Butyl benzyl phthalate	100	ND	77	77	46- 115	
Carbazole	100	ND	89	89	42- 115	
4-Chloroaniline	100	ND	71	71	13- 71	
2-Chloronaphthalene	100	ND	83	83	46- 104	
4-Chlorophenyl phenyl eth	100	ND	83	83	55- 110	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-41-06

Lot #: A0G110125

WO #: DG0TK10W

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Chrysene	100	ND	82	82	54 - 115	
Dibenz (a, h) anthracene	100	ND	72	72	49 - 110	
Dibenzofuran	100	ND	83	83	53 - 104	
Di-n-butyl phthalate	100	ND	74	74	53 - 109	
3,3'-Dichlorobenzidine	100	ND	49	49	10 - 71	
2,4-Dichlorophenol	100	ND	79	79	43 - 103	
1,2-Dichlorobenzene	100	ND	73	73	33 - 91	
1,3-Dichlorobenzene	100	ND	68	68	30 - 86	
Diethyl phthalate	100	ND	28	28*	36 - 117	a
2,4-Dimethylphenol	100	ND	21	21	10 - 88	
Dimethyl phthalate	100	ND	11	11*	32 - 124	a
4,6-Dinitro-2-methylpheno	100	ND	84	84	46 - 123	
2,4-Dinitrophenol	100	ND	79	79	30 - 133	
2,6-Dinitrotoluene	100	ND	90	90	58 - 109	
Di-n-octyl phthalate	100	ND	97	97	46 - 124	
Fluoranthene	100	ND	89	89	51 - 113	
Fluorene	100	ND	84	84	54 - 105	
Hexachlorobenzene	100	ND	83	83	36 - 132	
Hexachlorobutadiene	100	ND	66	66	18 - 116	
Hexachlorocyclopentadiene	100	ND	0.0	0*	10 - 45	a
Hexachloroethane	100	ND	63	63	18 - 110	
Indeno (1, 2, 3-cd) pyrene	100	ND	72	72	48 - 113	
Isophorone	100	ND	83	83	42 - 102	
2-Methylnaphthalene	100	ND	83	83	39 - 102	
2-Methylphenol	100	ND	69	69	29 - 115	
4-Methylphenol	200	ND	150	73	25 - 144	
Naphthalene	100	ND	82	82	39 - 96	
2-Nitroaniline	100	ND	86	86	44 - 116	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-41-06

Lot #: A0G110125

WO #: DG0TK10W

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
3-Nitroaniline	100	ND	79	79	20 - 102	
4-Nitroaniline	100	ND	78	78	25 - 95	
Nitrobenzene	100	ND	84	84	10 - 211	
2-Nitrophenol	100	ND	84	84	35 - 104	
N-Nitrosodiphenylamine	100	ND	80	80	53 - 99	
Phenanthrene	100	ND	86	86	55 - 109	
2,4,5-Trichlorophenol	100	ND	82	82	24 - 143	
2,4,6-Trichlorophenol	100	ND	82	82	36 - 135	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 3 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-41-06

Lot #: A0G110125

WO #: DG0TK10X

BATCH: 0193315

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	75	75	1.8	37	22- 110	
Acenaphthene	100	80	80	3.8	35	26- 118	
N-Nitrosodi-n-propylamine	100	75	75	2.6	36	18- 115	
2,4-Dinitrotoluene	100	82	82	1.4	32	31- 131	
Pyrene	100	81	81	0.60	31	27- 138	
1,4-Dichlorobenzene	100	69	69	2.6	36	18- 110	
Phenol	100	77	77	6.0	43	10- 131	
2-Chlorophenol	100	78	78	4.5	43	19- 124	
4-Chloro-3-methylphenol	100	78	78	3.8	55	21- 124	
4-Nitrophenol	100	77	77	4.1	34	10- 145	
Pentachlorophenol	100	86	86	2.4	56	10- 140	
Acenaphthylene	100	78	78	2.3	21	48- 96	
Benzo(a)anthracene	100	77	77	3.6	16	52- 110	
Anthracene	100	80	80	2.2	18	52- 101	
Benzo(b)fluoranthene	100	80	80	4.5	20	48- 107	
Benzo(k)fluoranthene	100	81	81	5.4	20	53- 109	
Benzo(ghi)perylene	100	76	76	11	17	48- 109	
Benzo(a)pyrene	100	76	76	0.25	18	47- 98	
bis(2-Chloroethoxy)methan	100	76	76	3.6	40	40- 101	
bis(2-Chloroethyl) ether	100	80	80	5.4	26	36- 104	
2,2'-Oxybis(1-Chloropropa	100	87	87	5.3	25	43- 133	
bis(2-Ethylhexyl) phthala	100	93	92	3.1	23	44- 133	
4-Bromophenyl phenyl ethe	100	81	81	5.3	17	56- 110	
Butyl benzyl phthalate	100	79	79	2.1	18	46- 115	
4-Chlorophenyl phenyl eth	100	81	81	1.7	19	55- 110	
2-Chloronaphthalene	100	82	82	1.6	25	46- 104	
Chrysene	100	79	79	4.2	16	54- 115	
Carbazole	100	84	84	5.4	21	42- 115	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-41-06

Lot #: A0G110125

WO #: DG0TK10X

BATCH: 0193315

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
4-Chloroaniline	100	67	67	5.7	41	13 - 71	
Dibenz (a, h) anthracene	100	80	80	11	18	49 - 110	
Dibenzofuran	100	81	81	2.1	20	53 - 104	
Di-n-butyl phthalate	100	70	70	5.2	17	53 - 109	
3,3'-Dichlorobenzidine	100	45	45	8.3	36	10 - 71	
2,4-Dichlorophenol	100	77	77	2.8	26	43 - 103	
1,2-Dichlorobenzene	100	72	72	0.98	29	33 - 91	
1,3-Dichlorobenzene	100	68	68	0.49	31	30 - 86	
Diethyl phthalate	100	28	28*	2.2	20	36 - 117	a
2,4-Dimethylphenol	100	25	25	17	28	10 - 88	
Dimethyl phthalate	100	17	17*	40	22	32 - 124	a p
4,6-Dinitro-2-methylpheno	100	83	83	1.5	24	46 - 123	
2,4-Dinitrophenol	100	80	80	1.6	32	30 - 133	
2,6-Dinitrotoluene	100	87	87	2.9	16	58 - 109	
Di-n-octyl phthalate	100	92	92	5.2	22	46 - 124	
Fluoranthene	100	85	85	4.6	19	51 - 113	
Fluorene	100	82	82	2.8	19	54 - 105	
Hexachlorobenzene	100	81	81	2.7	22	36 - 132	
Hexachlorobutadiene	100	67	67	2.1	32	18 - 116	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10 - 45	a
Hexachloroethane	100	65	65	2.8	33	18 - 110	
Indeno (1,2,3-cd) pyrene	100	77	77	7.1	19	48 - 113	
Isophorone	100	81	81	3.0	25	42 - 102	
2-Methylnaphthalene	100	80	80	3.5	28	39 - 102	
2-Methylphenol	100	67	67	2.8	31	29 - 115	
4-Methylphenol	200	140	70	4.7	33	25 - 144	
Naphthalene	100	79	79	3.2	26	39 - 96	
2-Nitroaniline	100	85	85	1.2	17	44 - 116	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-41-06

Lot #: A0G110125

WO #: DG0TK10X

BATCH: 0193315

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
3-Nitroaniline	100	75	75	5.4	23	20 - 102	
N-Nitrosodiphenylamine	100	78	78	2.1	18	53 - 99	
4-Nitroaniline	100	76	76	2.5	26	25 - 95	
Nitrobenzene	100	82	82	2.6	50	10 - 211	
2-Nitrophenol	100	82	82	3.0	26	35 - 104	
Phenanthrene	100	82	82	4.6	18	55 - 109	
2,4,5-Trichlorophenol	100	78	78	5.0	22	24 - 143	
2,4,6-Trichlorophenol	100	81	81	0.89	27	36 - 135	

NOTES (S) :

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 1 out of 64 outside limits
 Spike Recovery: 3 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-45-07

Lot #: A0G120127

WO #: DG2M4102

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100	ND	90	90	22 - 110	
N-Nitrosodi-n-propylamine	100	ND	98	98	18 - 115	
1,4-Dichlorobenzene	100	ND	83	83	18 - 110	
Acenaphthene	100	ND	98	98	26 - 118	
2,4-Dinitrotoluene	100	ND	100	101	31 - 131	
Pyrene	100	ND	94	94	27 - 138	
Pentachlorophenol	100	ND	110	111	10 - 140	
Phenol	100	ND	100	101	10 - 131	
2-Chlorophenol	100	ND	100	101	19 - 124	
4-Chloro-3-methylphenol	100	ND	100	100	21 - 124	
4-Nitrophenol	100	ND	100	103	10 - 145	
Acenaphthylene	100	ND	96	96	48 - 96	
Anthracene	100	ND	100	101	52 - 101	
Benzo (a) anthracene	100	ND	95	95	52 - 110	
Benzo (b) fluoranthene	100	ND	94	94	48 - 107	
Benzo (k) fluoranthene	100	ND	97	97	53 - 109	
Benzo (ghi) perylene	100	ND	94	94	48 - 109	
Benzo (a) pyrene	100	ND	95	95	47 - 98	
bis(2-Chloroethoxy)methan	100	ND	96	96	40 - 101	
bis(2-Chloroethyl) ether	100	ND	110	106*	36 - 104	a
2,2'-Oxybis(1-Chloropropa	100	ND	110	114	43 - 133	
bis(2-Ethylhexyl) phthala	100	ND	96	95	44 - 133	
4-Bromophenyl phenyl ethe	100	ND	99	99	56 - 110	
Butyl benzyl phthalate	100	ND	82	82	46 - 115	
Carbazole	100	ND	94	94	42 - 115	
4-Chloroaniline	100	ND	88	88*	13 - 71	a
2-Chloronaphthalene	100	ND	100	102	46 - 104	
4-Chlorophenyl phenyl eth	100	ND	99	99	55 - 110	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-45-07

Lot #: AOG120127

WO #: DG2M4102

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS & REC	LIMITS REC	QUAL
Chrysene	100	ND	91	91	54 - 115	
Dibenz (a, h) anthracene	100	ND	100	101	49 - 110	
Dibenzofuran	100	ND	99	99	53 - 104	
Di-n-butyl phthalate	100	ND	82	82	53 - 109	
1,2-Dichlorobenzene	100	ND	86	86	33 - 91	
1,3-Dichlorobenzene	100	ND	80	80	30 - 86	
3,3'-Dichlorobenzidine	100	ND	37	37	10 - 71	
2,4-Dichlorophenol	100	ND	98	98	43 - 103	
Diethyl phthalate	100	ND	24	24*	36 - 117	a
2,4-Dimethylphenol	100	ND	53	53	10 - 88	
Dimethyl phthalate	100	ND	7.9	7*	32 - 124	a
4,6-Dinitro-2-methylpheno	100	ND	110	110	46 - 123	
2,4-Dinitrophenol	100	ND	120	116	30 - 133	
2,6-Dinitrotoluene	100	ND	110	108	58 - 109	
Di-n-octyl phthalate	100	ND	96	96	46 - 124	
Fluoranthene	100	ND	95	95	51 - 113	
Fluorene	100	ND	99	99	54 - 105	
Hexachlorobenzene	100	ND	95	95	36 - 132	
Hexachlorobutadiene	100	ND	80	80	18 - 116	
Hexachlorocyclopentadiene	100	ND	0.0	0*	10 - 45	a
Hexachloroethane	100	ND	75	75	18 - 110	
Indeno (1,2,3-cd) pyrene	100	ND	95	95	48 - 113	
Isophorone	100	ND	100	100	42 - 102	
2-Methylnaphthalene	100	ND	99	99	39 - 102	
2-Methylphenol	100	ND	96	96	29 - 115	
4-Methylphenol	200	ND	190	97	25 - 144	
Naphthalene	100	ND	96	96	39 - 96	
2-Nitroaniline	100	ND	110	108	44 - 116	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-45-07

Lot #: A0G120127

WO #: DG2M4102

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
3-Nitroaniline	100	ND	96	96	20 - 102	
4-Nitroaniline	100	ND	98	98*	25 - 95	a
Nitrobenzene	100	ND	100	101	10 - 211	
2-Nitrophenol	100	ND	100	104	35 - 104	
N-Nitrosodiphenylamine	100	ND	97	97	53 - 99	
Phenanthrene	100	ND	100	100	55 - 109	
2,4,5-Trichlorophenol	100	ND	100	100	24 - 143	
2,4,6-Trichlorophenol	100	ND	100	100	36 - 135	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 6 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-45-07

Lot #: A0G120127

WO #: DG2M4103

BATCH: 0194279

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	88	88	2.3	37	22 - 110	
Acenaphthene	100	94	94	4.2	35	26 - 118	
2,4-Dinitrotoluene	100	96	96	5.2	32	31 - 131	
Pyrene	100	88	88	6.9	31	27 - 138	
N-Nitrosodi-n-propylamine	100	90	90	8.3	36	18 - 115	
1,4-Dichlorobenzene	100	81	81	2.9	36	18 - 110	
Pentachlorophenol	100	110	107	3.4	56	10 - 140	
Phenol	100	95	95	5.7	43	10 - 131	
2-Chlorophenol	100	96	96	5.3	43	19 - 124	
4-Chloro-3-methylphenol	100	94	94	6.2	55	21 - 124	
4-Nitrophenol	100	99	99	3.6	34	10 - 145	
Acenaphthylene	100	90	90	6.2	21	48 - 96	
Anthracene	100	97	97	3.5	18	52 - 101	
Benzo(a)anthracene	100	92	92	3.0	16	52 - 110	
Benzo(b)fluoranthene	100	92	92	2.2	20	48 - 107	
Benzo(k)fluoranthene	100	93	93	3.7	20	53 - 109	
Benzo(ghi)perylene	100	95	95	1.1	17	48 - 109	
Benzo(a)pyrene	100	92	92	2.9	18	47 - 98	
bis(2-Chloroethoxy)methan	100	91	91	4.8	40	40 - 101	
bis(2-Chloroethyl) ether	100	99	99	6.9	26	36 - 104	
2,2'-Oxybis(1-Chloropropa	100	110	108	5.3	25	43 - 133	
bis(2-Ethylhexyl) phthala	100	95	94	1.2	23	44 - 133	
4-Bromophenyl phenyl ethe	100	97	96	2.3	17	56 - 110	
Butyl benzyl phthalate	100	80	80	3.2	18	46 - 115	
Carbazole	100	99	99	5.0	21	42 - 115	
4-Chloroaniline	100	80	80*	8.8	41	13 - 71	a
2-Chloronaphthalene	100	97	97	5.0	25	46 - 104	
4-Chlorophenyl phenyl eth	100	95	95	4.0	19	55 - 110	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-45-07

Lot #: A0G120127

WO #: DG2M4103

BATCH: 0194279

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Chrysene	100	89	89	2.3	16	54- 115	
Dibenz (a, h) anthracene	100	100	101	0.39	18	49- 110	
Dibenzofuran	100	95	95	4.5	20	53- 104	
Di-n-butyl phthalate	100	79	79	3.2	17	53- 109	
1,2-Dichlorobenzene	100	85	85	1.6	29	33- 91	
1,3-Dichlorobenzene	100	80	80	0.40	31	30- 86	
3,3'-Dichlorobenzidine	100	34	34	11	36	10- 71	
2,4-Dichlorophenol	100	94	94	3.9	26	43- 103	
Diethyl phthalate	100	27	27*	11	20	36- 117	a
2,4-Dimethylphenol	100	51	51	3.5	28	10- 88	
Dimethyl phthalate	100	13	13*	49	* 22	32- 124	a p
4,6-Dinitro-2-methylpheno	100	110	106	3.1	24	46- 123	
2,4-Dinitrophenol	100	110	109	6.1	32	30- 133	
2,6-Dinitrotoluene	100	100	102	5.3	16	58- 109	
Di-n-octyl phthalate	100	100	101	4.6	22	46- 124	
Fluoranthene	100	95	95	0.27	19	51- 113	
Fluorene	100	96	96	3.9	19	54- 105	
Hexachlorobenzene	100	95	95	0.70	22	36- 132	
Hexachlorobutadiene	100	80	80	0.49	32	18- 116	
Hexachlorocyclopentadiene	100	0.0	0*	0.0	59	10- 45	a
Hexachloroethane	100	77	77	2.6	33	18- 110	
Indeno (1, 2, 3-cd) pyrene	100	94	94	1.8	19	48- 113	
Isophorone	100	95	95	5.5	25	42- 102	
2-Methylnaphthalene	100	93	93	6.1	28	39- 102	
2-Methylphenol	100	89	89	8.0	31	29- 115	
4-Methylphenol	200	180	91	6.5	33	25- 144	
Naphthalene	100	92	92	5.0	26	39- 96	
2-Nitroaniline	100	100	102	5.7	17	44- 116	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP019

Matrix Spike ID: MPT-G4-GW-45-07

Lot #: A0G120127

WO #: DG2M4103

BATCH: 0194279

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	100	89	89	7.6	23	20 - 102	
4-Nitroaniline	100	91	91	7.6	26	25 - 95	
Nitrobenzene	100	96	96	5.4	50	10 - 211	
2-Nitrophenol	100	99	99	4.6	26	35 - 104	
N-Nitrosodiphenylamine	100	95	95	2.2	18	53 - 99	
Phenanthrene	100	97	97	2.3	18	55 - 109	
2,4,5-Trichlorophenol	100	96	96	4.3	22	24 - 143	
2,4,6-Trichlorophenol	100	97	97	3.3	27	36 - 135	

NOTES (S) :

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 1 out of 64 outside limits
 Spike Recovery: 4 out of 64 outside limits

COMMENTS:

STL - North Canton

Semivolatle REPORT SW-846 Method 8270

Data file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00727a.b\DFWD1101.D
 Lab Smp Id: DFWD1101 Client Smp ID: MPT-G4-GW-34-05
 Inj Date : 27-JUL-2000 19:25
 Operator : 001710 Inst ID: a4hp7.i
 Smp Info : dfwd1101,00727a.b,8270c,4-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp7.i\00727a.b\8270c.m
 Meth Date : 28-Jul-2000 13:14 gruberj Quant Type: ISTD
 Cal Date : 21-JUL-2000 14:54 Cal File: 7AHH0721.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV02

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4		152	7.145	7.147 (1.000)	296233	8.00000		(Q)
* 2 Naphthalene-d8		136	9.496	9.498 (1.000)	1101973	8.00000		
* 3 Acenaphthene-d10		164	12.973	12.976 (1.000)	672345	8.00000		
* 4 Phenanthrene-d10		188	15.954	15.951 (1.000)	957383	8.00000		
* 5 Chrysene-d12		240	21.286	21.288 (1.000)	720916	8.00000		
* 6 Perylene-d12		264	23.946	23.943 (1.000)	580608	8.00000		
7 N-Nitrosomorpholine		56						Compound Not Detected.
8 Ethyl methanesulfonate		79						Compound Not Detected.
9 Pyridine		79						Compound Not Detected.
10 N-Nitrosodimethylamine		74						Compound Not Detected.
11 Ethyl methacrylate		69						Compound Not Detected.
12 3-Chloropropionitrile		54						Compound Not Detected.
13 Malononitrile		66						Compound Not Detected.
14 2-Picoline		93						Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
15 N-Nitrosomethylethylamine	88				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
18 1,3-Dichloro-2-propanol	79				Compound Not Detected.		
19 N-Nitrosodiethylamine	102				Compound Not Detected.		
21 Aniline	93				Compound Not Detected.		
22 Phenol	94	6.557	6.554	(0.918)	54702	0.59076	1.4769(aQ)
23 bis(2-Chloroethyl) ether	93				Compound Not Detected.		
24 2-Chlorophenol	128				Compound Not Detected.		
25 Pentachloroethane	167				Compound Not Detected.		
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 bis(2-Chloroisopropyl) ether	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
193 3-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
36 N-Nitrosopyrrolidine	100				Compound Not Detected.		
37 Acetophenone	105				Compound Not Detected.		
39 o-Toluidine	106				Compound Not Detected.		
40 N-Nitrosopiperidine	114				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
45 O,O,O-Triethyl phosphorothioic	198				Compound Not Detected.		
46 2,4-Toluediamene	121				Compound Not Detected.		
47 1,3,5-Trichlorobenzene	180				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122	9.015	9.092	(0.949)	19303	0.81653	2.0413(QM) 2
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
53 a,a-Dimethyl-phenethylamine	58				Compound Not Detected.		
54 2,6-Dichlorophenol	162				Compound Not Detected.		
55 Hexachloropropene	213				Compound Not Detected.		
56 Hexachlorobutadiene	225				Compound Not Detected.		
57 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
58 N-Nitrosodi-n-butylamine	84				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
60 p-Phenylene diamine	108				Compound Not Detected.		
61 Safrole	162				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		
63 1-Methylnaphthalene	142				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
64 Hexachlorocyclopentadiene	237				Compound Not Detected.		
65 1,2,4,5-Tetrachlorobenzene	216				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
68 1,2,3,5-Tetrachlorobenzene	216				Compound Not Detected.		
69 1,4-Dinitrobenzene	168				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
71 Isosafrole 1	162				Compound Not Detected.		
M 188 Isosafrole, Total	162				Compound Not Detected.		
72 Isosafrole 2	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
74 1,2,3,4-Tetrachlorobenzene	216				Compound Not Detected.		
75 1,4-Naphthoquinone	158				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
77 m-Dinitrobenzene	168				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
80 1,2-Dinitrobenzene	168				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
84 Pentachlorobenzene	250				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
89 1-Naphthylamine	143				Compound Not Detected.		
90 Xinophos	97				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
101 Diphenylamine	169				Compound Not Detected.		
102 Tetraethyl dithiopyrophosphat	202				Compound Not Detected.		
103 Diallate 1	86				Compound Not Detected.		
M 189 Diallate, Total	100				Compound Not Detected.		
104 Phorate	121				Compound Not Detected.		
105 1,3,5-Trinitrobenzene	213				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	284				Compound Not Detected.		
108 Phenacetin	108				Compound Not Detected.		
109 Diallate 2	86				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
110 Dimethoate	87				Compound Not Detected.		
111 Pentachlorophenol	266				Compound Not Detected.		
112 Pentachloronitrobenzene	237				Compound Not Detected.		
113 4-Aminobiphenyl	169				Compound Not Detected.		
114 Pronamide	173				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
117 Dinoseb	211				Compound Not Detected.		
118 Disulfoton	88				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
121 4-Nitroquinoline 1-oxide	190				Compound Not Detected.		
122 Methapyrilene	58				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
126 Aramite 1	185				Compound Not Detected.		
N 191 Aramite, Total	100				Compound Not Detected.		
127 Aramite 2	185				Compound Not Detected.		
128 p-Dimethylamino azobenzene	225				Compound Not Detected.		
129 p-Chlorobenzilate	139				Compound Not Detected.		
130 Famphur	218				Compound Not Detected.		
131 Butylbensylphthalate	149				Compound Not Detected.		
132 3,3'-Dimethylbenzidine	212				Compound Not Detected.		
133 3,3'-Dimethoxybenzidine	244				Compound Not Detected.		
134 2-Acetylaminofluorene	181				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
138 4,4'-Methylene bis(o-chloroan	231				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149	21.531	21.534	(1.012)	79391	1.02906	2.5726
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracen	256				Compound Not Detected.		
144 Hexachlorophene	198				Compound Not Detected.		
145 Hexachlorophene product	462				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
148 3-Methylcholanthrene	268				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	8.149	8.152	(0.858)	1674758	20.2921	50.730
\$ 155 2-Fluorobiphenyl	172	11.670	11.672	(0.900)	2020153	19.3752	48.438
\$ 156 Terphenyl-d14	244	19.250	19.247	(0.904)	1999294	21.2884	53.221
\$ 157 Phenol-d5	99	6.536	6.533	(0.915)	2342362	30.6349	76.587
\$ 158 2-Fluorophenol	112	4.987	4.994	(0.698)	1538104	27.9172	69.793

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP019
Matrix: (soil/water) WG Lab Sample ID: A0G120127 005
Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 07/12/00
Work Order: DG2QH101 Date Extracted: 07/13/00
Dilution factor: 1 Date Analyzed: 07/19/00
Moisture %:

Client Sample Id: MPT-G4-GW-49-07 QC Batch: 0194279

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
140-57-8	Aramite	10		U

TO: T. HANSEN – PAGE 2
 DATE: APRIL 6, 2001

These data were evaluated based on the following parameters:

- * • Data Completeness
- * • Holding Times
- * • Calibration Recoveries
- Laboratory Blank Analyses
- * • Laboratory Control Sample Results
- * • ICP Interference Check Sample Results
- Matrix Spike / Matrix Spike Duplicate Recoveries
- MS/MSD Relative Percent Differences
- ICP Serial Dilution Results
- * • Sample Quantitation
- * • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level (aqueous)	Action Level (SPLP)	Action Level (soil)
Aluminum	33.3 µg/L	166.5 µg/L	NA	16.65 mg/kg
Aluminum ⁽²⁾	57.5 µg/L	NA	287.5 µg/L	NA
Barium	0.6 µg/L	3.0 µg/L	NA	0.3 mg/kg
Barium ⁽²⁾	4.6 µg/L	NA	23.0 µg/L	NA
Beryllium	0.3 µg/L	1.5 µg/L	1.5 µg/L	0.15 mg/kg
Cadmium	0.3 µg/L	1.5 µg/L	1.5 µg/L	0.15 mg/kg
Calcium	64.1 µg/L	320.5 µg/L	NA	NA
Calcium ⁽²⁾	293 µg/L	NA	1465 µg/L	NA
Calcium ⁽³⁾	12.5 mg/kg	NA	NA	62.5 mg/kg
Copper ⁽²⁾	1.1 µg/L	NA	5.5 µg/L	NA
Iron	26.9 µg/L	134.5 µg/L	NA	13.45 mg/kg
Iron ⁽²⁾	28.1 µg/L	NA	140.5 µg/L	NA
Lead	2.0 µg/L	10.0 µg/L	10.0 µg/L	1.0 mg/kg
Magnesium	38.1 µg/L	190.5 µg/L	NA	19.05 mg/kg
Magnesium ⁽²⁾	57.7 µg/L	NA	288.5 µg/L	NA
Manganese	1.0 µg/L	5.0 µg/L	NA	NA
Manganese ⁽²⁾	4.0 µg/L	NA	20.0 µg/L	NA
Manganese ⁽³⁾	0.15 mg/kg	NA	NA	0.75 mg/kg
Nickel ⁽²⁾	3.2 µg/L	NA	16.0 µg/L	NA
Potassium	235 µg/L	1175 µg/L	NA	117.5 mg/kg
Potassium ⁽²⁾	279 µg/L	NA	1395 µg/L	NA
Sodium ⁽²⁾	405 µg/L	NA	2025 µg/L	NA
Selenium	4.4 µg/L	22.0 µg/L	NA	2.2 mg/kg
Selenium ⁽²⁾	5.4 µg/L	NA	27.0 µg/L	NA
Tin ⁽³⁾	1.3 mg/kg	NA	NA	6.5 mg/kg
Zinc ⁽¹⁾	2.5 µg/L	12.5 µg/L	NA	NA
Zinc ⁽²⁾	18.2 µg/L	NA	91.0 µg/L	NA
Zinc ⁽³⁾	1.4 mg/kg	NA	NA	7.0 mg/kg

⁽¹⁾ Maximum concentration present in an aqueous preparation blank.

⁽²⁾ Maximum concentration present in a leachate blank.

⁽³⁾ Maximum concentration present in a soil preparation blank.

TO: T. HANSEN – PAGE 3
DATE: APRIL 6, 2001

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent moistures and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action levels for aluminum, barium, beryllium, cadmium, lead, manganese, nickel, potassium, selenium, tin and zinc were qualified, "U", as a result of blank contamination.

Matrix Spike and Matrix Spike Duplicate Results

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Percent Recoveries (%Rs) were < 75% quality control limit for antimony, affecting the SPLP matrix. All nondetected results reported for antimony were qualified as estimated, "UJ".

The MS and MSD %Rs were < 75% quality control limit for calcium, affecting the soil matrix. All positive results reported for calcium were qualified as estimated, "J".

The MSD percent recoveries were < 75% quality control limit for antimony and copper, affecting the soil matrix. All nondetected results reported for antimony were qualified as estimated, "UJ". All positive results reported for copper were qualified as estimated, "J".

The MS and MSD recoveries were both above and below the 75-125% quality control limits for aluminum, affecting the soil matrix. All positive results reported for aluminum were qualified as estimated, "J".

Notes

The MS/MSD RPDs for aluminum and calcium were >35% quality control limit, affecting the soil matrix. Validation action was not taken based on the MS/MSD comparison.

The MSD %R for tin was < 75% quality control limit, affecting the soil matrix. All results reported for tin were qualified "U" as a result of laboratory blank contamination; therefore, no further qualification was necessary.

The ICP serial dilution percent difference for zinc was >10% quality control limit, affecting the soil matrix. All results reported for zinc were qualified "U" as a result of laboratory blank contamination; therefore, no further qualification was necessary.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

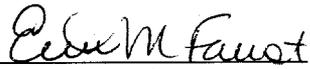
Other Factors Affecting Data Quality: Aluminum, antimony, calcium and copper were qualified due to MS and/or MSD noncompliance in the soil samples. Antimony was qualified due to MS/MSD noncompliance in the SPLP samples.

TO: T. HANSEN – PAGE 4
DATE: APRIL 6, 2001

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS
Erin M. Faust
Environmental Scientist


Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-SU66-05
03/05/01
A1C090105001
NORMAL
85.9 %
MG/KG

MPT-G4-SU67-05
03/05/01
A1C090105003
NORMAL
74.9 %
MG/KG

//
100.0 %

//
100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	644	J	D	2290	J	D						
ANTIMONY	0.58	UJ	D	0.67	UJ	D						
ARSENIC	0.58			1.6								
BARIUM	4.8			5.5								
BERYLLIUM	0.04	U	A	0.096	U	A						
CADMIUM	0.11	U	A	0.069	U	A						
CALCIUM	22000	J	D	31000	J	D						
CHROMIUM	2.8			5.0								
COBALT	0.32			0.63								
COPPER	6.6	J	D	1.2	J	D						
IRON	736			2420								
LEAD	2.7			2.3								
MAGNESIUM	153			538								
MANGANESE	8.4			27.5								
MERCURY	0.019	U		0.022	U							
MOLYBDENUM	0.31	U		0.43								
NICKEL	0.79			1.5								
POTASSIUM	46.5	U	A	184								
SELENIUM	0.49	U		0.56	U							
SILVER	0.18	U		0.20	U							
SODIUM	126			253								
THALLIUM	0.93	U		1.1	U							
TIN	1.3	U	A	0.91	U	A						
VANADIUM	2.1			5.5								
ZINC	6.4	U	A	7.4	U	A						

CTO091-NS MAYPORT
 SPLP DATA
 QUANTERRA
 SDG: MP038

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1640			591								
ANTIMONY	5.0	UJ	D	5.0	UJ	D						
ARSENIC	2.4	U		2.4	U							
BARIUM	14.2	U	A	7.1	U	A						
BERYLLIUM	0.18	U	A	0.10	U							
CADMIUM	0.28	U		0.28	U							
CALCIUM	12100			10100								
CHROMIUM	4.1			1.7								
COBALT	1.3	U		1.3	U							
COPPER	9.7			0.77	U							
IRON	1090			506								
LEAD	4.0	U	A	1.8	U							
MAGNESIUM	423			355								
MANGANESE	10.8	U	A	3.1	U	A						
MERCURY	0.10	U		0.10	U							
NICKEL	3.6	U	A	1.9	U	A						
POTASSIUM	307	U	A	402	U	A						
SELENIUM	5.2	U	A	6.8	U	A						
SILVER	1.5	U		1.5	U							
SODIUM	5450			5390								
THALLIUM	8.0	U		8.0	U							
VANADIUM	6.5			7.5								
ZINC	11.1	U	A	3.1	U	A						

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP038

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	119	U	A	139	U	A						
ANTIMONY	5.0	U		5.0	U							
ARSENIC	2.4	U		2.4	U							
BARIUM	9.3			5.6								
BERYLLIUM	0.10	U		0.13	U	A						
CADMIUM	0.28	U		0.28	U							
CALCIUM	123000			141000								
CHROMIUM	1.4	U		2.3								
COBALT	1.3	U		1.3	U							
COPPER	6.8			0.77	U							
IRON	1690			487								
LEAD	4.3	U	A	1.8	U							
MAGNESIUM	13200			20100								
MANGANESE	124			204								
MERCURY	0.10	U		0.10	U							
MOLYBDENUM	5.8			3.4								
NICKEL	2.0			26.3								
POTASSIUM	4390			16800								
SELENIUM	4.2	U		4.5	U	A						
SILVER	1.5	U		1.5	U							
SODIUM	17400			71700								
THALLIUM	8.0	U		8.0	U							
TIN	5.7	U		5.7	U							
VANADIUM	0.89	U		1.1								
ZINC	3.5	U	A	5.9	U	A						

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP038

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 FIELD DUPLICATE OF:

MPT-G4-GW66-05
 03/05/01
 A1C090105002
 NORMAL
 0.0 %

MPT-G4-GW67-05
 03/05/01
 A1C090105004
 NORMAL
 0.0 %

//

 100.0 %

//

 100.0 %

	RESULT	QUAL	CODE									
INORGANIC PARAMETERS												
CYANIDE(ug/L)	5.5			10	U							

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP038

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	85.9 %	74.9 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANIC PARAMETERS												
CYANIDE(MG/KG)	0.58	U		0.67	U							

**SPLP DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANIC PARAMETERS												
CYANIDE(MG/L)	0.01	U		0.01	U							

**CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANIC PARAMETERS												
CYANIDE(ug/L)	5.5			10	U							

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP038

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	85.9 %	74.9 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
CYANIDE(MG/KG)	0.58	U		0.67	U							

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW5X3 Client ID: MPT-G4-GW66-05
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	119	B	1	ICPST	3/15/01	18:15
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/15/01	18:15
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/15/01	18:15
Barium	493.41	0.18	200	9.3	B	1	ICPST	3/15/01	18:15
Beryllium	313.04	0.10	5.0	0.10	U	1	ICPST	3/15/01	18:15
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/15/01	18:15
Calcium	317.93	11.6	5000	123000		1	ICPST	3/15/01	18:15
Chromium	267.72	1.4	5.0	1.4	U	1	ICPST	3/15/01	18:15
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/15/01	18:15
Copper	324.75	0.77	25.0	6.8	B	1	ICPST	3/15/01	18:15
Iron	271.44	17.3	100	1690		1	ICPST	3/15/01	18:15
Lead	220.35	1.8	3.0	4.3		1	ICPST	3/15/01	18:15
Magnesium	279.08	19.0	5000	13200		1	ICPST	3/15/01	18:15
Manganese	257.61	0.18	15.0	124		1	ICPST	3/15/01	18:15
Molybdenum	202.03	2.7	40.0	5.8	B	1	ICPST	3/15/01	18:15
Nickel	231.60	1.5	40.0	2.0	B	1	ICPST	3/15/01	18:15
Potassium	766.49	20.2	5000	4390	B	1	ICPST	3/15/01	18:15
Selenium	196.03	4.2	5.0	4.2	U	1	ICPST	3/15/01	18:15
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/15/01	18:15
Sodium	330.23	256	5000	17400		1	ICPST	3/15/01	18:15
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/15/01	18:15
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/15/01	18:15
Vanadium	292.40	0.89	7.0	0.89	U	1	ICPST	3/15/01	18:15
Zinc	213.86	0.47	20.0	3.5	B	1	ICPST	3/15/01	18:15

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

U Result is less than the IDL

Form 1 Equivalent

B Result is between IDL and RL

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW5X3 Client ID: MPT-G4-GW66-05
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	8:53

Comments: Lot #: AIC090105 Sample #: 2

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW50X Client ID: MPT-G4-GW67-05
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	139	B	1	ICPST	3/15/01	18:48
Antimony	206.84	5.0	10.0	5.0	U	1	ICPST	3/15/01	18:48
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/15/01	18:48
Barium	493.41	0.18	200	5.6	B	1	ICPST	3/15/01	18:48
Beryllium	313.04	0.10	5.0	0.13	B	1	ICPST	3/15/01	18:48
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/15/01	18:48
Calcium	317.93	11.6	5000	141000		1	ICPST	3/15/01	18:48
Chromium	267.72	1.4	5.0	2.3	B	1	ICPST	3/15/01	18:48
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/15/01	18:48
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/15/01	18:48
Iron	271.44	17.3	100	487		1	ICPST	3/15/01	18:48
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/15/01	18:48
Magnesium	279.08	19.0	5000	20100		1	ICPST	3/15/01	18:48
Manganese	257.61	0.18	15.0	204		1	ICPST	3/15/01	18:48
Molybdenum	202.03	2.7	40.0	3.4	B	1	ICPST	3/15/01	18:48
Nickel	231.60	1.5	40.0	26.3	B	1	ICPST	3/15/01	18:48
Potassium	766.49	20.2	5000	16800		1	ICPST	3/15/01	18:48
Selenium	196.03	4.2	5.0	4.5	B	1	ICPST	3/15/01	18:48
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/15/01	18:48
Sodium	330.23	256	5000	71700		1	ICPST	3/15/01	18:48
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/15/01	18:48
Tin	189.99	5.7	50.0	5.7	U	1	ICPST	3/15/01	18:48
Vanadium	292.40	0.89	7.0	1.1	B	1	ICPST	3/15/01	18:48
Zinc	213.86	0.47	20.0	5.9	B	1	ICPST	3/15/01	18:48

Comments: Lot #: A1C090105 Sample #: 4

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW50X Client ID: MPT-G4-GW67-05
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	8:57

Comments: Lot #: A1C090105 Sample #: 4

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW5XE Client ID: MPT-G4-SU66-05
 Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094
 Weight: 1.00 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.3	23.3	644	N*	1	ICPST	3/21/01	17:57
Antimony	206.84	0.58	1.2	0.58	UN	1	ICPST	3/21/01	17:57
Arsenic	189.04	0.28	1.2	0.58	B	1	ICPST	3/21/01	17:57
Barium	493.41	0.021	23.3	4.8	B	1	ICPST	3/21/01	17:57
Beryllium	313.04	0.012	0.58	0.040	B	1	ICPST	3/21/01	17:57
Cadmium	226.50	0.033	0.23	0.11	B	1	ICPST	3/21/01	17:57
Calcium	317.93	1.4	582	22000	N*	1	ICPST	3/21/01	17:57
Chromium	267.72	0.16	0.58	2.8		1	ICPST	3/21/01	17:57
Cobalt	228.62	0.15	0.82	0.32	B	1	ICPST	3/21/01	17:57
Copper	324.75	0.090	2.9	6.6	N*	1	ICPST	3/21/01	17:57
Iron	271.44	2.0	11.6	736		1	ICPST	3/21/01	17:57
Lead	220.35	0.21	0.35	2.7		1	ICPST	3/21/01	17:57
Magnesium	279.08	2.2	582	153	B	1	ICPST	3/21/01	17:57
Manganese	257.61	0.021	1.8	8.4		1	ICPST	3/21/01	17:57
Molybdenum	202.03	0.31	4.7	0.31	U	1	ICPST	3/21/01	17:57
Nickel	231.60	0.18	4.7	0.79	B	1	ICPST	3/21/01	17:57
Potassium	766.49	2.4	582	46.5	B	1	ICPST	3/21/01	17:57
Selenium	196.03	0.49	0.58	0.49	U	1	ICPST	3/21/01	17:57
Silver	328.07	0.18	0.58	0.18	U	1	ICPST	3/21/01	17:57
Sodium	330.23	29.8	582	126	B	1	ICPST	3/21/01	17:57
Thallium	190.86	0.93	1.2	0.93	U	1	ICPST	3/21/01	17:57
Tin	189.99	0.66	5.8	1.3	BN	1	ICPST	3/21/01	17:57
Vanadium	292.40	0.10	0.82	2.1		1	ICPST	3/21/01	17:57
Zinc	213.86	0.055	2.3	6.4	L	1	ICPST	3/21/01	17:57

Comments: Lot #: A1C090105 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW5XE Client ID: MPT-G4-SU66-05
 Matrix: Soil Units: mg/kg Prep Date: 3/13/01 Prep Batch: 1071332Hg
 Weight: 0.6 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.019	0.039	0.019	U	1	CVAA	3/14/01	12:22

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW50T Client ID: MPT-G4-SU67-05
 Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094
 Weight: 1.00 Volume: 100 Percent Moisture: 25.1

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.5	26.7	2290	N*	1	ICPST	3/21/01	18:17
Antimony	206.84	0.67	1.3	0.67	UN	1	ICPST	3/21/01	18:17
Arsenic	189.04	0.32	1.3	1.6		1	ICPST	3/21/01	18:17
Barium	493.41	0.024	26.7	5.5	B	1	ICPST	3/21/01	18:17
Beryllium	313.04	0.013	0.67	0.096	B	1	ICPST	3/21/01	18:17
Cadmium	226.50	0.037	0.27	0.069	B	1	ICPST	3/21/01	18:17
Calcium	317.93	1.6	668	31000	N*	1	ICPST	3/21/01	18:17
Chromium	267.72	0.19	0.67	5.0		1	ICPST	3/21/01	18:17
Cobalt	228.62	0.17	0.94	0.63	B	1	ICPST	3/21/01	18:17
Copper	324.75	0.10	3.3	1.2	BN*	1	ICPST	3/21/01	18:17
Iron	271.44	2.3	13.4	2420		1	ICPST	3/21/01	18:17
Lead	220.35	0.24	0.40	2.3		1	ICPST	3/21/01	18:17
Magnesium	279.08	2.5	668	538	B	1	ICPST	3/21/01	18:17
Manganese	257.61	0.024	2.0	27.5		1	ICPST	3/21/01	18:17
Molybdenum	202.03	0.36	5.3	0.43	B	1	ICPST	3/21/01	18:17
Nickel	231.60	0.20	5.3	1.5	B	1	ICPST	3/21/01	18:17
Potassium	766.49	2.7	668	184	B	1	ICPST	3/21/01	18:17
Selenium	196.03	0.56	0.67	0.56	U	1	ICPST	3/21/01	18:17
Silver	328.07	0.20	0.67	0.20	U	1	ICPST	3/21/01	18:17
Sodium	330.23	34.2	668	253	B	1	ICPST	3/21/01	18:17
Thallium	190.86	1.1	1.3	1.1	U	1	ICPST	3/21/01	18:17
Tin	189.99	0.76	6.7	0.91	BN	1	ICPST	3/21/01	18:17
Vanadium	292.40	0.12	0.94	5.5		1	ICPST	3/21/01	18:17
Zinc	213.86	0.063	2.7	7.4	L	1	ICPST	3/21/01	18:17

Comments: Lot #: A1C090105 Sample #: 3

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW50T Client ID: MPT-G4-SU67-05
 Matrix: Soil Units: mg/kg Prep Date: 3/13/01 Prep Batch: 1071332Hg
 Weight: 0.6 Volume: 100 Percent Moisture: 25.1

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.022	0.045	0.022	U	1	CVAA	3/14/01	12:25

Comments: Lot #: A1C090105 Sample #: 3

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW5XEE Client ID: MPT-G4-SU66-05E
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	1640		1	ICPST	3/15/01	19:09
Antimony	206.84	5.0	10.0	5.0	UN	1	ICPST	3/15/01	19:09
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/15/01	19:09
Barium	493.41	0.18	200	14.2	B	1	ICPST	3/15/01	19:09
Beryllium	313.04	0.10	5.0	0.18	B	1	ICPST	3/15/01	19:09
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/15/01	19:09
Calcium	317.93	11.6	5000	12100		1	ICPST	3/15/01	19:09
Chromium	267.72	1.4	5.0	4.1	B	1	ICPST	3/15/01	19:09
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/15/01	19:09
Copper	324.75	0.77	25.0	9.7	B	1	ICPST	3/15/01	19:09
Iron	271.44	17.3	100	1090		1	ICPST	3/15/01	19:09
Lead	220.35	1.8	3.0	4.0		1	ICPST	3/15/01	19:09
Magnesium	279.08	19.0	5000	423	B	1	ICPST	3/15/01	19:09
Manganese	257.61	0.18	15.0	10.8	B	1	ICPST	3/15/01	19:09
Nickel	231.60	1.5	40.0	3.6	B	1	ICPST	3/15/01	19:09
Potassium	766.49	20.2	5000	307	B	1	ICPST	3/15/01	19:09
Selenium	196.03	4.2	5.0	5.2		1	ICPST	3/15/01	19:09
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/15/01	19:09
Sodium	330.23	256	5000	5450		1	ICPST	3/15/01	19:09
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/15/01	19:09
Vanadium	292.40	0.89	7.0	6.5	B	1	ICPST	3/15/01	19:09
Zinc	213.86	0.47	20.0	11.1	B	1	ICPST	3/15/01	19:09

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW5XEE Client ID: MPT-G4-SU66-05E
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	9:05

Comments: _____

Version 4.10.5

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW50TE Client ID: MPT-G4-SU67-05E
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.9	200	591		1	ICPST	3/15/01	19:19
Antimony	206.84	5.0	10.0	5.0	UN	1	ICPST	3/15/01	19:19
Arsenic	189.04	2.4	10.0	2.4	U	1	ICPST	3/15/01	19:19
Barium	493.41	0.18	200	7.1	B	1	ICPST	3/15/01	19:19
Beryllium	313.04	0.10	5.0	0.10	U	1	ICPST	3/15/01	19:19
Cadmium	226.50	0.28	2.0	0.28	U	1	ICPST	3/15/01	19:19
Calcium	317.93	11.6	5000	10100		1	ICPST	3/15/01	19:19
Chromium	267.72	1.4	5.0	1.7	B	1	ICPST	3/15/01	19:19
Cobalt	228.62	1.3	7.0	1.3	U	1	ICPST	3/15/01	19:19
Copper	324.75	0.77	25.0	0.77	U	1	ICPST	3/15/01	19:19
Iron	271.44	17.3	100	506		1	ICPST	3/15/01	19:19
Lead	220.35	1.8	3.0	1.8	U	1	ICPST	3/15/01	19:19
Magnesium	279.08	19.0	5000	355	B	1	ICPST	3/15/01	19:19
Manganese	257.61	0.18	15.0	3.1	B	1	ICPST	3/15/01	19:19
Nickel	231.60	1.5	40.0	1.9	B	1	ICPST	3/15/01	19:19
Potassium	766.49	20.2	5000	402	B	1	ICPST	3/15/01	19:19
Selenium	196.03	4.2	5.0	6.8		1	ICPST	3/15/01	19:19
Silver	328.07	1.5	5.0	1.5	U	1	ICPST	3/15/01	19:19
Sodium	330.23	256	5000	5390		1	ICPST	3/15/01	19:19
Thallium	190.86	8.0	10.0	8.0	U	1	ICPST	3/15/01	19:19
Vanadium	292.40	0.89	7.0	7.5		1	ICPST	3/15/01	19:19
Zinc	213.86	0.47	20.0	3.1	B	1	ICPST	3/15/01	19:19

Comments: _____

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DW50TE Client ID: MPT-G4-SU67-05E
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	9:07

Comments: _____

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU66-05

TOTAL General Chemistry

Lot-Sample #....: A1C090105-001 Work Order #....: DW5XE Matrix.....: SO
Date Sampled....: 03/05/01 14:50 Date Received...: 03/07/01
% Moisture.....: 14 Leach Date.....: 03/15/01 Leach Batch #...: P107501

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND		0.010	mg/L	SW846 9012A	03/16/01	1075251
		Dilution Factor: 1				

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU67-05

TOTAL General Chemistry

Lot-Sample #...: A1C090105-003 Work Order #...: DW50T Matrix.....: SO
Date Sampled...: 03/05/01 15:20 Date Received...: 03/07/01
% Moisture.....: 25 Leach Date.....: 03/15/01 Leach Batch #...: P107501

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	03/16/01	1075251
		Dilution Factor: 1				

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW66-05

General Chemistry

Lot-Sample #....: ALC090105-002 Work Order #....: DW5X3 Matrix.....: WG
Date Sampled....: 03/05/01 15:05 Date Received...: 03/07/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	5.5 B	10.0	ug/L	SW846 9012A	03/16/01	1075146
	Dilution Factor: 1					

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-GW67-05

General Chemistry

Lot-Sample #....: A1CG90105-004 Work Order #....: DW50X Matrix.....: WG
Date Sampled....: 03/05/01 15:40 Date Received...: 03/07/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/16/01	1075146
	Dilution Factor: 1					

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU66-05

General Chemistry

Lot-Sample #....: A1C090105-001 Work Order #....: DWSXE Matrix.....: SO
Date Sampled....: 03/05/01 14:50 Date Received...: 03/07/01
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	03/15/01	1074117

Dilution Factor: 1

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU67-05

General Chemistry

Lot-Sample #....: A1C090105-003 Work Order #....: DW50T Matrix.....: SO
Date Sampled....: 03/05/01 15:20 Date Received...: 03/07/01
% Moisture.....: 25

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.67	mg/kg	SW846 9012A	03/15/01	1074117
		Dilution Factor: 1				

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU66-05

General Chemistry

Lot-Sample #...: A1C090105-001 Work Order #...: DW5XE Matrix.....: SO
Date Sampled...: 03/05/01 14:50 Date Received...: 03/07/01
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	85.9	10.0	%	MCAWW 160.3 MOD	03/12-03/13/01	1071166
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU67-05

General Chemistry

Lot-Sample #....: A1C090105-003 Work Order #....: DW50T Matrix.....: SO
Date Sampled...: 03/05/01 15:20 Date Received...: 03/07/01
% Moisture.....: 25

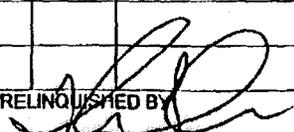
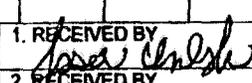
<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	74.9	10.0	%	MCAWW 160.3 MOD	03/12-03/13/01	1071166
	Dilution Factor: 1					

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

APPENDIX C
SUPPORT DOCUMENTATION

PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER Terra Hansen				LABORATORY NAME AND CONTACT: Quanterra / STL						
SAMPLERS (SIGNATURE) 				FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0900				ADDRESS 4101 Shuffel Dr NW						
				CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE N. Canton, OH						
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED						
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMB (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS				
						APP IX & TEL CAP YOC	APP IX & TEL CAP SYOC	APP IX & TEL CAP Metals	Cynide	Tin	Molybdenum	Mercury	SPLP	
3/5	1450	MPT-G4-SU66-05	S	G	6	X	X	X	X	X	X	X	X	Cool to 4°C
	1505	MPT-G4-GW66-05	GW		7	X	X	X	X	X	X	X	X	
	1520	MPT-G4-SU67-05	S		6	X	X	X	X	X	X	X	X	
	1540	MPT-G4-GW67-05	GW		7	X	X	X	X	X	X	X	X	
		MPT-G4-SU68-①	S		6	X	X	X	X	X	X	X	X	①
		MPT-G4-S①GW68-②	GW		7	X	X	X	X	X	X	X	X	②
1. RELINQUISHED BY 				DATE	TIME	1. RECEIVED BY 				DATE	TIME	3/99		
2. RELINQUISHED BY				DATE	TIME	2. RECEIVED BY				DATE	TIME	12:37B		
3. RELINQUISHED BY				DATE	TIME	3. RECEIVED BY				DATE	TIME			
COMMENTS 2.8°C														

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) FORM NO. TINUS-001

MP038

HOLDING TIME

04/04/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	CN	03/05/01	03/16/01	03/16/01	11	0	11
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	CN	03/05/01	03/16/01	03/16/01	11	0	11
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	HG	03/05/01	03/13/01	03/15/01	8	2	10
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	HG	03/05/01	03/13/01	03/15/01	8	2	10
MG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	HG	03/05/01	03/13/01	03/14/01	8	1	9
MG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	HG	03/05/01	03/13/01	03/14/01	8	1	9
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	M	03/05/01	03/13/01	03/15/01	8	2	10
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	M	03/05/01	03/13/01	03/15/01	8	2	10
MG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	M	03/05/01	03/19/01	03/21/01	14	2	16
MG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	M	03/05/01	03/19/01	03/21/01	14	2	16
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	OS	03/05/01	03/12/01	03/16/01	7	4	11
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	OS	03/05/01	03/12/01	03/16/01	7	4	11
UG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	OS	03/05/01	03/13/01	03/15/01	8	2	10
UG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	OS	03/05/01	03/13/01	03/15/01	8	2	10
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/L	TB03050101	A1C090105005	TRIP BLANK	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
MG/L	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	SPLPC	03/05/01	03/16/01	03/16/01	11	0	11
MG/L	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	SPLPC	03/05/01	03/16/01	03/16/01	11	0	11
UG/L	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	SPLPH	03/05/01	03/14/01	03/15/01	9	1	10
UG/L	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	SPLPH	03/05/01	03/14/01	03/15/01	9	1	10
UG/L	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	SPLPM	03/05/01	03/14/01	03/15/01	9	1	10
UG/L	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	SPLPM	03/05/01	03/14/01	03/15/01	9	1	10

ANALYTICAL METHODS SUMMARY

A1C090105

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Cyanide	SW846 9012A
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

ALC090105

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
DW5XE	001	MPT-G4-SU66-05	03/05/01	14:50
DW5X3	002	MPT-G4-GW66-05	03/05/01	15:05
DW50T	003	MPT-G4-SU67-05	03/05/01	15:20
DW50X	004	MPT-G4-GW67-05	03/05/01	15:40
DW500	005	TB03050101	03/05/01	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA

Units: ug/L

Chart Number: hg10314b.prn

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	Ck5ICV 3/14/01 12:09 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Mercury	253.7	2.5	2.47	98.8								

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA

Units: ug/L

Chart Number: hg10315a.prn

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	Ck51CV 3/15/01 8:38 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.38	95.4								

STL NORTH CANTON

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICV 3/15/01 10:58 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	12500.0	12980.95	103.8								
Antimony	206.838	250.0	249.34	99.7								
Arsenic	189.042	250.0	243.66	97.5								
Barium	493.409	1000.0	987.29	98.7								
Beryllium	313.042	1000.0	1035.24	103.5								
Cadmium	226.502	250.0	251.39	100.6								
Calcium	317.933	25000.0	25792.81	103.2								
Chromium	267.716	1000.0	1004.08	100.4								
Cobalt	228.616	1000.0	994.31	99.4								
Copper	324.753	1000.0	991.03	99.1								
Iron	271.441	12500.0	12914.34	103.3								
Lead	220.353	250.0	253.69	101.5								
Magnesium	279.078	25000.0	24839.48	99.4								
Manganese	257.61	1000.0	1025.57	102.6								
Molybdenum	202.03	1000.0	995.66	99.6								
Nickel	231.604	1000.0	1013.78	101.4								
Potassium	766.491	25000.0	26551.14	106.2								
Selenium	196.026	250.0	249.45	99.8								
Silver	328.068	500.0	489.25	97.8								
Sodium	330.232	25000.0	25169.94	100.7								
Thallium	190.864	500.0	497.78	99.6								
Tin	189.989	1000.0	971.42	97.1								
Vanadium	292.402	1000.0	999.93	100.0								
Zinc	213.856	1000.0	1020.66	102.1								

STL North Canton

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST

Units: ug/L

Chart Number: i50321a1.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICV 3/21/01 11:57 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	12500.0	12946.48	103.6								
Antimony	206.838	250.0	247.99	99.2								
Arsenic	189.042	250.0	243.14	97.3								
Barium	493.409	1000.0	983.14	98.3								
Beryllium	313.042	1000.0	1038.32	103.8								
Cadmium	226.502	250.0	253.19	101.3								
Calcium	317.933	25000.0	25926.70	103.7								
Chromium	267.716	1000.0	1004.93	100.5								
Cobalt	228.616	1000.0	992.67	99.3								
Copper	324.753	1000.0	983.35	98.3								
Iron	271.441	12500.0	12967.55	103.7								
Lead	220.353	250.0	254.08	101.6								
Magnesium	279.078	25000.0	24934.69	99.7								
Manganese	257.61	1000.0	1019.01	101.9								
Molybdenum	202.03	1000.0	993.01	99.3								
Nickel	231.604	1000.0	1015.07	101.5								
Potassium	766.491	25000.0	25192.27	100.8								
Selenium	196.026	250.0	243.80	97.5								
Silver	328.068	500.0	488.53	97.7								
Sodium	330.232	25000.0	25520.29	102.1								
Thallium	190.864	500.0	495.44	99.1								
Tin	189.989	1000.0	965.21	96.5								
Vanadium	292.402	1000.0	998.92	99.9								
Zinc	213.856	1000.0	1027.01	102.7								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: hg10314b.prn

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	Ck2CCV 3/14/01 12:16 PM		Ck2CCV 3/14/01 12:31 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.14	102.8	5.11	102.1						

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: hg10315a.prn

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	Ck2CCV 3/15/01 8:41 AM		Ck2CCV 3/15/01 8:59 AM		Ck2CCV 3/15/01 9:15 AM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.25	105.0	5.32	106.3	5.25	105.1				

STL NORTH CANTON

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/15/01 12:28 PM		CCV 3/15/01 1:56 PM		CCV 3/15/01 3:14 PM		CCV 3/15/01 4:15 PM		CCV 3/15/01 5:17 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Aluminum	308.215	25000.0	25146.27	100.6	25549.51	102.2	25082.22	100.3	25134.19	100.5	25182.42	100.7
Antimony	206.838	500.0	492.66	98.5	495.18	99.0	487.32	97.5	486.52	97.3	489.34	97.9
Arsenic	189.042	500.0	499.47	99.9	501.47	100.3	493.35	98.7	494.17	98.8	499.23	99.8
Barium	493.409	2000.0	1986.82	99.3	2010.66	100.5	1979.18	99.0	1992.96	99.6	1994.22	99.7
Beryllium	313.042	2000.0	2014.11	100.7	2019.57	101.0	1994.94	99.7	2003.84	100.2	2018.94	100.9
Cadmium	226.502	500.0	502.03	100.4	502.08	100.4	496.20	99.2	499.12	99.8	501.17	100.2
Calcium	317.933	50000.0	50714.16	101.4	50601.69	101.2	49873.51	99.7	50150.99	100.3	50610.55	101.2
Chromium	267.716	2000.0	1981.73	99.1	1987.22	99.4	1959.23	98.0	1968.23	98.4	1979.79	99.0
Cobalt	228.616	2000.0	1989.63	99.5	1985.37	99.3	1951.84	97.6	1958.94	97.9	1971.22	98.6
Copper	324.753	2000.0	1970.67	98.5	2001.45	100.1	1960.68	98.0	1968.13	98.4	1973.02	98.7
Iron	271.441	25000.0	25452.54	101.8	25530.71	102.1	25137.82	100.6	25073.00	100.3	25134.45	100.5
Lead	220.353	500.0	502.67	100.5	502.39	100.5	498.14	99.6	498.70	99.7	501.69	100.3
Magnesium	279.078	50000.0	49973.84	99.9	49766.09	99.5	49077.65	98.2	49326.77	98.7	49428.34	98.9
Manganese	257.61	2000.0	2033.82	101.7	2038.64	101.9	2025.99	101.3	2068.53	103.4	2088.78	104.4
Molybdenum	202.03	2000.0	1960.53	98.0	1960.77	98.0	1925.04	96.3	1935.09	96.8	1948.91	97.4
Nickel	231.604	2000.0	1998.45	99.9	1996.27	99.8	1970.86	98.5	1977.38	98.9	1984.32	99.2
Potassium	766.491	50000.0	52171.01	104.3	53271.95	106.5	52224.03	104.4	52362.84	104.7	52427.61	104.9
Selenium	196.026	500.0	503.65	100.7	506.34	101.3	498.91	99.8	501.57	100.3	502.92	100.6
Silver	328.068	1000.0	982.37	98.2	995.29	99.5	982.41	98.2	988.47	98.8	994.29	99.4
Sodium	330.232	50000.0	48945.55	97.9	49876.03	99.8	49025.80	98.1	49205.04	98.4	49304.59	98.6
Thallium	190.864	1000.0	1003.36	100.3	1006.32	100.6	987.63	98.8	989.50	98.9	996.64	99.7
Tin	189.989	5000.0	4845.54	96.9	4760.23	95.2	4625.43	92.5	4623.82	92.5	4655.34	93.1
Vanadium	292.402	2000.0	1971.13	98.6	1979.55	99.0	1949.00	97.4	1956.84	97.8	1967.09	98.4
Zinc	213.856	2000.0	2012.33	100.6	2017.12	100.9	1989.49	99.5	1995.99	99.8	2003.65	100.2

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/15/01 6:21 PM		CCV 3/15/01 7:25 PM		CCV 3/15/01 7:58 PM		Found	%	Found	%
			Found	% Rec	Found	% Rec	Found	% Rec				
Aluminum	308.215	25000.0	25218.85	100.9	25618.95	102.5	24906.66	99.6				
Antimony	206.838	500.0	491.78	98.4	496.34	99.3	486.82	97.4				
Arsenic	189.042	500.0	500.12	100.0	505.64	101.1	491.45	98.3				
Barium	493.409	2000.0	2004.16	100.2	2036.23	101.8	1988.88	99.4				
Beryllium	313.042	2000.0	2025.27	101.3	2047.10	102.4	1979.12	99.0				
Cadmium	226.502	500.0	503.07	100.6	507.66	101.5	491.04	98.2				
Calcium	317.933	50000.0	50503.03	101.0	50900.45	101.8	49216.09	98.4				
Chromium	267.716	2000.0	1982.97	99.1	2005.18	100.3	1938.26	96.9				
Cobalt	228.616	2000.0	1975.24	98.8	1994.82	99.7	1929.91	96.5				
Copper	324.753	2000.0	1982.22	99.1	2014.17	100.7	1962.74	98.1				
Iron	271.441	25000.0	25211.73	100.8	25489.98	102.0	24687.32	98.7				
Lead	220.353	500.0	501.02	100.2	505.59	101.1	492.42	98.5				
Magnesium	279.078	50000.0	49216.23	98.4	49678.08	99.4	48125.35	96.3				
Manganese	257.61	2000.0	2067.00	103.3	2079.95	104.0	2011.04	100.6				
Molybdenum	202.03	2000.0	1959.14	98.0	1983.11	99.2	1921.31	96.1				
Nickel	231.604	2000.0	1991.01	99.6	2013.09	100.7	1945.52	97.3				
Potassium	766.491	50000.0	52463.12	104.9	53275.76	106.6	52109.10	104.2				
Selenium	196.026	500.0	507.22	101.4	510.48	102.1	500.42	100.1				
Silver	328.068	1000.0	996.96	99.7	1010.96	101.1	983.38	98.3				
Sodium	330.232	50000.0	49368.64	98.7	49990.80	100.0	48868.34	97.7				
Thallium	190.864	1000.0	999.43	99.9	1013.56	101.4	979.12	97.9				
Tin	189.989	5000.0	4662.04	93.2	4695.39	93.9	4550.00	91.0				
Vanadium	292.402	2000.0	1971.87	98.6	1995.09	99.8	1933.03	96.7				
Zinc	213.856	2000.0	2010.76	100.5	2035.24	101.8	1973.34	98.7				

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: i50321a1.arcAcceptable Range: 90% - 110%Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/21/01 12:39 PM		CCV 3/21/01 1:43 PM		CCV 3/21/01 2:44 PM		CCV 3/21/01 5:46 PM		CCV 3/21/01 6:50 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25334.88	101.3	24946.39	99.8	25582.23	102.3	25217.19	100.9	26685.96	106.7
Antimony	206.838	500.0	492.61	98.5	480.78	96.2	494.94	99.0	481.78	96.4	510.38	102.1
Arsenic	189.042	500.0	500.69	100.1	490.20	98.0	500.44	100.1	491.66	98.3	516.80	103.4
Barium	493.409	2000.0	2000.66	100.0	1975.44	98.8	2016.84	100.8	1978.79	98.9	2101.02	105.1
Beryllium	313.042	2000.0	2042.78	102.1	1997.38	99.9	2052.09	102.6	2007.27	100.4	2109.41	105.5
Cadmium	226.502	500.0	507.45	101.5	495.20	99.0	507.12	101.4	496.10	99.2	520.84	104.2
Calcium	317.933	50000.0	51470.76	102.9	50150.22	100.3	51452.84	102.9	50143.30	100.3	52610.41	105.2
Chromium	267.716	2000.0	2006.99	100.3	1960.45	98.0	2014.21	100.7	1967.60	98.4	2070.71	103.5
Cobalt	228.616	2000.0	2011.88	100.6	1960.09	98.0	2011.86	100.6	1958.24	97.9	2059.76	103.0
Copper	324.753	2000.0	1975.94	98.8	1945.79	97.3	1990.92	99.5	1967.25	98.4	2081.69	104.1
Iron	271.441	25000.0	25951.41	103.8	25290.41	101.2	25934.51	103.7	25302.54	101.2	26507.96	106.0
Lead	220.353	500.0	504.94	101.0	491.95	98.4	506.54	101.3	492.84	98.6	517.06	103.4
Magnesium	279.078	50000.0	50352.94	100.7	49247.04	98.5	50545.80	101.1	49158.07	98.3	51911.04	103.8
Manganese	257.61	2000.0	2036.25	101.8	2010.06	100.5	2064.37	103.2	1971.20	98.6	2117.43	105.9
Molybdenum	202.03	2000.0	1983.18	99.2	1936.13	96.8	1985.17	99.3	1940.54	97.0	2046.22	102.3
Nickel	231.604	2000.0	2026.99	101.3	1978.85	98.9	2025.51	101.3	1984.09	99.2	2083.14	104.2
Potassium	766.491	50000.0	50854.93	101.7	50243.92	100.5	51409.02	102.8	50953.08	101.9	53650.40	107.3
Selenium	196.026	500.0	498.86	99.8	486.68	97.3	501.40	100.3	491.33	98.3	515.72	103.1
Silver	328.068	1000.0	983.96	98.4	969.15	96.9	992.79	99.3	980.87	98.1	1035.51	103.6
Sodium	330.232	50000.0	49185.33	98.4	48652.18	97.3	49660.08	99.3	48896.94	97.8	51739.39	103.5
Thallium	190.864	1000.0	1001.39	100.1	977.46	97.7	1003.53	100.4	983.80	98.4	1035.94	103.6
Tin	189.989	5000.0	4913.34	98.3	4730.85	94.6	4845.80	96.9	4667.26	93.3	4911.86	98.2
Vanadium	292.402	2000.0	1990.65	99.5	1946.37	97.3	1998.87	99.9	1955.09	97.8	2060.18	103.0
Zinc	213.856	2000.0	2036.93	101.8	1992.25	99.6	2039.02	102.0	2000.56	100.0	2102.84	105.1

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10314b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 3/14/01 12:10 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10315a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 3/15/01 8:39 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA

Units: ug/L

Chart Number: hg10315a.prn

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	Ck2CCV 3/15/01 8:41 AM		Ck2CCV 3/15/01 8:59 AM		Ck2CCV 3/15/01 9:15 AM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.25	105.0	5.32	106.3	5.25	105.1				

STL NORTH CANTON

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/15/01 12:28 PM		CCV 3/15/01 1:56 PM		CCV 3/15/01 3:14 PM		CCV 3/15/01 4:15 PM		CCV 3/15/01 5:17 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Aluminum	308.215	25000.0	25146.27	100.6	25549.51	102.2	25082.22	100.3	25134.19	100.5	25182.42	100.7
Antimony	206.838	500.0	492.66	98.5	495.18	99.0	487.32	97.5	486.52	97.3	489.34	97.9
Arsenic	189.042	500.0	499.47	99.9	501.47	100.3	493.35	98.7	494.17	98.8	499.23	99.8
Barium	493.409	2000.0	1986.82	99.3	2010.66	100.5	1979.18	99.0	1992.96	99.6	1994.22	99.7
Beryllium	313.042	2000.0	2014.11	100.7	2019.57	101.0	1994.94	99.7	2003.84	100.2	2018.94	100.9
Cadmium	226.502	500.0	502.03	100.4	502.08	100.4	496.20	99.2	499.12	99.8	501.17	100.2
Calcium	317.933	50000.0	50714.16	101.4	50601.69	101.2	49873.51	99.7	50150.99	100.3	50610.55	101.2
Chromium	267.716	2000.0	1981.73	99.1	1987.22	99.4	1959.23	98.0	1968.23	98.4	1979.79	99.0
Cobalt	228.616	2000.0	1989.63	99.5	1985.37	99.3	1951.84	97.6	1958.94	97.9	1971.22	98.6
Copper	324.753	2000.0	1970.67	98.5	2001.45	100.1	1960.68	98.0	1968.13	98.4	1973.02	98.7
Iron	271.441	25000.0	25452.54	101.8	25530.71	102.1	25137.82	100.6	25073.00	100.3	25134.45	100.5
Lead	220.353	500.0	502.67	100.5	502.39	100.5	498.14	99.6	498.70	99.7	501.69	100.3
Magnesium	279.078	50000.0	49973.84	99.9	49766.09	99.5	49077.65	98.2	49326.77	98.7	49428.34	98.9
Manganese	257.61	2000.0	2033.82	101.7	2038.64	101.9	2025.99	101.3	2068.53	103.4	2088.78	104.4
Molybdenum	202.03	2000.0	1960.53	98.0	1960.77	98.0	1925.04	96.3	1935.09	96.8	1948.91	97.4
Nickel	231.604	2000.0	1998.45	99.9	1996.27	99.8	1970.86	98.5	1977.38	98.9	1984.32	99.2
Potassium	766.491	50000.0	52171.01	104.3	53271.95	106.5	52224.03	104.4	52362.84	104.7	52427.61	104.9
Selenium	196.026	500.0	503.65	100.7	506.34	101.3	498.91	99.8	501.57	100.3	502.92	100.6
Silver	328.068	1000.0	982.37	98.2	995.29	99.5	982.41	98.2	988.47	98.8	994.29	99.4
Sodium	330.232	50000.0	48945.55	97.9	49876.03	99.8	49025.80	98.1	49205.04	98.4	49304.59	98.6
Thallium	190.864	1000.0	1003.36	100.3	1006.32	100.6	987.63	98.8	989.50	98.9	996.64	99.7
Tin	189.989	5000.0	4845.54	96.9	4760.23	95.2	4625.43	92.5	4623.82	92.5	4655.34	93.1
Vanadium	292.402	2000.0	1971.13	98.6	1979.55	99.0	1949.00	97.4	1956.84	97.8	1967.09	98.4
Zinc	213.856	2000.0	2012.33	100.6	2017.12	100.9	1989.49	99.5	1995.99	99.8	2003.65	100.2

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/15/01 6:21 PM		CCV 3/15/01 7:25 PM		CCV 3/15/01 7:58 PM		Found	%	Found	%
			Found	% Rec	Found	% Rec	Found	% Rec				
Aluminum	308.215	25000.0	25218.85	100.9	25618.95	102.5	24906.66	99.6				
Antimony	206.838	500.0	491.78	98.4	496.34	99.3	486.82	97.4				
Arsenic	189.042	500.0	500.12	100.0	505.64	101.1	491.45	98.3				
Barium	493.409	2000.0	2004.16	100.2	2036.23	101.8	1988.88	99.4				
Beryllium	313.042	2000.0	2025.27	101.3	2047.10	102.4	1979.12	99.0				
Cadmium	226.502	500.0	503.07	100.6	507.66	101.5	491.04	98.2				
Calcium	317.933	50000.0	50503.03	101.0	50900.45	101.8	49216.09	98.4				
Chromium	267.716	2000.0	1982.97	99.1	2005.18	100.3	1938.26	96.9				
Cobalt	228.616	2000.0	1975.24	98.8	1994.82	99.7	1929.91	96.5				
Copper	324.753	2000.0	1982.22	99.1	2014.17	100.7	1962.74	98.1				
Iron	271.441	25000.0	25211.73	100.8	25489.98	102.0	24687.32	98.7				
Lead	220.353	500.0	501.02	100.2	505.59	101.1	492.42	98.5				
Magnesium	279.078	50000.0	49216.23	98.4	49678.08	99.4	48125.35	96.3				
Manganese	257.61	2000.0	2067.00	103.3	2079.95	104.0	2011.04	100.6				
Molybdenum	202.03	2000.0	1959.14	98.0	1983.11	99.2	1921.31	96.1				
Nickel	231.604	2000.0	1991.01	99.6	2013.09	100.7	1945.52	97.3				
Potassium	766.491	50000.0	52463.12	104.9	53275.76	106.6	52109.10	104.2				
Selenium	196.026	500.0	507.22	101.4	510.48	102.1	500.42	100.1				
Silver	328.068	1000.0	996.96	99.7	1010.96	101.1	983.38	98.3				
Sodium	330.232	50000.0	49368.64	98.7	49990.80	100.0	48868.34	97.7				
Thallium	190.864	1000.0	999.43	99.9	1013.56	101.4	979.12	97.9				
Tin	189.989	5000.0	4662.04	93.2	4695.39	93.9	4550.00	91.0				
Vanadium	292.402	2000.0	1971.87	98.6	1995.09	99.8	1933.03	96.7				
Zinc	213.856	2000.0	2010.76	100.5	2035.24	101.8	1973.34	98.7				

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: i50321a1.arcAcceptable Range: 90% - 110%Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 3/21/01 12:39 PM		CCV 3/21/01 1:43 PM		CCV 3/21/01 2:44 PM		CCV 3/21/01 5:46 PM		CCV 3/21/01 6:50 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25334.88	101.3	24946.39	99.8	25582.23	102.3	25217.19	100.9	26685.96	106.7
Antimony	206.838	500.0	492.61	98.5	480.78	96.2	494.94	99.0	481.78	96.4	510.38	102.1
Arsenic	189.042	500.0	500.69	100.1	490.20	98.0	500.44	100.1	491.66	98.3	516.80	103.4
Barium	493.409	2000.0	2000.66	100.0	1975.44	98.8	2016.84	100.8	1978.79	98.9	2101.02	105.1
Beryllium	313.042	2000.0	2042.78	102.1	1997.38	99.9	2052.09	102.6	2007.27	100.4	2109.41	105.5
Cadmium	226.502	500.0	507.45	101.5	495.20	99.0	507.12	101.4	496.10	99.2	520.84	104.2
Calcium	317.933	50000.0	51470.76	102.9	50150.22	100.3	51452.84	102.9	50143.30	100.3	52610.41	105.2
Chromium	267.716	2000.0	2006.99	100.3	1960.45	98.0	2014.21	100.7	1967.60	98.4	2070.71	103.5
Cobalt	228.616	2000.0	2011.88	100.6	1960.09	98.0	2011.86	100.6	1958.24	97.9	2059.76	103.0
Copper	324.753	2000.0	1975.94	98.8	1945.79	97.3	1990.92	99.5	1967.25	98.4	2081.69	104.1
Iron	271.441	25000.0	25951.41	103.8	25290.41	101.2	25934.51	103.7	25302.54	101.2	26507.96	106.0
Lead	220.353	500.0	504.94	101.0	491.95	98.4	506.54	101.3	492.84	98.6	517.06	103.4
Magnesium	279.078	50000.0	50352.94	100.7	49247.04	98.5	50545.80	101.1	49158.07	98.3	51911.04	103.8
Manganese	257.61	2000.0	2036.25	101.8	2010.06	100.5	2064.37	103.2	1971.20	98.6	2117.43	105.9
Molybdenum	202.03	2000.0	1983.18	99.2	1936.13	96.8	1985.17	99.3	1940.54	97.0	2046.22	102.3
Nickel	231.604	2000.0	2026.99	101.3	1978.85	98.9	2025.51	101.3	1984.09	99.2	2083.14	104.2
Potassium	766.491	50000.0	50854.93	101.7	50243.92	100.5	51409.02	102.8	50953.08	101.9	53650.40	107.3
Selenium	196.026	500.0	498.86	99.8	486.68	97.3	501.40	100.3	491.33	98.3	515.72	103.1
Silver	328.068	1000.0	983.96	98.4	969.15	96.9	992.79	99.3	980.87	98.1	1035.51	103.6
Sodium	330.232	50000.0	49185.33	98.4	48652.18	97.3	49660.08	99.3	48896.94	97.8	51739.39	103.5
Thallium	190.864	1000.0	1001.39	100.1	977.46	97.7	1003.53	100.4	983.80	98.4	1035.94	103.6
Tin	189.989	5000.0	4913.34	98.3	4730.85	94.6	4845.80	96.9	4667.26	93.3	4911.86	98.2
Vanadium	292.402	2000.0	1990.65	99.5	1946.37	97.3	1998.87	99.9	1955.09	97.8	2060.18	103.0
Zinc	213.856	2000.0	2036.93	101.8	1992.25	99.6	2039.02	102.0	2000.56	100.0	2102.84	105.1

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10314b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 3/14/01 12:10 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10315a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 3/15/01 8:39 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 3/15/01 11:04 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Aluminum	308.215	200	10.9	U								
Antimony	206.838	10	5.0	U								
Arsenic	189.042	10	2.4	U								
Barium	493.409	200	0.2	B								
Beryllium	313.042	5	0.3	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	11.6	U								
Chromium	267.716	5	1.4	U								
Cobalt	228.616	7	1.3	U								
Copper	324.753	25	0.8	U								
Iron	271.441	100	17.3	U								
Lead	220.353	3	1.8	U								
Magnesium	279.078	5000	19.0	U								
Manganese	257.61	15	0.3	B								
Molybdenum	202.03	40	2.7	U								
Nickel	231.604	40	1.5	U								
Potassium	766.491	5000	222.0	B								
Selenium	196.026	5	4.2	U								
Silver	328.068	5	1.5	U								
Sodium	330.232	5000	256.0	U								
Thallium	190.864	10	8.0	U								
Tin	189.989	50	5.7	U								
Vanadium	292.402	7	0.9	U								
Zinc	213.856	20	0.5	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50321a1.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 3/21/01 12:03 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.9	U								
Antimony	206.838	10	5.0	U								
Arsenic	189.042	10	2.4	U								
Barium	493.409	200	0.3	B								
Beryllium	313.042	5	0.2	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	11.6	U								
Chromium	267.716	5	1.4	U								
Cobalt	228.616	7	1.3	U								
Copper	324.753	25	0.8	U								
Iron	271.441	100	17.3	U								
Lead	220.353	3	1.8	U								
Magnesium	279.078	5000	19.0	U								
Manganese	257.61	15	0.2	U								
Molybdenum	202.03	40	2.7	U								
Nickel	231.604	40	1.5	U								
Potassium	766.491	5000	164.0	B								
Selenium	196.026	5	4.2	U								
Silver	328.068	5	1.5	U								
Sodium	330.232	5000	-460.0	B								
Thallium	190.864	10	8.0	U								
Tin	189.989	50	5.7	U								
Vanadium	292.402	7	0.9	U								
Zinc	213.856	20	0.5	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10314b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 3/14/01 12:17 PM		Ck1CCB 3/14/01 12:32 PM							
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U						

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10315a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 3/15/01 8:42 AM	Ck1CCB 3/15/01 9:00 AM	Ck1CCB 3/15/01 9:17 AM		
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	-0.1 B	-0.1 B	0.1 U		

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 3/15/01 12:33 PM		CCB 3/15/01 2:02 PM		CCB 3/15/01 3:20 PM		CCB 3/15/01 4:22 PM		CCB 3/15/01 5:23 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	33.3	B	19.1	B	21.7	B	21.1	B	25.0	B
Antimony	206.838	10	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	189.042	10	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
Barium	493.409	200	0.3	B	0.2	B	0.4	B	0.6	B	0.3	B
Beryllium	313.042	5	0.3	B	0.3	B	0.3	B	0.3	B	0.3	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	18.4	B	11.6	U	11.6	U	64.1	B	53.6	B
Chromium	267.716	5	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Cobalt	228.616	7	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Copper	324.753	25	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Iron	271.441	100	17.3	U	17.3	U	17.3	U	26.9	B	25.7	B
Lead	220.353	3	2.0	B	1.8	U	1.8	U	1.8	U	1.8	U
Magnesium	279.078	5000	28.8	B	19.0	U	19.0	U	38.1	B	32.2	B
Manganese	257.61	15	0.4	B	0.3	B	0.3	B	0.8	B	1.0	B
Molybdenum	202.03	40	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
Nickel	231.604	40	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Potassium	766.491	5000	219.0	B	225.0	B	224.0	B	235.0	B	225.0	B
Selenium	196.026	5	4.2	U	4.2	U	4.3	B	4.2	U	4.2	U
Silver	328.068	5	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Sodium	330.232	5000	256.0	U	256.0	U	256.0	U	256.0	U	256.0	U
Thallium	190.864	10	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
Tin	189.989	50	5.7	U	5.7	U	5.7	U	5.7	U	5.7	U
Vanadium	292.402	7	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Zinc	213.856	20	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 3/15/01 6:28 PM		CCB 3/15/01 7:32 PM		CCB 3/15/01 8:04 PM		Found	Q
			Found	Q	Found	Q	Found	Q		
Aluminum	308.215	200	24.1	B	22.6	B	23.9	B		
Antimony	206.838	10	5.0	U	5.0	U	5.0	U		
Arsenic	189.042	10	2.4	U	2.4	U	2.4	U		
Barium	493.409	200	0.4	B	0.2	B	0.5	B		
Beryllium	313.042	5	0.3	B	0.3	B	0.3	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	B		
Calcium	317.933	5000	11.6	U	11.6	U	11.6	U		
Chromium	267.716	5	1.4	U	1.4	U	1.4	U		
Cobalt	228.616	7	1.3	U	1.3	U	1.3	U		
Copper	324.753	25	0.8	U	0.8	U	0.8	U		
Iron	271.441	100	24.8	B	17.3	U	17.3	U		
Lead	220.353	3	1.8	U	1.8	U	1.8	U		
Magnesium	279.078	5000	19.0	U	19.0	U	19.0	U		
Manganese	257.61	15	0.4	B	0.2	B	0.4	B		
Molybdenum	202.03	40	2.7	U	2.7	U	2.7	U		
Nickel	231.604	40	1.5	U	1.5	U	1.5	U		
Potassium	766.491	5000	233.0	B	229.0	B	221.0	B		
Selenium	196.026	5	4.2	U	4.2	U	4.4	B		
Silver	328.068	5	1.5	U	1.5	U	1.5	U		
Sodium	330.232	5000	256.0	U	256.0	U	256.0	U		
Thallium	190.864	10	8.0	U	8.0	U	8.0	U		
Tin	189.989	50	5.7	U	5.7	U	5.7	U		
Vanadium	292.402	7	0.9	U	0.9	U	0.9	U		
Zinc	213.856	20	0.5	U	-0.6	B	0.5	U		

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50321a1.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 3/21/01 12:45 PM		CCB 3/21/01 1:49 PM		CCB 3/21/01 2:51 PM		CCB 3/21/01 5:52 PM		CCB 3/21/01 6:56 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	10.9	U	10.9	U	13.9	B	22.9	B	32.3	B
Antimony	206.838	10	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Arsenic	189.042	10	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
Barium	493.409	200	0.3	B	0.3	B	0.3	B	0.3	B	0.4	B
Beryllium	313.042	5	0.3	B	0.2	B	0.2	B	0.3	B	0.3	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	11.6	U	11.6	U	16.0	B	11.6	U	11.6	U
Chromium	267.716	5	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Cobalt	228.616	7	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Copper	324.753	25	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Iron	271.441	100	26.0	B	17.3	U	17.3	U	17.3	U	20.9	B
Lead	220.353	3	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
Magnesium	279.078	5000	19.0	U	19.0	U	19.0	U	19.0	U	19.0	U
Manganese	257.61	15	0.2	U	0.2	B	0.2	U	0.2	U	0.4	B
Molybdenum	202.03	40	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
Nickel	231.604	40	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Potassium	766.491	5000	161.0	B	156.0	B	157.0	B	159.0	B	158.0	B
Selenium	196.026	5	4.2	U	4.2	U	4.2	U	4.2	U	4.2	U
Silver	328.068	5	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Sodium	330.232	5000	256.0	U	-320.0	B	-360.0	B	-330.0	B	-330.0	B
Thallium	190.864	10	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U
Tin	189.989	50	5.7	U	5.7	U	5.7	U	5.7	U	5.7	U
Vanadium	292.402	7	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Zinc	213.856	20	1.0	B	0.9	B	0.8	B	1.2	B	1.1	B

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DW9A1B

Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326

Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.9	200	23.3	B	1	ICPST	3/15/01	18:05
Antimony	206.838	5.0	10.0	5.0	U	1	ICPST	3/15/01	18:05
Arsenic	189.042	2.4	10.0	2.4	U	1	ICPST	3/15/01	18:05
Barium	493.409	0.18	200	0.36	B	1	ICPST	3/15/01	18:05
Beryllium	313.042	0.10	5.0	0.10	U	1	ICPST	3/15/01	18:05
Cadmium	226.502	0.28	2.0	0.28	U	1	ICPST	3/15/01	18:05
Calcium	317.933	11.6	5000	38.4	B	1	ICPST	3/15/01	18:05
Chromium	267.716	1.4	5.0	1.4	U	1	ICPST	3/15/01	18:05
Cobalt	228.616	1.3	7.0	1.3	U	1	ICPST	3/15/01	18:05
Copper	324.753	0.77	25.0	0.77	U	1	ICPST	3/15/01	18:05
Iron	271.441	17.3	100	17.3	U	1	ICPST	3/15/01	18:05
Lead	220.353	1.8	3.0	1.8	U	1	ICPST	3/15/01	18:05
Magnesium	279.078	19.0	5000	19.0	U	1	ICPST	3/15/01	18:05
Manganese	257.61	0.18	15.0	0.53	B	1	ICPST	3/15/01	18:05
Molybdenum	202.03	2.7	40.0	2.7	U	1	ICPST	3/15/01	18:05
Nickel	231.604	1.5	40.0	1.5	U	1	ICPST	3/15/01	18:05
Potassium	766.491	20.2	5000	223	B	1	ICPST	3/15/01	18:05
Selenium	196.026	4.2	5.0	4.2	U	1	ICPST	3/15/01	18:05
Silver	328.068	1.5	5.0	1.5	U	1	ICPST	3/15/01	18:05
Sodium	330.232	256	5000	256	U	1	ICPST	3/15/01	18:05
Thallium	190.864	8.0	10.0	8.0	U	1	ICPST	3/15/01	18:05
Tin	189.989	5.7	50.0	5.7	U	1	ICPST	3/15/01	18:05
Vanadium	292.402	0.89	7.0	0.89	U	1	ICPST	3/15/01	18:05
Zinc	213.856	0.47	20.0	2.5	B	1	ICPST	3/15/01	18:05

Comments: _____

Version 4.10.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DW9A1B

Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326Hg

Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	8:49

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DW9CHB

Matrix: Soil Units: mg/kg Prep Date: 3/13/01 Prep Batch: 1071332Hg

Weight: 0.6 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.017	0.033	0.017	U	1	CVAA	3/14/01	12:18

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DW8XJBE

Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303

Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.9	200	57.5	B	1	ICPST	3/15/01	18:54
Antimony	206.838	5.0	10.0	5.0	U	1	ICPST	3/15/01	18:54
Arsenic	189.042	2.4	10.0	2.4	U	1	ICPST	3/15/01	18:54
Barium	493.409	0.18	200	4.6	B	1	ICPST	3/15/01	18:54
Beryllium	313.042	0.10	5.0	0.10	B	1	ICPST	3/15/01	18:54
Cadmium	226.502	0.28	2.0	0.28	U	1	ICPST	3/15/01	18:54
Calcium	317.933	11.6	5000	293	B	1	ICPST	3/15/01	18:54
Chromium	267.716	1.4	5.0	1.4	U	1	ICPST	3/15/01	18:54
Cobalt	228.616	1.3	7.0	1.3	U	1	ICPST	3/15/01	18:54
Copper	324.753	0.77	25.0	1.1	B	1	ICPST	3/15/01	18:54
Iron	271.441	17.3	100	28.1	B	1	ICPST	3/15/01	18:54
Lead	220.353	1.8	3.0	1.8	U	1	ICPST	3/15/01	18:54
Magnesium	279.078	19.0	5000	57.7	B	1	ICPST	3/15/01	18:54
Manganese	257.61	0.18	15.0	4.0	B	1	ICPST	3/15/01	18:54
Nickel	231.604	1.5	40.0	1.6	B	1	ICPST	3/15/01	18:54
Potassium	766.491	20.2	5000	279	B	1	ICPST	3/15/01	18:54
Selenium	196.026	4.2	5.0	5.4	U	1	ICPST	3/15/01	18:54
Silver	328.068	1.5	5.0	1.5	U	1	ICPST	3/15/01	18:54
Sodium	330.232	256	5000	405	B	1	ICPST	3/15/01	18:54
Thallium	190.864	8.0	10.0	8.0	U	1	ICPST	3/15/01	18:54
Vanadium	292.402	0.89	7.0	0.89	U	1	ICPST	3/15/01	18:54
Zinc	213.856	0.47	20.0	18.2	B	1	ICPST	3/15/01	18:54

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXAG6BE

Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303

Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.9	200	28.3	B	1	ICPST	3/15/01	18:59
Antimony	206.838	5.0	10.0	5.0	U	1	ICPST	3/15/01	18:59
Arsenic	189.042	2.4	10.0	2.4	U	1	ICPST	3/15/01	18:59
Barium	493.409	0.18	200	0.21	B	1	ICPST	3/15/01	18:59
Beryllium	313.042	0.10	5.0	0.10	U	1	ICPST	3/15/01	18:59
Cadmium	226.502	0.28	2.0	0.28	U	1	ICPST	3/15/01	18:59
Calcium	317.933	11.6	5000	38.5	B	1	ICPST	3/15/01	18:59
Chromium	267.716	1.4	5.0	1.4	U	1	ICPST	3/15/01	18:59
Cobalt	228.616	1.3	7.0	1.3	U	1	ICPST	3/15/01	18:59
Copper	324.753	0.77	25.0	0.77	U	1	ICPST	3/15/01	18:59
Iron	271.441	17.3	100	17.3	U	1	ICPST	3/15/01	18:59
Lead	220.353	1.8	3.0	1.8	U	1	ICPST	3/15/01	18:59
Magnesium	279.078	19.0	5000	19.0	U	1	ICPST	3/15/01	18:59
Manganese	257.61	0.18	15.0	0.63	B	1	ICPST	3/15/01	18:59
Nickel	231.604	1.5	40.0	3.2	B	1	ICPST	3/15/01	18:59
Potassium	766.491	20.2	5000	219	B	1	ICPST	3/15/01	18:59
Selenium	196.026	4.2	5.0	4.2	U	1	ICPST	3/15/01	18:59
Silver	328.068	1.5	5.0	1.5	U	1	ICPST	3/15/01	18:59
Sodium	330.232	256	5000	256	U	1	ICPST	3/15/01	18:59
Thallium	190.864	8.0	10.0	8.0	U	1	ICPST	3/15/01	18:59
Vanadium	292.402	0.89	7.0	0.89	U	1	ICPST	3/15/01	18:59
Zinc	213.856	0.47	20.0	4.9	B	1	ICPST	3/15/01	18:59

Comments: _____

Version 4.10.5

U Result is less than the IDL

Form 3 Equivalent

B Result is between IDL and RL

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXAG6BE
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	9:01

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DW8XJBE

Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg

Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	3/15/01	9:04

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXKX2B

Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094

Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	1.1	20.0	2.9	B	1	ICPST	3/21/01	17:35
Antimony	206.838	0.50	1.0	0.50	U	1	ICPST	3/21/01	17:35
Arsenic	189.042	0.24	1.0	0.24	U	1	ICPST	3/21/01	17:35
Barium	493.409	0.018	20.0	0.028	B	1	ICPST	3/21/01	17:35
Beryllium	313.042	0.010	0.50	0.010	U	1	ICPST	3/21/01	17:35
Cadmium	226.502	0.028	0.20	0.028	U	1	ICPST	3/21/01	17:35
Calcium	317.933	1.2	500	12.5	B	1	ICPST	3/21/01	17:35
Chromium	267.716	0.14	0.50	0.14	U	1	ICPST	3/21/01	17:35
Cobalt	228.616	0.13	0.70	0.13	U	1	ICPST	3/21/01	17:35
Copper	324.753	0.077	2.5	0.077	U	1	ICPST	3/21/01	17:35
Iron	271.441	1.7	10.0	1.7	U	1	ICPST	3/21/01	17:35
Lead	220.353	0.18	0.30	0.18	U	1	ICPST	3/21/01	17:35
Magnesium	279.078	1.9	500	1.9	U	1	ICPST	3/21/01	17:35
Manganese	257.61	0.018	1.5	0.15	B	1	ICPST	3/21/01	17:35
Molybdenum	202.03	0.27	4.0	0.27	U	1	ICPST	3/21/01	17:35
Nickel	231.604	0.15	4.0	0.15	U	1	ICPST	3/21/01	17:35
Potassium	766.491	2.0	500	16.9	B	1	ICPST	3/21/01	17:35
Selenium	196.026	0.42	0.50	0.42	U	1	ICPST	3/21/01	17:35
Silver	328.068	0.15	0.50	0.15	U	1	ICPST	3/21/01	17:35
Sodium	330.232	25.6	500	-53	B	1	ICPST	3/21/01	17:35
Thallium	190.864	0.80	1.0	0.80	U	1	ICPST	3/21/01	17:35
Tin	189.989	0.57	5.0	1.3	B	1	ICPST	3/21/01	17:35
Vanadium	292.402	0.089	0.70	0.089	U	1	ICPST	3/21/01	17:35
Zinc	213.856	0.047	2.0	1.4	B	1	ICPST	3/21/01	17:35

Comments: _____

Version 4.10.5

U Result is less than the IDL.

B Result is between IDL and RL

Form 3 Equivalent

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1C090105

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	Work Order #: DXERJ1AA 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	A1C150000-117 03/15/01	1074117
		Dilution Factor: 1				
DI Leachable Cyanide	ND	Work Order #: DXHMH1AA 0.010	mg/L	MB Lot-Sample #: SW846 9012A	A1C160000-251 03/16/01	1075251
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DW8XA1AA 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A1C120000-166 03/12-03/13/01	1071166
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1C090105

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW845 9012A	03/16/01	1075146
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1C090105

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
DI Leachable Cyanide	ND	Work Order #: DXG5V1AA 0.010	mg/L	MB Lot-Sample #: SW846 9012A	A1C160000-150 03/16/01	1075251

Dilution Factor: 1

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/15/01 11:21 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	484000					
Antimony	206.838	10		1					
Arsenic	189.042	10		-2					
Barium	493.409	200		2					
Beryllium	313.042	5		0					
Cadmium	226.502	2		2					
Calcium	317.933		500000	475000					
Chromium	267.716	5		0					
Cobalt	228.616	7		4					
Copper	324.753	25		3					
Iron	271.441		200000	191000					
Lead	220.353	3		2					
Magnesium	279.078		500000	511000					
Manganese	257.61	15		7					
Molybdenum	202.03	40		0					
Nickel	231.604	40		4					
Potassium	766.491	5000		219					
Selenium	196.026	5		-1					
Silver	328.068	5		0					
Sodium	330.232	5000		260					
Thallium	190.864	10		-2					
Tin	189.989	50		2					
Vanadium	292.402	7		-2					
Zinc	213.856	20		25					

STL NORTH CANTON

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i50321a1.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/21/01 12:20 PM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	475000					
Antimony	206.838	10		-2					
Arsenic	189.042	10		0					
Barium	493.409	200		2					
Beryllium	313.042	5		0					
Cadmium	226.502	2		0					
Calcium	317.933		500000	468000					
Chromium	267.716	5		1					
Cobalt	228.616	7		4					
Copper	324.753	25		1					
Iron	271.441		200000	188000					
Lead	220.353	3		0					
Magnesium	279.078		500000	503000					
Manganese	257.61	15		6					
Molybdenum	202.03	40		0					
Nickel	231.604	40		3					
Potassium	766.491	5000		155					
Selenium	196.026	5		-6					
Silver	328.068	5		1					
Sodium	330.232	5000		47					
Thallium	190.864	10		-2					
Tin	189.989	50		4					
Vanadium	292.402	7		-2					
Zinc	213.856	20		24					

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i50315a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 3/15/01 12:23 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	478764.7	95.8								
Antimony	206.838	1000	1149.4	114.9								
Arsenic	189.042	1000	982.6	98.3								
Barium	493.409	500	517.4	103.5								
Beryllium	313.042	500	509.2	101.8								
Cadmium	226.502	1000	999.8	100.0								
Calcium	317.933	500000	470994.1	94.2								
Chromium	267.716	500	488.8	97.8								
Cobalt	228.616	500	484.7	96.9								
Copper	324.753	500	545.1	109.0								
Iron	271.441	200000	189529.7	94.8								
Lead	220.353	1000	980.5	98.1								
Magnesium	279.078	500000	505682.6	101.1								
Manganese	257.61	500	517.3	103.5								
Molybdenum	202.03	1000	981.2	98.1								
Nickel	231.604	1000	950.4	95.0								
Potassium	766.491	10000	12021.8	120.2								
Selenium	196.026	1000	987.1	98.7								
Silver	328.068	1000	1029.3	102.9								
Sodium	330.232	10000	10699.4	107.0								
Thallium	190.864	1000	974.0	97.4								
Tin	189.989	1000	930.6	93.1								
Vanadium	292.402	500	490.3	98.1								
Zinc	213.856	1000	1060.6	106.1								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i50321a1.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 3/21/01 12:25 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	496575.7	99.3								
Antimony	206.838	1000	1187.9	118.8								
Arsenic	189.042	1000	1007.8	100.8								
Barium	493.409	500	528.2	105.6								
Beryllium	313.042	500	524.7	104.9								
Cadmium	226.502	1000	1032.4	103.2								
Calcium	317.933	500000	488370.9	97.7								
Chromium	267.716	500	503.4	100.7								
Cobalt	228.616	500	499.6	99.9								
Copper	324.753	500	555.6	111.1								
Iron	271.441	200000	196849.8	98.4								
Lead	220.353	1000	1012.0	101.2								
Magnesium	279.078	500000	525390.4	105.1								
Manganese	257.61	500	526.7	105.3								
Molybdenum	202.03	1000	1008.5	100.9								
Nickel	231.604	1000	984.9	98.5								
Potassium	766.491	10000	11178.8	111.8								
Selenium	196.026	1000	1003.7	100.4								
Silver	328.068	1000	1052.9	105.3								
Sodium	330.232	10000	11062.1	110.6								
Thallium	190.864	1000	998.9	99.9								
Tin	189.989	1000	969.8	97.0								
Vanadium	292.402	500	503.6	100.7								
Zinc	213.856	1000	1091.0	109.1								

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DW5X3S
 Original Sample ID: DW5X3 Client ID: MPT-G4-GW66-05S
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	119	B	2280		2000	108.1	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Antimony	206.8	5.0	U	520		500	103.9	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Arsenic	189.0	2.4	U	2020		2000	101.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Barium	493.4	9.3	B	2030		2000	101.2	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Beryllium	313.0	0.10	U	50.4		50	100.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Cadmium	226.5	0.28	U	50.2		50	100.4	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Calcium	317.9	123000		170000		50000	94.9	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Chromium	267.7	1.4	U	200		200	99.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Cobalt	228.6	1.3	U	483		500	96.6	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Copper	324.8	6.8	B	255		250	99.2	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Iron	271.4	1690		2720		1000	103.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Lead	220.4	4.3		512		500	101.5	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Magnesium	279.1	13200		63400		50000	100.4	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Manganese	257.6	124		646		500	104.5	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Molybdenum	202.0	5.8	B	979		1000	97.3	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Nickel	231.6	2.0	B	496		500	98.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Potassium	766.5	4390	B	59400		50000	109.9	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Selenium	196.0	4.2	U	2110		2000	105.5	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Silver	328.1	1.5	U	56.9		50	113.9	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Sodium	330.2	17400		69800		50000	104.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Thallium	190.9	8.0	U	2000		2000	100.1	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Tin	190	5.7	U	1880		2000	93.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Vanadium	292.4	0.89	U	499		500	99.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:37
Zinc	213.9	3.5	B	524		500	104.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:37

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

U Result is less than the IDL.
 B Result is between IDL and RL
 N Spike recovery failed
 NC Percent recovery was not calculated

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DW5X3S
 Original Sample ID: DW5X3 Client ID: MPT-G4-GW66-05S
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.10	U	1.0		1	103.3	1	1	CVAA	3/15/01	8:53	3/15/01	8:55

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

- U Result is less than the IDL.
- B Result is between IDL and RL.
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DW5XES
 Original Sample ID: DW5XE Client ID: MPT-G4-SU66-05S
 Matrix: Soil Units: mg/kg Prep Date: 3/13/01 Prep Batch: 1071332Hg
 Weight: 0.6 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.019	U	0.19		0.1940	100.0	1	1	CVAA	3/14/01	12:22	3/14/01	12:23

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DW50TES
 Original Sample ID: DW50TE Client ID: MPT-G4-SU67-05ES
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc		MS Conc		Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	591		2930		2000	116.8	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Antimony	206.8	5.0	U	245	N	500	49.0	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Arsenic	189.0	2.4	U	4960		5000	99.2	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Barium	493.4	7.1	B	48700		50000	97.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Beryllium	313.0	0.10	U	54.2		50	108.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Cadmium	226.5	0.28	U	1030		1000	102.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Calcium	317.9	10100		62300		50000	104.5	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Chromium	267.7	1.7	B	5070		5000	101.3	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Cobalt	228.6	1.3	U	469		500	93.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Copper	324.8	0.77	U	251		250	100.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Iron	271.4	506		1710		1000	120.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Lead	220.4	1.8	U	5140		5000	102.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Magnesium	279.1	355	B	49300		50000	97.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Manganese	257.6	3.1	B	548		500	108.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Nickel	231.6	1.9	B	516		500	102.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Potassium	766.5	402	B	53400		50000	105.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Selenium	196.0	6.8		1020		1000	101.0	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Silver	328.1	1.5	U	988		1000	98.8	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Sodium	330.2	5390		57500		50000	104.2	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Thallium	190.9	8.0	U	1980		2000	98.8	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Vanadium	292.4	7.5		507		500	99.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:36
Zinc	213.9	3.1	B	546		500	108.5	1	5	ICPST	3/15/01	19:19	3/15/01	19:36

Comments: _____

Version 4.10.5

- U Result is less than theIDL.
- B Result is between IDL and RL.
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DW50TES
 Original Sample ID: DW50TE Client ID: MPT-G4-SU67-05ES
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.10	U	5.1		5	102.7	1	1	CVAA	3/15/01	9:07	3/15/01	9:08

Comments: _____

Version 4.10.5

- U Result is less than the HDL
- B Result is between HDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DW5XES
 Original Sample ID: DW5XE Client ID: MPT-G4-SU66-05S
 Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094
 Weight: 1.00 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	644		984	N	232.83	146.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Antimony	206.8	0.58	U	46.6		58.207	80.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Arsenic	189.0	0.58	B	216		232.83	92.6	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Barium	493.4	4.8	B	224		232.83	94.3	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Beryllium	313.0	0.040	B	5.7		5.8207	96.9	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Cadmium	226.5	0.11	B	5.6		5.8207	94.5	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Calcium	317.9	22000		20900	N	5820.7	18.7	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Chromium	267.7	2.8		24.5		23.283	93.3	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Cobalt	228.6	0.32	B	53.2		58.207	90.8	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Copper	324.8	6.6		32.7		29.104	89.5	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Iron	271.4	736		808	NC	116.41	61	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Lead	220.4	2.7		57.5		58.207	94.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Magnesium	279.1	153	B	5670		5820.7	94.8	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Manganese	257.6	8.4		63.2		58.207	94.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Molybdenum	202.0	0.31	U	106		116.41	91.2	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Nickel	231.6	0.79	B	55.3		58.207	93.6	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Potassium	766.5	46.5	B	5610		5820.7	95.5	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Selenium	196.0	0.49	U	221		232.83	94.8	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Silver	328.1	0.18	U	6.2		5.8207	105.9	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Sodium	330.2	126	B	5800		5820.7	97.5	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Thallium	190.9	0.93	U	219		232.83	93.9	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Tin	190	1.3	B	205		232.83	87.5	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Vanadium	292.4	2.1		56.6		58.207	93.7	1	1	ICPST	3/21/01	17:57	3/21/01	18:07
Zinc	213.9	6.4		62.1		58.207	95.8	1	1	ICPST	3/21/01	17:57	3/21/01	18:07

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DW5X3D
 Original Sample ID: DW5X3 Client ID: MPT-G4-GW66-05D
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	119	B	2270		2000	107.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Antimony	206.8	5.0	U	525		500	105.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Arsenic	189.0	2.4	U	2050		2000	102.3	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Barium	493.4	9.3	B	2050		2000	101.9	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Beryllium	313.0	0.10	U	51.0		50	102.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Cadmium	226.5	0.28	U	50.9		50	101.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Calcium	317.9	123000		173000		50000	100.5	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Chromium	267.7	1.4	U	202		200	100.9	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Cobalt	228.6	1.3	U	489		500	97.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Copper	324.8	6.8	B	256		250	99.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Iron	271.4	1690		2760		1000	107.4	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Lead	220.4	4.3		510		500	101.1	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Magnesium	279.1	13200		64200		50000	102.2	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Manganese	257.6	124		654		500	106.1	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Molybdenum	202.0	5.8	B	989		1000	98.3	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Nickel	231.6	2.0	B	501		500	99.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Potassium	766.5	4390	B	59300		50000	109.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Selenium	196.0	4.2	U	2130		2000	106.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Silver	328.1	1.5	U	57.1		50	114.2	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Sodium	330.2	17400		70200		50000	105.7	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Thallium	190.9	8.0	U	2020		2000	101.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Tin	190	5.7	U	1900		2000	95.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Vanadium	292.4	0.89	U	504		500	100.8	1	1	ICPST	3/15/01	18:15	3/15/01	18:42
Zinc	213.9	3.5	B	533		500	106.0	1	1	ICPST	3/15/01	18:15	3/15/01	18:42

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

- U Result is less than theIDL.
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DW5X3D
 Original Sample ID: DW5X3 Client ID: MPT-G4-GW66-05D
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.10	U	1.0		1	101.6	1	1	CVAA	3/15/01	8:53	3/15/01	8:56

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- Duplicate analysis RPD was not within limits

Form SA Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DW5XED
 Original Sample ID: DW5XE Client ID: MPT-G4-SU66-05D
 Matrix: Soil Units: mg/kg Prep Date: 3/13/01 Prep Batch: 1071332Hg
 Weight: 0.6 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.019	U	0.19		0.1940	96.4	1	1	CVAA	3/14/01	12:22	3/14/01	12:24

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DW50TED
 Original Sample ID: DW50TE Client ID: MPT-G4-SU67-05ED
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	591		2790		2000	109.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Antimony	206.8	5.0	UN	245	N	500	49.0	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Arsenic	189.0	2.4	U	4920		5000	98.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Barium	493.4	7.1	B	48500		50000	96.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Beryllium	313.0	0.10	U	53.4		50	106.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Cadmium	226.5	0.28	U	1020		1000	101.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Calcium	317.9	10100		61100		50000	102.1	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Chromium	267.7	1.7	B	5020		5000	100.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Cobalt	228.6	1.3	U	466		500	93.2	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Copper	324.8	0.77	U	249		250	99.5	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Iron	271.4	506		1630		1000	112.1	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Lead	220.4	1.8	U	5090		5000	101.8	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Magnesium	279.1	355	B	48700		50000	96.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Manganese	257.6	3.1	B	541		500	107.5	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Nickel	231.6	1.9	B	521		500	103.7	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Potassium	766.5	402	B	52600		50000	104.4	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Selenium	196.0	6.8		1000		1000	99.5	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Silver	328.1	1.5	U	980		1000	98.0	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Sodium	330.2	5390		56700		50000	102.6	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Thallium	190.9	8.0	U	1970		2000	98.3	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Vanadium	292.4	7.5		502		500	98.9	1	5	ICPST	3/15/01	19:19	3/15/01	19:41
Zinc	213.9	3.1	B	541		500	107.6	1	5	ICPST	3/15/01	19:19	3/15/01	19:41

Comments: _____
 Version 4.10.5 Form SA Equivalent

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DW50TED
 Original Sample ID: DW50TE Client ID: MPT-G4-SU67-05ED
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.10	U	5.2		5	103.9	1	1	CVAA	3/15/01	9:07	3/15/01	9:09

Comments: _____

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DW5XED
 Original Sample ID: DW5XE Client ID: MPT-G4-SU66-05D
 Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094
 Weight: 1.00 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	644	N	765	N *	232.83	52.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Antimony	206.8	0.58	U	39.1	N	58.207	67.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Arsenic	189.0	0.58	B	185		232.83	79.2	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Barium	493.4	4.8	B	190		232.83	79.6	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Beryllium	313.0	0.040	B	4.8		5.8207	81.6	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Cadmium	226.5	0.11	B	4.8		5.8207	80.9	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Calcium	317.9	22000	N	11700	N *	5820.7	176.8	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Chromium	267.7	2.8		20.8		23.283	77.2	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Cobalt	228.6	0.32	B	45.5		58.207	77.7	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Copper	324.8	6.6		26.2	N *	29.104	67.2	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Iron	271.4	736		655	NC	116.41	OK	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Lead	220.4	2.7		48.8		58.207	79.3	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Magnesium	279.1	153	B	4820		5820.7	80.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Manganese	257.6	8.4		53.4		58.207	77.3	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Molybdenum	202.0	0.31	U	88.9		116.41	76.3	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Nickel	231.6	0.79	B	47.2		58.207	79.7	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Potassium	766.5	46.5	B	4910		5820.7	83.6	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Selenium	196.0	0.49	U	190		232.83	81.5	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Silver	328.1	0.18	U	5.3		5.8207	90.9	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Sodium	330.2	126	B	4960		5820.7	83.1	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Thallium	190.9	0.93	U	187		232.83	80.3	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Tin	190	1.3	B	174	N	232.83	74.0	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Vanadium	292.4	2.1		47.9		58.207	78.7	1	1	ICPST	3/21/01	17:57	3/21/01	18:12
Zinc	213.9	6.4		53.4		58.207	80.8	1	1	ICPST	3/21/01	17:57	3/21/01	18:12

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form SA Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DW5X3D
 Matrix Spike Sample ID: DW5X3S Client ID: MPT-G4-GW66-05D
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	2280		2270		0.3	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Antimony	206.838	520		525		1.1	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Arsenic	189.042	2020		2050		1.3	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Barium	493.409	2030		2050		0.7	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Beryllium	313.042	50.4		51.0		1.3	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Cadmium	226.502	50.2		50.9		1.4	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Calcium	317.933	170000		173000		5.8	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Chromium	267.716	200		202		1.2	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Cobalt	228.616	483		489		1.2	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Copper	324.753	255		256		0.5	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Iron	271.441	2720		2760		3.6	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Lead	220.353	512		510		0.4	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Magnesium	279.078	63400		64200		1.7	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Manganese	257.61	646		654		1.5	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Molybdenum	202.03	979		989		1.1	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Nickel	231.604	496		501		1.0	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Potassium	766.491	59400		59300		0.1	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Selenium	196.026	2110		2130		1.1	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Silver	328.068	56.9		57.1		0.3	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Sodium	330.232	69800		70200		0.8	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Thallium	190.864	2000		2020		0.9	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Tin	189.989	1880		1900		1.3	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Vanadium	292.402	499		504		1.0	1	1	ICPST	3/15/01	18:37	3/15/01	18:42
Zinc	213.856	524		533		1.9	1	1	ICPST	3/15/01	18:37	3/15/01	18:42

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DW5X3D
 Matrix Spike Sample ID: DW5X3S Client ID: MPT-G4-GW66-05D
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.0		1.0		1.7	1	1	CVAA	3/15/01	8:55	3/15/01	8:56

Comments: Lot #: A1C090105 Sample #: 2

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DW5XED
 Matrix Spike Sample ID: DW5XES Client ID: MPT-G4-SU66-05D
 Matrix: Soil Units: mg/kg Prep Date: 3/13/01 Prep Batch: 1071332Hg
 Weight: 0.6 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.19		0.19		3.6	1	1	CVAA	3/14/01	12:23	3/14/01	12:24

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DW50TED
 Matrix Spike Sample ID: DW50TES Client ID: MPT-G4-SU67-05ED
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	2930		2790		141.1	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Antimony	206.838	245	N	245	N	0.3	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Arsenic	189.042	4960		4920		0.8	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Barium	493.409	48700		48500		0.5	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Beryllium	313.042	54.2		53.4		0.8	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Cadmium	226.502	1030		1020		0.9	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Calcium	317.933	62300		61100		1230.3	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Chromium	267.716	5070		5020		0.9	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Cobalt	228.616	469		466		0.5	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Copper	324.753	251		249		2.2	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Iron	271.441	1710		1630		82.9	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Lead	220.353	5140		5090		0.9	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Magnesium	279.078	49300		48700		630.3	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Manganese	257.61	548		541		1.3	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Nickel	231.604	516		521		5.1	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Potassium	766.491	53400		52600		756.1	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Selenium	196.026	1020		1000		1.4	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Silver	328.068	988		980		0.9	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Sodium	330.232	57500		56700		809.5	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Thallium	190.864	1980		1970		0.4	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Vanadium	292.402	507		502		1.0	5	5	ICPST	3/15/01	19:36	3/15/01	19:41
Zinc	213.856	546		541		0.8	5	5	ICPST	3/15/01	19:36	3/15/01	19:41

Comments: _____
 Version 4.10.5 Form 6 Equivalent

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DW50TED
 Matrix Spike Sample ID: DW50TES Client ID: MPT-G4-SU67-05ED
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	5.1		5.2		1.1	1	1	CVAA	3/15/01	9:08	3/15/01	9:09

Comments: _____

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DW5XED
 Matrix Spike Sample ID: DW5XES Client ID: MPT-G4-SU66-05D
 Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094
 Weight: 1.00 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	MS Conc	O	MSD Conc	O	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	984	N	765	N *	94.9	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Antimony	206.838	46.6		39.1	N	17.7	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Arsenic	189.042	216		185		15.6	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Barium	493.409	224		190		16.8	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Beryllium	313.042	5.7		4.8		17.2	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Cadmium	226.502	5.6		4.8		15.5	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Calcium	317.933	20900	N	11700	N *	161.8	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Chromium	267.716	24.5		20.8		18.8	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Cobalt	228.616	53.2		45.5		15.6	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Copper	324.753	32.7		26.2	N *	28.5	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Iron	271.441	808	NC	655	NC		1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Lead	220.353	57.5		48.8		17.1	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Magnesium	279.078	5670		4820		16.8	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Manganese	257.61	63.2		53.4		19.7	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Molybdenum	202.03	106		88.9		17.7	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Nickel	231.604	55.3		47.2		16.0	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Potassium	766.491	5610		4910		13.3	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Selenium	196.026	221		190		15.0	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Silver	328.068	6.2		5.3		15.3	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Sodium	330.232	5800		4960		15.9	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Thallium	190.864	219		187		15.6	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Tin	189.989	205		174	N	16.8	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Vanadium	292.402	56.6		47.9		17.4	1	1	ICPST	3/21/01	18:07	3/21/01	18:12
Zinc	213.856	62.1		53.4		16.9	1	1	ICPST	3/21/01	18:07	3/21/01	18:12

Comments: Lot #: A1C090105 Sample #: 1

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #....: A1C090105

Matrix.....: WG

Date Sampled...: 03/05/01 15:05 Date Received...: 03/07/01

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total									
	5.5	40.0	41.4	ug/L	90		SW846 9012A	03/16/01	1075146
	5.5	40.0	39.9	ug/L	86	3.7	SW846 9012A	03/16/01	1075146
				Dilution Factor: 1					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A1C090105

Matrix.....: SO

Date Sampled...: 03/05/01 14:50 Date Received...: 03/07/01

PARAMETER	AMOUNT	AMT	AMOUNT	UNITS	PERCNT	RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
DI Leachable Cyanide									MS Lot-Sample #: A1C090105-001	
	ND	0.040	0.036	mg/L	86			SW846 9012A	03/16/01	1075251
	ND	0.040	0.037	mg/L	87	1.1		SW846 9012A	03/16/01	1075251

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1C090105

Work Order #...: DV08F-SMP
DV08F-DUP

Matrix.....: WATER

Date Sampled...: 02/12/01

Date Received...: 02/12/01

% Moisture.....: 100

Dilution Factor:

Initial Wgt/Vol:

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	870	ug/L	810	7.6 (C-99)	SD Lot-Sample #: A1B120149-002 SW846 9012A	03/16/01	1075146

Dilution Factor: 5

LABORATORY CONTROL, SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A1C090105

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	92	(60 - 113)	SW846 9012A	03/15/01	1074117
		Dilution Factor: 1			
DI Leachable Cyanide	87	(60 - 113)	SW846 9012A	03/16/01	1075251
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A1C090105

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	87	Work Order #: DXG5M1AC (61 - 115)	LCS Lot-Sample#: A1C160000-146 SW846 9012A	03/16/01	1075146

Dilution Factor: 10

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DW5X3L
 Original Sample ID: DW5X3 Client ID: MPT-G4-GW66-05
 Matrix: Water Units: ug/L Prep Date: 3/13/01 Prep Batch: 1071326
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	119	B	178	B	OK	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Antimony	206.838	5.0	U	25.0	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Arsenic	189.042	2.4	U	12.0	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Barium	493.409	9.3	B	9.4	B	1.2	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Beryllium	313.042	0.10	U	1.0	B		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Cadmium	226.502	0.28	U	1.4	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Calcium	317.933	123000		121000		1.2	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Chromium	267.716	1.4	U	7.0	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Cobalt	228.616	1.3	U	6.5	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Copper	324.753	6.8	B	4.3	B	OK	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Iron	271.441	1690		1710		1.7	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Lead	220.353	4.3		9.0	B	OK	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Magnesium	279.078	13200		12700	B	3.2	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Manganese	257.61	124		123		0.6	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Molybdenum	202.03	5.8	B	13.5	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Nickel	231.604	2.0	B	7.5	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Potassium	766.491	4390	B	4780	B	9.0	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Selenium	196.026	4.2	U	25.6			1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Silver	328.068	1.5	U	7.5	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Sodium	330.232	17400		17300	B	0.3	1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Thallium	190.864	8.0	U	40.0	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Tin	189.989	5.7	U	28.5	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Vanadium	292.402	0.89	U	4.5	U		1	5	ICPST	3/15/01	18:15	3/15/01	18:33
Zinc	213.856	3.5	B	7.7	B	OK	1	5	ICPST	3/15/01	18:15	3/15/01	18:33

Comments: _____

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- L Serial dilution percent difference not within limits

Form 9 Equivalent

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DW5XEEL
 Original Sample ID: DW5XEE Client ID: MPT-G4-SU66-05E
 Matrix: Water Units: ug/L Prep Date: 3/14/01 Prep Batch: 1072303
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	1640		1740		6.2	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Antimony	206.838	5.0	UN	25.0	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Arsenic	189.042	2.4	U	12.0	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Barium	493.409	14.2	B	14.8	B	4.3	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Beryllium	313.042	0.18	B	0.58	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Cadmium	226.502	0.28	U	1.4	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Calcium	317.933	12100		12100	B	0.2	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Chromium	267.716	4.1	B	7.0	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Cobalt	228.616	1.3	U	6.5	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Copper	324.753	9.7	B	8.7	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Iron	271.441	1090		1160		7.1	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Lead	220.353	4.0		9.0	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Magnesium	279.078	423	B	435	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Manganese	257.61	10.8	B	11.0	B	1.9	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Nickel	231.604	3.6	B	7.5	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Potassium	766.491	307	B	1190	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Selenium	196.026	5.2		23.1	B		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Silver	328.068	1.5	U	7.5	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Sodium	330.232	5450		6010	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Thallium	190.864	8.0	U	40.0	U		1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Vanadium	292.402	6.5	B	6.3	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14
Zinc	213.856	11.1	B	15.0	B	<i>CV</i>	1	5	ICPST	3/15/01	19:09	3/15/01	19:14

Comments: _____

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- L Serial dilution percent difference not within limits

Form 9 Equivalent

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DW5XEL
 Original Sample ID: DW5XE Client ID: MPT-G4-SU66-05
 Matrix: Soil Units: mg/kg Prep Date: 3/19/01 Prep Batch: 1078094
 Weight: 1.00 Volume: 100 Percent Moisture: 14.1

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	644	N	678		5.2	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Antimony	206.838	0.58	UN	2.9	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Arsenic	189.042	0.58	B	1.4	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Barium	493.409	4.8	B	5.1	B	6.1	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Beryllium	313.042	0.040	B	0.10	B		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Cadmium	226.502	0.11	B	0.16	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Calcium	317.933	22000	N	23200		5.6	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Chromium	267.716	2.8		3.2			1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Cobalt	228.616	0.32	B	0.76	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Copper	324.753	6.6	N	7.2	B	8.2	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Iron	271.441	736		777		5.6	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Lead	220.353	2.7		3.1			1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Magnesium	279.078	153	B	158	B	3.0	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Manganese	257.61	8.4		8.7	B	3.7	1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Molybdenum	202.03	0.31	U	1.6	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Nickel	231.604	0.79	B	1.2	B		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Potassium	766.491	46.5	B	122	B		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Selenium	196.026	0.49	U	2.4	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Silver	328.068	0.18	U	0.87	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Sodium	330.232	126	B	149	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Thallium	190.864	0.93	U	4.7	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Tin	189.989	1.3	BN	3.3	U		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Vanadium	292.402	2.1		2.0	B		1	5	ICPST	3/21/01	17:57	3/21/01	18:02
Zinc	213.856	6.4		7.7	B L	20.9	1	5	ICPST	3/21/01	17:57	3/21/01	18:02

Comments: _____

Version 4.10.5

U Result is less than the IDL

Form 9 Equivalent

B Result is between IDL and RL

L Serial dilution percent difference not within limits

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	1/16/01

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ppb

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	10.9	1/19/01
Antimony	206.84	10	5.0	1/19/01
Arsenic	189.04	10	2.4	1/19/01
Barium	493.41	200	0.18	1/19/01
Beryllium	313.04	5	0.10	1/19/01
Cadmium	226.50	2	0.28	1/19/01
Calcium	317.93	5000	11.6	1/19/01
Chromium	267.72	5	1.4	1/19/01
Cobalt	228.62	7	1.3	1/19/01
Copper	324.75	25	0.77	1/19/01
Iron	271.44	100	17.3	1/19/01
Lead	220.35	3	1.8	1/19/01
Magnesium	279.08	5000	19.0	1/19/01
Manganese	257.61	15	0.18	1/19/01
Molybdenum	202.03	40	2.7	1/19/01
Nickel	231.60	40	1.5	1/19/01
Potassium	766.49	5000	20.2	1/19/01
Selenium	196.03	5	4.2	1/19/01
Silver	328.07	5	1.5	1/19/01
Sodium	330.23	5000	256	1/19/01
Thallium	190.86	10	8.0	1/19/01
Tin	189.99	50	5.7	1/19/01
Vanadium	292.40	7	0.89	1/19/01
Zinc	213.86	20	0.47	1/19/01

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/12/01
Time: 12:01:42

BATCH NUMBER: 1071326

PREP DATE: 3/13/01 10:00
DUE DATE 3/26/01

COMP DATE: 3/13/01 16:00
INITIALS: LPM/ku

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A1C090105	DW5X3	01	X _____g	X _____g	_____g	_____g
WATER TO DUE DATE: 3/26/01						
	DW5X3S		_____g	_____g	_____g	_____g
	DW5X3D		_____g	_____g	_____g	_____g
A1C090105	DW50X	01	X _____g	X _____g	_____g	_____g
WATER TO DUE DATE: 3/26/01						
A1C120000	DW9A1B	01	X _____g	X _____g	_____g	_____g
WATER DUE DATE: 0/00/00						
	DW9A1C		_____g	_____g	_____g	_____g

SDG mp038

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH
 MS/MSD AND PDS ON BATCH
 CURVE PREPPED FOR HG
 CORRECT SPIKES ADDED
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: ICP are TOTAL Rec.
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY ku

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/12/01
Time: 12:01:42

BATCH NUMBER: 1071326

PREP DATE: 3/13/01 10:00
DUE DATE 3/26/01

COMP DATE: 3/13/01 16:00
INITIALS: Lpmiku

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN MO NA NI PB SB SE SN TL

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD Ag
DW5X3

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2A GFAA HG ODD Ag
DW9A1

CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD NUMBERS 1A75 1C173 1C213 1C172

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/12/01
Time: 12:06:25

BATCH NUMBER: 1071332

PREP DATE: 3/13/01 10:00
DUE DATE 3/26/01

COMP DATE: 3/13/01 16:00
INITIALS: Wmiku

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
<i>SD6 mP038</i>						
A1C090105	DW5XE	50	X <u>1.00</u> g	X <u>0.60</u> g		
SOLID	TO DUE DATE:		3/26/01			
	DW5XES		| g	| g		
	DW5XED		| g	| g		
A1C090105	DW50T	50	X _____ g	X _____ g		
SOLID	TO DUE DATE:		3/26/01			
A1C120000	DW9CHB	50	X _____ g	X _____ g		
SOLID	DUE DATE:		0/00/00			
	DW9CHC		<u>0.5</u> g	<u>0.6</u> g		

All ICP samples were re-prepped in batch 1078094.

solid loss 10g 246

So

<u>CEA 0.2</u>	}	STD 1C214
<u>0.2</u>		
<u>0.5</u>		
<u>1.0</u>		
<u>5.0</u>		
<u>10.0</u>		
<u>CCV X 2.50</u>	}	STD 1C213
<u>CCB X 2</u>		
<u>1C X 2.5</u>		
<u>1LB</u>		

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	<input checked="" type="checkbox"/>
MS/MSD AND PDS ON BATCH	<input checked="" type="checkbox"/>
CURVE PREPPED FOR HG	<input checked="" type="checkbox"/>
CORRECT SPIKES ADDED	<input checked="" type="checkbox"/>
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	<input checked="" type="checkbox"/>

Hg solid curve

Hg time in the water bath 1:45pm

Hg time out of the water bath 2:15pm

COMMENTS: _____
B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY Ku

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/12/01
Time: 12:06:25

BATCH NUMBER: 1071332

PREP DATE: 3/13/01 10:00
DUE DATE 3/26/01

COMP DATE: 3/13/01 16:00
INITIALS: lpm/kw

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN MO NA NI PB SB SE SN TL

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD Ag
DW5XE

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2A GFAA HG ODD Ag
DW9CH

CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD NUMBERS 1A75 1C173 1C213 1C172

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/13/01
Time: 10:59:24

BATCH NUMBER: 1072303

PREP DATE: 3/14/01
DUE DATE 3/26/01

COMP DATE: 3/14/01
INITIALS: lpmiku

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A1C090105	DW5XE	01	X _____ g	X _____ g	_____ g	_____ g
SOLID	<i>East</i>		DUE DATE: 3/26/01			
A1C090105	DW50T	01	X _____ g	X _____ g	_____ g	_____ g
SOLID	<i>East</i>		DUE DATE: 3/26/01			
	DW50TS		_____ g	_____ g	_____ g	_____ g
	DW50TD		_____ g	_____ g	_____ g	_____ g
A1C120000	DW8XJB	01	X _____ g	X _____ g	_____ g	_____ g
SOLID	<i>East</i>		DUE DATE: 0/00/00			
A1C130000	DXAG6B	01	X _____ g	X _____ g	_____ g	_____ g
SOLID	<i>East</i>		DUE DATE: 0/00/00			
	DXAG6C		_____ g	_____ g	_____ g	_____ g

SDG m P028

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH
 MS/MSD AND PDS ON BATCH
 CURVE PREPPED FOR HG
 CORRECT SPIKES ADDED
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: ICP are TOTAL PREP SPLP-E
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY lpm

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/13/01
Time: 10:59:24

BATCH NUMBER: 1072303

PREP DATE: 3/14/01
DUE DATE 3/26/01

COMP DATE: 3/14/01
INITIALS: Lpm/KU

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

MS/MSD 1:	ICP - 1	<u>ICP - 2A</u>	GFAA	<u>HG</u>	ODD	^{1/2} TUP ECA US 1E-0450
	<u>DW50T</u>			STO K23 031401KU		1 menon-ECA US 16-0056
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD	

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2A GFAA HG ODD Ag

DXAG6
CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD NUMBERS 1A75 1C173 1C222 1C172

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/19/01
Time: 5:11:53

BATCH NUMBER: 1078094

PREP DATE: 3/19/01 10:00
DUE DATE 3/26/01

COMP DATE: 3/19/01 16:00
INITIALS: LEM/ku

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
A1C090105 SOLID	DW5XE TO DUE DATE:	50	X <u>1.00</u> g 3/26/01	_____g	_____g	_____g
	DW5XES		_____g	_____g	_____g	_____g
	DW5XED		_____g	_____g	_____g	_____g
A1C090105 SOLID	DW50T TO DUE DATE:	50	X _____g 3/26/01	_____g	_____g	_____g
A1C190000 SOLID	DXKX2B DUE DATE:	50	X _____g 0/00/00	_____g	_____g	_____g
	DXKX2C		<u>0.5</u> g lot <u>246</u> g	_____g	_____g	_____g

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH
 MS/MSD AND PDS ON BATCH
 CURVE PREPPED FOR HG
 CORRECT SPIKES ADDED
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG ✓

COMMENTS:
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY ku

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 3/19/01
Time: 5:11:53

BATCH NUMBER: 1078094

PREP DATE: 3/19/01 10:00
DUE DATE 3/26/01

COMP DATE: 3/19/01 16:00
INITIALS: _____

ICP ELEMENTS WITHIN THE BATCH:

	AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	KX	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	
MS/MSD 1:																							
CHECK :																							
CHECK DUP:																							
STANDARD NUMBERS																							

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD *Ag*
 DW5XE
 MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD
 MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD
 CHECK : ~~ICP - 1~~ ICP - 2 GFAA HG ODD *solid LCSS 107246*
 DX KXZ *03/19/01*
 CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD
 STANDARD NUMBERS 16227 16173 — — — 16226

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: hg10314b.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Repl		3/14/01	12:02
Std2Repl		3/14/01	12:03
Std3Repl		3/14/01	12:04
Std4Repl		3/14/01	12:05
Std5Repl		3/14/01	12:06
Std6Repl		3/14/01	12:07
Ck5ICV		3/14/01	12:09
Ck4ICB		3/14/01	12:10
ZZZZZ		3/14/01	12:11
ZZZZZ		3/14/01	12:14
Ck2CCV		3/14/01	12:16
Ck1CCB		3/14/01	12:17
DW9CHB		3/14/01	12:18
DW9CHC		3/14/01	12:20
DW5XE	MPT-G4-SU66-05	3/14/01	12:22
DW5XES	MPT-G4-SU66-05S	3/14/01	12:23
DW5XED	MPT-G4-SU66-05D	3/14/01	12:24
DW50T	MPT-G4-SU67-05	3/14/01	12:25
ZZZZZ		3/14/01	12:26
ZZZZZ		3/14/01	12:28
ZZZZZ		3/14/01	12:29
ZZZZZ		3/14/01	12:30
Ck2CCV		3/14/01	12:31
Ck1CCB		3/14/01	12:32

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: hg10315a.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Repl		3/15/01	8:30
Std2Repl		3/15/01	8:31
Std3Repl		3/15/01	8:32
Std4Repl		3/15/01	8:33
Std5Repl		3/15/01	8:35
Std6Repl		3/15/01	8:37
Ck5ICV		3/15/01	8:38
Ck4ICB		3/15/01	8:39
ZZZZZ		3/15/01	8:40
Ck2CCV		3/15/01	8:41
Ck1CCB		3/15/01	8:42
ZZZZZ		3/15/01	8:44
ZZZZZ		3/15/01	8:45
ZZZZZ		3/15/01	8:47
ZZZZZ		3/15/01	8:48
DW9A1B		3/15/01	8:49
DW9A1C		3/15/01	8:51
DW5X3	MPT-G4-GW66-05	3/15/01	8:53
DW5X3S	MPT-G4-GW66-05S	3/15/01	8:55
DW5X3D	MPT-G4-GW66-05D	3/15/01	8:56
DW50X	MPT-G4-GW67-05	3/15/01	8:57
Ck2CCV		3/15/01	8:59
Ck1CCB		3/15/01	9:00
DXAG6BE		3/15/01	9:01
DXAG6CE		3/15/01	9:03
DW8XJBE		3/15/01	9:04
DW5XEE	MPT-G4-SU66-05E	3/15/01	9:05
DW50TE	MPT-G4-SU67-05E	3/15/01	9:07
DW50TES	MPT-G4-SU67-05ES	3/15/01	9:08
DW50TED	MPT-G4-SU67-05ED	3/15/01	9:09
ZZZZZ		3/15/01	9:11
ZZZZZ		3/15/01	9:12
ZZZZZ		3/15/01	9:14
Ck2CCV		3/15/01	9:15
Ck1CCB		3/15/01	9:17

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50315a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1-Blank		3/15/01	10:45
CALSTD		3/15/01	10:50
CAL 2		3/15/01	10:55
ICV		3/15/01	10:58
ICB		3/15/01	11:04
ZZZZZ		3/15/01	11:09
ZZZZZ		3/15/01	11:15
ICSA		3/15/01	11:21
ZZZZZ		3/15/01	11:26
ICSAB		3/15/01	12:23
CCV		3/15/01	12:28
CCB		3/15/01	12:33
ZZZZZ		3/15/01	13:05
ZZZZZ		3/15/01	13:09
ZZZZZ		3/15/01	13:15
ZZZZZ		3/15/01	13:20
ZZZZZ		3/15/01	13:25
ZZZZZ		3/15/01	13:30
ZZZZZ		3/15/01	13:35
ZZZZZ		3/15/01	13:40
ZZZZZ		3/15/01	13:45
ZZZZZ		3/15/01	13:50
CCV		3/15/01	13:56
CCB		3/15/01	14:02
ZZZZZ		3/15/01	14:07
ZZZZZ		3/15/01	14:12
ZZZZZ		3/15/01	14:17
ZZZZZ		3/15/01	14:21
ZZZZZ		3/15/01	14:27
ZZZZZ		3/15/01	14:32
ZZZZZ		3/15/01	14:37
ZZZZZ		3/15/01	14:42
ZZZZZ		3/15/01	15:03
ZZZZZ		3/15/01	15:08
CCV		3/15/01	15:14
CCB		3/15/01	15:20
ZZZZZ		3/15/01	15:25
ZZZZZ		3/15/01	15:30
ZZZZZ		3/15/01	15:35

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50315a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/15/01	15:40
ZZZZZZ		3/15/01	15:45
ZZZZZZ		3/15/01	15:50
ZZZZZZ		3/15/01	15:55
ZZZZZZ		3/15/01	15:59
ZZZZZZ		3/15/01	16:04
ZZZZZZ		3/15/01	16:09
CCV		3/15/01	16:15
CCB		3/15/01	16:22
ZZZZZZ		3/15/01	16:26
ZZZZZZ		3/15/01	16:31
ZZZZZZ		3/15/01	16:36
ZZZZZZ		3/15/01	16:41
ZZZZZZ		3/15/01	16:46
ZZZZZZ		3/15/01	16:51
ZZZZZZ		3/15/01	16:56
ZZZZZZ		3/15/01	17:01
ZZZZZZ		3/15/01	17:06
ZZZZZZ		3/15/01	17:11
CCV		3/15/01	17:17
CCB		3/15/01	17:23
ZZZZZZ		3/15/01	17:28
ZZZZZZ		3/15/01	17:33
ZZZZZZ		3/15/01	17:38
ZZZZZZ		3/15/01	17:43
ZZZZZZ		3/15/01	17:48
ZZZZZZ		3/15/01	17:53
ZZZZZZ		3/15/01	17:59
DW9A1B		3/15/01	18:05
DW9A1C		3/15/01	18:10
DW5X3	MPT-G4-GW66-05	3/15/01	18:15
CCV		3/15/01	18:21
CCB		3/15/01	18:28
DW5X3L	MPT-G4-GW66-05	3/15/01	18:33
DW5X3S	MPT-G4-GW66-05S	3/15/01	18:37
DW5X3D	MPT-G4-GW66-05D	3/15/01	18:42
DW50X	MPT-G4-GW67-05	3/15/01	18:48
DW8XJBE		3/15/01	18:54
DXAG6BE		3/15/01	18:59

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: i50315a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
DXAG6CE		3/15/01	19:04
DW5XEE	MPT-G4-SU66-05E	3/15/01	19:09
DW5XEEL	MPT-G4-SU66-05E	3/15/01	19:14
DW50TE	MPT-G4-SU67-05E	3/15/01	19:19
CCV		3/15/01	19:25
CCB		3/15/01	19:32
DW50TES	MPT-G4-SU67-05ES	3/15/01	19:36
DW50TED	MPT-G4-SU67-05ED	3/15/01	19:41
ZZZZZZ		3/15/01	19:48
ZZZZZZ		3/15/01	19:52
CCV		3/15/01	19:58
CCB		3/15/01	20:04

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50321a1.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1-Blank		3/21/01	11:44
CALSTD		3/21/01	11:49
CAL 2		3/21/01	11:53
ICV		3/21/01	11:57
ICB		3/21/01	12:03
ZZZZZ		3/21/01	12:08
ZZZZZ		3/21/01	12:14
ICSA		3/21/01	12:20
ICSAB		3/21/01	12:25
CCV		3/21/01	12:39
CCB		3/21/01	12:45
ZZZZZ		3/21/01	12:50
ZZZZZ		3/21/01	12:55
ZZZZZ		3/21/01	13:01
ZZZZZ		3/21/01	13:06
ZZZZZ		3/21/01	13:11
ZZZZZ		3/21/01	13:16
ZZZZZ		3/21/01	13:21
ZZZZZ		3/21/01	13:26
ZZZZZ		3/21/01	13:31
ZZZZZ		3/21/01	13:37
CCV		3/21/01	13:43
CCB		3/21/01	13:49
ZZZZZ		3/21/01	13:54
ZZZZZ		3/21/01	13:59
ZZZZZ		3/21/01	14:04
ZZZZZ		3/21/01	14:09
ZZZZZ		3/21/01	14:14
ZZZZZ		3/21/01	14:19
ZZZZZ		3/21/01	14:23
ZZZZZ		3/21/01	14:28
ZZZZZ		3/21/01	14:33
ZZZZZ		3/21/01	14:38
CCV		3/21/01	14:44
CCB		3/21/01	14:51
ZZZZZ		3/21/01	14:55
ZZZZZ		3/21/01	15:00
ZZZZZ		3/21/01	15:05
ZZZZZ		3/21/01	15:10

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: i50321a1.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/21/01	17:14
ZZZZZZ		3/21/01	17:19
ZZZZZZ		3/21/01	17:24
ZZZZZZ		3/21/01	17:30
DXKX2B		3/21/01	17:35
DXKX2C		3/21/01	17:40
CCV		3/21/01	17:46
CCB		3/21/01	17:52
DW5XE	MPT-G4-SU66-05	3/21/01	17:57
DW5XEL	MPT-G4-SU66-05	3/21/01	18:02
DW5XES	MPT-G4-SU66-05S	3/21/01	18:07
DW5XED	MPT-G4-SU66-05D	3/21/01	18:12
DW50T	MPT-G4-SU67-05	3/21/01	18:17
ZZZZZZ		3/21/01	18:23
ZZZZZZ		3/21/01	18:28
ZZZZZZ		3/21/01	18:34
ZZZZZZ		3/21/01	18:39
ZZZZZZ		3/21/01	18:43
CCV		3/21/01	18:50
CCB		3/21/01	18:56

Method: TOTAL Sample Name: DW5XE *EUF 4-6-01*
 Run Time: 03/21/01 17:57 *MPT-64-SUB 605* Operator: LRW
 Mode: CONC Type: S Filename: I50321A
 Lab ID.: N.CANTON Cust. Smpl. ID.: Corr. Factor: 1.00000
 Cust. ID.:

Elms	Ag	Al	As	B	Ba	Be
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0238	5533.	4.9773	8.945	41.17	.3430
SDev	.1498	9.718	.8697	.5773	.0524	.058
%RSD	629.9	.1757	17.473	6.454	.1273	16.92
Elms	Ca	Cd	Co	Cr	Cu	Fe
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	188900.	.9582	2.711	23.83	56.80	6322.
SDev	237.9	.046	.4846	.33	.3895	3.776
%RSD	.1259	4.798	17.87	1.385	.6857	.0597
Elms	K	Mg	Mn	Mo	Na	Ni
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	399.4	1316.	72.04	1.181	1080.	6.801
SDev	6.268	.1376	.0573	.432	168.2	.7425
%RSD	1.569	.0104	.0796	36.58	15.57	10.92
Elms	Se	Pb	Sb	Sn	Ti	Tl
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32568	23.019	.41279	10.87	301.6	1.3040
SDev	.77223	.20229	.1156	.9197	.5168	.67575
%RSD	237.1	.87882	28.007	8.464	.1714	51.821
Elms	V	Zn	2203\1	2203\2	1960\1	1960\2
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.73	54.52	21.467	23.794	2.5480	-1.7604
SDev	.1941	.059	.3213	.14288	5.4327	1.5545
%RSD	1.095	.1083	1.4967	.60049	213.21	88.304
Elms	2068/2	2068/1	Y_3710	*Y		
Units	ppb	ppb	ppb			
Avg	3.6491	-2.4407	5.0000	17400.4		
SDev	.95441	.64982	0	6.22309		
%RSD	26.155	26.624	0	.03576		

$$Pb = 23.019 \text{ ug/L} \times \frac{1 \text{ mg}}{1000 \text{ ug}} \times \frac{1 \text{ L}}{1000 \text{ mL}} \times \frac{1000 \text{ mL}}{1.00 \text{ g}} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1}{0.859} = 2.7 \text{ mg/lk}$$

MEMO TO: MR. T. HANSEN
DATE: 05/22/01- PAGE 2

VOLATILE FRACTION

The initial calibration on 02/21/01 contained relative response factors (RRFs) that were below the 0.05 quality control limit for acrolein, propionitrile, acetonitrile, and isobutanol. Only nondetected results were reported and rejected (UR) in the solid samples.

The continuing calibration on 03/13/01 at 0611 contained relative response factors (RRFs) that were less than the 0.05 quality control limit acrolein, propionitrile, acetonitrile, and isobutanol. Only nondetected results were reported and rejected (UR) in the solid samples.

The blank spike and blank spike duplicate for the solid samples contained percent recoveries (%Rs) that were greater than the quality control limits for acetone and 2-hexanone. No action was taken based on blank spike and blank spike duplicate noncompliance.

The aqueous sample TB03050101 was not preserved at a pH of 2 or less. However, the sample was analyzed within seven days from the sample collection date; therefore, no action was taken on this basis.

The initial calibration on 01/08/01 contained relative response factors (RRFs) that were below the 0.05 quality control limit for acetonitrile, acrolein, propionitrile, and isobutanol. Only nondetected results were reported for these compounds and rejected (UR) in the aqueous samples.

The continuing calibration on 03/13/01 at 0826 contained a RRF that was below the 0.05 quality control limit for acrolein and acetonitrile. Only nondetected results were reported for these compounds and rejected (UR) in the aqueous samples.

The continuing calibration on 03/13/01 at 0850 contained RRFs that were below the 0.05 quality control limit for isobutanol and propionitrile. Only nondetected results were reported for this compound and rejected (UR) in the aqueous samples.

The blank spike and blank spike duplicate associated with the aqueous samples contained %Rs that were greater than the quality control limits for trans-1,3-dichloropropene. No action was taken based on blank spike and blank spike duplicate noncompliance.

The Matrix spike %R of sample MPT-G4-GW66-05 was greater than the upper control limit for trans-1,3-dichloropropene. No action was taken for matrix spike noncompliance.

SEMIVOLATILE FRACTION

The initial calibration on 03/06/01 contained RRFs that were less than the 0.05 quality control limit for 4-nitroquinoline-1-oxide. The nondetected results were rejected (UR) in the solid samples.

The continuing calibration on 03/15/01 at 0859 contained a percent difference (%D) that exceeded the 25% quality control limits for 2,4-dinitrophenol. Nondetected results were reported for these compounds and qualified as estimated (UJ) in the solid samples.

The initial calibration on 03/16/01 contained a percent relative standard deviation (%RSD) that was >30% but <50% for Famphur. No action was taken because only nondetected results were reported, and the %RSDs were <50% for this compound.

The continuing calibration on 03/15/01 at 0927 contained %Ds that exceeded the 25% quality control limit for a,a-Dimethyl-phenethylamine, p-Phenylene diamine, and 7,12-dimethylbenz(a) anthracene. Nondetected results were reported for this compound and qualified as estimated (UJ) in the aqueous samples.

MEMO TO: MR. T. HANSEN
DATE: 05/22/01- PAGE 3

The continuing calibration on 03/16/01 at 1257 contained a %D that exceeded the 25% quality control limit for methapyrilene. Nondetected results were reported for this compound and qualified as estimated (UJ) in the aqueous samples.

The blank spike associated with the aqueous samples contained a %R that was less than 10% for hexachlorocyclopentadiene. The aforementioned compound was rejected, UR, in the aqueous samples.

ADDITIONAL COMMENTS

Several samples contained positive results for compounds below the reporting limits (RL) in the volatile fraction. These results were qualified as estimated (J).

The recovery of the surrogates was poor in the blank spike, matrix spike, and matrix spike duplicate for the semivolatile (acid) fraction. No action was required.

EXECUTIVE SUMMARY

Laboratory Performance: Several compounds exceeded the initial and/or continuing calibration criteria in the volatile and semivolatile fraction. The surrogate percent recoveries were less than the lower quality control limits in the semivolatile (acid) fraction.

Other Factors Affecting Data Quality: None

MEMO TO: MR. T. HANSEN
DATE: 05/22/01- PAGE 4

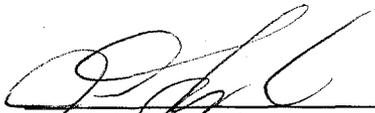
The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), and the NFESC guidelines "Navy IRCDQM" (September 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



Seth Staffen

Environmental Scientist
Tetra Tech NUS



Joseph A. Samchuck

Data Validation Quality Assurance Officer
TetraTech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $< CRQL$ for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05	TB03050101	
SAMPLE DATE:	03/05/01	03/05/01	03/05/01	//
LABORATORY ID:	A1C090105002	A1C090105004	A1C090105005	
QC_TYPE:	NORMAL	NORMAL	TRIP BLANK	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	1	U		1	U		1	U				
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U				
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U				
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U				
1,1-DICHLOROETHANE	1.8			1	U		1	U				
1,1-DICHLOROETHENE	1	U		1	U		1	U				
1,2,3-TRICHLOROPROPANE	1	U		1	U		1	U				
1,2-DIBROMO-3-CHLOROPROPANE	1	U		1	U		1	U				
1,2-DIBROMOETHANE	1	U		1	U		1	U				
1,2-DICHLOROETHANE	1	U		1	U		1	U				
1,2-DICHLOROPROPANE	1	U		1	U		1	U				
2-BUTANONE	10	U		10	U		10	U				
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U				
2-HEXANONE	10	U		10	U		10	U				
3-CHLOROPROPENE	1	U		1	U		1	U				
4-METHYL-2-PENTANONE	10	U		10	U		10	U				
ACETONE	10	U		10	U		4.4	J	P			
ACETONITRILE	20	UR	C	20	UR	C	20	UR	C			
ACROLEIN	10	UR	C	10	UR	C	10	UR	C			
ACRYLONITRILE	10	U		10	U		10	U				
BENZENE	1	U		1	U		1	U				
BROMODICHLOROMETHANE	1	U		1	U		1	U				
BROMOFORM	1	U		1	U		1	U				
BROMOMETHANE	2	U		2	U		2	U				
CARBON DISULFIDE	1	U		1	U		1	U				
CARBON TETRACHLORIDE	1	U		1	U		1	U				
CHLOROBENZENE	1	U		1	U		1	U				
CHLORODIBROMOMETHANE	1	U		1	U		1	U				
CHLOROETHANE	1	U		1	U		1	U				
CHLOROFORM	1	U		1	U		1	U				
CHLOROMETHANE	1	U		1	U		1	U				
CHLOROPRENE	1	U		1	U		1	U				

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05	TB03050101	
SAMPLE DATE:	03/05/01	03/05/01	03/05/01	//
LABORATORY ID:	A1C090105002	A1C090105004	A1C090105005	
QC_TYPE:	NORMAL	NORMAL	TRIP BLANK	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U				
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U				
DIBROMOMETHANE	1	U		1	U		1	U				
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U				
ETHYL METHACRYLATE	1	U		1	U		1	U				
ETHYLBENZENE	1	U		1	U		1	U				
ISOBUTANOL	50	UR	C	50	U		50	U				
METHACRYLONITRILE	1	U		1	U		1	U				
METHYL IODIDE	1	U		1	U		1	U				
METHYL METHACRYLATE	1	U		1	U		1	U				
METHYL TERT-BUTYL ETHER	5	U		5	U		5	U				
METHYLENE CHLORIDE	1	U		1	U		1	U				
PROPIONITRILE	4	UR	C	4	UR	C	4	UR	C			
STYRENE	1	U		1	U		1	U				
TETRACHLOROETHENE	1	U		1	U		1	U				
TOLUENE	1	U		1	U		0.39	J	P			
TOTAL 1,2-DICHLOROETHENE	1	U		1	U		1	U				
TOTAL XYLENES	1	U		1	U		0.58	J	P			
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U				
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U				
TRANS-1,4-DICHLORO-2-BUTENE	1	U		1	U		1	U				
TRICHLOROETHENE	1	U		1	U		1	U				
TRICHLOROFUOROMETHANE	2	U		2	U		2	U				
VINYL ACETATE	1	U		1	U		1	U				
VINYL CHLORIDE	1	U		1	U		1	U				

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	86.0 %	75.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.7	U		6.1	U							
1,1,1-TRICHLOROETHANE	5.7	U		6.1	U							
1,1,2,2-TETRACHLOROETHANE	5.7	U		6.1	U							
1,1,2-TRICHLOROETHANE	5.7	U		6.1	U							
1,1-DICHLOROETHANE	5.7	U		6.1	U							
1,1-DICHLOROETHENE	5.7	U		6.1	U							
1,2,3-TRICHLOROPROPANE	5.7	U		6.1	U							
1,2-DIBROMO-3-CHLOROPROPANE	11	U		12	U							
1,2-DIBROMOETHANE	5.7	U		6.1	U							
1,2-DICHLOROETHANE	5.7	U		6.1	U							
1,2-DICHLOROPROPANE	5.7	U		6.1	U							
2-BUTANONE	23	U		24	U							
2-CHLOROETHYL VINYL ETHER	57	U		61	U							
2-HEXANONE	23	U		24	U							
3-CHLOROPROPENE	11	U		12	U							
4-METHYL-2-PENTANONE	23	U		24	U							
ACETONE	23	U		24	U							
ACETONITRILE	110	UR	C	120	UR	C						
ACROLEIN	110	UR	C	120	UR	C						
ACRYLONITRILE	110	U		120	U							
BENZENE	5.7	U		6.1	U							
BROMODICHLOROMETHANE	5.7	U		6.1	U							
BROMOFORM	5.7	U		6.1	U							
BROMOMETHANE	11	U		12	U							
CARBON DISULFIDE	5.7	U		6.1	U							
CARBON TETRACHLORIDE	5.7	U		6.1	U							
CHLOROBENZENE	5.7	U		6.1	U							
CHLORODIBROMOMETHANE	5.7	U		6.1	U							
CHLOROETHANE	11	U		12	U							
CHLOROFORM	5.7	U		6.1	U							
CHLOROMETHANE	11	U		12	U							
CHLOROPRENE	5.7	U		6.1	U							

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP038

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	86.0 %	75.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,2-DICHLOROETHENE	2.9	U		3	U							
CIS-1,3-DICHLOROPROPENE	5.7	U		6.1	U							
DIBROMOMETHANE	5.7	U		6.1	U							
DICHLORODIFLUOROMETHANE	11	U		12	U							
ETHYL METHACRYLATE	5.7	U		6.1	U							
ETHYLBENZENE	5.7	U		6.1	U							
ISOBUTANOL	230	UR	C	240	UR	C						
METHACRYLONITRILE	5.7	U		6.1	U							
METHYL IODIDE	5.7	U		6.1	U							
METHYL METHACRYLATE	5.7	U		6.1	U							
METHYL TERT-BUTYL ETHER	23	U		24	U							
METHYLENE CHLORIDE	5.7	U		6.1	U							
PROPIONITRILE	23	UR	C	24	UR	C						
STYRENE	5.7	U		6.1	U							
TETRACHLOROETHENE	5.7	U		6.1	U							
TOLUENE	5.7	U		6.1	U							
TOTAL 1,2-DICHLOROETHENE	5.7	U		6.1	U							
TOTAL XYLENES	5.7	U		6.1	U							
TRANS-1,2-DICHLOROETHENE	2.9	U		3	U							
TRANS-1,3-DICHLOROPROPENE	5.7	U		6.1	U							
TRANS-1,4-DICHLORO-2-BUTENE	5.7	U		6.1	U							
TRICHLOROETHENE	5.7	U		6.1	U							
TRICHLOROFUOROMETHANE	11	U		12	U							
VINYL ACETATE	11	U		12	U							
VINYL CHLORIDE	11	U		12	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	10	U		10	U							
1,2,4-TRICHLOROBENZENE	10	U		10	U							
1,2-DICHLOROBENZENE	10	U		10	U							
1,3,5-TRINITROBENZENE	10	U		10	U							
1,3-DICHLOROBENZENE	10	U		10	U							
1,3-DINITROBENZENE	10	U		10	U							
1,4-DICHLOROBENZENE	10	U		10	U							
1,4-DIOXANE	10	U		10	U							
1,4-NAPHTHOQUINONE	10	U		10	U							
1,4-PHENYLENEDIAMINE	10	U		10	U							
1-NAPHTHYLAMINE	10	U		10	U							
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U		10	U							
2,3,4,6-TETRACHLOROPHENOL	10	U		10	U							
2,4,5-TRICHLOROPHENOL	10	U		10	U							
2,4,6-TRICHLOROPHENOL	10	U		10	U							
2,4-DICHLOROPHENOL	10	U		10	U							
2,4-DIMETHYLPHENOL	10	U		10	U							
2,4-DINITROPHENOL	25	U		25	U							
2,4-DINITROTOLUENE	10	U		10	U							
2,6-DICHLOROPHENOL	10	U		10	U							
2,6-DINITROTOLUENE	10	U		10	U							
2-ACETYLAMINOFLOURENE	10	U		10	U							
2-CHLORONAPHTHALENE	10	U		10	U							
2-CHLOROPHENOL	10	U		10	U							
2-METHYLNAPHTHALENE	10	U		10	U							
2-METHYLPHENOL	10	U		10	U							
2-NAPHTHYLAMINE	10	U		10	U							
2-NITROANILINE	25	U		25	U							
2-NITROPHENOL	10	U		10	U							
2-PICOLINE	10	U		10	U							
3,3'-DICHLOROBENZIDINE	10	U		10	U							
3,3'-DIMETHYLBENZIDINE	10	U		10	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	10	U		10	U							
3-METHYLPHENOL	10	U		10	U							
3-NITROANILINE	25	U		25	U							
4,6-DINITRO-2-METHYLPHENOL	25	U		25	U							
4-AMINOBIHENYL	10	U		10	U							
4-BROMOPHENYL PHENYL ETHER	10	U		10	U							
4-CHLORO-3-METHYLPHENOL	10	U		10	U							
4-CHLOROANILINE	10	U		10	U							
4-CHLOROPHENYL PHENYL ETHER	10	U		10	U							
4-METHYLPHENOL	10	U		10	U							
4-NITROANILINE	25	U		25	U							
4-NITROPHENOL	25	U		25	U							
4-NITROQUINOLINE-1-OXIDE	10	U		10	U							
5-NITRO-O-TOLUIDINE	10	U		10	U							
7,12-DIMETHYLBENZ(A)ANTHRACENE	10	U		10	U							
A,A-DIMETHYLPHENETHYLAMINE	50	U		50	U							
ACENAPHTHENE	10	U		10	U							
ACENAPHTHYLENE	10	U		10	U							
ACETOPHENONE	10	U		10	U							
ANILINE	10	U		10	U							
ANTHRACENE	10	U		10	U							
ARAMITE	10	U		10	U							
BENZO(A)ANTHRACENE	10	U		10	U							
BENZO(A)PYRENE	10	U		10	U							
BENZO(B)FLUORANTHENE	10	U		10	U							
BENZO(G,H,I)PERYLENE	10	U		10	U							
BENZO(K)FLUORANTHENE	10	U		10	U							
BENZYL ALCOHOL	10	U		10	U							
BIS(2-CHLOROETHOXY)METHANE	10	U		10	U							
BIS(2-CHLOROETHYL)ETHER	10	U		10	U							
BIS(2-ETHYLHEXYL)PHTHALATE	5	U		5	U							
BUTYL BENZYL PHTHALATE	10	U		10	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CARBAZOLE	10	U		10	U							
CHLOROBENZILATE	10	U		10	U							
CHRYSENE	10	U		10	U							
DI-N-BUTYL PHTHALATE	10	U		10	U							
DI-N-OCTYL PHTHALATE	10	U		10	U							
DIALLATE	20	U		20	U							
DIBENZO(A,H)ANTHRACENE	10	U		10	U							
DIBENZOFURAN	10	U		10	U							
DIETHYL PHTHALATE	10	U		10	U							
DIMETHYL PHTHALATE	10	U		10	U							
DINOSEB	20	U		20	U							
DIPHENYLAMINE	10	U		10	U							
ETHYL METHANE SULFONATE	10	U		10	U							
FLUORANTHENE	10	U		10	U							
FLUORENE	10	U		10	U							
HEXACHLOROBEZENE	10	U		10	U							
HEXACHLOROBUTADIENE	10	U		10	U							
HEXACHLOROCYCLOPENTADIENE	10	UR	E	10	UR	E						
HEXACHLOROETHANE	10	U		10	U							
HEXACHLOROPROPENE	10	U		10	U							
INDENO(1,2,3-CD)PYRENE	10	U		10	U							
ISOPHORONE	10	U		10	U							
ISOSAFROLE	10	U		10	U							
METHAPYRILENE	10	UJ	C	10	UJ	C						
METHYL METHANE SULFONATE	10	U		10	U							
N-NITROSO-DI-N-PROPYLAMINE	10	U		10	U							
N-NITROSODI-N-BUTYLAMINE	10	U		10	U							
N-NITROSODIETHYLAMINE	10	U		10	U							
N-NITROSODIMETHYLAMINE	10	U		10	U							
N-NITROSODIPHENYLAMINE	10	U		10	U							
N-NITROSOMETHYLETHYLAMINE	10	U		10	U							
N-NITROSOMORPHOLINE	10	U		10	U							

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-GW66-05	MPT-G4-GW67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105002	A1C090105004		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
N-NITROSOPIPERIDINE	10	U		10	U							
N-NITROSOPYRROLIDINE	10	U		10	U							
NAPHTHALENE	10	U		10	U							
NITROBENZENE	10	U		10	U							
O-TOLUIDINE	10	U		10	U							
P-(DIMETHYLAMINO)AZOBENZENE	10	U		10	U							
PENTACHLOROBENZENE	10	U		10	U							
PENTACHLOROETHANE	50	U		50	U							
PENTACHLORONITROBENZENE	10	U		10	U							
PENTACHLOROPHENOL	10	U		10	U							
PHENACETIN	10	U		10	U							
PHENANTHRENE	10	U		10	U							
PHENOL	10	U		10	U							
PRONAMIDE	10	U		10	U							
PYRENE	10	U		10	U							
PYRIDINE	10	U		10	U							
SAFROLE	10	U		10	U							
SULFOTEPP	50	U		50	U							
THIONAZIN	50	U		50	U							

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	86.0 %	75.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	380	U		440	U							
1,2,4-TRICHLORO BENZENE	380	U		440	U							
1,2-DICHLORO BENZENE	380	U		440	U							
1,3,5-TRINITRO BENZENE	1900	U		2100	U							
1,3-DICHLORO BENZENE	380	U		440	U							
1,3-DINITRO BENZENE	380	U		440	U							
1,4-DICHLORO BENZENE	380	U		440	U							
1,4-DIOXANE	380	U		440	U							
1,4-NAPHTHOQUINONE	1900	U		2100	U							
1,4-PHENYLENEDIAMINE	3800	UJ	C	4400	UJ	C						
1-NAPHTHYLAMINE	380	U		440	U							
2,2'-OXYBIS(1-CHLOROPROPANE)	380	U		440	U							
2,3,4,6-TETRACHLOROPHENOL	1900	U		2100	U							
2,4,5-TRICHLOROPHENOL	380	U		440	U							
2,4,6-TRICHLOROPHENOL	380	U		440	U							
2,4-DICHLOROPHENOL	380	U		440	U							
2,4-DIMETHYLPHENOL	380	U		440	U							
2,4-DINITROPHENOL	1900	UJ	C	2100	UJ	C						
2,4-DINITROTOLUENE	380	U		440	U							
2,6-DICHLOROPHENOL	380	U		440	U							
2,6-DINITROTOLUENE	380	U		440	U							
2-ACETYLAMINOFLUORENE	3800	U		4400	U							
2-CHLORONAPHTHALENE	380	U		440	U							
2-CHLOROPHENOL	380	U		440	U							
2-METHYLNAPHTHALENE	380	U		440	U							
2-METHYLPHENOL	380	U		440	U							
2-NAPHTHYLAMINE	380	U		440	U							
2-NITROANILINE	1900	U		2100	U							
2-NITROPHENOL	380	U		440	U							
2-PICOLINE	770	U		880	U							
3,3'-DICHLORO BENZIDINE	1900	U		2100	U							
3,3'-DIMETHYLBENZIDINE	1900	U		2100	U							

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP038

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05	
SAMPLE DATE:	03/05/01	03/05/01	//
LABORATORY ID:	A1C090105001	A1C090105003	//
QC_TYPE:	NORMAL	NORMAL	
% SOLIDS:	86.0 %	75.0 %	100.0 %
UNITS:	UG/KG	UG/KG	
FIELD DUPLICATE OF:			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	770	U		880	U							
3-METHYLPHENOL	380	U		440	U							
3-NITROANILINE	1900	U		2100	U							
4,6-DINITRO-2-METHYLPHENOL	1900	U		2100	U							
4-AMINOBIHENYL	1900	U		2100	U							
4-BROMOPHENYL PHENYL ETHER	380	U		440	U							
4-CHLORO-3-METHYLPHENOL	380	U		440	U							
4-CHLOROANILINE	380	U		440	U							
4-CHLOROPHENYL PHENYL ETHER	380	U		440	U							
4-METHYLPHENOL	380	U		440	U							
4-NITROANILINE	1900	U		2100	U							
4-NITROPHENOL	1900	U		2100	U							
4-NITROQUINOLINE-1-OXIDE	3800	UR	C	4400	UR	C						
5-NITRO-O-TOLUIDINE	770	U		880	U							
7,12-DIMETHYLBENZ(A)ANTHRACENE	770	UJ	C	880	UJ	C						
A,A-DIMETHYLPHENETHYLAMINE	1900	UJ	C	2100	UJ	C						
ACENAPHTHENE	380	U		440	U							
ACENAPHTHYLENE	380	U		440	U							
ACETOPHENONE	380	U		440	U							
ANILINE	380	U		440	U							
ANTHRACENE	380	U		440	U							
ARAMITE	770	U		880	U							
BENZO(A)ANTHRACENE	380	U		440	U							
BENZO(A)PYRENE	380	U		440	U							
BENZO(B)FLUORANTHENE	380	U		440	U							
BENZO(G,H,I)PERYLENE	380	U		440	U							
BENZO(K)FLUORANTHENE	380	U		440	U							
BENZYL ALCOHOL	380	U		440	U							
BIS(2-CHLOROETHOXY)METHANE	380	U		440	U							
BIS(2-CHLOROETHYL)ETHER	380	U		440	U							
BIS(2-ETHYLHEXYL)PHTHALATE	380	U		440	U							
BUTYL BENZYL PHTHALATE	380	U		440	U							

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	86.0 %	75.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CARBAZOLE	380	U		440	U							
CHLOROBENZILATE	380	U		440	U							
CHRYSENE	380	U		440	U							
DI-N-BUTYL PHTHALATE	380	U		440	U							
DI-N-OCTYL PHTHALATE	380	U		440	U							
DIALLATE	770	U		880	U							
DIBENZO(A,H)ANTHRACENE	380	U		440	U							
DIBENZOFURAN	380	U		440	U							
DIETHYL PHTHALATE	380	U		440	U							
DIMETHYL PHTHALATE	380	U		440	U							
DINOSEB	770	U		880	U							
DIPHENYLAMINE	380	U		440	U							
ETHYL METHANE SULFONATE	380	U		440	U							
FLUORANTHENE	380	U		440	U							
FLUORENE	380	U		440	U							
HEXACHLORO BENZENE	380	U		440	U							
HEXACHLOROBUTADIENE	380	U		440	U							
HEXACHLOROCYCLOPENTADIENE	1900	U		2100	U							
HEXACHLOROETHANE	380	U		440	U							
HEXACHLOROPROPENE	3800	U		4400	U							
INDENO(1,2,3-CD)PYRENE	380	U		440	U							
ISOPHORONE	380	U		440	U							
ISOSAFROLE	770	U		880	U							
METHAPYRILENE	1900	U		2100	U							
METHYL METHANE SULFONATE	380	U		440	U							
N-NITROSO-DI-N-PROPYLAMINE	380	U		440	U							
N-NITROSODI-N-BUTYLAMINE	380	U		440	U							
N-NITROSODIETHYLAMINE	380	U		440	U							
N-NITROSODIMETHYLAMINE	380	U		440	U							
N-NITROSODIPHENYLAMINE	380	U		440	U							
N-NITROSOMETHYLETHYLAMINE	380	U		440	U							
N-NITROSOMORPHOLINE	380	U		440	U							

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP038**

SAMPLE NUMBER:	MPT-G4-SU66-05	MPT-G4-SU67-05		
SAMPLE DATE:	03/05/01	03/05/01	//	//
LABORATORY ID:	A1C090105001	A1C090105003		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	86.0 %	75.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
N-NITROSOPIPERIDINE	380	U		440	U							
N-NITROSOPYRROLIDINE	380	U		440	U							
NAPHTHALENE	380	U		440	U							
NITROBENZENE	380	U		440	U							
O-TOLUIDINE	770	U		880	U							
P-(DIMETHYLAMINO)AZOBENZENE	770	U		880	U							
PENTACHLOROBENZENE	380	U		440	U							
PENTACHLOROETHANE	1900	U		2100	U							
PENTACHLORONITROBENZENE	1900	U		2100	U							
PENTACHLOROPHENOL	1900	U		2100	U							
PHENACETIN	770	U		880	U							
PHENANTHRENE	380	U		440	U							
PHENOL	380	U		440	U							
PRONAMIDE	770	U		880	U							
PYRENE	380	U		440	U							
PYRIDINE	770	U		880	U							
SAFROLE	770	U		880	U							
SULFOTEPP	1900	U		2100	U							
THIONAZIN	1900	U		2100	U							

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 001

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 03/07/01

Work Order: DW5XE1AC Date Extracted: 03/13/01

Dilution factor: 0.98 Date Analyzed: 03/13/01

Moisture %: 14

QC Batch: 1073165

Client Sample Id: MPT-G4-SU66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	23	U
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
71-43-2	Benzene	5.7	U
75-27-4	Bromodichloromethane	5.7	U
75-25-2	Bromoform	5.7	U
74-83-9	Bromomethane	11	U
75-15-0	Carbon disulfide	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
108-90-7	Chlorobenzene	5.7	U
126-99-8	Chloroprene	5.7	U
124-48-1	Dibromochloromethane	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
75-00-3	Chloroethane	11	U
110-75-8	2-Chloroethyl vinyl ether	57	U
67-66-3	Chloroform	5.7	U
74-87-3	Chloromethane	11	U
107-05-1	Allyl chloride	11	U
74-95-3	Dibromomethane	5.7	U
110-57-6	trans-1,4-Dichloro-2-butene	5.7	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
156-59-2	cis-1,2-Dichloroethene	2.9	U
156-60-5	trans-1,2-Dichloroethene	2.9	U
540-59-0	1,2-Dichloroethene (total)	5.7	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 001
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 03/07/01
 Work Order: DW5XE1AC Date Extracted: 03/13/01
 Dilution factor: 0.98 Date Analyzed: 03/13/01
 Moisture %: 14

QC Batch: 1073165

Client Sample Id: MPT-G4-SU66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	5.7	U
10061-01-5	cis-1,3-Dichloropropene	5.7	U
10061-02-6	trans-1,3-Dichloropropene	5.7	U
100-41-4	Ethylbenzene	5.7	U
97-63-2	Ethyl methacrylate	5.7	U
75-69-4	Trichlorofluoromethane	11	U
591-78-6	2-Hexanone	23	U
74-88-4	Iodomethane	5.7	U
78-83-1	Isobutyl alcohol	230	U
126-98-7	Methacrylonitrile	5.7	U
75-09-2	Methylene chloride	5.7	U
80-62-6	Methyl methacrylate	5.7	U
107-12-0	Propionitrile	23	U
100-42-5	Styrene	5.7	U
630-20-6	1,1,1,2-Tetrachloroethane	5.7	U
79-34-5	1,1,2,2-Tetrachloroethane	5.7	U
127-18-4	Tetrachloroethene	5.7	U
108-88-3	Toluene	5.7	U
71-55-6	1,1,1-Trichloroethane	5.7	U
79-00-5	1,1,2-Trichloroethane	5.7	U
79-01-6	Trichloroethene	5.7	U
96-18-4	1,2,3-Trichloropropane	5.7	U
108-05-4	Vinyl acetate	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	5.7	U
1634-04-4	Methyl tert-butyl ether	23	U
106-93-4	1,2-Dibromoethane (EDB)	5.7	U
78-93-3	2-Butanone (MEK)	23	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP038

Matrix: (soil/water) SO

Lab Sample ID: A1C090105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 03/07/01

Work Order: DW50TIAN

Date Extracted: 03/13/01

Dilution factor: 0.91

Date Analyzed: 03/13/01

Moisture %: 25

QC Batch: 1073165

Client Sample Id: MPT-G4-SU67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone	24		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.1		U
75-27-4	Bromodichloromethane	6.1		U
75-25-2	Bromoform	6.1		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.1		U
56-23-5	Carbon tetrachloride	6.1		U
108-90-7	Chlorobenzene	6.1		U
126-99-8	Chloroprene	6.1		U
124-48-1	Dibromochloromethane	6.1		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	61		U
67-66-3	Chloroform	6.1		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.1		U
110-57-6	trans-1,4-Dichloro-2-butene	6.1		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.1		U
107-06-2	1,2-Dichloroethane	6.1		U
75-35-4	1,1-Dichloroethene	6.1		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	6.1		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038
 Matrix: (soil/water) SO Lab Sample ID: A1C090105 003
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
 Sample WT/Vol: 5 / g Date Received: 03/07/01
 Work Order: DW50T1AN Date Extracted: 03/13/01
 Dilution factor: 0.91 Date Analyzed: 03/13/01
 Moisture %: 25
 Client Sample Id: MPT-G4-SU67-05 QC Batch: 1073165

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
100-41-4	Ethylbenzene	6.1	U
97-63-2	Ethyl methacrylate	6.1	U
75-69-4	Trichlorofluoromethane	12	U
591-78-6	2-Hexanone	24	U
74-88-4	Iodomethane	6.1	U
78-83-1	Isobutyl alcohol	240	U
126-98-7	Methacrylonitrile	6.1	U
75-09-2	Methylene chloride	6.1	U
80-62-6	Methyl methacrylate	6.1	U
107-12-0	Propionitrile	24	U
100-42-5	Styrene	6.1	U
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
108-88-3	Toluene	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
79-01-6	Trichloroethene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Xylenes (total)	6.1	U
1634-04-4	Methyl tert-butyl ether	24	U
106-93-4	1,2-Dibromoethane (EDB)	6.1	U
78-93-3	2-Butanone (MEK)	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: ALC090105 003
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 03/07/01
Work Order: DW50T1AN Date Extracted: 03/13/01
Dilution factor: 0.91 Date Analyzed: 03/13/01
Moisture %: 25

QC Batch: 1073165

Client Sample Id: MPT-G4-SU67-05

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
 Work Order: DWSX31A6 Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/13/01
 Moisture †:

QC Batch: 1073134

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.8	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
 Work Order: DW5X31A6 Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/13/01
 Moisture %:

QC Batch: 1073134

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 002
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
Work Order: DWSX31A6 Date Extracted: 03/13/01
Dilution factor: 1 Date Analyzed: 03/13/01
Moisture %:

QC Batch: 1073134

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
1634-04-4	Methyl tert-butyl ether (MTBE)	5.0		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 004
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
 Work Order: DW50X1AH Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/13/01
 Moisture %:

QC Batch: 1073134

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	10	U
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 004

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
 Work Order: DWS0X1AH Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/13/01
 Moisture %:

QC Batch: 1073134

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	1.0	U
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038
Matrix: (soil/water) WG Lab Sample ID: A1C090105 004
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
Work Order: DW50X1AH Date Extracted: 03/13/01
Dilution factor: 1 Date Analyzed: 03/13/01
Moisture %:

Client Sample Id: MPT-G4-GW67-05 QC Batch: 1073134

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
1634-04-4	Methyl tert-butyl ether (MTB)	5.0	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WQ Lab Sample ID: A1C090105 005
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
 Work Order: DW5001AA Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/13/01
 Moisture %:

QC Batch: 1073134

Client Sample Id: TB03050101

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	4.4	J
75-05-8	Acetonitrile	20	U
107-02-8	Acrolein	10	U
107-13-1	Acrylonitrile	10	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	2.0	U
75-15-0	Carbon disulfide	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
126-99-8	Chloroprene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
75-00-3	Chloroethane	1.0	U
110-75-8	2-Chloroethyl vinyl ether	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
107-05-1	Allyl chloride	1.0	U
74-95-3	Dibromomethane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
540-59-0	1,2-Dichloroethene (total)	1.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:MP038

Matrix: (soil/water) WQ Lab Sample ID:A1C090105 005
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/07/01
 Work Order: DW5001AA Date Extracted:03/13/01
 Dilution factor: 1 Date Analyzed: 03/13/01
 Moisture %:

QC Batch: 1073134

Client Sample Id: TB03050101

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
97-63-2	Ethyl methacrylate	1.0	U
75-69-4	Trichlorofluoromethane	2.0	U
591-78-6	2-Hexanone	10	U
74-88-4	Iodomethane	1.0	U
78-83-1	Isobutyl alcohol	50	U
126-98-7	Methacrylonitrile	1.0	U
75-09-2	Methylene chloride	1.0	U
80-62-6	Methyl methacrylate	1.0	U
107-12-0	Propionitrile	4.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	0.39	J
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-05-4	Vinyl acetate	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Xylenes (total)	0.58	J
106-93-4	1,2-Dibromoethane (EDB)	1.0	U
78-93-3	2-Butanone (MEK)	10	U
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW5X31AA Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW5X31AA Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthrace	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038
 Matrix: (soil/water) WG Lab Sample ID: A1C090105 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW5X31AA Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:
 QC Batch: 1071115
 Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP038

Matrix: (soil/water) WG

Lab Sample ID: A1C090105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/07/01

Work Order: DW5X31AA

Date Extracted: 03/12/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP038

Matrix: (soil/water) WG

Lab Sample ID: A1C090105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/07/01

Work Order: DWSX31AA

Date Extracted: 03/12/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
510-15-6	Chlorobenzilate	10	U
122-09-8	a, a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW50X1AK Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
53-96-3	2-Acetylaminofluorene	10	U
92-67-1	4-Aminobiphenyl	10	U
62-53-3	Aniline	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
100-51-6	Benzyl alcohol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	5.0	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
2303-16-4	Diallate	20	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: ALC090105 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW50X1AK Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
297-97-2	Thionazin	50	U
60-11-7	p-Dimethylaminoazobenzene	10	U
57-97-6	7,12-Dimethylbenz(a)anthracene	10	U
119-93-7	3,3'-Dimethylbenzidine	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
99-65-0	1,3-Dinitrobenzene	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	20	U
123-91-1	1,4-Dioxane	10	U
122-39-4	Diphenylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW50X1AK Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
1888-71-7	Hexachloropropene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
120-58-1	Isosafrole	10	U
91-80-5	Methapyrilene	10	U
95-53-4	o-Toluidine	10	U
56-49-5	3-Methylcholanthrene	10	U
66-27-3	Methyl methanesulfonate	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
108-39-4	3-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
130-15-4	1,4-Naphthoquinone	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
56-57-5	4-Nitroquinoline-1-oxide	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-75-9	N-Nitrosodimethylamine	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01
 Work Order: DW50X1AK Date Extracted: 03/12/01
 Dilution factor: 1 Date Analyzed: 03/16/01
 Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
100-75-4	N-Nitrosopiperidine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
99-55-8	5-Nitro-o-toluidine	10	U
608-93-5	Pentachlorobenzene	10	U
76-01-7	Pentachloroethane	50	U
82-68-8	Pentachloronitrobenzene	10	U
87-86-5	Pentachlorophenol	10	U
62-44-2	Phenacetin	10	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
106-50-3	p-Phenylene diamine	10	U
109-06-8	2-Picoline	10	U
23950-58-5	Pronamide	10	U
129-00-0	Pyrene	10	U
110-86-1	Pyridine	10	U
94-59-7	Safrole	10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
3689-24-5	Sulfotepp	50	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
86-74-8	Carbazole	10	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) WG Lab Sample ID: A1C090105 004

Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/07/01

Work Order: DW50X1AK Date Extracted: 03/12/01

Dilution factor: 1 Date Analyzed: 03/16/01

Moisture %:

QC Batch: 1071115

Client Sample Id: MPT-G4-GW67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
510-15-6	Chlorobenzilate	10	U
122-09-8	a,a-Dimethylphenethylamine	50	U
140-57-8	Aramite	10	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW5XE1A7 Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 14

QC Batch: 1072095

Client Sample Id: MPT-G4-SU66-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	380		U
205-99-2	Benzo(b)fluoranthene	380		U
207-08-9	Benzo(k)fluoranthene	380		U
191-24-2	Benzo(ghi)perylene	380		U
50-32-8	Benzo(a)pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	770		U
53-70-3	Dibenz(a,h)anthracene	380		U
132-64-9	Dibenzofuran	380		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DWSXE1A7 Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 14

QC Batch: 1072095

Client Sample Id: MPT-G4-SU66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	380	U
87-65-0	2,6-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U
297-97-2	Thionazin	1900	U
60-11-7	p-Dimethylaminoazobenzene	770	U
57-97-6	7,12-Dimethylbenz(a)anthrace	770	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
99-65-0	1,3-Dinitrobenzene	380	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770	U
123-91-1	1,4-Dioxane	380	U
122-39-4	Diphenylamine	380	U
62-50-0	Ethyl methanesulfonate	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: ALC090105 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW5XE1A7 Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 14

QC Batch: 1072095

Client Sample Id: MPT-G4-SU66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
77-47-4	Hexachlorocyclopentadiene	1900	U
67-72-1	Hexachloroethane	380	U
1888-71-7	Hexachloropropene	3800	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
78-59-1	Isophorone	380	U
120-58-1	Isosafrole	770	U
91-80-5	Methapyrilene	1900	U
95-53-4	o-Toluidine	770	U
56-49-5	3-Methylcholanthrene	770	U
66-27-3	Methyl methanesulfonate	380	U
91-57-6	2-Methylnaphthalene	380	U
95-48-7	2-Methylphenol	380	U
108-39-4	3-Methylphenol	380	U
106-44-5	4-Methylphenol	380	U
91-20-3	Naphthalene	380	U
130-15-4	1,4-Naphthoquinone	1900	U
134-32-7	1-Naphthylamine	380	U
91-59-8	2-Naphthylamine	380	U
88-74-4	2-Nitroaniline	1900	U
99-09-2	3-Nitroaniline	1900	U
100-01-6	4-Nitroaniline	1900	U
98-95-3	Nitrobenzene	380	U
88-75-5	2-Nitrophenol	380	U
100-02-7	4-Nitrophenol	1900	U
56-57-5	4-Nitroquinoline-1-oxide	3800	U
924-16-3	N-Nitrosodi-n-butylamine	380	U
55-18-5	N-Nitrosodiethylamine	380	U
62-75-9	N-Nitrosodimethylamine	380	U

FORM I

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:MP038

Matrix: (soil/water) SO Lab Sample ID:A1C090105 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DWSXE1A7 Date Extracted:03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %:14

QC Batch: 1072095

Client Sample Id: MPT-G4-SU66-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
621-64-7	N-Nitrosodi-n-propylamine	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
10595-95-6	N-Nitrosomethylethylamine	380	U
59-89-2	N-Nitrosomorpholine	380	U
100-75-4	N-Nitrosopiperidine	380	U
930-55-2	N-Nitrosopyrrolidine	380	U
99-55-8	5-Nitro-o-toluidine	770	U
608-93-5	Pentachlorobenzene	380	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	770	U
85-01-8	Phenanthrene	380	U
108-95-2	Phenol	380	U
106-50-3	p-Phenylene diamine	3800	U
109-06-8	2-Picoline	770	U
23950-58-5	Pronamide	770	U
129-00-0	Pyrene	380	U
110-86-1	Pyridine	770	U
94-59-7	Safrole	770	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
3689-24-5	Sulfotepp	1900	U
120-82-1	1,2,4-Trichlorobenzene	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	380	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP038

Matrix: (soil/water) SO

Lab Sample ID: A1C090105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 03/07/01

Work Order: DW5XE1A7

Date Extracted: 03/13/01

Dilution factor: 1

Date Analyzed: 03/15/01

Moisture %: 14

QC Batch: 1072095

Client Sample Id: MPT-G4-SU66-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
510-15-6	Chlorobenzilate	380		U
122-09-8	a, a-Dimethylphenethylamine	1900		U
140-57-8	Aramite	770		U

FORM I

STL North Canton

343

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW50T1AJ Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 25

QC Batch: 1072095

Client Sample Id: MPT-G4-SU67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	440	U
208-96-8	Acenaphthylene	440	U
98-86-2	Acetophenone	440	U
53-96-3	2-Acetylaminofluorene	4400	U
92-67-1	4-Aminobiphenyl	2100	U
62-53-3	Aniline	440	U
120-12-7	Anthracene	440	U
56-55-3	Benzo(a)anthracene	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
191-24-2	Benzo(ghi)perylene	440	U
50-32-8	Benzo(a)pyrene	440	U
100-51-6	Benzyl alcohol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
111-44-4	bis(2-Chloroethyl) ether	440	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	440	U
117-81-7	bis(2-Ethylhexyl) phthalate	440	U
101-55-3	4-Bromophenyl phenyl ether	440	U
85-68-7	Butyl benzyl phthalate	440	U
106-47-8	4-Chloroaniline	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-58-7	2-Chloronaphthalene	440	U
95-57-8	2-Chlorophenol	440	U
7005-72-3	4-Chlorophenyl phenyl ether	440	U
218-01-9	Chrysene	440	U
2303-16-4	Diallate	880	U
53-70-3	Dibenz(a,h)anthracene	440	U
132-64-9	Dibenzofuran	440	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW50TIAJ Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 25

QC Batch: 1072095

Client Sample Id: MPT-G4-SU67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	440	U
95-50-1	1,2-Dichlorobenzene	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
120-83-2	2,4-Dichlorophenol	440	U
87-65-0	2,6-Dichlorophenol	440	U
84-66-2	Diethyl phthalate	440	U
297-97-2	Thionazin	2100	U
60-11-7	p-Dimethylaminoazobenzene	880	U
57-97-6	7,12-Dimethylbenz(a)anthracene	880	U
119-93-7	3,3'-Dimethylbenzidine	2100	U
105-67-9	2,4-Dimethylphenol	440	U
131-11-3	Dimethyl phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
99-65-0	1,3-Dinitrobenzene	440	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
51-28-5	2,4-Dinitrophenol	2100	U
121-14-2	2,4-Dinitrotoluene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	880	U
123-91-1	1,4-Dioxane	440	U
122-39-4	Diphenylamine	440	U
62-50-0	Ethyl methanesulfonate	440	U
206-44-0	Fluoranthene	440	U
86-73-7	Fluorene	440	U
118-74-1	Hexachlorobenzene	440	U
87-68-3	Hexachlorobutadiene	440	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW50T1AJ Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 25

QC Batch: 1072095

Client Sample Id: MPT-G4-SU67-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
77-47-4	Hexachlorocyclopentadiene	2100	U
67-72-1	Hexachloroethane	440	U
1888-71-7	Hexachloropropene	4400	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
78-59-1	Isophorone	440	U
120-58-1	Isosafrole	880	U
91-80-5	Methapyrilene	2100	U
95-53-4	o-Toluidine	880	U
56-49-5	3-Methylcholanthrene	880	U
66-27-3	Methyl methanesulfonate	440	U
91-57-6	2-Methylnaphthalene	440	U
95-48-7	2-Methylphenol	440	U
108-39-4	3-Methylphenol	440	U
106-44-5	4-Methylphenol	440	U
91-20-3	Naphthalene	440	U
130-15-4	1,4-Naphthoquinone	2100	U
134-32-7	1-Naphthylamine	440	U
91-59-8	2-Naphthylamine	440	U
88-74-4	2-Nitroaniline	2100	U
99-09-2	3-Nitroaniline	2100	U
100-01-6	4-Nitroaniline	2100	U
98-95-3	Nitrobenzene	440	U
88-75-5	2-Nitrophenol	440	U
100-02-7	4-Nitrophenol	2100	U
56-57-5	4-Nitroquinoline-1-oxide	4400	U
924-16-3	N-Nitrosodi-n-butylamine	440	U
55-18-5	N-Nitrosodiethylamine	440	U
62-75-9	N-Nitrosodimethylamine	440	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038

Matrix: (soil/water) SO Lab Sample ID: A1C090105 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW50TIAJ Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 25

QC Batch: 1072095

Client Sample Id: MPT-G4-SU67-05

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg Q
621-64-7	N-Nitrosodi-n-propylamine	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
10595-95-6	N-Nitrosomethylethylamine	440	U
59-89-2	N-Nitrosomorpholine	440	U
100-75-4	N-Nitrosopiperidine	440	U
930-55-2	N-Nitrosopyrrolidine	440	U
99-55-8	5-Nitro-o-toluidine	880	U
608-93-5	Pentachlorobenzene	440	U
76-01-7	Pentachloroethane	2100	U
82-68-8	Pentachloronitrobenzene	2100	U
87-86-5	Pentachlorophenol	2100	U
62-44-2	Phenacetin	880	U
85-01-8	Phenanthrene	440	U
108-95-2	Phenol	440	U
106-50-3	p-Phenylene diamine	4400	U
109-06-8	2-Picoline	880	U
23950-58-5	Pronamide	880	U
129-00-0	Pyrene	440	U
110-86-1	Pyridine	880	U
94-59-7	Safrole	880	U
95-94-3	1,2,4,5-Tetrachlorobenzene	440	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U
3689-24-5	Sulfotepp	2100	U
120-82-1	1,2,4-Trichlorobenzene	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
99-35-4	1,3,5-Trinitrobenzene	2100	U
86-74-8	Carbazole	440	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP038
 Matrix: (soil/water) SO Lab Sample ID: A1C090105 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 30.04 / g Date Received: 03/07/01
 Work Order: DW50T1AJ Date Extracted: 03/13/01
 Dilution factor: 1 Date Analyzed: 03/15/01
 Moisture %: 25
 Client Sample Id: MPT-G4-SU67-05 QC Batch: 1072095

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
510-15-6	Chlorobenzilate	440	U
122-09-8	a,a-Dimethylphenethylamine	2100	U
140-57-8	Aramite	880	U

APPENDIX C

SUPPORT DOCUMENTATION

SDG NARRATIVE

MP038

The following report contains the analytical results for three water samples and two solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport – Group IV site, project number N0123. The samples were received March 7, 2001, according to documented sample acceptance procedures.

This SDG consists of one (1) laboratory IDs: A1C090105.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.8° C. The samples were received in wet ice.

See STL's Cooler Receipt Form for additional information.

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: Tetra Tech Project: Group IV Quote#: _____
 Cooler Received on: 3/7/01 Opened on: 3/7/01 by: Jason Umbarger/TB
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: _____

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 1 Location side of cooler
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt 2.8 °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Between Coolant & Sample Container Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No NA
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM DJP Date: 3/7/01 by: TB via Voice Mail Verbal Other
 Concerning: trip blanks - OK to log - See E-mail

MACRO | MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred <u>2x40 trip blank not on COC - DJP aware - TB 3/7/01</u>

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

SR4A NCM has been generated. Refer to Clouseau for details

5. Other Anomalies (see below or back)

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

* for analyses run on TJA Trace ICP or GFAA only

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

STL North Canton, Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), Ohio VAP (#CL0024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence –

STL North Canton Participating Lab Status Award (#82)

ANALYTICAL METHODS SUMMARY

ALC090105

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Cyanide	SW846 9012A
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1C090105

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
DW5XE	001	MPT-G4-SU66-05	03/05/01	14:50
DW5X3	002	MPT-G4-GW66-05	03/05/01	15:05
DW50T	003	MPT-G4-SU67-05	03/05/01	15:20
DW50X	004	MPT-G4-GW67-05	03/05/01	15:40
DW500	005	TB03050101	03/05/01	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MP038

HOLDING TIME

04/04/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	CN	03/05/01	03/16/01	03/16/01	11	0	11
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	CN	03/05/01	03/16/01	03/16/01	11	0	11
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	HG	03/05/01	03/13/01	03/15/01	8	2	10
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	HG	03/05/01	03/13/01	03/15/01	8	2	10
MG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	HG	03/05/01	03/13/01	03/14/01	8	1	9
MG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	HG	03/05/01	03/13/01	03/14/01	8	1	9
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	M	03/05/01	03/13/01	03/15/01	8	2	10
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	M	03/05/01	03/13/01	03/15/01	8	2	10
MG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	M	03/05/01	03/19/01	03/21/01	14	2	16
MG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	M	03/05/01	03/19/01	03/21/01	14	2	16
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	OS	03/05/01	03/12/01	03/16/01	7	4	11
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	OS	03/05/01	03/12/01	03/16/01	7	4	11
UG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	OS	03/05/01	03/13/01	03/15/01	8	2	10
UG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	OS	03/05/01	03/13/01	03/15/01	8	2	10
UG/L	MPT-G4-GW66-05	A1C090105002	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/L	MPT-G4-GW67-05	A1C090105004	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/KG	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/KG	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
UG/L	TB03050101	A1C090105005	TRIP BLANK	MP038	OV	03/05/01	03/13/01	03/13/01	8	0	8
MG/L	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	SPLPC	03/05/01	03/16/01	03/16/01	11	0	11
MG/L	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	SPLPC	03/05/01	03/16/01	03/16/01	11	0	11
UG/L	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	SPLPH	03/05/01	03/14/01	03/15/01	9	1	10
UG/L	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	SPLPH	03/05/01	03/14/01	03/15/01	9	1	10
UG/L	MPT-G4-SU66-05	A1C090105001	NORMAL	MP038	SPLPM	03/05/01	03/14/01	03/15/01	9	1	10
UG/L	MPT-G4-SU67-05	A1C090105003	NORMAL	MP038	SPLPM	03/05/01	03/14/01	03/15/01	9	1	10

SDG NARRATIVE

MP038

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The pH of the sample TB03050101 was greater than 2. The sample was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

The solid samples in this lot were preserved by freezing in water due to samples effervescing when preserved with sodium bisulfate.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCTFLAC

BATCH: 1073165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chlorobenzene	50	46	92	75- 127	
Ethylbenzene	50	46	92	37- 162	
Styrene	50	47	94	79- 100	
Xylenes (total)	150	140	93	83- 129	
cis-1,2-Dichloroethene	50	44	88	50- 150	
trans-1,2-Dichloroethene	50	46	93	54- 156	
n-Hexane	50	42	83*	98- 117	a
Chloromethane	50	52	105	10- 273	
Bromomethane	50	45	90	10- 242	
Vinyl chloride	50	49	97	41- 138	
Chloroethane	50	45	91	82- 114	
Methylene chloride	50	42	84	10- 221	
Acetone	50	62	124*	80- 120	a
Carbon disulfide	50	43	86	81- 125	
1,1-Dichloroethene	50	47	94	55- 142	
1,1-Dichloroethane	50	46	92	59- 155	
1,2-Dichloroethene (total)	100	91	91	50- 150	
Chloroform	50	46	91	77- 126	
1,2-Dichloroethane	50	47	95	76- 127	
2-Butanone (MEK)	50	58	117	20- 155	
1,1,1-Trichloroethane	50	46	92	52- 162	
Carbon tetrachloride	50	46	93	66- 141	
Bromodichloromethane	50	46	92	35- 155	
1,2-Dichloropropane	50	44	89	10- 210	
cis-1,3-Dichloropropene	50	45	91	10- 227	
Trichloroethene	50	44	87	70- 131	
Dibromochloromethane	50	47	93	53- 149	
1,1,2-Trichloroethane	50	47	95	52- 150	
Benzene	50	44	89	75- 129	
trans-1,3-Dichloropropene	50	47	94	17- 183	
Bromoform	50	47	94	45- 169	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCTF1AC

BATCH: 1073165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
4-Methyl-2-pentanone (MIB)	50	52	105	90 - 125	
2-Hexanone	50	68	137*	87 - 129	a
Tetrachloroethene	50	45	91	68 - 136	
1,1,2,2-Tetrachloroethane	50	49	98	46 - 157	
Toluene	50	47	93	71 - 130	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 36 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL/CAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCTFLAD

BATCH: 1073165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Vinyl chloride	50	50	100	41 - 138	
Chloroethane	50	47	95	82 - 114	
Chloromethane	50	53	107	10 - 273	
Bromomethane	50	45	91	10 - 242	
Methylene chloride	50	45	90	10 - 221	
Acetone	50	67	133*	80 - 120	a
Carbon disulfide	50	43	87	81 - 125	
1,1-Dichloroethene	50	47	95	55 - 142	
1,1-Dichloroethane	50	48	96	59 - 155	
1,2-Dichloroethene (total)	100	93	93	50 - 150	
Chloroform	50	47	94	77 - 126	
1,2-Dichloroethane	50	50	100	76 - 127	
2-Butanone (MEK)	50	61	123	20 - 155	
1,1,1-Trichloroethane	50	47	95	52 - 162	
Carbon tetrachloride	50	46	92	66 - 141	
Bromodichloromethane	50	47	94	35 - 155	
1,2-Dichloropropane	50	46	92	10 - 210	
cis-1,3-Dichloropropene	50	46	92	10 - 227	
Trichloroethene	50	44	88	70 - 131	
Dibromochloromethane	50	48	97	53 - 149	
1,1,2-Trichloroethane	50	48	96	52 - 150	
Benzene	50	46	92	75 - 129	
trans-1,3-Dichloropropene	50	48	96	17 - 183	
Bromoform	50	47	93	45 - 169	
4-Methyl-2-pentanone (MIB)	50	56	112	90 - 125	
2-Hexanone	50	70	141*	87 - 129	a
Tetrachloroethene	50	45	90	68 - 136	
1,1,2,2-Tetrachloroethane	50	49	99	46 - 157	
Toluene	50	47	94	71 - 130	
Chlorobenzene	50	46	92	75 - 127	
Ethylbenzene	50	46	92	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCTFLAD

BATCH: 1073165

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Styrene	50	47	93	79 - 100	
Xylenes (total)	150	140	94	83 - 129	
cis-1,2-Dichloroethene	50	46	92	50 - 150	
trans-1,2-Dichloroethene	50	47	93	54 - 156	
n-Hexane	50	42	84*	98 - 117	a

NOTES (S) :

a. Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 36 outside limits

COMMENTS:

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP038
 Lab File ID: BFB330 BFB Injection Date: 01/25/01
 Instrument ID: A3UX9 BFB Injection Time: 1139
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	78.6
175	5.0 - 9.0% of mass 174	5.4 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	75.4 (95.8)1
177	5.0 - 9.0% of mass 176	4.6 (6.2)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-A9IC	UX9765	01/25/01	1512
02	VSTD100	500NG-A9IC	UX9766	01/25/01	1534
03	VSTD050	250NG-A9IC	UX9767	01/25/01	1557
04	VSTD020	100NG-A9IC	UX9768	01/25/01	1620
05	VSTD010	50NG-A9IC	UX9769	01/25/01	1643
06	VSTD005	25NG-A9IC	UX9770	01/25/01	1706
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP038
 Lab File ID: BFB362 BFB Injection Date: 02/21/01
 Instrument ID: A3UX9 BFB Injection Time: 1008
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	44.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120.0% of mass 95	92.5
175	5.0 - 9.0% of mass 174	6.0 (6.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.2 (95.3)1
177	5.0 - 9.0% of mass 176	6.5 (7.4)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	UX9479	02/21/01	1025
02	VSTD100	500NG-IC	UX9480	02/21/01	1048
03	VSTD050	250NG-IC	UX9481	02/21/01	1111
04	VSTD020	100NG-IC	UX9482	02/21/01	1133
05	VSTD010	50NG-IC	UX9483	02/21/01	1156
06	VSTD005	25NG-IC	UX9484	02/21/01	1218
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STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:55
 End Cal Date : 21-FEB-2001 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\a3ux9.i\N10221B.b\8260SUX9-3.m
 Cal Date : 21-Feb-2001 13:10 mcdaniels
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10125A.b\UX9770.D
 Level 2: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10125A.b\UX9769.D
 Level 3: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10125A.b\UX9768.D
 Level 4: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10125A.b\UX9767.D
 Level 5: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10125A.b\UX9766.D
 Level 6: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10125A.b\UX9765.D

Compound	25.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
8 Dichlorodifluoromethane	0.16317	0.16484	0.17458	0.18086	0.18179	0.17615	0.17356	4.557
9 Chloromethane	0.29402	0.27260	0.26458	0.27062	0.26218	0.24160	0.26760	6.357
10 Vinyl Chloride	0.30238	0.27230	0.26571	0.27329	0.26529	0.25505	0.27234	5.912
11 Bromomethane	0.19822	0.17117	0.17345	0.17802	0.17939	0.18621	0.18108	5.460
12 Chloroethane	0.18750	0.17069	0.18001	0.18867	0.19412	0.21825	0.18987	8.478
13 Trichlorofluoromethane	0.29189	0.26564	0.29716	0.31680	0.32849	0.38225	0.31371	12.741
14 Acrolein	0.04242	0.04209	0.04361	0.04448	0.04337	0.05174	0.04462	8.051
15 Acetone	0.13436	0.12033	0.11508	0.11799	0.10515	0.10515	0.11635	9.380
16 1,1-Dichloroethene	0.21269	0.21730	0.20689	0.21033	0.20846	0.20831	0.21066	1.813
17 Methylene Chloride	0.37991	0.30426	0.25816	0.23731	0.23004	0.22474	0.27240	22.071
18 Carbon Disulfide	0.70994	0.67468	0.68964	0.68314	0.68152	0.68896	0.68798	1.754
19 Acrylonitrile	0.08607	0.08962	0.09316	0.09480	0.08771	0.09400	0.09089	3.968
20 trans-1,2-Dichloroethene	0.25086	0.24288	0.24162	0.24401	0.24030	0.23744	0.24285	1.868
21 Vinyl acetate	0.30851	0.36597	0.37496	0.39889	0.41440	0.41697	0.37995	10.684
22 1,1-Dichloroethane	0.44253	0.42786	0.41562	0.41746	0.41713	0.41244	0.42217	2.663
23 2-Butanone	0.17921	0.15752	0.15499	0.15695	0.14565	0.14833	0.15711	7.538
24 cis-1,2-dichloroethene	0.27207	0.26760	0.26205	0.25793	0.25682	0.24994	0.26107	3.047
M 25 1,2-Dichloroethene (total)	0.26147	0.25524	0.25183	0.25097	0.24856	0.24369	0.25196	2.395
26 Chloroform	0.40202	0.36344	0.37079	0.36190	0.36315	0.36075	0.37034	4.298
27 1,1,1-Trichloroethane	0.33261	0.30086	0.31743	0.32394	0.32174	0.32136	0.31949	3.212
28 Carbon Tetrachloride	0.26711	0.26056	0.27337	0.27274	0.27902	0.28218	0.27250	2.883
29 1,2-Dichloroethane	0.34126	0.32793	0.31694	0.32488	0.32392	0.31949	0.32574	2.627
30 Benzene	0.97173	0.97084	0.91504	0.93815	0.93307	0.91476	0.94060	2.718
31 Trichloroethene	0.30190	0.28883	0.28113	0.27313	0.27660	0.26882	0.28174	4.273
32 1,2-Dichloropropane	0.25733	0.25311	0.25146	0.25185	0.25268	0.24660	0.25217	1.367

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:55
 End Cal Date : 21-FEB-2001 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\A3UX9.i\N10221B.b\8260SUX9-3.m
 Cal Date : 21-Feb-2001 13:10 mcdaniels
 Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
33 Bromodichloromethane	0.28857	0.28185	0.27640	0.27652	0.28069	0.27835	0.28039	1.629
34 2-Chloroethyl vinyl ether	0.12222	0.13549	0.13969	0.14616	0.14811	0.14805	0.13995	7.181
35 4-Methyl-2-pentanone	0.20559	0.20923	0.21744	0.23616	0.22784	0.24065	0.22282	6.446
36 cis-1,3-Dichloropropene	0.32168	0.32756	0.32821	0.34437	0.35643	0.35612	0.33906	4.518
37 Toluene	1.50842	1.47416	1.45465	1.45045	1.41282	1.41545	1.45266	2.492
38 trans-1,3-Dichloropropene	0.33969	0.35138	0.36955	0.39929	0.40840	0.42331	0.38194	8.750
39 2-Hexanone	0.23534	0.21620	0.25283	0.27471	0.25649	0.27990	0.25258	9.489
40 1,1,2-Trichloroethane	0.29364	0.28193	0.27269	0.28718	0.27925	0.27681	0.28192	2.670
41 Tetrachloroethene	0.29628	0.30468	0.30458	0.29187	0.29290	0.28037	0.29511	3.088
42 Dibromochloromethane	0.30679	0.30512	0.29703	0.31307	0.31907	0.31965	0.31012	2.838
43 Chlorobenzene	1.03756	0.98002	0.95629	0.94672	0.92448	0.91771	0.96046	4.575
44 Ethylbenzene	0.56484	0.50114	0.53973	0.53346	0.51503	0.51284	0.52784	4.356
45 m + p-Xylene	0.64752	0.63590	0.64074	0.63502	0.61533	0.62089	0.63257	1.925
46 Xylene-o	0.63674	0.62723	0.62317	0.62555	0.60369	0.60613	0.62042	2.077
M 47 Xylenes (total)	0.64393	0.63301	0.63488	0.63186	0.61145	0.61597	0.62852	1.959
48 Styrene	1.03678	1.01535	1.04726	1.05603	1.03204	1.04345	1.03849	1.355
49 Bromoform	0.18097	0.18394	0.19257	0.20950	0.20647	0.21725	0.19845	7.442
50 1,1,2,2-Tetrachloroethane	0.63845	0.64228	0.64216	0.67552	0.66280	0.68675	0.65799	3.067
51 1,3-Dichlorobenzene	1.63989	1.57065	1.48440	1.47839	1.45490	1.42009	1.50805	5.412
52 1,4-Dichlorobenzene	1.81275	1.59922	1.51584	1.50831	1.47322	1.46504	1.56240	8.421
53 1,2-Dichlorobenzene	1.53824	1.50818	1.43380	1.39680	1.39234	1.36970	1.43984	4.753
54 Freon-113	0.18400	0.17586	0.17783	0.17859	0.18327	0.18121	0.18013	1.789
55 Acetonitrile	0.01753	0.01741	0.01738	0.01738	0.01696	0.01711	0.01758	4.404
56 Iodomethane	0.36222	0.36728	0.35300	0.35476	0.34856	0.34602	0.35531	2.281
57 3-Chloropropene	0.13358	0.11617	0.11939	0.11704	0.11669	0.11791	0.12013	5.565
58 2-Chloro-1,3-butadiene	0.34959	0.30112	0.32381	0.33237	0.32523	0.33246	0.32743	4.831
59 Propionitrile	0.03051	0.02810	0.02980	0.02838	0.02961	0.03012	0.02942	3.291
60 Methacrylonitrile	0.12416	0.10344	0.10753	0.10118	0.10134	0.10464	0.10705	8.134
61 Isobutanol	0.00693	0.00641	0.00688	0.00658	0.00702	0.00684	0.00678	3.411 <-
62 Methyl Methacrylate	0.17415	0.15320	0.16136	0.15767	0.15826	0.16101	0.16094	4.415
63 1,4-Dioxane	0.00235	0.00221	0.00195	0.00225	0.00231	0.00221	0.00222	6.327 <-
64 Dibromomethane	0.13902	0.13652	0.13095	0.13487	0.13076	0.12877	0.13348	2.955
65 Ethyl Methacrylate	0.34625	0.35267	0.37637	0.41689	0.41438	0.42809	0.38911	9.092

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:55
 End Cal Date : 21-FEB-2001 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux9.i\N10221B.b\8260SUX9-3.m
 Cal Date : 21-Feb-2001 13:10 mcdaniels
 Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
66 1,2-Dibromoethane	0.27307	0.27628	0.27509	0.28327	0.27030	0.27809	0.27602	1.614
67 1,1,1,2-Tetrachloroethane	0.32210	0.25470	0.28373	0.29485	0.29767	0.30243	0.29258	7.662
68 1,2,3-Trichloropropane	0.76054	0.73100	0.73853	0.79275	0.79976	0.83250	0.77585	5.060
69 1,4-Dichloro-2-butene	0.17406	0.18034	0.19860	0.21536	0.21375	0.22965	0.20196	10.717
70 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
71 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
72 1,2-Dibromo-3-chloropropane	0.15513	0.14396	0.15208	0.14657	0.15460	0.14820	0.15009	3.028
73 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
74 n-Butanol	0.00793	0.00793	0.00786	0.00751	0.00796	0.00774	0.00782	2.211 <-
75 Ethyl Acetate	0.20844	0.18550	0.18330	0.17458	0.19186	0.19218	0.18931	6.016
76 Cyclohexanone	0.02923	0.02645	0.02664	0.02525	0.02601	0.02087	0.02574	10.635
77 Ethyl Ether	0.20595	0.19665	0.19538	0.19956	0.18966	0.19074	0.19632	3.053
78 Methyl tert-butyl ether	0.42784	0.40154	0.40661	0.38691	0.38367	0.36899	0.39593	5.202
79 Tetrahydrofuran	0.05532	0.06074	0.06202	0.06394	0.06311	0.06648	0.06194	6.095
80 Dichlorodifluoromethane	0.34878	0.33206	0.32610	0.32877	0.32174	0.34224	0.33328	3.081
81 2-Nitropropane	0.05086	0.04274	0.04556	0.04524	0.04755	0.05122	0.04720	7.095
82 tert-Butyl Alcohol	0.01710	0.01473	0.01577	0.01878	0.01684	0.01926	0.01708	10.129
83 Cyclohexane	0.43265	0.44004	0.43400	0.43626	0.43487	0.43525	0.43551	0.581
84 Hexane	0.33349	0.35597	0.35884	0.34802	0.35574	0.36781	0.35331	3.288
85 Isopropyl Ether	1.17461	1.06160	1.06671	1.04131	1.02588	1.00380	1.06232	5.620
86 2,2-Dichloropropane	0.18541	0.19690	0.20486	0.21655	0.22317	0.22171	0.20810	7.238
87 1,1-Dichloropropene	0.28159	0.28251	0.27789	0.27471	0.28115	0.27333	0.27853	1.382
88 1,3-Dichloropropane	0.50545	0.46820	0.46305	0.46736	0.46271	0.46052	0.47121	3.613
89 Isopropylbenzene	1.49210	1.47887	1.52280	1.51120	1.48833	1.49204	1.49756	1.084
90 Bromobenzene	0.86360	0.83677	0.79052	0.80239	0.79374	0.75906	0.80768	4.584
91 2-Chlorotoluene	0.83436	0.78298	0.79304	0.76149	0.78848	0.76897	0.78822	3.242
92 n-Propylbenzene	0.93826	0.94493	0.93551	0.91988	0.92992	0.90552	0.92900	1.536
93 4-Chlorotoluene	0.80087	0.81544	0.80711	0.78170	0.80483	0.78154	0.79858	1.750
94 1,3,5-Trimethylbenzene	2.46320	2.46630	2.44284	2.47320	2.50113	2.47388	2.47009	0.766
95 tert-Butylbenzene	2.41653	2.38495	2.36499	2.42680	2.42956	2.39515	2.40300	1.067
96 1,2,4-Trimethylbenzene	2.49347	2.50522	2.45825	2.48782	2.51516	2.53969	2.49993	1.098
97 sec-Butylbenzene	3.21042	3.20190	3.14673	3.19459	3.22617	3.25457	3.20573	1.120
98 4-Isopropyltoluene	2.80239	2.77192	2.73848	2.77401	2.78611	2.78109	2.77567	0.765

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 25-JAN-2001 12:55
 End Cal Date : 21-FEB-2001 12:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\aux9.i\N10221B.b\8260SUX9-3.m
 Cal Date : 21-Feb-2001 13:10 mcdaniels
 Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	100.000 Level 3	150.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
99 n-Butylbenzene	2.37889	2.36184	2.37117	2.47219	2.51202	2.56705	2.44386	3.513
100 1,2,4-Trichlorobenzene	0.95497	1.01685	0.99799	1.03288	0.99592	1.00769	1.00105	2.630
101 Naphthalene	2.49402	2.48792	2.50432	2.66201	2.45486	2.53912	2.52371	2.892
102 Hexachlorobutadiene	0.48873	0.52225	0.50430	0.51442	0.49949	0.49338	0.50376	2.523
103 1,2,3-Trichlorobenzene	1.00120	0.99049	0.97414	1.00049	0.92601	0.92396	0.96938	3.689
104 Isopropyl Alcohol	++++	++++	++++	++++	++++	++++	++++	++++ <-
105 N-Propanol	++++	++++	++++	++++	++++	++++	++++	++++ <-
106 Isopropyl Acetate	++++	++++	++++	++++	++++	++++	++++	++++ <-
107 N-Propyl Acetate	++++	++++	++++	++++	++++	++++	++++	++++ <-
108 N-Butyl acetate	++++	++++	++++	++++	++++	++++	++++	++++ <-
109 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++	++++ <-
110 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	++++	++++ <-
111 Bromochloromethane	0.14299	0.13544	0.12878	0.13020	0.12749	0.12551	0.13173	4.898
112 Paraldehyde	++++	++++	++++	++++	++++	++++	++++	++++ <-
135 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++	++++ <-
136 Chloropicrin	++++	++++	++++	++++	++++	++++	++++	++++ <-
137 1,3,5-Trichlorobenzene	1.11605	1.15256	1.10792	1.15362	1.10728	1.11688	1.12572	1.917
138 Methyl Acetate	0.16831	0.15789	0.15881	0.16100	0.15108	0.16297	0.16001	3.583
139 Methylcyclohexane	0.43229	0.41535	0.42113	0.42762	0.42598	0.42908	0.42524	1.432

\$ 4 1,2-Dichloroethane-d4	0.28199	0.25083	0.25434	0.25097	0.24672	0.24691	0.25529	5.243
\$ 5 Toluene-d8	1.30188	1.16247	1.22831	1.16780	1.15884	1.15650	1.19597	4.892
\$ 6 Bromofluorobenzene	0.50836	0.42558	0.45152	0.42960	0.41623	0.41985	0.44186	7.887
\$ 7 Dibromofluoromethane	0.22471	0.20526	0.20858	0.19959	0.19622	0.19468	0.20484	5.411

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP038
 Lab File ID: BFB380 BFB Injection Date: 03/13/01
 Instrument ID: A3UX9 BFB Injection Time: 0556
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	45.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 120.0% of mass 95	88.2
175	5.0 - 9.0% of mass 174	7.0 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	84.6 (95.9)1
177	5.0 - 9.0% of mass 176	6.2 (7.3)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX91092	03/13/01	0611
02	VSTD050	250NG-A9CC	UX91093	03/13/01	0634
03	DXCTF-CHK	DXCTF1AC	UX91094	03/13/01	0657
04	DXCTF-BLK	DXCTF1AA	UX91095	03/13/01	0720
05	DXCTF-CKDUP	DXCTF1AD	UX91096	03/13/01	0742
06	MPT-G4-SU66-	DW5XELAC	UX91097	03/13/01	0805
07	MPT-G4-SU67-	DW50T1AN	UX91098	03/13/01	0828
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CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a3ux9.1
 Lab File ID: UX91092.D
 Analysis Type: SOIL

Injection Date: 13-MAR-2001 06:11
 Lab Sample ID: 250NG-CC
 Method File: \\qcanon04\dd\chem\MSV\A3UX9.1\N10313A.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 Chlorobenzene	250.0000	245.8600	1.7	50.0
0 1,1-Dichloroethene	250.0000	256.4254	2.6	20.0
0 Xylene-o	250.0000	250.6529	0.3	50.0
0 Toluene	250.0000	248.3204	0.7	20.0
0 m + p-Xylene	500.0000	500.8175	0.2	50.0
0 Trichloroethene	250.0000	238.4932	4.6	50.0
0 Benzene	250.0000	245.8671	1.7	50.0
1 Chloromethane	250.0000	270.2969	8.1	50.0
2 Bromomethane	250.0000	252.3967	1.0	50.0
3 Vinyl Chloride	250.0000	257.5338	3.0	20.0
4 Chloroethane	250.0000	257.7488	3.1	50.0
5 Methylene Chloride	250.0000	237.9954	4.8	50.0
6 Acetone	250.0000	312.5626	25.0	50.0
7 Carbon Disulfide	250.0000	249.2976	0.3	50.0
9 1,1-Dichloroethane	250.0000	254.7419	1.9	50.0
10 trans-1,2-Dichloroethene	250.0000	249.6063	0.2	50.0
11 cis-1,2-dichloroethene	250.0000	241.4744	3.4	50.0
12 1,2-Dichloroethene (total)	500.0000	491.0807	1.8	50.0
13 Chloroform	250.0000	250.2658	0.1	20.0
14 1,2-Dichloroethane	250.0000	264.0029	5.6	50.0
15 2-Butanone	250.0000	292.1216	16.8	50.0
16 1,1,1-Trichloroethane	250.0000	255.6050	2.2	50.0
17 Carbon Tetrachloride	250.0000	258.9773	3.6	50.0
18 Bromodichloromethane	250.0000	247.4729	1.0	50.0
19 Fluorobenzene	250.0000	250.0000	0.0	50.0
19 1,2-Dichloropropane	250.0000	250.1850	0.1	20.0
20 cis-1,3-Dichloropropene	250.0000	254.6186	1.8	50.0
22 Dibromochloromethane	250.0000	257.4150	3.0	50.0
23 1,1,2-Trichloroethane	250.0000	257.6666	3.1	50.0
25 trans-1,3-Dichloropropene	250.0000	259.2318	3.7	50.0
25 1,4-Dichlorobenzene-d4	250.0000	250.0000	0.0	50.0
26 Bromoform	250.0000	265.2465	6.1	50.0
27 4-Methyl-2-pentanone	250.0000	301.3520	20.5	50.0
28 2-Hexanone	250.0000	312.0928	24.8	50.0
29 Tetrachloroethene	250.0000	249.4466	0.2	50.0
30 1,1,2,2-Tetrachloroethane	250.0000	275.4364	10.2	50.0
33 Ethylbenzene	250.0000	246.3513	1.5	20.0
34 Styrene	250.0000	248.0453	0.8	50.0
35 Xylenes (total)	750.0000	751.4704	0.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: A3UX9.I Injection Date: 13-MAR-2001 06:11
 Lab File ID: UX91092.D Init. Cal. Date(s): 25-JAN-2001 21-FEB-2001
 Analysis Type: SOIL Init. Cal. Times: 12:55 12:18
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\A3UX9.I\N10313A.B\8260SUX9-3.M

COMPOUND	RRF	RF250	MIN RRF	%D	MAX %D
\$ 4 1,2-Dichloroethane-d4	0.25529	0.27702	0.010	8.5	50.0
\$ 5 Toluene-d8	1.19597	1.31787	0.010	10.2	50.0
\$ 6 Bromofluorobenzene	0.44186	0.47441	0.010	7.4	50.0
\$ 7 Dibromofluoromethane	0.20484	0.21695	0.010	5.9	50.0
8 Dichlorodifluoromethane	0.17356	0.16645	0.010	-4.1	50.0
9 Chloromethane	0.26760	0.28932	0.100	8.1	50.0
10 Vinyl Chloride	0.27234	0.28054	0.010	3.0	20.0
11 Bromomethane	0.18108	0.18281	0.010	1.0	50.0
12 Chloroethane	0.18987	0.19576	0.010	3.1	50.0
13 Trichlorofluoromethane	0.31271	0.34050	0.010	8.5	50.0
14 Acrolein	0.04462	0.03460	0.010	-22.5	50.0
16 1,1-Dichloroethene	0.21066	0.21608	0.050	2.6	20.0
15 Acetone	0.11635	0.14546	0.010	25.0	50.0
54 Freon-113	0.18013	0.17776	0.010	-1.3	50.0
56 Iodomethane	0.35531	0.34625	0.010	-2.6	50.0
18 Carbon Disulfide	0.68798	0.68605	0.010	-0.3	50.0
55 Acetonitrile	0.01758	0.02268	0.010	29.0	50.0
17 Methylene Chloride	250	238	0.010	4.8	50.0
19 Acrylonitrile	0.09089	0.10680	0.010	17.5	50.0
78 Methyl tert-butyl ether	0.39593	0.43394	0.010	9.6	50.0
84 Hexane	0.35331	0.37328	0.010	5.7	50.0
21 Vinyl acetate	0.37995	0.27208	0.010	-28.4	50.0
22 1,1-Dichloroethane	0.42217	0.43018	0.100	1.9	50.0
23 2-Butanone	0.15711	0.18358	0.010	16.8	50.0
20 trans-1,2-Dichloroethene	0.24285	0.24247	0.010	-0.2	50.0
24 cis-1,2-dichloroethene	0.26107	0.25216	0.010	-3.4	50.0
M 25 1,2-Dichloroethene (total)	0.25196	0.24732	0.010	-1.8	50.0
86 2,2-Dichloropropane	0.20810	0.20839	0.010	0.1	50.0
111 Bromochloromethane	0.13173	0.12965	0.010	-1.6	50.0
79 Tetrahydrofuran	0.06194	0.07421	0.010	19.8	50.0
26 Chloroform	0.37034	0.37073	0.010	0.1	20.0
27 1,1,1-Trichloroethane	0.31949	0.32665	0.010	2.2	50.0
87 1,1-Dichloropropene	0.27853	0.28321	0.010	1.7	50.0
28 Carbon Tetrachloride	0.27250	0.28228	0.010	3.6	50.0
29 1,2-Dichloroethane	0.32574	0.34398	0.010	5.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 13-MAR-2001 06:11
 Lab File ID: UX91092.D Init. Cal. Date(s): 25-JAN-2001 21-FEB-2001
 Analysis Type: SOIL Init. Cal. Times: 12:55 12:18
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\A3UX9.1\N10313A.b\8260SUX9-3.m

COMPOUND	RRF	RF250	MIN RRF	%D	MAX %D
30 Benzene	0.94060	0.92505	0.010	-1.7	50.0
31 Trichloroethene	0.28174	0.26877	0.010	-4.6	50.0
32 1,2-Dichloropropane	0.25217	0.25236	0.010	0.1	20.0
63 1,4-Dioxane	0.00222	0.00229	0.010	3.2	50.0
64 Dibromomethane	0.13348	0.13522	0.010	1.3	50.0
33 Bromodichloromethane	0.28039	0.27756	0.010	-1.0	50.0
34 2-Chloroethyl vinyl ether	0.13995	0.14672	0.010	4.8	50.0
36 cis-1,3-Dichloropropene	0.33906	0.34532	0.010	1.8	50.0
35 4-Methyl-2-pentanone	0.22282	0.26859	0.010	20.5	50.0
37 Toluene	1.45266	1.44290	0.010	-0.7	20.0
38 trans-1,3-Dichloropropene	0.38194	0.39604	0.010	3.7	50.0
65 Ethyl Methacrylate	0.38911	0.40069	0.010	3.0	50.0
40 1,1,2-Trichloroethane	0.28192	0.29056	0.010	3.1	50.0
88 1,3-Dichloropropane	0.47121	0.48583	0.010	3.1	50.0
41 Tetrachloroethene	0.29511	0.29446	0.010	-0.2	50.0
39 2-Hexanone	0.25258	0.31531	0.010	24.8	50.0
42 Dibromochloromethane	0.31012	0.31932	0.010	3.0	50.0
66 1,2-Dibromoethane	0.27602	0.28600	0.010	3.6	50.0
43 Chlorobenzene	0.96046	0.94456	0.300	-1.7	50.0
44 Ethylbenzene	0.52784	0.52013	0.010	-1.5	20.0
45 m + p-Xylene	0.63257	0.63360	0.010	0.2	50.0
46 Xylene-o	0.62042	0.62204	0.010	0.3	50.0
47 Xylenes (total)	0.62852	0.62975	0.010	0.2	50.0
48 Styrene	1.03849	1.03037	0.010	-0.8	50.0
49 Bromoform	0.19845	0.21055	0.100	6.1	50.0
89 Isopropylbenzene	1.49756	1.53453	0.010	2.5	50.0
50 1,1,2,2-Tetrachloroethane	0.65799	0.72494	0.300	10.2	50.0
90 Bromobenzene	0.80768	0.76595	0.010	-5.2	50.0
68 1,2,3-Trichloropropane	0.77585	0.85467	0.010	10.2	50.0
69 1,4-Dichloro-2-butene	0.20196	0.22844	0.010	13.1	50.0
92 n-Propylbenzene	0.92900	0.92898	0.010	-0.0	50.0
91 2-Chlorotoluene	0.78822	0.79570	0.010	0.9	50.0
94 1,3,5-Trimethylbenzene	2.47009	2.53763	0.010	2.7	50.0
93 4-Chlorotoluene	0.79858	0.81006	0.010	1.4	50.0
95 tert-Butylbenzene	2.40300	2.43527	0.010	1.3	50.0
96 1,2,4-Trimethylbenzene	2.49993	2.60070	0.010	4.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: A3UX9.I Injection Date: 13-MAR-2001 06:11
 Lab File ID: UX91092.D Init. Cal. Date(s): 25-JAN-2001 21-FEB-2001
 Analysis Type: SOIL Init. Cal. Times: 12:55 12:18
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\A3UX9.I\N10313A.B\8260SUX9-3.M

COMPOUND	RRF	RP250	MIN RRF	WD	MAX WD
97 sec-Butylbenzene	3.20573	3.28758	0.010	2.6	50.0
51 1,3-Dichlorobenzene	1.50805	1.46847	0.010	-2.6	50.0
52 1,4-Dichlorobenzene	1.56240	1.47500	0.010	-5.6	50.0
53 1,2-Dichlorobenzene	1.43984	1.41788	0.010	-1.5	50.0
98 4-Isopropyltoluene	2.77567	2.88775	0.010	4.0	50.0
99 n-Butylbenzene	2.44386	2.57886	0.010	5.5	50.0
100 1,2,4-Trichlorobenzene	1.00105	1.06893	0.010	6.8	50.0
102 Hexachlorobutadiene	0.50376	0.60225	0.010	19.6	50.0
101 Naphthalene	2.52371	2.66155	0.010	5.5	50.0
103 1,2,1-Trichlorobenzene	0.96918	0.97796	0.010	0.9	50.0
82 tert-Butyl Alcohol	0.01708	0.01957	0.010	14.6	50.0
138 Methyl Acetate	0.16001	0.21953	0.010	37.2	50.0
139 Methylcyclohexane	0.42524	0.42861	0.010	0.8	50.0
83 Cyclohexane	0.43551	0.46745	0.010	7.3	50.0
137 1,3,5-Trichlorobenzene	1.12572	1.17433	0.010	4.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 13-MAR-2001 06:34
 Lab File ID: UX91093.D Init. Cal. Date(s): 25-JAN-2001 21-FEB-2001
 Analysis Type: SOIL Init. Cal. Times: 12:55 12:18
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: \\qcanoh04\dd\chem\MSV\a3ux9.i\N10313A.b\8260SUX9-3.m

COMPOUND	RRF	RF250	MIN RRF	RD	MAX RD
57 3-Chloropropene	0.12013	0.11427	0.010	-4.9	50.0
58 2-Chloro-1,3-butadiene	0.32743	0.40547	0.010	23.8	50.0
59 Propionitrile	0.02942	0.03688	0.010	25.4	50.0
60 Methacrylonitrile	0.10705	0.12792	0.010	19.5	50.0
61 Isobutanol	0.00678	0.00593	0.010	-12.6	50.0
62 Methyl Methacrylate	0.16094	0.18780	0.010	16.7	50.0
67 1,1,1,2-Tetrachloroethane	0.29258	0.31343	0.010	7.1	50.0
72 1,2-Dibromo-3-chloropropane	0.15009	0.15681	0.010	4.5	50.0
74 n-Butanol	0.00782	0.00531	0.010	-32.2	50.0
75 Ethyl Acetate	0.18931	0.22747	0.010	20.2	50.0
76 Cyclohexanone	0.02374	0.02569	0.010	-0.2	50.0
77 Ethyl Ether	0.19632	0.21846	0.010	11.3	50.0
80 Dichlorofluoromethane	0.33328	0.39400	0.010	18.2	50.0
81 2-Nitropropane	0.04720	0.04913	0.010	4.1	50.0
85 Isopropyl Ether	1.06232	1.00210	0.010	-5.7	50.0

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCM01AC

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	20	102	61- 129	
Bromomethane	20	17	84	47- 160	
Vinyl chloride	20	19	95	69- 121	
Chloroethane	20	19	93	80- 118	
Methylene chloride	20	17	87	81- 134	
Acetone	20	37	183	10- 279	
Carbon disulfide	20	19	95	81- 125	
1,1-Dichloroethene	20	18	92	63- 130	
1,1-Dichloroethane	20	20	102	87- 120	
1,2-Dichloroethene (total)	40	41	102	50- 150	
Chloroform	20	21	104	90- 117	
1,2-Dichloroethane	20	21	105	88- 119	
2-Butanone (MEK)	20	33	164	20- 232	
1,1,1-Trichloroethane	20	21	105	91- 113	
Carbon tetrachloride	20	22	110	84- 119	
Bromodichloromethane	20	21	105	90- 114	
1,2-Dichloropropane	20	20	102	91- 113	
cis-1,3-Dichloropropene	20	22	108	85- 112	
Trichloroethene	20	20	99	75- 122	
Benzene	20	20	99	80- 116	
trans-1,3-Dichloropropene	20	25	124*	84- 112	a
Bromoform	20	21	104	71- 118	
Dibromochloromethane	20	23	113*	81- 112	a
1,1,2-Trichloroethane	20	21	107	81- 117	
4-Methyl-2-pentanone (MIB)	20	23	117	11- 210	
2-Hexanone	20	40	198	10- 225	
Tetrachloroethene	20	22	110	83- 111	
1,1,2,2-Tetrachloroethane	20	25	127	80- 127	
Toluene	20	22	109	74- 119	
Chlorobenzene	20	22	110	76- 117	
Ethylbenzene	20	22	109	90- 116	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCM01AC

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	23	113	81 - 113	
Xylenes (total)	60	65	109	90 - 114	
cis-1,2-Dichloroethene	20	20	99	50 - 150	
trans-1,2-Dichloroethene	20	21	104	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 35 outside limits

COMMENTS:

FORM III

STL North Canton

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCM01AD

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Chloromethane	20	20	102	61- 129	
Bromomethane	20	17	86	47- 160	
Vinyl chloride	20	19	95	69- 121	
Chloroethane	20	18	91	80- 118	
Methylene chloride	20	18	91	81- 134	
Acetone	20	36	180	10- 279	
Carbon disulfide	20	19	95	81- 125	
1,1-Dichloroethene	20	19	94	63- 130	
1,1-Dichloroethane	20	20	101	87- 120	
1,2-Dichloroethene (total)	40	40	101	50- 150	
Chloroform	20	20	102	90- 117	
1,2-Dichloroethane	20	21	103	88- 119	
2-Butanone (MEK)	20	32	160	20- 232	
1,1,1-Trichloroethane	20	21	104	91- 113	
Carbon tetrachloride	20	22	109	84- 119	
Bromodichloromethane	20	21	103	90- 114	
1,2-Dichloropropane	20	20	100	91- 113	
1,1,2-Trichloroethane	20	21	105	81- 117	
Benzene	20	19	97	80- 116	
trans-1,3-Dichloropropene	20	24	122*	84- 112	a
cis-1,3-Dichloropropene	20	21	107	85- 112	
Trichloroethene	20	20	98	75- 122	
Dibromochloromethane	20	22	111	81- 112	
Bromoform	20	21	103	71- 118	
4-Methyl-2-pentanone (MIB)	20	23	116	11- 210	
2-Hexanone	20	38	190	10- 225	
Tetrachloroethene	20	22	109	83- 111	
1,1,2,2-Tetrachloroethane	20	25	126	80- 127	
Toluene	20	21	107	74- 119	
Chlorobenzene	20	22	108	76- 117	
Ethylbenzene	20	21	106	90- 116	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C140000

WO #: DXCM01AD

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Styrene	20	22	108	81 - 113	
Xylenes (total)	60	64	107	90 - 114	
cis-1,2-Dichloroethene	20	20	99	50 - 150	
trans-1,2-Dichloroethene	20	21	103	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 35 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP038

Matrix Spike ID: MPT-G4-GW66-05

Lot #: A1C090105

WO #: DW5X31DW

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	20	ND	19	95	62 - 130	
Chloromethane	20	ND	19	95	61 - 129	
Bromomethane	20	ND	16	81	47 - 160	
Vinyl chloride	20	ND	17	83	69 - 121	
Chloroethane	20	ND	17	87	80 - 118	
Methylene chloride	20	ND	19	93	81 - 134	
Acetone	20	ND	12	56	10 - 279	
Carbon disulfide	20	ND	20	101	81 - 125	
1,1-Dichloroethane	20	1.8	22	103	87 - 120	
1,2-Dichloroethene (total)	40	ND	41	102	50 - 150	
Chloroform	20	ND	21	103	90 - 117	
1,2-Dichloroethane	20	ND	20	102	88 - 119	
2-Butanone (MEK)	20	ND	17	87	20 - 232	
1,1,1-Trichloroethane	20	ND	21	104	91 - 113	
Carbon tetrachloride	20	ND	21	106	84 - 119	
Bromodichloromethane	20	ND	21	103	90 - 114	
1,2-Dichloropropane	20	ND	20	100	91 - 113	
cis-1,3-Dichloropropene	20	ND	20	102	85 - 112	
Trichloroethene	20	ND	20	99	62 - 130	
Dibromochloromethane	20	ND	21	106	81 - 112	
1,1,2-Trichloroethane	20	ND	21	104	81 - 117	
Benzene	20	ND	20	98	76 - 118	
trans-1,3-Dichloropropene	20	ND	23	114*	84 - 112	a
Bromoform	20	ND	18	92	71 - 118	
4-Methyl-2-pentanone (MIB)	20	ND	19	96	11 - 210	
2-Hexanone	20	ND	19	96	10 - 225	
Tetrachloroethene	20	ND	21	106	83 - 111	
1,1,2,2-Tetrachloroethane	20	ND	23	116	80 - 127	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: MPT-G4-GW66-05

Lot #: A1C090105

WO #: DWSX31DW

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Toluene	20	ND	21	106	70 - 119	
Chlorobenzene	20	ND	21	106	76 - 117	
Ethylbenzene	20	ND	21	105	90 - 116	
Styrene	20	ND	21	107	81 - 113	
Xylenes (total)	60	ND	63	105	90 - 114	
cis-1,2-Dichloroethene	20	ND	20	99	50 - 150	
trans-1,2-Dichloroethene	20	ND	21	105	70 - 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 35 outside limits

COMMENTS:

FORM III

STL North Canton

31

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: MPT-G4-GW66-05

Lot #: A1C090105

WO #: DWSX31DX

BATCH: 1073134

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,1-Dichloroethene	20	18	92	3.7	17	62 - 130	
Chloromethane	20	18	88	7.1	20	61 - 129	
Bromomethane	20	14	72	13	22	47 - 160	
Vinyl chloride	20	16	79	4.1	27	69 - 121	
Chloroethane	20	16	82	6.2	17	80 - 118	
Methylene chloride	20	18	91	2.1	27	81 - 134	
Acetone	20	13	57	1.3	32	10 - 279	
Carbon disulfide	20	20	101	0.21	19	81 - 125	
1,1-Dichloroethane	20	22	100	3.2	22	87 - 120	
1,2-Dichloroethene (total	40	40	99	3.0	50	50 - 150	
Chloroform	20	20	99	3.9	18	90 - 117	
1,2-Dichloroethane	20	20	98	3.9	12	88 - 119	
2-Butanone (MEK)	20	17	85	2.8	35	20 - 232	
1,1,1-Trichloroethane	20	20	102	2.5	17	91 - 113	
Carbon tetrachloride	20	21	103	2.3	17	84 - 119	
Bromodichloromethane	20	20	99	3.7	18	90 - 114	
Trichloroethene	20	19	95	4.5	14	62 - 130	
Dibromochloromethane	20	21	106	0.63	18	81 - 112	
1,1,2-Trichloroethane	20	21	105	1.3	20	81 - 117	
1,2-Dichloropropane	20	19	97	2.8	18	91 - 113	
cis-1,3-Dichloropropene	20	19	96	5.6	19	85 - 112	
Benzene	20	19	95	3.6	14	76 - 118	
trans-1,3-Dichloropropene	20	22	112	1.3	32	84 - 112	
Bromoform	20	19	93	0.63	34	71 - 118	
4-Methyl-2-pentanone (MIB	20	18	92	3.6	34	11 - 210	
2-Hexanone	20	19	97	0.99	24	10 - 225	
Tetrachloroethene	20	21	106	0.41	26	83 - 111	
1,1,2,2-Tetrachloroethane	20	23	116	0.74	24	80 - 127	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: MPT-G4-GW66-05

Lot #: A1C090105

WO #: DW5X31DX

BATCH: 1073134

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
Toluene	20	21	106	0.62	16	70 - 119	
Chlorobenzene	20	21	106	0.53	15	76 - 117	
Ethylbenzene	20	21	104	0.33	18	90 - 116	
Styrene	20	21	106	0.74	18	81 - 113	
Xylenes (total)	60	63	106	0.29	25	90 - 114	
cis-1,2-Dichloroethene	20	19	97	2.6	50	50 - 150	
trans-1,2-Dichloroethene	20	20	102	3.3	50	70 - 130	

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 35 outside limits
 Spike Recovery: 0 out of 35 outside limits

COMMENTS:

FORM III

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP038
 Lab File ID: BFB665C BFB Injection Date: 01/08/01
 Instrument ID: A3UX7 BFB Injection Time: 1102
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	50.0 - 120.0% of mass 95	89.0
175	5.0 - 9.0% of mass 174	5.8 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.9 (98.8)1
177	5.0 - 9.0% of mass 176	6.3 (7.2)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-IC	UX77532	01/08/01	1139
02	VSTD001	5NG-IC	UX77533	01/08/01	1256
03	VSTD040	200NG-IC	UX77534	01/08/01	1319
04	VSTD020	100NG-IC	UX77535	01/08/01	1344
05	VSTD005	25NG-IC	UX77536	01/08/01	1408
06	VSTD002	10NG-IC	UX77537	01/08/01	1431
07	VSTD040	200NG-A9IC	UX77540	01/08/01	1651
08	VSTD020	100NG-A9IC	UX77541	01/08/01	1715
09	VSTD010	50NG-A9IC	UX77542	01/08/01	1738
10	VSTD005	25NG-A9IC	UX77543	01/08/01	1802
11	VSTD002	10NG-A9IC	UX77544	01/08/01	1826
12	VSTD001	5NG-A9IC	UX77545	01/08/01	1850
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Report Date : 09-Jan-2001 08:11

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2001 11:39
 End Cal Date : 08-JAN-2001 18:50
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\N8260UX7-3.m
 Cal Date : 08-Jan-2001 19:07 tapsvc
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\UX77545.D
 Level 2: \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\UX77544.D
 Level 3: \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\UX77543.D
 Level 4: \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\UX77542.D
 Level 5: \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\UX77541.D
 Level 6: \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\UX77540.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
8 Dichlorodifluoromethane	0.26080	0.17981	0.18304	0.21732	0.18715	0.17338	0.20025	16.660
9 Chloromethane	0.38463	0.32476	0.32427	0.33330	0.32107	0.30417	0.33203	8.278
10 Vinyl Chloride	0.32430	0.25327	0.26771	0.26583	0.27183	0.26275	0.27428	9.218
11 Bromomethane	0.13465	0.12776	0.12315	0.11892	0.11921	0.10199	0.12098	9.138
12 Chloroethane	0.13512	0.13083	0.12909	0.13226	0.13005	0.11856	0.13265	9.088
13 Trichlorofluoromethane	0.24473	0.19150	0.23331	0.21547	0.24626	0.24873	0.23000	9.792
14 Dichlorofluoromethane	0.13535	0.14485	0.19422	0.19853	0.21533	0.22453	0.18547	19.922
15 Acrolein	0.03075	0.03041	0.03358	0.03213	0.03333	0.03191	0.03202	4.046
16 Acetone	0.15748	0.11129	0.09871	0.13165	0.09346	0.08986	0.11374	23.086
17 1,1-Dichloroethene	0.26443	0.23739	0.24654	0.26150	0.25321	0.25269	0.25263	3.909
18 Freon-113	0.21888	0.17751	0.18445	0.17667	0.18618	0.18025	0.18732	8.492
19 Iodomethane	0.41171	0.35141	0.37393	0.33705	0.35230	0.34169	0.36135	7.681
20 Carbon Disulfide	0.82363	0.64315	0.68043	0.69416	0.69224	0.70102	0.70577	8.687
21 Methylene Chloride	0.31512	0.26546	0.27846	0.26267	0.27069	0.25755	0.27499	7.606
22 Acetonitrile	0.04229	0.04054	0.04038	0.03787	0.03774	0.03734	0.03936	5.076
23 Acrylonitrile	0.12066	0.12673	0.12781	0.12170	0.12704	0.12256	0.12441	2.507
24 Methyl tert-butyl ether	0.58090	0.62987	0.62396	0.59389	0.65066	0.62107	0.61673	4.103
25 trans-1,2-Dichloroethene	0.30277	0.28150	0.29857	0.29806	0.30213	0.29739	0.29674	2.624
26 Hexane	0.06481	0.05375	0.05910	0.05611	0.05860	0.05708	0.05824	6.428
27 Vinyl acetate	0.24346	0.24027	0.27088	0.30783	0.31852	0.33142	0.28540	13.772
28 1,1-Dichloroethane	0.52940	0.51427	0.51058	0.51047	0.51697	0.51432	0.51600	1.360
29 tert-Butyl Alcohol	0.01397	0.01613	0.01674	0.01365	0.01745	0.01598	0.01565	9.731
30 2-Butanone	0.13220	0.14015	0.13769	0.13078	0.12913	0.12798	0.13299	3.665
M 31 1,2-Dichloroethene (total)	0.31346	0.29088	0.30358	0.30458	0.30811	0.30374	0.30406	2.457
32 cis-1,2-dichloroethene	0.32415	0.30025	0.30859	0.31111	0.31408	0.31009	0.31138	2.502

Report Date : 09-Jan-2001 08:11

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2001 11:39
 End Cal Date : 08-JAN-2001 18:50
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\N8260UX7-3.m
 Cal Date : 08-Jan-2001 19:07 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	RSD
33 2,2-Dichloropropane	0.17601	0.18090	0.19957	0.15003	0.20648	0.20295	0.18599	11.557
34 Bromochloromethane	0.15290	0.14591	0.14609	0.14655	0.14805	0.14697	0.14775	1.785
35 Chloroform	0.48567	0.48465	0.48325	0.48412	0.48492	0.48727	0.48498	0.285
36 Tetrahydrofuran	0.09373	0.09221	0.08569	0.08200	0.08635	0.08388	0.08731	5.342
37 1,1,1-Trichloroethane	0.35357	0.35338	0.36298	0.32074	0.37433	0.36859	0.35560	5.333
38 1,1-Dichloropropene	0.37448	0.34216	0.35495	0.35857	0.36983	0.36981	0.36163	3.346
39 Carbon Tetrachloride	0.33548	0.28329	0.30926	0.30497	0.32985	0.32890	0.31529	6.299
40 1,2-Dichloroethane	0.38049	0.36937	0.37742	0.37694	0.39137	0.38985	0.38091	2.198
41 Benzene	1.24147	1.17554	1.19014	1.18560	1.20656	1.20749	1.20114	1.940
42 Trichloroethene	0.32877	0.29700	0.31675	0.30658	0.31631	0.31713	0.31376	3.447
43 1,2-Dichloropropane	0.29344	0.28451	0.29279	0.29174	0.30278	0.29927	0.29409	2.160
44 1,4-Dioxane	0.00294	0.00288	0.00290	0.00255	0.00255	0.00237	0.00270	8.909 <-
45 Dibromomethane	0.16267	0.14771	0.16008	0.15544	0.16255	0.16434	0.15880	3.941
46 Bromodichloromethane	0.37092	0.34512	0.35632	0.34954	0.36743	0.36731	0.35944	2.971
47 2-Chloroethyl vinyl ether	0.14455	0.15250	0.16756	0.16334	0.18036	0.17685	0.16419	8.422
48 cis-1,3-Dichloropropene	0.37643	0.39644	0.41151	0.41151	0.44370	0.45493	0.41575	7.030
49 4-Methyl-2-pentanone	0.21623	0.24148	0.24800	0.23243	0.25149	0.25800	0.24127	6.244
50 Toluene	1.69237	1.60229	1.63926	1.63532	1.66357	1.68016	1.65216	2.002
51 trans-1,3-Dichloropropene	0.40111	0.41179	0.44850	0.44286	0.48893	0.50800	0.45020	9.310
52 Ethyl Methacrylate	0.30527	0.34793	0.38930	0.37311	0.43633	0.44445	0.38273	13.839
53 1,1,2-Trichloroethane	0.31407	0.32500	0.32479	0.31670	0.32226	0.32133	0.32069	1.381
54 1,3-Dichloropropane	0.56961	0.55399	0.55863	0.56467	0.56194	0.57100	0.56331	1.154
55 Tetrachloroethene	0.31105	0.30964	0.30715	0.30578	0.30677	0.31449	0.30915	1.057
56 2-Hexanone	0.18242	0.20836	0.20958	0.20133	0.21895	0.22529	0.20765	7.206
57 Dibromochloromethane	0.34864	0.33641	0.35011	0.33772	0.35301	0.36500	0.34848	3.030
58 1,2-Dibromoethane	0.29811	0.29749	0.30608	0.30036	0.31567	0.31298	0.30512	2.556
59 Chlorobenzene	1.02727	0.95343	0.98984	0.97956	0.99623	1.02586	0.99537	2.837
60 1,1,1,2-Tetrachloroethane	0.32711	0.32958	0.33384	0.33756	0.34739	0.35930	0.33913	3.590
61 Ethylbenzene	0.54375	0.51072	0.54025	0.54238	0.54656	0.56452	0.54137	3.211
62 m + p-Xylene	0.61541	0.60730	0.65301	0.64649	0.65551	0.67497	0.64211	4.014
M 63 Xylenes (total)	0.60176	0.60485	0.64344	0.63808	0.65120	0.66850	0.63464	4.156
64 Xylene-o	0.57445	0.59995	0.62432	0.62124	0.64260	0.65555	0.61968	4.717
65 Styrene	0.97637	0.98526	1.04890	1.08015	1.12039	1.14928	1.06006	6.634

Report Date : 09-Jan-2001 08:11

STL - North Canton

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\3ux7.i\U10108A.b\N8260UX7-3.m
 Cal Date : 08-Jan-2001 19:07 tapsvc
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	RSD
66 Bromoform	0.22013	0.21905	0.21907	0.22275	0.22716	0.23949	0.22461	3.523
67 Isopropylbenzene	1.34929	1.33242	1.40633	1.42498	1.49020	1.55312	1.42606	5.893
68 1,1,2,2-Tetrachloroethane	0.76292	0.73363	0.71165	0.72620	0.72117	0.69068	0.72437	3.314
69 1,4-Dichloro-2-butene	0.16918	0.22503	0.24067	0.23362	0.24525	0.24128	0.22584	12.691
70 1,2,3-Trichloropropane	0.25058	0.25545	0.25417	0.24229	0.25179	0.24437	0.24978	2.129
71 Bromobenzene	0.88058	0.85987	0.86196	0.83209	0.87242	0.85428	0.86020	1.941
72 n-Propylbenzene	0.83493	0.80825	0.85655	0.84301	0.85637	0.83081	0.83832	2.168
73 2-Chlorotoluene	0.76248	0.75453	0.78925	0.77022	0.78090	0.75904	0.76940	1.747
74 1,3,5-Trimethylbenzene	2.30749	2.26526	2.40654	2.39098	2.42805	2.42607	2.37073	2.871
75 4-Chlorotoluene	0.84296	0.79264	0.83049	0.81170	0.81326	0.79773	0.81479	2.351
76 tert-Butylbenzene	2.20375	1.80124	1.91365	2.01415	2.06366	2.09195	2.01473	7.015
77 1,2,4-Trimethylbenzene	2.48627	2.26898	2.47260	2.52820	2.50784	2.51407	2.46299	3.943
78 sec-Butylbenzene	2.67653	2.38401	2.58480	2.60615	2.60919	2.67336	2.58901	4.143
79 4-Isopropyltoluene	2.22565	2.03693	2.17106	2.23807	2.27754	2.29949	2.20812	4.299
80 1,3-Dichlorobenzene	1.58747	1.43637	1.45677	1.44400	1.45744	1.43904	1.47018	3.954
81 1,4-Dichlorobenzene	1.67347	1.56002	1.50952	1.51873	1.48581	1.48888	1.53940	4.607
82 n-Butylbenzene	1.87871	1.66470	1.75287	1.90180	1.86330	1.92247	1.83064	5.488
83 1,2-Dichlorobenzene	1.42251	1.29149	1.34110	1.32561	1.31707	1.32307	1.33681	3.365
84 1,2-Dibromo-3-chloropropane	0.09923	0.08794	0.09156	0.09156	0.09042	0.08891	0.09160	4.375
85 1,2,4-Trichlorobenzene	0.57387	0.45154	0.50371	0.40856	0.43673	0.40850	0.46382	13.872
86 Hexachlorobutadiene	0.31034	0.23219	0.23779	0.20389	0.19270	0.17675	0.22561	21.084
87 Naphthalene	1.44532	1.15326	1.28094	0.97699	1.16729	1.04109	1.17748	14.309
88 1,2,3-Trichlorobenzene	0.61048	0.49731	0.52593	0.36547	0.42923	0.35688	0.46422	21.280
89 Ethyl Ether	0.27252	0.27190	0.27455	0.25857	0.25886	0.23894	0.26256	5.160
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ |<
91 3-Chloropropene	0.14624	0.16104	0.16930	0.15188	0.16095	0.15805	0.15791	5.077
92 Isopropyl Ether	0.26366	0.25081	0.27940	0.26427	0.26960	0.25614	0.26398	3.805
93 2-Chloro-1,3-butadiene	0.50563	0.48721	0.53943	0.51251	0.52313	0.51053	0.51307	3.406
94 Propionitrile	0.04249	0.03953	0.04011	0.03875	0.04006	0.03505	0.03933	6.214
95 Ethyl Acetate	0.28486	0.25614	0.28338	0.26330	0.27335	0.23809	0.26852	6.699
96 Methacrylonitrile	0.20707	0.17705	0.19455	0.18120	0.18982	0.16526	0.18583	7.853
97 Isobutanol	0.00667	0.00644	0.00662	0.00718	0.00776	0.00705	0.00695	6.932 |<
98 Cyclohexane	0.48890	0.43810	0.46369	0.44457	0.47293	0.46611	0.46238	4.031

Report Date : 09-Jan-2001 08:11

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 08-JAN-2001 11:39
 End Cal Date : 08-JAN-2001 18:50
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh04\dd\chem\MSV\A3UX7.I\U10108A.B\N8260UX7-3.M
 Cal Date : 08-Jan-2001 19:07 tpsvc
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
99 n-Butanol	0.00408	0.00403	0.00447	0.00447	0.00531	0.00483	0.00453	10.587	<-
100 Methyl Methacrylate	0.22681	0.20246	0.23492	0.22621	0.23347	0.21572	0.22326	5.490	
101 2-Nitropropane	0.05140	0.05369	0.05773	0.05541	0.05836	0.05271	0.05488	5.074	
102 Chloropicrin	++++	++++	++++	++++	++++	++++	++++	++++	<-
103 Cyclohexanone	0.01689	0.01639	0.01898	0.01998	0.02106	0.01873	0.01867	9.548	
104 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++	++++	<-
105 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++	++++	<-
134 Thiophene	++++	++++	++++	++++	++++	++++	++++	++++	<-
135 Crotononitrile(1st Isomer)	++++	++++	++++	++++	++++	++++	++++	++++	<-
136 Crotononitrile(2nd Isomer)	++++	++++	++++	++++	++++	++++	++++	++++	<-
M 137 Total Crotononitrile	++++	++++	++++	++++	++++	++++	++++	++++	<-
138 Paraldehyde	++++	++++	++++	++++	++++	++++	++++	++++	<-
139 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	++++	++++	<-
140 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++	++++	<-
141 1,3,5-Trichlorobenzene	0.74002	0.65837	0.65381	0.65407	0.58702	0.57008	0.64389	9.404	
143 Methyl Acetate	0.24032	0.26494	0.25141	0.24548	0.23739	0.23016	0.24495	4.963	
144 Methylcyclohexane	0.40554	0.37328	0.36747	0.36461	0.37712	0.37624	0.37738	3.880	
145 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++	++++	<-
\$ 4 Dibromofluoromethane	0.24140	0.22854	0.25369	0.23687	0.24134	0.23609	0.23966	3.475	
\$ 5 1,2-Dichloroethane-d4	0.29784	0.30425	0.31776	0.30339	0.31260	0.30352	0.30656	2.364	
\$ 6 Toluene-d8	1.15306	1.25066	1.35094	1.26748	1.30127	1.27411	1.26625	5.181	
\$ 7 Bromofluorobenzene	0.40262	0.42570	0.45497	0.43912	0.45309	0.45819	0.43895	4.909	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP038
 Lab File ID: BFB703 BFB Injection Date: 03/13/01
 Instrument ID: A3UX7 BFB Injection Time: 0810
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	44.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 120.0% of mass 95	82.4
175	5.0 - 9.0% of mass 174	5.8 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	80.3 (97.3)1
177	5.0 - 9.0% of mass 176	6.0 (7.4)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UX78606	03/13/01	0826
02	VSTD010	50NG-A9CC	UX78607	03/13/01	0850
03	DXCM0-CHK	DXCM01AC	UX78608	03/13/01	0914
04	DXCM0-CKDUP	DXCM01AD	UX78609	03/13/01	0938
05	DXCM0-BLK	DXCM01AA	UX78610	03/13/01	1002
06	MPT-G4-GW66-	DW5X31A6	UX78622	03/13/01	1448
07	MPT-G4-GW67-	DW50X1AH	UX78623	03/13/01	1512
08	TB03050101	DW5001AA	UX78624	03/13/01	1536
09	MPT-G4-GW66-	DW5X31DW	UX78632	03/13/01	1847
10	MPT-G4-GW66-	DW5X31DX	UX78633	03/13/01	1911
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Data File: \\qcanoh04\dd\chem\MSV\a3ux7.i\U10313A.b\UX78606.D
 Report Date: 13-Mar-2001 09:30

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 13-MAR-2001 08:26
 Lab File ID: UX78606.D Init. Cal. Date(s): 08-JAN-2001 08-JAN-2001
 Analysis Type: WATER Init. Cal. Times: 11:39 18:50
 Lab Sample ID: 50NG-CC Quant Type: ISTD
 Method: \\QCANOH04\DD\chem\MSV\a3ux7.i\U10313A.b\N8260UX7-3.m

COMPOUND	RRP	RF50	MIN RRP	%D	MAX %D
\$ 4 Dibromofluoromethane	0.23966	0.23661	0.010	-1.3	50.0
\$ 5 1,2-Dichloroethane-d4	0.30656	0.30589	0.010	-0.2	50.0
\$ 6 Toluene-d8	1.26625	1.33420	0.010	5.4	50.0
\$ 7 Bromofluorobenzene	0.43895	0.42291	0.010	-3.7	50.0
8 Dichlorodifluoromethane	50.00000	60.53891	0.010	-21.1	50.0
9 Chloromethane	0.33203	0.35056	0.100	5.6	50.0
10 Vinyl Chloride	0.27428	0.30665	0.010	11.8	20.0
11 Bromomethane	0.12098	0.12110	0.010	0.1	50.0
12 Chloroethane	0.13265	0.14667	0.010	10.6	50.0
13 Trichlorofluoromethane	0.23000	0.21429	0.010	-6.8	50.0
15 Acrolein	0.03202	0.03499	0.010	9.3	50.0
16 Acetone	100	122	0.010	-22.0	50.0
17 1,1-Dichloroethene	0.25263	0.29128	0.010	15.3	20.0
18 Freon-113	0.18732	0.20352	0.010	8.6	50.0
19 Iodomethane	0.36135	0.33687	0.010	-6.8	50.0
20 Carbon Disulfide	0.70577	0.83648	0.010	18.5	50.0
21 Methylene Chloride	0.27499	0.28426	0.010	3.4	50.0
22 Acetonitrile	0.03936	0.03320	0.010	-15.6	50.0
23 Acrylonitrile	0.12441	0.11219	0.010	-9.8	50.0
24 Methyl tert-butyl ether	0.61673	0.69716	0.010	13.0	50.0
25 trans-1,2-Dichloroethene	0.29674	0.31822	0.010	7.2	50.0
26 Hexane	0.05824	0.05410	0.010	-7.1	50.0
27 Vinyl acetate	0.28540	0.37401	0.010	31.0	50.0
28 1,1-Dichloroethane	0.51600	0.54283	0.100	5.2	50.0
29 tert-Butyl Alcohol	0.01565	0.01611	0.010	2.9	50.0
30 2-Butanone	0.13299	0.15456	0.010	16.2	50.0
M 31 1,2-Dichloroethene (total)	0.30406	0.32101	0.010	5.6	50.0
32 cis-1,2-dichloroethene	0.31138	0.32380	0.010	4.0	50.0
33 2,2-Dichloropropane	0.18599	0.22412	0.010	20.5	50.0
34 Bromochloromethane	0.14775	0.15382	0.010	4.1	50.0
35 Chloroform	0.48498	0.51342	0.010	5.9	20.0
36 Tetrahydrofuran	0.08731	0.07737	0.010	-11.4	50.0
37 1,1,1-Trichloroethane	0.35560	0.37401	0.010	5.2	50.0
38 1,1-Dichloropropene	0.36163	0.38607	0.010	6.8	50.0
39 Carbon Tetrachloride	0.31529	0.36589	0.010	16.0	50.0
40 1,2-Dichloroethane	0.38091	0.40951	0.010	7.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 13-MAR-2001 08:26
 Lab File ID: UX78606.D Init. Cal. Date(s): 08-JAN-2001 08-JAN-2001
 Analysis Type: WATER Init. Cal. Times: 11:39 18:50
 Lab Sample ID: SONG-CC Quant Type: ISTD
 Method: \\QCANOH04\DD\chem\MSV\3ux7.i\U10313A.b\N8260UX7-3.m

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
41 Benzene	1.20114	1.28595	0.010	7.1	50.0
42 Trichloroethene	0.31376	0.31435	0.010	0.2	50.0
43 1,2-Dichloropropane	0.29409	0.30603	0.010	4.1	20.0
44 1,4-Dioxane	0.00270	0.00196	0.010	-27.2	50.0
45 Dibromomethane	0.15880	0.16738	0.010	5.4	50.0
46 Bromodichloromethane	0.35944	0.38201	0.010	6.3	50.0
47 2-Chloroethyl vinyl ether	0.16419	0.14357	0.010	-12.6	50.0
48 cis-1,3-Dichloropropene	0.41575	0.44777	0.010	7.7	50.0
49 4-Methyl-2-pentanone	0.24127	0.26125	0.010	8.3	50.0
50 Toluene	1.65216	1.85962	0.010	12.6	20.0
51 trans-1,3-Dichloropropene	0.45020	0.56076	0.010	24.6	50.0
52 Ethyl Methacrylate	0.38273	0.46403	0.010	21.2	50.0
53 1,1,2-Trichloroethane	0.32069	0.35437	0.010	10.5	50.0
54 1,3-Dichloropropane	0.56331	0.62286	0.010	10.6	50.0
55 Tetrachloroethene	0.30915	0.35506	0.010	14.9	50.0
56 2-Hexanone	0.20765	0.26803	0.010	29.1	50.0
57 Dibromochloromethane	0.34848	0.40268	0.010	15.6	50.0
58 1,2-Dibromoethane	0.30512	0.33778	0.010	10.7	50.0
59 Chlorobenzene	0.99537	1.10111	0.300	10.6	50.0
60 1,1,1,2-Tetrachloroethane	0.33913	0.40880	0.010	20.5	50.0
61 Ethylbenzene	0.54137	0.60000	0.010	10.8	20.0
62 m + p-Xylene	0.64211	0.70786	0.010	10.2	50.0
M 63 Xylenes (total)	0.63464	0.69633	0.010	9.7	50.0
64 Xylene-o	0.61968	0.67327	0.010	8.6	50.0
65 Styrene	1.06006	1.16716	0.010	10.1	50.0
66 Bromoform	0.22461	0.24104	0.100	7.3	50.0
67 Isopropylbenzene	1.42606	1.48919	0.010	4.4	50.0
68 1,1,2,2-Tetrachloroethane	0.72437	0.95410	0.300	31.7	50.0
69 1,4-Dichloro-2-butene	0.22584	0.29129	0.010	29.0	50.0
70 1,2,3-Trichloropropane	0.24978	0.33835	0.010	35.5	50.0
71 Bromobenzene	0.86020	1.23016	0.010	43.0	50.0
72 n-Propylbenzene	0.83832	1.22234	0.010	45.8	50.0
73 2-Chlorotoluene	0.76940	1.09719	0.010	42.6	50.0
74 1,3,5-Trimethylbenzene	2.37073	3.21910	0.010	35.8	50.0
75 4-Chlorotoluene	0.81479	1.12517	0.010	38.1	50.0
76 tert-Butylbenzene	2.01473	2.60237	0.010	29.2	50.0

Data File: \\qcanoh04\dd\chem\MSV\A3UX7.I\U10313A.B\UX78606.D
Report Date: 13-Mar-2001 09:30

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: A3UX7.I Injection Date: 13-MAR-2001 08:26
Lab File ID: UX78606.D Init. Cal. Date(s): 08-JAN-2001 08-JAN-2001
Analysis Type: WATER Init. Cal. Times: 11:39 18:50
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\QCANOH04\DD\chem\MSV\A3UX7.I\U10313A.B\N8260UX7-3.M

COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
77 1,2,4-Trimethylbenzene	2.46299	3.12020	0.010	26.7	50.0
78 sec-Butylbenzene	2.58901	3.19984	0.010	23.6	50.0
79 4-Isopropyltoluene	2.20812	2.41217	0.010	9.2	50.0
80 1,3-Dichlorobenzene	1.47018	1.58915	0.010	8.1	50.0
81 1,4-Dichlorobenzene	1.53940	1.65417	0.010	7.5	50.0
82 n-Butylbenzene	1.83064	1.63363	0.010	-10.8	50.0
83 1,2-Dichlorobenzene	1.33681	1.30474	0.010	-2.4	50.0
84 1,2-Dibromo-3-chloropropane	0.09160	0.12125	0.010	32.4	50.0
85 1,2,4-Trichlorobenzene	0.46382	0.60784	0.010	31.1	50.0
86 Hexachlorobutadiene	50.00000	75.02778	0.010	-50.1	50.0
87 Naphthalene	1.17748	1.36240	0.010	15.7	50.0
88 1,2,3-Trichlorobenzene	50.00000	52.53195	0.010	-5.1	50.0
98 Cyclohexane	0.46238	0.46526	0.010	0.6	50.0
143 Methyl Acetate	0.24495	0.23969	0.010	-2.1	50.0
144 Methylcyclohexane	0.37738	0.34833	0.010	-7.7	50.0
141 1,3,5-Trichlorobenzene	0.64389	0.73994	0.010	14.9	50.0

Data File: \\QCANOH04\DD\chem\MSV\a3ux7.i\U10313A.b\UX78607.D
 Report Date: 13-Mar-2001 09:07

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux7.i Injection Date: 13-MAR-2001 08:50
 Lab File ID: UX78607.D Init. Cal. Date(s): 08-JAN-2001 08-JAN-2001
 Analysis Type: WATER Init. Cal. Times: 11:39 18:50
 Lab Sample ID: 50NG-A9CC Quant Type: ISTD
 Method: \\QCANOH04\DD\chem\MSV\a3ux7.i\U10313A.b\N8260UX7-3.m

COMPOUND	RRF	RF50	MIN RRF	RD	MAX RD
14 Dichlorofluoromethane	50.00000	40.84002	0.010	18.3	50.0
89 Ethyl Ether	0.26256	0.26024	0.010	-0.9	50.0
91 3-Chloropropene	0.15791	0.15268	0.010	-3.3	50.0
92 Isopropyl Ether	0.26398	0.25548	0.010	-3.2	50.0
93 2-Chloro-1,3-butadiene	0.51307	0.52284	0.010	1.9	50.0
94 Propionitrile	0.03933	0.03667	0.010	-6.8	50.0
95 Ethyl Acetate	0.26652	0.26576	0.010	-0.3	50.0
96 Methacrylonitrile	0.18583	0.17344	0.010	-6.7	50.0
97 Isobutanol	0.00695	0.00872	0.010	25.4	50.0 <-
99 n-Butanol	0.00453	0.00534	0.010	17.9	50.0 <-
100 Methyl Methacrylate	0.22326	0.22432	0.010	0.5	50.0
101 2-Nitropropane	0.05488	0.05812	0.010	5.9	50.0
103 Cyclohexanone	0.01867	0.04148	0.010	122.2	50.0 <-

CLIENT	NS MAYPORT	JOB NUMBER	MP038
SUBJECT	VOA		
BASED ON	0260B	DRAWING NUMBER	
BY	SCS	CHECKED BY	
		APPROVED BY	JAJ
		DATE	5-22-01

page 56 MPT-64-GW66-05
1,1-Dichloroethane

$$\frac{96455 \text{ area}}{1046765 \text{ area}} \times \frac{250 \text{ ng}}{50 \text{ ng}} \times (.516)(5 \text{ mL}) = \boxed{\begin{matrix} 8.92885 \text{ ng} \\ 8.93 \text{ ng} \end{matrix}}$$

$$8.93 \text{ ng} / 5 \text{ mL} = \boxed{1.786 \text{ ug/L}}$$

Data File: \\qcanoh04\dd\chem\MSV\a3ux7.i\U10313A.b\UX78622.D
 Report Date: 14-Mar-2001 08:50

STL - North Canton

VOLATILE REPORT SW-846 Method

Data file : \\qcanoh04\dd\chem\MSV\a3ux7.i\U10313A.b\UX78622.D
 Lab Smp Id:
 Inj Date : 13-MAR-2001 14:48
 Operator : 43582 Inst ID: a3ux7.i
 Smp Info :
 Misc Info : U10313A,N8260UX7-3,,43582
 Comment :
 Method : \\QCANOH04\DD\chem\MSV\a3ux7.i\U10313A.b\N8260UX7-3.m
 Meth Date : 14-Mar-2001 08:38 evans1 Quant Type: ISTD
 Cal Date : 08-JAN-2001 18:50 Cal File: UX77545.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
 Target Version: 4.04
 Processing Host: CANPMSV07

Concentration Formula: Amt * DF * 1/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.047	5.049	(1.000)	1046765	50.0000	
* 2 Chlorobenzene-d5	117	7.721	7.711	(1.000)	720539	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	9.957	9.959	(1.000)	256335	50.0000	
\$ 4 Dibromofluoromethane	113	4.479	4.481	(0.887)	246535	49.1372	9.827
\$ 5 1,2-Dichloroethane-d4	65	4.763	4.765	(0.944)	298602	46.5260	9.305
\$ 6 Toluene-d8	98	6.408	6.409	(0.830)	935557	51.2699	10.254
\$ 7 Bromofluorobenzene	95	8.822	8.823	(1.143)	289969	45.8407	9.168
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.716	2.706	(0.538)	17835	6.39298	1.278
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142				Compound Not Detected.		
20 Carbon Disulfide	76				Compound Not Detected.		
21 Methylene Chloride	84				Compound Not Detected.		
22 Acetonitrile	41				Compound Not Detected.		
23 Acrylonitrile	53				Compound Not Detected.		
24 Methyl tert-butyl ether	73				Compound Not Detected.		
25 trans-1,2-Dichloroethene	96				Compound Not Detected.		
26 Hexane	86				Compound Not Detected.		
27 Vinyl acetate	43				Compound Not Detected.		
28 1,1-Dichloroethane	63	3.627	3.629	(0.719)	96455	8.92884	1.786
29 tert-Butyl Alcohol	59				Compound Not Detected.		
30 2-Butanone	43				Compound Not Detected.		
M 31 1,2-Dichloroethene (total)	96				Compound Not Detected.		
32 cis-1,2-dichloroethane	96				Compound Not Detected.		
33 2,2-Dichloropropane	77				Compound Not Detected.		
34 Bromochloromethane	128				Compound Not Detected.		
35 Chloroform	83				Compound Not Detected.		
36 Tetrahydrofuran	42				Compound Not Detected.		
37 1,1,1-Trichloroethane	97				Compound Not Detected.		
38 1,1-Dichloropropene	75				Compound Not Detected.		
39 Carbon Tetrachloride	117				Compound Not Detected.		
40 1,2-Dichloroethane	62				Compound Not Detected.		
41 Benzene	78				Compound Not Detected.		
42 Trichloroethene	130				Compound Not Detected.		
43 1,2-Dichloropropane	63				Compound Not Detected.		
44 1,4-Dioxane	88				Compound Not Detected.		
45 Dibromomethane	93				Compound Not Detected.		
46 Bromodichloromethane	83				Compound Not Detected.		
47 2-Chloroethyl vinyl ether	63				Compound Not Detected.		
48 cis-1,3-Dichloropropene	75				Compound Not Detected.		
49 4-Methyl-2-pentanone	43				Compound Not Detected.		
50 Toluene	91				Compound Not Detected.		
51 trans-1,3-Dichloropropene	75				Compound Not Detected.		
52 Ethyl Methacrylate	69				Compound Not Detected.		
53 1,1,2-Trichloroethane	97				Compound Not Detected.		
54 1,3-Dichloropropane	76				Compound Not Detected.		
55 Tetrachloroethene	164				Compound Not Detected.		
56 2-Hexanone	43				Compound Not Detected.		
57 Dibromochloromethane	129				Compound Not Detected.		
58 1,2-Dibromoethane	107				Compound Not Detected.		
59 Chlorobenzene	112				Compound Not Detected.		
60 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
61 Ethylbenzene	106				Compound Not Detected.		
62 m + p-Xylene	106				Compound Not Detected.		
M 63 Xylenes (total)	106				Compound Not Detected.		
64 Xylene-o	106				Compound Not Detected.		
65 Styrene	104				Compound Not Detected.		

Data File: \\qcanoh04\dd\chem\MSV\A3UX7.I\U10313A.B\UX78622.D
 Report Date: 14-Mar-2001 08:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
66 Bromoform	173				Compound Not Detected.		
67 Isopropylbenzene	105				Compound Not Detected.		
68 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
69 1,4-Dichloro-2-butene	53				Compound Not Detected.		
70 1,2,3-Trichloropropane	110				Compound Not Detected.		
71 Bromobenzene	156				Compound Not Detected.		
72 n-Propylbenzene	120				Compound Not Detected.		
73 2-Chlorotoluene	126				Compound Not Detected.		
74 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
75 4-Chlorotoluene	126				Compound Not Detected.		
76 tert-Butylbenzene	119				Compound Not Detected.		
77 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
78 sec-Butylbenzene	105				Compound Not Detected.		
79 4-Isopropyltoluene	119				Compound Not Detected.		
80 1,3-Dichlorobenzene	146				Compound Not Detected.		
81 1,4-Dichlorobenzene	146				Compound Not Detected.		
82 n-Butylbenzene	91				Compound Not Detected.		
83 1,2-Dichlorobenzene	146				Compound Not Detected.		
84 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.		
85 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
86 Hexachlorobutadiene	225				Compound Not Detected.		
87 Naphthalene	128				Compound Not Detected.		
88 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
14 Dichlorofluoromethane	67				Compound Not Detected.		
89 Ethyl Ether	59				Compound Not Detected.		
91 3-Chloropropene	76				Compound Not Detected.		
92 Isopropyl Ether	87				Compound Not Detected.		
93 2-Chloro-1,3-butadiene	53				Compound Not Detected.		
94 Propionitrile	54				Compound Not Detected.		
95 Ethyl Acetate	43				Compound Not Detected.		
96 Methacrylonitrile	41				Compound Not Detected.		
97 Isobutanol	41				Compound Not Detected.		
99 n-Butanol	56				Compound Not Detected.		
100 Methyl Methacrylate	41				Compound Not Detected.		
101 2-Nitropropane	41				Compound Not Detected.		
103 Cyclohexanone	55				Compound Not Detected.		
98 Cyclohexane	56				Compound Not Detected.		
143 Methyl Acetate	43				Compound Not Detected.		
144 Methylcyclohexane	83				Compound Not Detected.		

**SDG NARRATIVE
MP038**

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SWS46 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP038

Lot #: A1C120000

WO #: DWSR41AC

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	50	42	83	31- 110	
Acenaphthene	50	47	95	39- 118	
1,4-Dichlorobenzene	50	38	77	28- 110	
4-Chloro-3-methylphenol	50	44	88	29- 124	
2,4-Dinitrotoluene	50	50	100	47- 131	
Pyrene	50	48	96	46- 130	
2-Chlorophenol	50	45	90	19- 124	
N-Nitrosodi-n-propylamine	50	45	90	30- 115	
Pentachlorophenol	50	49	99	10- 140	
Phenol	50	46	91	10- 131	
4-Nitrophenol	50	54	109	19- 144	
1,2-Dichlorobenzene	50	40	79	39- 90	
1,3-Dichlorobenzene	50	38	75	34- 85	
2,4,5-Trichlorophenol	50	50	100	41- 125	
4-Methylphenol	100	86	86	29- 144	
4-Nitroaniline	50	49	98	32- 106	
Acenaphthylene	50	46	92	48- 101	
Anthracene	50	48	97	56- 105	
Benzo (a) anthracene	50	47	95	56- 109	
Benzo (k) fluoranthene	50	53	107	53- 112	
Benzo (a) pyrene	50	51	103*	50- 100	a
Benzo (b) fluoeranthene	50	50	101	52- 108	
Benzo (ghi) perylene	50	54	108	45- 115	
2,2'-Oxybis (1-Chloropropa	50	44	88	49- 136	
bis (2-Chloroethoxy) methan	50	46	92	39- 109	
bis (2-Chloroethyl) ether	50	48	95	45- 103	
bis (2-Ethylhexyl) phthala	50	49	97	56- 127	
2,4,6-Trichlorophenol	50	49	97	46- 135	
2,4-Dichlorophenol	50	46	92	48- 101	
2,4-Dimethylphenol	50	14	28	10- 88	
2,4-Dinitrophenol	50	54	108	21- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C120000

WO #: DW8R41AC

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	50	52	104	62- 114	
2-Chloronaphthalene	50	47	94	51- 106	
2-Methylnaphthalene	50	43	87	49- 98	
2-Methylphenol	50	41	81	33- 115	
2-Nitroaniline	50	53	106	55- 119	
2-Nitrophenol	50	44	88	43- 104	
3,3'-Dichlorobenzidine	50	36	73	20- 76	
3-Nitroaniline	50	52	104	33- 107	
4,6-Dinitro-2-methylpheno	50	47	95	37- 137	
4-Bromophenyl phenyl ethe	50	47	95	57- 114	
4-Chloroaniline	50	42	84*	19- 82	a
4-Chlorophenyl phenyl eth	50	49	98	57- 114	
Butyl benzyl phthalate	50	46	92	53- 113	
Carbazole	50	50	101	37- 114	
Chrysene	50	52	104	59- 112	
Dibenz(a,h)anthracene	50	56	112	50- 112	
Dibenzofuran	50	49	98	55- 107	
Diethyl phthalate	50	22	45*	48- 112	a
Dimethyl phthalate	50	12	25*	46- 117	a
Di-n-octyl phthalate	50	49	97	49- 127	
Fluoranthene	50	51	101	53- 116	
Fluorene	50	50	99	57- 107	
Hexachlorobenzene	50	49	98	57- 128	
Hexachlorobutadiene	50	40	79	36- 116	
Hexachloroethane	50	35	71	30- 110	
Isophorone	50	44	88	48- 103	
Naphthalene	50	44	87	46- 95	
Nitrobenzene	50	47	95	45- 130	
N-Nitrosodiphenylamine	50	46	92	47- 112	
Phenanthrene	50	47	94	58- 110	
Indeno(1,2,3-cd)pyrene	50	54	109	49- 114	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Lot #: A1C120000

WO #: DW8R41AC

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	50	43	87	59 - 108	
Hexachlorocyclopentadiene	50	0.0	0*	10 - 81	a
Benzoic acid	50	48	97	50 - 130	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 5 out of 65 outside limits

COMMENTS:

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP038

Lab File ID: 9DF0315G

DFTPP Injection Date: 03/15/01

Instrument ID: A4HP9

DFTPP Injection Time: 0859

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.7
68	Less than 2.0% of mass 69	1.0 (1.8)1
69	Mass 69 relative abundance	54.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.1
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	15.5
365	Greater than 1.0% of mass 198	1.3
441	Present, but less than mass 443	9.2
442	Greater than 40.0% of mass 198	53.5
443	17.0 - 23.0% of mass 442	10.6 (19.8)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0315	03/15/01	0859
02	ASTD008	ASTD008	9AM0315	03/15/01	0927
03	DW9X0BLK	DW9X01AA	DW9X01AA	03/15/01	1025
04	DW9X0CHK	DW9X01AC	DW9X01AC	03/15/01	1053
05	MPT-G4-SU67-	DW50T1AJ	DW50T1AJ	03/15/01	1220
06	MPT-G4-SU66-	DW5XE1A7	DW5XE1A7	03/15/01	1248
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 15-MAR-2001 08:59
 Lab File ID: 9SM0315.D Init. Cal. Date(s): 06-MAR-2001 14-MAR-2001
 Analysis Type: Init. Cal. Times: 17:32 13:32
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10315a.b\8270d.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
9 Pyridine	1.53182	1.46820	0.010	-4.2	50.0
10 N-Nitrosodimethylamine	1.19799	1.20780	0.010	0.8	50.0
11 Ethyl methacrylate	1.41685	1.52062	0.010	7.3	50.0
12 3-Chloropropionitrile	0.89701	0.90383	0.010	0.8	50.0
13 Malononitrile	2.09379	2.05921	0.010	-1.7	50.0
209 Benzaldehyde	1.30923	1.35948	0.010	3.8	50.0
21 Aniline	2.61292	2.53782	0.010	-2.9	50.0
22 Phenol	2.20900	2.29817	0.010	4.0	20.0
23 bis(2-Chloroethyl)ether	1.82452	1.80771	0.010	-0.9	50.0
24 2-Chlorophenol	1.40571	1.38926	0.010	-1.2	50.0
26 1,3-Dichlorobenzene	1.42397	1.39680	0.010	-1.9	50.0
27 1,4-Dichlorobenzene	1.45125	1.45860	0.010	0.5	20.0
28 1,2-Dichlorobenzene	1.30293	1.35294	0.010	3.8	50.0
29 Benzyl Alcohol	1.04405	1.07947	0.010	3.4	50.0
30 2-Methylphenol	1.55032	1.57272	0.010	1.4	50.0
31 bis(2-Chloroisopropyl)ether	2.54273	2.50118	0.010	-1.6	50.0
37 Acetophenone	1.86159	2.03972	0.010	9.6	50.0
32 N-Nitroso-di-n-propylamine	1.15832	1.19089	0.050	2.8	50.0
192 4-Methylphenol	1.52057	1.61326	0.010	6.1	50.0
34 Hexachloroethane	0.58158	0.57735	0.010	-0.7	50.0
35 Nitrobenzene	0.40391	0.40323	0.010	-0.2	50.0
41 Isophorone	0.82774	0.82636	0.010	-0.2	50.0
42 2-Nitrophenol	16.00000	15.67947	0.010	2.0	20.0
43 2,4-Dimethylphenol	0.32994	0.33366	0.010	1.1	50.0
44 bis(2-Chloroethoxy)methane	0.50938	0.52585	0.010	3.2	50.0
46 2,4-Toluenediamine	0.02428	0.02353	0.010	-3.1	50.0
47 1,3,5-Trichlorobenzene	0.24873	0.27853	0.010	12.0	50.0
48 2,4-Dichlorophenol	0.49324	0.53065	0.010	7.6	20.0
49 Benzoic Acid	0.12391	0.11432	0.010	-7.7	50.0
50 1,2,4-Trichlorobenzene	0.25106	0.25707	0.010	2.4	50.0
51 Naphthalene	0.96057	1.01439	0.010	5.6	50.0
52 4-Chloroaniline	0.36115	0.35308	0.010	-2.2	50.0
56 Hexachlorobutadiene	0.10892	0.10947	0.010	0.5	20.0
210 Caprolactam	16.00000	15.40641	0.010	3.7	50.0
57 1,2,3-Trichlorobenzene	0.24221	0.25030	0.010	3.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 15-MAR-2001 08:59
 Lab File ID: 9SM0315.D Init. Cal. Date(s): 06-MAR-2001 14-MAR-2001
 Analysis Type: Init. Cal. Times: 17:32 13:32
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10315a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.28005	0.28758	0.010	2.7	20.0
62 2-Methylnaphthalene	0.57205	0.61299	0.010	7.2	50.0
63 1-Methylnaphthalene	0.56871	0.60762	0.010	6.8	50.0
64 Hexachlorocyclopentadiene	16.00000	14.94576	0.050	6.6	50.0
66 2,4,6-Trichlorophenol	0.29559	0.29224	0.010	-1.1	20.0
67 2,4,5-Trichlorophenol	0.30730	0.29337	0.010	-4.5	50.0
211 1,1'-Biphenyl	16.00000	18.32321	0.010	-14.5	50.0
68 1,2,3,5-Tetrachlorobenzene	0.41487	0.44285	0.010	6.7	50.0
70 2-Chloronaphthalene	0.96726	1.04979	0.010	8.5	50.0
73 2-Nitroaniline	0.31997	0.32967	0.010	3.0	50.0
74 1,2,3,4-Tetrachlorobenzene	0.37845	0.39980	0.010	5.6	50.0
76 Dimethylphthalate	1.07481	1.08588	0.010	1.0	50.0
78 2,6-Dinitrotoluene	0.23563	0.23064	0.010	-2.1	50.0
79 Acenaphthylene	1.68999	1.83105	0.010	8.3	50.0
80 1,2-Dinitrobenzene	0.11679	0.11409	0.010	-2.3	50.0
81 3-Nitroaniline	0.24042	0.21650	0.010	-9.9	50.0
82 Acenaphthene	0.98988	1.08174	0.010	9.3	20.0
83 2,4-Dinitrophenol	16.00000	11.70483	0.050	26.8	50.0
85 4-Nitrophenol	0.06526	0.05848	0.050	-10.4	50.0
86 Dibenzofuran	1.27605	1.37145	0.010	7.5	50.0
87 2,4-Dinitrotoluene	16.00000	15.08594	0.010	5.7	50.0
91 2,3,5,6-Tetrachlorophenol	0.20715	0.19177	0.010	-7.4	50.0
93 Diethylphthalate	1.09554	1.14913	0.010	4.9	50.0
94 Fluorene	16.00000	17.70780	0.010	-10.7	50.0
95 4-Chlorophenyl-phenylether	0.41220	0.45514	0.010	10.4	50.0
96 4-Nitroaniline	16.00000	13.77824	0.010	13.9	50.0
98 4,6-Dinitro-2-methylphenol	16.00000	13.53650	0.010	15.4	50.0
99 N-Nitrosodiphenylamine	0.55997	0.56264	0.010	0.5	20.0
100 1,2-Diphenylhydrazine	1.10835	1.13513	0.010	2.4	50.0
106 4-Bromophenyl-phenylether	0.17468	0.17118	0.010	-2.0	50.0
107 Hexachlorobenzene	0.19378	0.19706	0.010	1.7	50.0
212 Atrazine	0.17411	0.17595	0.010	1.1	50.0
111 Pentachlorophenol	16.00000	13.55012	0.010	15.3	20.0
115 Phenanthrene	1.04443	1.09844	0.010	5.2	50.0
116 Anthracene	0.98311	1.04766	0.010	6.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 15-MAR-2001 08:59
 Lab File ID: 9SM0315.D Init. Cal. Date(s): 06-MAR-2001 14-MAR-2001
 Analysis Type: Init. Cal. Times: 17:32 13:32
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10315a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.80272	0.75089	0.010	-6.5	50.0
120 Di-n-Butylphthalate	1.41564	1.50438	0.010	6.3	50.0
123 Fluoranthene	0.83874	0.88927	0.010	6.0	20.0
124 Benzidine	16.00000	11.39138	0.010	28.8	50.0
125 Pyrene	2.01789	1.96098	0.010	-2.8	50.0
131 Butylbenzylphthalate	1.00475	0.99461	0.010	-1.0	50.0
133 3,3'-Dimethoxybenzidine	16.00000	14.20083	0.010	11.2	50.0
135 3,3'-Dichlorobenzidine	0.34871	0.39098	0.010	12.1	50.0
136 Benzo(a)Anthracene	1.16154	1.29959	0.010	11.9	50.0
137 Chrysene	1.09294	1.07659	0.010	-1.5	50.0
138 4,4'-Methylene bis(o-chloro	0.17584	0.20989	0.010	19.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.54589	1.61426	0.010	4.4	50.0
140 Di-n-octylphthalate	16.00000	15.27065	0.010	4.6	20.0
141 Benzo(b)fluoranthene	16.00000	14.72178	0.010	8.0	50.0
142 Benzo(k)fluoranthene	16.00000	15.38917	0.010	3.8	50.0
146 Benzo(a)pyrene	16.00000	14.51499	0.010	9.3	20.0
149 Indeno(1,2,3-cd)pyrene	16.00000	14.51838	0.010	9.3	50.0
150 Dibenz(a,h)anthracene	16.00000	14.13043	0.010	11.7	50.0
151 Benzo(g,h,i)perylene	0.97268	0.86475	0.010	-11.1	50.0
\$ 154 Nitrobenzene-d5	0.42102	0.42148	0.010	0.1	50.0
\$ 155 2-Fluorobiphenyl	1.10259	1.18606	0.010	7.6	50.0
\$ 156 Terphenyl-d14	1.08936	1.02621	0.010	-5.8	50.0
\$ 157 Phenol-d5	2.04612	2.06596	0.010	1.0	50.0
\$ 158 2-Fluorophenol	1.54798	1.48149	0.010	-4.3	50.0
\$ 159 2,4,6-Tribromophenol	16.00000	14.18993	0.010	11.3	50.0
\$ 186 2-Chlorophenol-d4	1.28746	1.26875	0.010	-1.5	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.83896	0.90146	0.010	7.4	50.0
M 195 Cresols, total	3.07090	3.18598	0.010	3.7	50.0
101 Diphenylamine	0.55997	0.56264	0.010	0.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 15-MAR-2001 09:27
 Lab File ID: 9AM0315.D Init. Cal. Date(s): 06-MAR-2001 14-MAR-2001
 Analysis Type: Init. Cal. Times: 17:32 13:32
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10315a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.90316	0.81941	0.010	-9.3	50.0
8 Ethyl methanesulfonate	1.55817	1.48166	0.010	-4.9	50.0
14 2-Picoline	2.11622	2.02851	0.010	-4.1	50.0
15 N-Nitrosomethylethylamine	0.99470	0.88925	0.010	-10.6	50.0
16 Methyl methanesulfonate	0.80496	0.79502	0.010	-1.2	50.0
18 1,3-Dichloro-2-propanol	2.58661	2.42923	0.010	-6.1	50.0
19 N-Nitrosodiethylamine	1.01906	0.94434	0.010	-7.3	50.0
25 Pentachloroethane	0.48102	0.46420	0.010	-3.5	50.0
36 N-Nitrosopyrrolidine	1.02531	0.92312	0.010	-10.0	50.0
37 Acetophenone	1.86159	2.23517	0.010	20.1	50.0
39 o-Toluidine	2.85477	2.63288	0.010	-7.8	50.0
40 N-Nitrosopiperidine	0.21741	0.20655	0.010	-5.0	50.0
45 O,O,O-Trisethyl phosphorothi	0.16361	0.14822	0.010	-9.4	50.0
53 o,o-Dimethyl-phenethylamine	16.00000	11.69980	0.010	-26.9	50.0
54 2,6-Dichlorophenol	0.27160	0.26461	0.010	-2.6	50.0
55 Hexachloropropene	0.08962	0.10331	0.010	15.3	50.0
58 N-Nitrosodi-n-butylamine	0.31573	0.29404	0.010	-6.9	50.0
60 p-Phenylene diamine	16.00000	20.74219	0.010	-29.6	50.0
61 Safrole	0.26905	0.25450	0.010	-5.4	50.0
65 1,2,4,5-Tetrachlorobenzene	0.52894	0.48190	0.010	-8.9	50.0
71 Isosafrole 1	0.14224	0.14487	0.010	1.9	50.0
M 188 Isosafrole, Total	1.17531	1.09643	0.010	-6.7	50.0
72 Isosafrole 2	1.03308	0.95156	0.010	-7.9	50.0
75 1,4-Naphthoquinone	0.41697	0.41582	0.010	-0.3	50.0
84 Pentachlorobenzene	0.40602	0.36886	0.010	-9.2	50.0
89 1-Naphthylamine	0.96100	0.94418	0.010	-1.8	50.0
92 2-Naphthylamine	0.77009	0.79523	0.010	3.3	50.0
90 Zinophos	0.36342	0.35175	0.010	-3.2	50.0
102 Tetraethyl dithiopyrophosph	0.11298	0.11343	0.010	0.4	50.0
103 Diallylate 1	1.18245	1.06890	0.010	-9.6	50.0
M 189 Diallylate, Total	3.80905	3.16848	0.010	-16.8	50.0
109 Diallylate 2	0.19226	0.19441	0.010	1.1	50.0
104 Phorate	0.22486	0.23492	0.010	4.5	50.0
105 1,3,5-Trinitrobenzene	0.05616	0.06062	0.010	7.9	50.0
108 Phenacetin	0.38129	0.42707	0.010	12.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 15-MAR-2001 09:27
 Lab File ID: 9AM0315.D Init. Cal. Date(s): 06-MAR-2001 14-MAR-2001
 Analysis Type: Init. Cal. Times: 17:32 13:32
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\10315a.b\8270d.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.53839	0.56856	0.010	5.6	50.0
112 Pentachloronitrobenzene	0.06416	0.07001	0.010	9.1	50.0
113 4-Aminobiphenyl	16.00000	18.21611	0.010	-13.9	50.0
114 Pronamide	0.36874	0.38408	0.010	4.2	50.0
117 Dinoseb	0.12354	0.13969	0.010	13.1	50.0
118 Disulfoton	0.78929	0.72703	0.010	-7.9	50.0
121 4-Nitroquinoline 1-oxide	16.00000	13.73967	0.010	14.1	50.0
122 Methapyrilene	0.26303	0.30409	0.010	15.6	50.0
126 Aramite 1	0.15512	0.16613	0.010	7.1	50.0
M 191 Aramite, Total	16.00000	14.02678	0.010	12.3	50.0
127 Aramite 2	0.21869	0.23075	0.010	5.5	50.0
128 p-Dimethylamino azobenzene	0.41303	0.41898	0.010	1.4	50.0
129 p-Chlorobenzilate	0.85719	0.99235	0.010	15.8	50.0
130 Pamphur	0.55853	0.50213	0.010	-10.1	50.0
132 3,3'-Dimethylbenzidine	0.57914	0.47842	0.010	-17.4	50.0
134 2-Acetylaminofluorene	0.55413	0.57902	0.010	4.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.77478	0.57695	0.010	-25.5	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.70427	0.57228	0.010	-18.7	50.0
193 3-Methylphenol	1.82444	1.69029	0.010	-7.4	50.0
69 1,4-Dinitrobenzene	0.12964	0.16071	0.010	24.0	50.0
77 m-Dinitrobenzene	0.16365	0.18056	0.010	10.3	50.0
198 1,4-Dioxane	0.88973	0.73385	0.010	-17.5	50.0
88 2,3,4,6-Tetrachlorophenol	0.22912	0.18155	0.010	-20.8	50.0
97 5-Nitro-o-toluidine	0.26302	0.28073	0.010	6.7	50.0
199 3-Picoline	1.91052	1.92167	0.010	0.6	50.0
200 N,N-Dimethylacetamide	1.74361	1.67248	0.010	-4.1	50.0

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP038

Lab File ID: 9DF0306C

DFTPP Injection Date: 03/06/01

Instrument ID: A4HP9

DFTPP Injection Time: 1649

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.9
68	Less than 2.0% of mass 69	0.7 (1.3)1
69	Mass 69 relative abundance	51.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	16.6
365	Greater than 1.0% of mass 198	1.4
441	Present, but less than mass 443	9.7
442	Greater than 40.0% of mass 198	58.8
443	17.0 - 23.0% of mass 442	11.4 (19.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD002	ASTD002	9AL0306	03/06/01	1732
02	ASTD005	ASTD005	9AML0306	03/06/01	1800
03	ASTD008	ASTD008	9AM0306	03/06/01	1828
04	ASTD012	ASTD012	9AMH0306	03/06/01	1856
05	ASTD016	ASTD016	9AH0306	03/06/01	1925
06	ASTD020	ASTD020	9AHH0306	03/06/01	1953
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP038
 Lab File ID: 9DF0314B DFTPP Injection Date: 03/14/01
 Instrument ID: A4HP9 DFTPP Injection Time: 0922

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.0
68	Less than 2.0% of mass 69	0.5 (0.9)1
69	Mass 69 relative abundance	53.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	49.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.1
365	Greater than 1.0% of mass 198	1.4
441	Present, but less than mass 443	9.6
442	Greater than 40.0% of mass 198	56.8
443	17.0 - 23.0% of mass 442	11.1 (19.5)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	9SML0314	03/14/01	0943
02	SSTD008	SSTD008	9SM0314	03/14/01	1012
03	SSTD002	SSTD002	9SL0314	03/14/01	1040
04	SSTD025	SSTD025	9HHH0314	03/14/01	1109
05	SSTD016	SSTD016	9SH0314	03/14/01	1206
06	SSTD012	SSTD012	9SMH0314	03/14/01	1235
07	SSTD020	SSTD020	9SHH0314	03/14/01	1332
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAR-2001 17:32
 End Cal Date : 14-MAR-2001 13:32
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9SL0314.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9SML0314.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9SM0314.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9SMH0314.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9SH0314.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9SHH0314.D
- Level 7: \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\9HHH0314.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
198 1,4-Dioxane	0.86467 ++++	0.92272	0.84660	0.89061	0.91331	0.90045	0.88973	3.276<-
7 N-Nitrosomorpholine	0.92290 ++++	0.93316	0.90855	0.91954	0.87027	0.86457	0.90316	3.193<-
8 Ethyl methanesulfonate	1.49547 ++++	1.54183	1.52213	1.58847	1.57936	1.62178	1.55817	2.998<-
9 Pyridine	1.20171 1.61978	1.54929	1.49074	1.58922	1.66568	1.60630	1.53182	10.165
10 N-Nitrosodimethylamine	1.01900 1.22488	1.20812	1.18103	1.21898	1.30454	1.22936	1.19799	7.303
11 Ethyl methacrylate	1.12020 1.41054	1.46157	1.46341	1.49267	1.54947	1.42007	1.41685	9.795
12 3-Chloropropionitrile	0.77786 0.93223	0.89408	0.88006	0.90895	0.95582	0.93011	0.89701	6.505

STL - North Canton

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
13 Malononitrile	1.72250 2.18179	2.12297	2.07536	2.13023	2.22470	2.19897	2.09379	8.187
14 2-Picoline	2.02291 ++++	2.06618	2.05191	2.14334	2.15477	2.25821	2.11622	4.105 <-
15 N-Nitrosomethylethylamine	0.99997 ++++	0.98920	0.96614	1.00073	0.99031	1.02186	0.99470	1.836 <-
16 Methyl methanesulfonate	0.80049 ++++	0.79553	0.78295	0.81362	0.80678	0.83041	0.80496	2.018 <-
18 1,3-Dichloro-2-propanol	2.47903 ++++	2.56174	2.54529	2.63914	2.61467	2.67976	2.58661	2.794 <-
19 N-Nitrosodiethylamine	0.95375 ++++	0.99385	0.99882	1.04530	1.04720	1.07547	1.01906	4.383 <-
21 Aniline	2.38099 2.64553	2.50398	2.59121	2.70009	2.79030	2.67831	2.61292	5.194
22 Phenol	2.19770 1.99002	2.34873	2.34387	2.26393	2.25677	2.06201	2.20900	6.204
23 bis(2-Chloroethyl)ether	1.97848 1.70070	1.84138	1.82632	1.84073	1.86315	1.72092	1.82452	5.093
24 2-Chlorephenol	1.33627 1.33616	1.39568	1.42402	1.47094	1.50125	1.37567	1.40571	4.535

STL - North Canton
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 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
25 Pentachloroethane	0.44251 ++++	0.46287	0.46482	0.49568	0.50205	0.51820	0.48102	5.963
26 1,3-Dichlorobenzene	1.38770 1.36036	1.41849	1.43462	1.47335	1.50506	1.38824	1.42397	3.603
27 1,4-Dichlorobenzene	1.41368 1.34951	1.46335	1.50357	1.50908	1.53482	1.38473	1.45125	4.823
28 1,2-Dichlorobenzene	1.34904 1.11045	1.35516	1.39526	1.37471	1.37067	1.16518	1.30293	8.815
29 Benzyl Alcohol	0.93298 0.93867	1.10002	1.11718	1.11551	1.11330	0.99065	1.04405	8.265
30 2-Methylphenol	1.41357 1.52907	1.56253	1.57768	1.60476	1.62696	1.53770	1.55032	4.488
31 bis(2-Chloroisopropyl) ether	2.93462 2.27430	2.55836	2.54728	2.55956	2.60793	2.31705	2.54273	8.516
32 N-Nitroso-di-n-propylamine	1.30194 1.00546	1.26429	1.18790	1.15558	1.14877	1.04428	1.15832	9.272
M 195 Cresols, total	2.82396 2.81471	3.20785	3.23998	3.22601	3.26410	2.91969	3.07090	6.755
192 4-Methylphenol	1.41039 1.28564	1.64532	1.66230	1.62125	1.63714	1.38199	1.52057	10.256

STL - North Canton

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 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
193 3-Methylphenol	1.63068 ++++	1.71495	1.79701	1.88896	1.90691	2.00813	1.82444	7.555 <-
34 Hexachloroethane	0.58961 0.55795	0.57871	0.58319	0.59522	0.60310	0.56331	0.58158	2.822
35 Nitrobenzene	0.40513 0.39633	0.40015	0.39941	0.41525	0.42683	0.38426	0.40391	3.403
36 N-Nitrosopyrrolidine	0.92821 ++++	1.00497	1.02719	1.08027	1.04713	1.06407	1.02531	5.314 <-
37 Acetophenone	1.97825 1.44270	2.09548	2.04858	1.98264	1.92442	1.55910	1.86159	13.675
39 o-Toluidine	2.58255 ++++	2.75076	2.85531	3.01055	2.95988	2.96958	2.85477	5.722 <-
40 N-Nitrosopiperidine	0.19827 ++++	0.20752	0.21308	0.22417	0.22840	0.23300	0.21741	6.145 <-
41 Isophorone	0.85899 0.80668	0.83360	0.83017	0.83475	0.85235	0.77764	0.82774	3.354
42 2-Nitrophenol	0.12285 0.12518	0.17295	0.17432	0.16989	0.16475	0.12803	0.15114	16.113
43 2,4-Dimethylphenol	0.30661 0.32232	0.33288	0.33486	0.34499	0.35245	0.31547	0.32994	4.915

STL - North Canton

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 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	† RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
44 bis(2-Chloroethoxy)methane	0.54550 0.46403	0.52068	0.52652	0.52762	0.52639	0.45493	0.50938	6.880
45 O,O,O-Triethyl phosphorothioa	0.13952 ++++	0.15504	0.15970	0.17595	0.17828	0.17314	0.16361	9.178<-
46 2,4-Toluenediamene	++++ 0.02559	0.02241	0.02276	0.02452	0.02582	0.02458	0.02428	5.837<-
47 1,3,5-Trichlorobenzene	0.25894 0.19773	0.27538	0.27949	0.26774	0.26090	0.20094	0.24873	13.884
48 2,4-Dichlorophenol	0.47299 0.42497	0.50873	0.53149	0.54102	0.54015	0.43332	0.49324	10.086
49 Benzoic Acid	++++ 0.13141	0.12048	0.10871	0.13988	0.12908	0.11388	0.12391	9.421<-
50 1,2,4-Trichlorobenzene	0.25693 0.22962	0.24694	0.26075	0.26440	0.27197	0.22677	0.25106	6.918
51 Naphthalene	0.99117 0.83383	0.99875	1.02134	1.02257	1.02280	0.83350	0.96057	9.117
52 4-Chloroaniline	0.30040 0.36938	0.33467	0.35846	0.39485	0.40434	0.36597	0.36115	9.784
53 a,a-Dimethyl-phenethylamine	0.60471 ++++	0.71809	0.65981	1.03772	1.07297	1.13222	0.87092	26.963<-

STL - North Canton

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
54 2,6-Dichlorophenol	0.23413 ++++	0.24858	0.26430	0.28144	0.29553	0.30562	0.27160	10.169<-
55 Hexachloropropene	0.07328 ++++	0.07931	0.09120	0.09909	0.10524	++++	0.08962	14.860<-
56 Hexachlorobutadiene	0.10742 0.10124	0.10592	0.11204	0.11611	0.11826	0.10149	0.10892	6.206
57 1,2,3-Trichlorobenzene	0.24103 0.21935	0.24387	0.25544	0.25535	0.26142	0.21904	0.24221	7.111
58 N-Nitrosodi-n-butylamine	0.29600 ++++	0.30883	0.31350	0.32924	0.32832	0.31848	0.31573	3.983<-
59 4-Chloro-3-Methylphenol	0.22714 0.28524	0.27758	0.28277	0.29802	0.30665	0.28294	0.28005	9.079
60 p-Phenylene diamine	0.13297 ++++	0.13812	0.08753	0.13751	0.16531	0.22897	0.14840	31.527<-
61 Safrole	0.22942 ++++	0.24754	0.26035	0.28689	0.29567	0.29442	0.26905	10.219<-
62 2-Methylnaphthalene	0.56166 0.49920	0.60077	0.61119	0.61750	0.61345	0.50061	0.57205	9.210
63 1-Methylnaphthalene	0.58976 0.48550	0.59568	0.60634	0.60746	0.60322	0.49298	0.56871	9.615

STL - North Canton

INITIAL CALIBRATION DATA

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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
73 2-Nitroaniline	0.25304 0.32173	0.31073	0.32899	0.34293	0.35724	0.32512	0.31997	10.359
74 1,2,3,4-Tetrachlorobenzene	0.38266 ++++	0.41728	0.40157	0.35877	0.33195	++++	0.37845	8.970 <-
75 1,4-Naphthoquinone	0.34087 ++++	0.37825	0.40484	0.43494	0.45514	0.48780	0.41697	12.796 <-
76 Dimethylphthalate	1.02987 1.03034	1.04714	1.08341	1.12931	1.16597	1.03762	1.07481	5.025
77 m-Dinitrobenzene	0.13404 ++++	0.14749	0.16165	0.16909	0.17209	0.19754	0.16365	13.362 <-
78 2,6-Dinitrotoluene	0.17820 0.25526	0.21627	0.22985	0.25125	0.26732	0.25129	0.23563	12.949
79 Acenaphthylene	1.62184 1.45012	1.77130	1.82638	1.82607	1.83156	1.50265	1.68999	9.694
80 1,2-Dinitrobenzene	0.09075 0.12903	0.10443	0.11255	0.12275	0.13025	0.12776	0.11679	12.774
81 3-Nitroaniline	++++ 0.26060	0.18205	0.21265	0.24795	0.27156	0.26771	0.24042	14.831 <-
82 Acenaphthene	1.04424 0.80262	1.06525	1.08144	1.06436	1.04735	0.82390	0.98988	12.268

STL - North Canton

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
64 Hexachlorocyclopentadiene	0.12544 0.14190	0.22727	0.22676	0.21208	0.20270	0.14985	0.18371	23.524
65 1,2,4,5-Tetrachlorobenzene	0.44939 ++++	0.48702	0.52108	0.56841	0.57987	0.56785	0.52894	9.937 <-
66 2,4,6-Trichlorophenol	0.22341 0.29519	0.28667	0.30261	0.32065	0.33851	0.30210	0.29559	12.237
67 2,4,5-Trichlorophenol	++++ 0.30163	0.27972	0.29811	0.32802	0.33562	0.30368	0.30730	6.805 <-
68 1,2,3,5-Tetrachlorobenzene	0.43584 ++++	0.45611	0.44032	0.38530	0.35678	++++	0.41487	10.110 <-
69 1,4-Dinitrobenzene	0.10577 ++++	0.11900	0.13517	0.14041	0.14787	++++	0.12964	13.147 <-
70 2-Chloronaphthalene	0.94590 0.80579	1.01183	1.04808	1.05816	1.05988	0.84115	0.96726	10.989
71 Isosafrole 1	0.13064 ++++	0.13563	0.13907	0.14453	0.14775	0.15578	0.14224	6.344 <-
M 188 Isosafrole, Total	1.03566 ++++	1.13179	1.22484	1.26393	1.22388	1.17178	1.17531	7.024 <-
72 Isosafrole 2	0.90502 ++++	0.99616	1.08577	1.11940	1.07612	1.01600	1.03308	7.515 <-

STL - North Canton

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 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
83 2,4-Dinitrophenol	+++++	+++++	0.05832	0.07453	0.08372	0.08830		
	0.08899						0.07877	16.255 <-
84 Pentachlorobenzene	0.34213	0.37446	0.39847	0.44230	0.44400	0.43474		
	+++++						0.40602	10.284 <-
85 4-Nitrophenol	+++++	0.05245	0.06014	0.06745	0.07218	0.06999		
	0.06935						0.06526	11.508 <-
86 Dibenzofuran	1.21172	1.31391	1.37576	1.39590	1.39247	1.14192		
	1.10068						1.27605	9.713
87 2,4-Dinitrotoluene	0.18959	0.25644	0.27528	0.29914	0.32633	0.31131		
	0.31586						0.28199	16.823
88 2,3,4,6-Tetrachlorophenol	+++++	0.18669	0.20986	0.23402	0.24809	0.26695		
	+++++						0.22912	13.778 <-
89 1-Naphthylamine	0.82951	0.86566	0.86576	0.98306	1.05419	1.16784		
	+++++						0.96100	13.758 <-
90 Zinophos	0.32891	0.36390	0.36673	0.38028	0.37300	0.36773		
	+++++						0.36342	4.918 <-
91 2,3,5,6-Tetrachlorophenol	+++++	0.17717	0.19821	0.21927	0.23003	0.20976		
	0.20843						0.20715	8.790 <-
92 2-Naphthylamine	0.80689	0.79302	0.72653	0.73315	0.72309	0.83786		
	+++++						0.77009	6.346 <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAR-2001 17:32
 End Cal Date : 14-MAR-2001 13:32
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
93 Diethylphthalate	1.09728 0.96942	1.12246	1.14583	1.15774	1.17894	0.99711	1.09554	7.423
94 Fluorene	0.99892 0.57680	1.09717	1.03610	0.87826	0.80557	0.61136	0.85774	23.886
95 4-Chlorophenyl-phenylether	0.41422 ++++	0.47597	0.44614	0.37699	0.34767	++++	0.41220	12.504 <-
96 4-Nitroaniline	0.12179 0.20357	0.13710	0.16807	0.19627	0.21478	0.20554	0.17816	20.534
97 5-Nitro-o-toluidine	0.21975 ++++	0.23377	0.25844	0.26879	0.27507	0.32227	0.26302	13.643 <-
98 4,6-Dinitro-2-methylphenol	++++ 0.11774	0.07742	0.08387	0.09864	0.10673	0.11399	0.09973	16.337 <-
99 N-Nitrosodiphenylamine	0.54504 0.52315	0.56475	0.57307	0.59252	0.60206	0.51919	0.55997	5.772
100 1,2-Diphenylhydrazine	1.22087 0.99219	1.19325	1.12371	1.11587	1.11576	0.99679	1.10835	7.913
101 Diphenylamine	0.54504 0.52315	0.56475	0.57307	0.59252	0.60206	0.51919	0.55997	5.772
102 Tetraethyl dithiopyrophosphat	0.10430 ++++	0.11033	0.11031	0.11864	0.12091	0.11341	0.11298	5.379 <-

STL - North Canton

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
103 Diallate 1	1.30820 ++++	1.31300	1.19332	1.16626	1.10319	1.01073	1.18245	9.935 <-
M 189 Diallate, Total	3.85051 ++++	4.19582	3.98000	3.97852	3.55557	3.29388	3.80905	8.619 <-
104 Phorate	0.21657 ++++	0.22764	0.22576	0.23251	0.23067	0.21599	0.22486	3.133 <-
105 1,3,5-Trinitrobenzene	++++ ++++	0.04256	0.05430	0.05927	0.06072	0.06396	0.05616	14.893 <-
106 4-Bromophenyl-phenylether	0.17020 0.16218	0.17499	0.17903	0.18505	0.18630	0.16499	0.17468	5.391
107 Hexachlorobenzene	0.21108 0.16952	0.19832	0.20293	0.19988	0.20162	0.17311	0.19378	8.208
108 Phenacetin	0.35677 ++++	0.34421	0.36647	0.37351	0.39089	0.45592	0.38129	10.437 <-
109 Diallate 2	0.20055 ++++	0.19513	0.17827	0.18657	0.19449	0.19852	0.19226	4.349 <-
110 Dimethoate	0.51792 ++++	0.51290	0.52247	0.53406	0.55617	0.58679	0.53839	5.254 <-
111 Pentachlorophenol	0.05266 0.11340	0.08617	0.08708	0.10423	0.11351	0.10982	0.09527	23.150 <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAR-2001 17:32
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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
112 Pentachloronitrobenzene	0.05677 ++++	0.05856	0.05850	0.06618	0.07140	0.07357	0.06416	11.302 <-
113 4-Aminobiphenyl	0.53789 ++++	0.42186	0.35843	0.37587	0.47628	0.64740	0.46962	23.276 <-
114 Pronamide	0.33248 ++++	0.34274	0.34947	0.38084	0.40018	0.40674	0.36874	8.525 <-
115 Phenanthrene	1.06544 0.90886	1.06762	1.11018	1.10172	1.11658	0.94058	1.04443	8.101
116 Anthracene	0.91520 0.87690	0.99641	1.04620	1.07945	1.07041	0.89719	0.98311	8.744
117 Dinoseb	++++ ++++	0.09737	0.12127	0.13143	0.13345	0.13417	0.12354	12.564 <-
118 Disulfoton	0.88239 ++++	0.87243	0.78981	0.77297	0.74167	0.67644	0.78929	9.952 <-
119 Carbaole	0.77586 0.79939	0.71596	0.76007	0.86319	0.89648	0.80805	0.80272	7.638
120 Di-n-Butylphthalate	1.47406 1.19870	1.52458	1.48371	1.50842	1.49570	1.22430	1.41564	9.932
121 4-Nitroquinoline 1-oxide	0.02018 ++++	0.03016	0.04028	0.04506	0.05230	0.07108	0.04318	41.069 <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAR-2001 17:32
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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\44hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
122 Methapyzilene	0.22805 ++++	0.24129	0.24985	0.27040	0.28232	0.30629	0.26303	10.976 <-
123 Fluoranthene	0.78621 0.80103	0.76827	0.84859	0.91739	0.94150	0.80818	0.83874	7.987
124 Benzidine	0.56783 0.63274	0.21194	0.28702	0.44935	0.51413	0.64247	0.47221	35.458
125 Pyrene	1.97790 1.93871	2.14167	2.15377	1.98041	2.01655	1.91622	2.01789	4.675
126 Aramite 1	0.13686 ++++	0.14606	0.14651	0.16740	0.16978	0.16411	0.15512	8.821 <-
M 191 Aramite, Total	0.33173 ++++	0.37440	0.40431	0.44864	0.45364	0.51414	0.42114	15.361 <-
127 Aramite 2	0.18070 ++++	0.20668	0.20931	0.23890	0.24122	0.23534	0.21869	10.953 <-
128 p-Dimethylamino azobenzene	0.33638 ++++	0.37136	0.39326	0.44381	0.45395	0.47940	0.41303	13.275 <-
129 p-Chlorobenzilate	0.77344 ++++	0.85301	0.84598	0.93015	0.92407	0.81646	0.85719	7.118 <-
130 Famphur	0.63361 ++++	0.64274	0.55423	0.52394	0.43813	++++	0.55853	15.097 <-

STL - North Canton

INITIAL CALIBRATION DATA

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 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
131 Butylbenzylphthalate	0.89417 1.03107	1.03541	1.03017	0.99504	1.03288	1.01449	1.00475	5.057
132 3,3'-Dimethylbenzidine	0.62133 ++++	0.59981	0.44874	0.55742	0.60936	0.63817	0.57914	11.983 <-
133 3,3'-Dimethoxybenzidine	0.15965 0.25421	0.12731	0.13514	0.20604	0.23622	0.24478	0.19476	27.505
134 2-Acetylaminofluorene	++++ ++++	0.45507	0.50463	0.56809	0.58768	0.65320	0.55413	13.919 <-
135 3,3'-Dichlorobenzidine	0.35321 0.30448	0.35223	0.37754	0.38482	0.36016	0.30851	0.34871	8.971
136 Benzo(a)Anthracene	1.18559 1.01671	1.23985	1.27788	1.21348	1.16282	1.03442	1.16154	8.615
137 Chrysene	1.12071 1.11026	0.99812	1.04395	1.12086	1.16151	1.09516	1.09294	5.004
138 4,4'-Methylene bis(o-chloroan	0.16451 0.14501	0.18918	0.20160	0.19577	0.18172	0.15305	0.17584	12.441
139 bis(2-ethylhexyl)Phthalate	1.56720 1.31361	1.86110	1.69437	1.53730	1.50172	1.34594	1.54589	12.325
140 Di-n-octylphthalate	2.09187 3.54980	2.78130	3.22558	3.27440	3.56320	3.66953	3.16510	17.665

STL - North Canton

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 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
141 Benzo(b)fluoranthene	0.98108 ++++	1.09332	1.25864	1.35897	1.63160	1.65059	1.32903	20.673|<-
142 Benzo(k)fluoranthene	1.03266 ++++	1.11527	1.26373	1.48663	1.56889	1.62633	1.34892	18.345|<-
143 7,12-dimethylbenz(a)anthracen	++++ ++++	0.66335	0.65705	0.78918	0.84701	0.91732	0.77478	14.719|<-
144 Hexachlorophene	++++ ++++	++++	++++	++++	++++	++++	++++	++++|<-
145 Hexachlorophene product	++++ ++++	++++	++++	++++	++++	++++	++++	++++|<-
146 Benzo(a)pyrene	0.86556 ++++	0.90169	0.95714	1.15604	1.25511	1.30503	1.07343	17.661|<-
148 3-Methylcholanthrene	0.58041 ++++	0.63060	0.66570	0.72416	0.76542	0.85929	0.70427	14.259|<-
149 Indeno(1,2,3-cd)pyrene	1.06574 ++++	1.00221	1.02262	1.27722	1.39166	1.42592	1.19756	15.945|<-
150 Dibenz(a,h)anthracene	0.88470 ++++	0.80491	0.82941	1.05973	1.14952	1.20500	0.98888	17.378|<-
151 Benzo(g,h,i)perylene	0.95675 1.13611	0.84093	0.80641	0.97008	1.04584	1.05264	0.97268	12.144

STL - North Canton

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\10314a.b\8270d.m
 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
199 3-Picoline	1.76010	1.82632	1.86270	1.94455	1.96434	2.10514	1.91052	6.365 <-
	++++							
200 N,N-Dimethylacetamide	1.70579	1.72100	1.72879	1.76414	1.73795	1.80400	1.74361	2.030 <-
	++++							
201 Quinoline	0.51240	0.54461	0.58479	0.61701	0.62957	0.60817	0.58276	7.834 <-
	++++							
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
	++++							
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
	++++							
204 6-Methylchrysene	0.66492	0.69653	0.78495	0.87879	1.06398	++++	0.81783	19.667 <-
	++++							
205 Benzenethiol	0.19099	0.20000	0.17846	0.19855	0.14219	++++	0.18204	13.103 <-
	++++							
207 Indene	++++	0.51242	0.30791	0.26062	0.11206	0.09518	0.25764	65.824 <-
	++++							
208 Dibenz(a,j)acridine	0.76561	0.86142	0.94738	1.09196	1.43706	++++	1.02069	25.654 <-
	++++							
209 Benzaldehyde	1.40721	1.39808	1.37771	1.34405	1.31354	1.21097	1.30923	8.341
	1.11307							

STL - North Canton

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 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
210 Caprolactam	0.07048 0.12137	0.10049	0.10198	0.11509	0.11929	0.11834	0.10672	16.903
211 1,1'-Biphenyl	1.33858 0.69286	1.41748	1.32654	1.14692	1.02518	0.73349	1.09729	26.748
212 Atrazine	0.16013 0.16915	0.17066	0.17599	0.18437	0.18892	0.16955	0.17411	5.650
\$ 154 Nitrobenzene-d5	0.39895 0.42087	0.41548	0.41656	0.43516	0.45084	0.40932	0.42102	4.072
\$ 155 2-Fluorobiphenyl	1.13651 0.91560	1.18257	1.19756	1.18366	1.15979	0.94244	1.10259	10.922
\$ 156 Terphenyl-d14	1.13874 1.04509	1.08326	1.14543	1.07041	1.09831	1.04425	1.08936	3.757
\$ 157 Phenol-d5	1.92144 1.95086	2.08569	2.11036	2.11854	2.12596	2.00801	2.04612	4.132
\$ 158 2-Fluorophenol	1.42073 1.57922	1.52716	1.51297	1.57226	1.65544	1.56808	1.54798	4.671
\$ 159 2,4,6-Tribromophenol	0.06273 0.10418	0.08344	0.09331	0.10587	0.11445	0.10532	0.09561	18.427
\$ 186 2-Chlorophenol-d4	1.14057 1.26859	1.27703	1.30351	1.34557	1.38063	1.29632	1.28746	5.884

STL - North Canton

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 Cal Date : 14-Mar-2001 13:55 tapsvc
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
\$ 187 1,2-Dichlorobenzene-d4	0.85035	0.88269	0.92014	0.91824	0.90457	0.72872	0.83896	11.978
	0.66802							

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STL CAN

SDG No: MP038

Lot #: A1C090105

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	84	81	112	5.4*	15 *	14	02
02	MPT-G4-GW66-05	92	86	114	89	104	91	00
03	MPT-G4-GW67-05	89	77	56	86	96	87	00
04	METHOD BLK. DW8R41AA	92	89	109	87	93	89	00
05	LCS DW8R41AC	94	93	112	88	105	94	00
06	LAB MS/MSD D	92	88	121	3.9*	8.9*	14	02
07	LAB MS/MSD S	88	86	122	3.2*	10 *	10	02

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = 2-Fluorophenol
 SRG05 = 2,4,6-Tribromophenol
 SRG06 = Phenol-d5

QC LIMITS

(32-112)
 (30-110)
 (10-144)
 (13-110)
 (21-122)
 (10-113)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: LAB MS/MSD

Lot #: A1C080226

WO #: DW47C1CT

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	100		81	81	22- 110	
Acenaphthene	100		85	85	26- 118	
2,4-Dinitrotoluene	100		88	88	31- 131	
Pyrene	100		100	104	27- 138	
N-Nitrosodi-n-propylamine	100		83	83	18- 115	
1,4-Dichlorobenzene	100		72	72	18- 110	
Pentachlorophenol	100		19	19	10- 140	
Phenol	100		9.4	9*	10- 131	a
2-Chlorophenol	100		8.1	8*	19- 124	a
4-Chloro-3-methylphenol	100		37	37	21- 124	
4-Nitrophenol	100		22	22	10- 145	
Acenaphthylene	100		79	79	48- 96	
Anthracene	100		86	86	52- 101	
Benzo(a)anthracene	100		85	85	52- 110	
Benzo(b)fluoranthene	100		94	94	48- 107	
Benzo(k)fluoranthene	100		91	91	53- 109	
Benzo(ghi)perylene	100		98	98	48- 109	
bis(2-Chloroethoxy)methan	100		85	85	40- 101	
Benzo(a)pyrene	100		87	87	47- 98	
bis(2-Chloroethyl) ether	100		87	87	36- 104	
2,2'-Oxybis(1-Chloropropa	100		82	82	43- 133	
bis(2-Ethylhexyl) phthala	100	ND	110	104	44- 133	
Butyl benzyl phthalate	100		98	98	46- 115	
4-Bromophenyl phenyl ethe	100		91	91	56- 110	
Carbazole	100		89	89	42- 115	
Chrysene	100		94	94	54- 115	
4-Chlorophenyl phenyl eth	100		89	89	55- 110	
4-Chloroaniline	100		64	64	13- 71	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: LAB MS/MSD

Lot #: A1C080226

WO #: DW47C1CT

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
2-Chloronaphthalene	100		87	87	46 - 104	
Dibenz(a,h)anthracene	100		99	99	49 - 110	
Dibenzofuran	100		88	88	53 - 104	
Di-n-butyl phthalate	100		81	81	53 - 109	
1,2-Dichlorobenzene	100		76	76	33 - 91	
1,3-Dichlorobenzene	100		71	71	30 - 86	
2,4-Dimethylphenol	100		22	22	10 - 88	
Dimethyl phthalate	100		22	22*	32 - 124	a
4,6-Dinitro-2-methylpheno	100		50	50	46 - 123	
Di-n-octyl phthalate	100		110	106	46 - 124	
Fluoranthene	100		89	89	51 - 113	
Fluorene	100		89	89	54 - 105	
Hexachlorobenzene	100		95	95	36 - 132	
3,3'-Dichlorobenzidine	100		51	51	10 - 71	
2,4-Dichlorophenol	100		8.9	8*	43 - 103	a
Diethyl phthalate	100		39	39	36 - 117	
2,4-Dinitrophenol	100		87	87	30 - 133	
2,6-Dinitrotoluene	100		94	94	58 - 109	
Hexachlorobutadiene	100		77	77	18 - 116	
Hexachlorocyclopentadiene	100			2*	10 - 45	a
Hexachloroethane	100		67	67	18 - 110	
Indeno(1,2,3-cd)pyrene	100		97	97	48 - 113	
Isophorone	100		82	82	42 - 102	
2-Methylnaphthalene	100		82	82	39 - 102	
2-Methylphenol	100		44	44	29 - 115	
4-Methylphenol	200		65	32	25 - 144	
Naphthalene	100		83	83	39 - 96	
2-Nitroaniline	100		95	95	44 - 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: LAB MS/MSD

Lot #: A1C080226

WO #: DW47C1CT

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
3-Nitroaniline	100		85	85	20- 102	
4-Nitroaniline	100		80	80	25- 95	
Nitrobenzene	100		87	87	10- 211	
2-Nitrophenol	100		11	11*	35- 104	a
N-Nitrosodiphenylamine	100		85	85	53- 99	
Phenanthrene	100		87	87	55- 109	
2,4,5-Trichlorophenol	100		10	10*	24- 143	a
2,4,6-Trichlorophenol	100		8.4	8*	36- 135	a
Benzoic acid	100		100	102	50- 130	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits
 Spike Recovery: 8 out of 65 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: LAB MS/MSD

Lot #: A1C080226

WO #: DW47C1CU

BATCH: 1071115

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	100	86	86	6.0	37	22- 110	
Acenaphthene	100	87	87	3.1	35	26- 118	
2,4-Dinitrotoluene	100	91	91	2.9	32	31- 131	
Pyrene	100	100	104	0.59	31	27- 138	
N-Nitrosodi-n-propylamine	100	86	86	2.9	36	18- 115	
1,4-Dichlorobenzene	100	79	79	9.0	36	18- 110	
Pentachlorophenol	100	13	13	35	56	10- 140	
Phenol	100	14	14	42	43	10- 131	
2-Chlorophenol	100	11	11	29	43	19- 124	a
4-Chloro-3-methylphenol	100	49	49	27	55	21- 124	
4-Nitrophenol	100	30	30	32	34	10- 145	
Acenaphthylene	100	80	80	0.92	21	48- 96	
Anthracene	100	89	89	3.5	18	52- 101	
Benzo(a)anthracene	100	88	88	2.9	16	52- 110	
Benzo(b)fluoranthene	100	100	100	6.9	20	48- 107	
Benzo(k)fluoranthene	100	100	100	9.7	20	53- 109	
bis(2-Chloroethyl) ether	100	91	91	4.9	26	36- 104	
2,2'-Oxybis(1-Chloropropa	100	86	86	4.8	25	43- 133	
bis(2-Ethylhexyl) phthala	100	110	105	0.78	23	44- 133	
Benzo(ghi)perylene	100	100	101	2.5	17	48- 109	
Benzo(a)pyrene	100	92	92	5.0	18	47- 98	
bis(2-Chloroethoxy)methan	100	89	89	4.2	40	40- 101	
4-Bromophenyl phenyl ethe	100	93	93	1.5	17	56- 110	
Butyl benzyl phthalate	100	96	96	2.2	18	46- 115	
4-Chloroaniline	100	75	75	16	41	13- 71	a
Carbazole	100	96	96	6.7	21	42- 115	
2-Chloronaphthalene	100	90	90	4.2	25	46- 104	
4-Chlorophenyl phenyl eth	100	91	91	2.8	19	55- 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: LAB MS/MSD

Lot #: A1C080226

WO #: DW47C1CU

BATCH: 1071115

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
Chrysene	100	98	98	3.5	16	54- 115	
Dibenz (a, h) anthracene	100	100	104	5.4	18	49- 110	
Dibenzofuran	100	92	92	3.8	20	53- 104	
Di-n-butyl phthalate	100	81	81	0.96	17	53- 109	
1,2-Dichlorobenzene	100	81	81	6.8	29	33- 91	
1,3-Dichlorobenzene	100	77	77	8.1	31	30- 86	
3,3'-Dichlorobenzidine	100	49	49	3.6	36	10- 71	
2,4-Dichlorophenol	100	11	11*	23	26	43- 103	a
Diethyl phthalate	100	36	36	9.7	20	36- 117	
2,4-Dimethylphenol	100	24	24	7.7	28	10- 88	
Dimethyl phthalate	100	21	21*	1.7	22	32- 124	a
4,6-Dinitro-2-methylpheno	100	56	56	11	24	46- 123	
2,4-Dinitrophenol	100	92	92	5.9	32	30- 133	
2,6-Dinitrotoluene	100	97	97	3.8	16	58- 109	
Di-n-octyl phthalate	100	110	112	4.8	22	46- 124	
Fluoranthene	100	95	95	7.2	19	51- 113	
Fluorene	100	92	92	3.0	19	54- 105	
Hexachlorobenzene	100	97	97	2.5	22	36- 132	
Hexachlorobutadiene	100	82	82	6.9	32	18- 116	
Hexachlorocyclopentadiene	100	0.0	0*	200*	59	10- 45	a p
Hexachloroethane	100	75	75	11	33	18- 110	
Indeno (1,2,3-cd) pyrene	100	100	100	3.2	19	48- 113	
Isophorone	100	86	86	4.0	25	42- 102	
2-Methylnaphthalene	100	86	86	4.7	28	39- 102	
2-Methylphenol	100	55	55	23	31	29- 115	
4-Methylphenol	200	89	44	31	33	25- 144	
Naphthalene	100	88	88	6.4	26	39- 96	
2-Nitroaniline	100	99	99	3.8	17	44- 116	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: STLCAN

SDG No: MP038

Matrix Spike ID: LAB MS/MSD

Lot #: A1C080226

WO #: DW47C1CU

BATCH: 1071115

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	100	93	93	8.6	23	20- 102	
4-Nitroaniline	100	89	89	10	26	25- 95	
Nitrobenzene	100	91	91	4.4	50	10- 211	
2-Nitrophenol	100	14	14*	23	26	35- 104	a
N-Nitrosodiphenylamine	100	88	88	2.8	18	53- 99	
Phenanthrene	100	91	91	5.2	18	55- 109	
2,4,5-Trichlorophenol	100	10	10*	1.4	22	24- 143	a
2,4,6-Trichlorophenol	100	8.9	8*	5.0	27	36- 135	a
Benzoic acid	100	110	107	4.2	50	50- 130	

NOTES (S):

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 1 out of 65 outside limits
 Spike Recovery: 8 out of 65 outside limits

COMMENTS:

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP038

Lab File ID: 8DF0307

DFTPP Injection Date: 03/07/01

Instrument ID: A4HP8

DFTPP Injection Time: 1033

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.1 (0.2)1
69	Mass 69 relative abundance	61.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.9
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	25.3
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than mass 443	9.3
442	Greater than 40.0% of mass 198	61.7
443	17.0 - 23.0% of mass 442	12.2 (19.8)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	8SM0307	03/07/01	1057
02	SSTD010	SSTD010	8SML0307	03/07/01	1130
03	SSTD004	SSTD004	8SL0307	03/07/01	1159
04	SSTD024	SSTD024	8SMH0307	03/07/01	1228
05	SSTD032	SSTD032	8SH0307	03/07/01	1256
06	SSTD040	SSTD040	8SHH0307	03/07/01	1325
07	SSTD050	SSTD050	8HHH0307	03/07/01	1354
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP038

Lab File ID: SDF0316

DFTPP Injection Date: 03/16/01

Instrument ID: A4HP8

DFTPP Injection Time: 0912

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.6
68	Less than 2.0% of mass 69	0.5 (0.8)1
69	Mass 69 relative abundance	62.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.1
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.0
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	64.7
443	17.0 - 23.0% of mass 442	12.9 (19.9)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD016	ASTD016	8AM0316	03/16/01	1006
02	ASTD010	ASTD010	8AML0316	03/16/01	1034
03	ASTD004	ASTD004	8AL0316	03/16/01	1103
04	ASTD024	ASTD024	8AMH0316	03/16/01	1131
05	ASTD032	ASTD032	8AH0316	03/16/01	1200
06	ASTD040	ASTD040	8AHH0316	03/16/01	1228
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2001 10:57
 End Cal Date : 16-MAR-2001 12:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m
 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\8AL0316.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\8AML0316.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\8AM0316.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\8AMH0316.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\8AH0316.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\8AHH0316.D
 Level 7: \\qcanoh05\dd\chem\MSS\a4hp8.i\10307a.b\8HHH0307.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	* RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
198 1,4-Dioxane	0.79888 ++++	0.79510	0.73221	0.80197	0.76066	0.79243	0.78021	3.570<-
7 N-Nitrosomorpholine	1.10480 ++++	1.15061	1.10934	1.11059	1.09613	1.11019	1.11361	1.700<-
8 Ethyl methanesulfonate	1.50261 ++++	1.58889	1.51679	1.56103	1.54880	1.56581	1.54732	2.082<-
9 Pyridine	1.63394 1.89535	1.83096	1.81499	1.86460	1.91613	1.86283	1.83126	5.114
10 N-Nitrosodimethylamine	1.22615 1.27367	1.24412	1.23615	1.23247	1.30097	1.26823	1.25454	2.171
11 Ethyl methacrylate	1.77107 1.83929	1.85229	1.80975	1.82088	1.87255	1.80005	1.82370	1.870
12 3-Chloropropionitrile	0.72432 0.75288	0.71181	0.73310	0.74457	0.75371	0.75029	0.73867	2.180

STL - North Canton

INITIAL CALIBRATION DATA

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 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
13 Malononitrile	1.77273 1.85421	1.80338	1.81211	1.83802	1.84953	1.85854	1.82693	1.744
14 2-Picoline	1.83543 ++++	2.03288	1.91370	2.01537	1.99269	2.03697	1.97117	4.076 <-
15 N-Nitrosomethylethylamine	0.88164 ++++	0.92962	0.90986	0.93018	0.91237	0.93296	0.91611	2.131 <-
16 Methyl methanesulfonate	1.25263 ++++	1.31031	1.26222	1.28356	1.27021	1.27466	1.27560	1.570 <-
18 1,3-Dichloro-2-propanol	2.12645 ++++	2.20507	2.12824	2.17769	2.14759	2.17053	2.15926	1.426 <-
19 N-Nitrosodiethylamine	0.86845 ++++	0.91006	0.87876	0.90040	0.90419	0.91997	0.89697	2.179 <-
21 Aniline	2.42806 2.57139	2.47423	2.45037	2.55669	2.58119	2.57952	2.52021	2.645
22 Phenol	2.07488 2.15750	2.07562	2.05742	2.13576	2.15311	2.14268	2.11385	2.019
23 bis(2-Chloroethyl)ether	1.58688 1.60171	1.59518	1.56184	1.60143	1.61947	1.59719	1.59510	1.064
24 2-Chlorophenol	1.28163 1.33612	1.30186	1.27354	1.31603	1.32495	1.31662	1.30725	1.748

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2001 10:57
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 Integrator : HP RTE
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 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
25 Pentachloroethane	0.56838 ++++	0.58735	0.56782	0.58710	0.57055	0.58467	0.57764	1.670
26 1,3-Dichlorobenzene	1.43360 1.43224	1.40094	1.38075	1.40995	1.42707	1.41698	1.41450	1.350
27 1,4-Dichlorobenzene	1.44708 1.47570	1.43849	1.41149	1.45890	1.46834	1.45561	1.45080	1.470
28 1,2-Dichlorobenzene	1.33358 1.36714	1.34881	1.31232	1.34299	1.35446	1.35564	1.34499	1.327
29 Benzyl Alcohol	0.95774 1.06389	0.99902	1.00490	1.04097	1.05287	1.05517	1.02494	3.791
30 2-Methylphenol	1.40380 1.48702	1.41523	1.42177	1.47000	1.48494	1.48941	1.45317	2.608
31 bis(2-Chloroisopropyl) ether	1.31873 1.30376	1.30914	1.27286	1.31757	1.32255	1.30270	1.30676	1.284
32 N-Nitroso-di-n-propylamine	1.60487 1.57086	1.59731	1.56204	1.60900	1.59955	1.57751	1.58873	1.155
M 195 Cresols, total	2.86509 3.06982	2.91342	2.91645	3.02963	3.06782	3.08384	2.99230	3.040
192 4-Methylphenol	1.46129 1.58280	1.49820	1.49469	1.55964	1.58288	1.59443	1.53913	3.459

STL - North Canton

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
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 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
193 3-Methylphenol	1.52194 ++++	1.65351	1.65801	1.71877	1.73734	1.83051	1.68668	6.124 <-
34 Hexachloroethane	0.65594 0.65351	0.64835	0.63654	0.65372	0.65503	0.65450	0.65108	1.054
35 Nitrobenzene	0.57689 0.58204	0.59018	0.57795	0.58267	0.58578	0.58043	0.58228	0.787
36 N-Nitrosopyrrolidine	0.85640 ++++	0.92560	0.92560	0.94792	0.96306	0.99156	0.93502	4.903 <-
37 Acetophenone	2.45931 2.26667	2.55695	2.50425	2.56939	2.59038	2.63124	2.51117	4.842
39 o-Toluidine	2.60354 ++++	2.77811	2.67494	2.77512	2.76905	2.83780	2.73976	3.095 <-
40 N-Nitrosopiperidine	0.19827 ++++	0.20282	0.20322	0.20475	0.20602	0.20924	0.20405	1.793 <-
41 Isophorone	1.00839 1.04652	1.05477	1.03000	1.05552	1.05074	1.04662	1.04179	1.633
42 2-Nitrophenol	0.16214 0.19684	0.17549	0.17603	0.18698	0.19131	0.19269	0.18293	6.890
43 2,4-Dimethylphenol	0.44711 0.46305	0.45846	0.45436	0.45790	0.46743	0.46030	0.45837	1.411

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2001 10:57
 End Cal Date : 16-MAR-2001 12:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m
 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
44 bis(2-Chloroethoxy)methane	0.51025 0.52130	0.51505	0.50712	0.51908	0.51745	0.51729	0.51536	0.975
45 O,O,O-Trisethyl phosphorothioa	0.20837 ++++	0.21078	0.21228	0.21665	0.21854	0.22494	0.21526	2.809 <-
46 2,4-Toluenediamene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
47 1,3,5-Trichlorobenzene	0.31077 0.33318	0.31728	0.31479	0.32033	0.32756	0.32519	0.32130	2.430
48 2,4-Dichlorophenol	0.25564 0.29384	0.27697	0.27522	0.28468	0.28933	0.29037	0.28086	4.661
49 Benzoic Acid	++++ 0.13638	0.11589	0.12869	0.13396	0.13214	0.14406	0.13185	7.106 <-
50 1,2,4-Trichlorobenzene	0.29958 0.30959	0.29786	0.29649	0.30446	0.30739	0.30378	0.30274	1.626
51 Naphthalene	1.01433 1.05193	1.02245	1.01300	1.02990	1.05117	1.04263	1.03220	1.605
52 4-Chloroaniline	0.34139 0.38697	0.35850	0.35280	0.37059	0.38060	0.38074	0.36737	4.601
53 a,a-Dimethyl-phenethylamine	0.43261 ++++	0.42912	0.37357	0.66126	0.65936	0.73699	0.54882	28.089 <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2001 10:57
 End Cal Date : 16-MAR-2001 12:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m
 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
54 2,6-Dichlorophenol	0.28326	0.29291	0.29843	0.29506	0.30178	0.31004	0.29691	3.028
	++++							
55 Hexachloropropene	0.21357	0.23367	0.23378	0.23618	0.24857	0.25748	0.23721	6.322
	++++							
56 Hexachlorobutadiene	0.19768	0.20715	0.19736	0.20430	0.20590	0.20628	0.20395	2.263
	0.20900							
57 1,2,3-Trichlorobenzene	0.28542	0.29472	0.28744	0.29528	0.30228	0.29755	0.29499	2.235
	0.30224							
58 N-Nitrosodi-n-butylamine	0.38338	0.39792	0.39237	0.39436	0.39458	0.39514	0.39296	1.278
	++++							
59 4-Chloro-3-Methylphenol	0.37233	0.39197	0.39588	0.41221	0.41737	0.41561	0.40282	4.169
	0.41436							
60 p-Phenylene diamine	0.26522	0.29964	0.28095	0.31596	0.34167	0.36476	0.31137	12.002
	++++							
61 Safrole	0.30595	0.31134	0.31479	0.31633	0.31852	0.33041	0.31622	2.600
	++++							
62 2-Methylnaphthalene	0.63433	0.64574	0.64109	0.66701	0.68535	0.67952	0.66189	3.190
	0.68017							
63 1-Methylnaphthalene	0.62374	0.63861	0.63364	0.65422	0.67708	0.66862	0.65267	3.222
	0.67277							

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
64 Hexachlorocyclopentadiene	0.25005 0.41360	0.30850	0.31765	0.34609	0.37231	0.41146	0.34567	17.100
65 1,2,4,5-Tetrachlorobenzene	0.61856 ++++	0.62019	0.63268	0.64764	0.65800	0.67737	0.64241	3.584 <-
66 2,4,6-Trichlorophenol	0.33070 0.38194	0.35015	0.34690	0.36854	0.38232	0.38332	0.36341	5.774
67 2,4,5-Trichlorophenol	0.32820 0.39257	0.35848	0.35721	0.37371	0.38966	0.39905	0.37127	6.766
68 1,2,3,5-Tetrachlorobenzene	0.55610 0.63635	0.56975	0.56099	0.59583	0.62991	0.62717	0.59659	5.828
69 1,4-Dinitrobenzene	0.18999 ++++	0.18077	0.18700	0.18435	0.19106	0.20249	0.18428	7.625 <-
70 2-Chloronaphthalene	1.02683 1.07501	1.02288	0.99519	1.04012	1.08603	1.07518	1.04589	3.222
71 Isosafrole 1	0.14748 ++++	0.15512	0.15223	0.15719	0.15575	0.15981	0.15460	2.771 <-
M 188 Isosafrole, Total	1.12497 ++++	1.16751	1.18720	1.20949	1.23582	1.29219	1.20286	4.801 <-
72 Isosafrole 2	0.97749 ++++	1.01239	1.03497	1.05230	1.08007	1.13238	1.04827	5.151 <-

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
73 2-Nitroaniline	0.41128 0.46598	0.43821	0.43233	0.45459	0.46458	0.47860	0.44937	5.183
74 1,2,3,4-Tetrachlorobenzene	0.51535 0.57435	0.52476	0.51338	0.54320	0.57909	0.57112	0.54589	5.284
75 1,4-Naphthoquinone	0.34831 ++++	0.40024	0.41955	0.41269	0.41507	0.43020	0.40435	7.203 <-
76 Dimethylphthalate	1.21005 1.26246	1.24116	1.19319	1.23975	1.28087	1.27040	1.24255	2.575
77 m-Dinitrobenzene	0.18541 ++++	0.20383	0.20442	0.20027	0.20764	0.21791	0.20325	5.221 <-
78 2,6-Dinitrotoluene	0.24133 0.27705	0.26118	0.25691	0.26931	0.28082	0.28152	0.26688	5.521
79 Acenaphthylene	1.66651 1.79335	1.73533	1.65356	1.73656	1.80654	1.79527	1.74102	3.574
80 1,2-Dinitrobenzene	0.11699 0.13034	0.12364	0.11955	0.12559	0.12792	0.13290	0.12528	4.551
81 3-Nitroaniline	0.19270 0.22800	0.20717	0.20414	0.21909	0.21947	0.23984	0.21577	7.316
82 Acenaphthene	1.06180 1.11605	1.05893	1.03490	1.08593	1.13193	1.13202	1.08880	3.558

STL - North Canton
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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
83 2,4-Dinitrophenol	++++ 0.13947	0.08117	0.09715	0.11717	0.12461	0.14828	0.11797	21.489 <-
84 Pentachlorobenzene	0.54885 ++++	0.54563	0.55415	0.56062	0.57557	0.60065	0.56425	3.677 <-
85 4-Nitrophenol	0.14302 0.19983	0.17472	0.17371	0.19395	0.19267	0.21835	0.18518	12.980
86 Dibenzofuran	1.38605 1.47964	1.39610	1.35936	1.41361	1.48098	1.48381	1.42851	3.647
87 2,4-Dinitrotoluene	0.31935 0.36878	0.34161	0.33180	0.35207	0.35904	0.37365	0.34947	5.647
88 2,3,4,6-Tetrachlorophenol	0.25167 ++++	0.28701	0.30953	0.30131	0.31649	0.33775	0.30063	9.745 <-
89 1-Naphthylamine	0.95817 ++++	1.03015	0.99333	1.02700	1.04339	1.09327	1.02422	4.473 <-
90 Zinophos	0.41584 ++++	0.43350	0.42520	0.42513	0.42707	0.43319	0.42665	1.523 <-
91 2,3,5,6-Tetrachlorophenol	0.24514 0.32903	0.27481	0.28394	0.30198	0.31689	0.33055	0.29748	10.562
92 2-Naphthylamine	0.96668 ++++	1.02840	0.97875	0.97014	0.98959	1.04474	0.99638	3.265 <-

STL - North Canton

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	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
93 Diethylphthalate	1.32953 1.35778	1.34833	1.30473	1.35203	1.40673	1.38484	1.35485	2.485
94 Fluorene	1.15417 1.33677	1.19173	1.17993	1.26457	1.32601	1.34623	1.25706	6.489
95 4-Chlorophenyl-phenylether	0.63418 0.72509	0.64402	0.63756	0.67851	0.71953	0.72144	0.68005	6.153
96 4-Nitroaniline	0.16040 0.19589	0.17935	0.17179	0.19227	0.18978	0.21741	0.18670	9.867
97 5-Nitro-o-toluidine	0.29046 *****	0.31687	0.32006	0.30836	0.32029	0.34112	0.31619	5.248<-
98 4,6-Dinitro-2-methylphenol	***** 0.14995	0.11090	0.12136	0.13356	0.14308	0.14844	0.13455	11.692<-
99 N-Nitrosodiphenylamine	0.54780 0.59610	0.55305	0.55785	0.56660	0.60637	0.57271	0.57150	3.870
100 1,2-Diphenylhydrazine	1.23181 1.22671	1.22888	1.21488	1.21852	1.29793	1.17948	1.22832	2.883
101 Diphenylamine	0.54780 0.59610	0.55305	0.55785	0.56660	0.60637	0.57271	0.57150	3.870
102 Tetraethyl dithiopyrophosphat	0.12354 *****	0.12910	0.13024	0.13311	0.13799	0.14004	0.13234	4.584<-

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
103 Diallate 1	1.00828	1.00368	0.96954	1.00108	1.01267	1.00773		
	++++						1.00050	1.568 <-
M 189 Diallate, Total	4.20484	4.47275	4.28106	4.30684	4.28703	4.36493		
	++++						4.31958	2.106 <-
104 Phorate	0.19429	0.18945	0.18645	0.19487	0.20007	0.20515		
	++++						0.19505	3.501 <-
105 1,3,5-Trinitrobenzene	0.06480	0.08574	0.09029	0.09060	0.10049	0.10503		
	++++						0.08949	15.710 <-
106 4-Bromophenyl-phenylether	0.21986	0.22322	0.22779	0.23580	0.25561	0.24211		
	0.25624						0.23723	6.234
107 Hexachlorobenzene	0.21722	0.21735	0.22225	0.22925	0.25048	0.23800		
	0.24998						0.23208	6.185
108 Phenacetin	0.42326	0.46272	0.46438	0.45600	0.48651	0.49259		
	++++						0.46424	5.319 <-
109 Diallate 2	0.16344	0.16190	0.15750	0.16129	0.16322	0.16101		
	++++						0.16139	1.332 <-
110 Dimethoate	0.41062	0.42403	0.41814	0.40828	0.41223	0.40357		
	++++						0.41281	1.765 <-
111 Pentachlorophenol	0.08748	0.10987	0.12072	0.12964	0.13760	0.14630		
	0.14479						0.12520	16.882

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
112 Pentachloronitrobenzene	0.12847 ++++	0.12895	0.12725	0.12913	0.12951	0.13116	0.12908	0.395<-
113 4-Aminobiphenyl	0.72106 ++++	0.72457	0.73450	0.74885	0.76649	0.79552	0.74850	3.805<-
114 Pronamide	0.39632 ++++	0.40521	0.39952	0.40597	0.41529	0.41647	0.40646	2.002<-
115 Phenanthrene	1.02221 1.11187	1.02125	1.02145	1.04085	1.09570	1.07949	1.05612	3.672
116 Anthracene	0.96682 1.10758	1.00311	1.00169	1.02888	1.08050	1.07676	1.03791	4.950
117 Dinoseb	0.15964 ++++	0.19915	0.22296	0.22866	0.25292	0.26897	0.22205	17.579<-
118 Disulfoton	0.64010 ++++	0.61597	0.60824	0.62324	0.63423	0.64010	0.62698	2.120<-
119 Carbazole	0.74447 0.83147	0.77248	0.75798	0.78532	0.80143	0.84641	0.79137	4.741
120 Di-n-Butylphthalate	1.28599 1.39071	1.32069	1.34323	1.34915	1.43310	1.35555	1.35406	3.501
121 4-Nitroquinoline 1-oxide	0.04255 ++++	0.05697	0.06198	0.06438	0.08258	0.08702	0.06591	25.080<-

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
122 Methapyrilene	0.11393 ++++	0.13496	0.10370	0.18391	0.18425	0.19067	0.15191	25.709<-
123 Fluoranthene	1.01586 1.12807	1.05065	1.03836	1.06696	1.07485	1.16291	1.07681	4.798
124 Benzidine	0.39682 0.59850	0.49511	0.48745	0.54332	0.57844	0.57735	0.52529	13.477
125 Pyrene	1.50149 1.49524	1.50367	1.52314	1.46031	1.51301	1.49464	1.49879	1.317
126 Aramite 1	0.08772 ++++	0.10208	0.10877	0.11126	0.09717	0.09910	0.10102	8.416<-
M 191 Aramite, Total	0.59367 ++++	0.70312	0.69400	0.65113	0.65760	0.66159	0.66019	5.867<-
127 Aramite 2	0.12856 ++++	0.14432	0.15331	0.15573	0.13862	0.13896	0.14325	7.075<-
128 p-Dimethylamino azobenzene	0.30419 ++++	0.32952	0.35322	0.35681	0.34945	0.36414	0.34289	6.483<-
129 p-Chlorobenzilate	0.65437 ++++	0.67264	0.71061	0.70424	0.62812	0.62782	0.66630	5.421<-
130 Famphur	0.67432 ++++	0.67676	0.62291	0.54524	0.36942	0.28362	0.52871	31.389<-

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	* RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
131 Butylbenzylphthalate	0.67252 0.66806	0.70042	0.71066	0.67436	0.68056	0.64352	0.67859	3.242
132 3,3'-Dimethylbenzidine	0.76185 ++++	0.81346	0.71862	0.79849	0.71967	0.69003	0.75036	6.534 <-
133 3,3'-Dimethoxybenzidine	0.15958 0.25650	0.20020	0.19014	0.20399	0.22087	0.21539	0.20667	14.381
134 2-Acetylaminofluorene	0.40122 ++++	0.47000	0.46364	0.51369	0.51320	0.53326	0.48250	9.987 <-
135 3,3'-Dichlorobenzidine	0.36955 0.43998	0.38355	0.37223	0.41870	0.44281	0.43781	0.40923	8.094
136 Benzo(a)Anthracene	1.17480 1.29542	1.19999	1.17911	1.24026	1.28700	1.28632	1.23756	4.294
137 Chrysene	1.06905 1.12413	1.09045	1.06142	1.10787	1.13668	1.10560	1.09931	2.506
138 4,4'-Methylene bis(o-chloroan	0.21245 0.24036	0.21935	0.21289	0.23447	0.24129	0.23707	0.22827	5.650
139 bis(2-ethylhexyl)Phthalate	1.16539 0.99482	1.05975	1.07500	1.02205	1.02740	0.95077	1.04217	6.530
140 Di-n-octylphthalate	1.65679 1.88203	1.83004	1.95554	1.86967	1.80075	1.89872	1.84194	5.180

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
141 Benzo(b)fluoranthene	1.07437 1.26801	1.20250	1.13906	1.19789	1.32040	1.27603	1.21118	7.033
142 Benzo(k)fluoranthene	1.19173 1.41554	1.19209	1.26501	1.35299	1.32258	1.40740	1.30676	7.156
143 7,12-dimethylbenz[a]anthracen	0.62391 ++++	0.67093	0.67426	0.69473	0.74288	0.76446	0.69519	7.386 <-
144 Hexachlorophene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	0.93883 1.12494	1.00303	0.98395	1.04760	1.09451	1.11062	1.04336	6.766
148 3-Methylcholanthrene	0.61665 ++++	0.63684	0.63729	0.67588	0.69748	0.73076	0.66582	6.509 <-
149 Indeno(1,2,3-cd)pyrene	0.90650 1.13291	0.97545	0.96690	1.03448	1.07388	1.09993	1.02715	7.907
150 Dibenz(a,h)anthracene	0.71853 0.94955	0.81130	0.79313	0.85348	0.90265	0.92061	0.84989	9.571
151 Benzo(g,h,i)perylene	0.74984 0.92206	0.83334	0.79938	0.85145	0.89015	0.89454	0.84868	7.078

STL - North Canton

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	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
199 o-Ethylphenol	++++	++++	++++	++++	++++	++++	++++	++++ <-
200 m,p-Ethylphenol	++++	++++	++++	++++	++++	++++	++++	++++ <-
201 3-Picoline	1.50406	1.70811	1.72744	1.80394	1.80961	1.88405		
	++++						1.73954	7.562 <-
202 N,N-Dimethylacetamide	0.97303	1.03592	1.00651	1.04303	1.02978	1.06024		
	++++						1.02475	3.008 <-
203 Benzaldehyde	1.65198	1.65991	1.59997	1.64447	1.60844	1.54831		
	1.50808						1.60302	3.547
204 Caprolactam	0.10202	0.10899	0.11013	0.12039	0.12281	0.12543		
	0.12467						0.11635	7.908
205 1,1'-Biphenyl	1.32778	1.35524	1.32082	1.38170	1.46608	1.46945		
	1.47810						1.39988	4.976
206 Atrazine	0.21710	0.22228	0.21813	0.22004	0.22138	0.20174		
	0.21621						0.21670	3.210
207 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2001 10:57
 End Cal Date : 16-MAR-2001 12:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m
 Cal Date : 16-Mar-2001 12:56 ulmanm
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	† RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
\$ 154 Nitrobenzene-d5	0.56967 0.59474	0.59896	0.58027	0.59315	0.59794	0.58868	0.58906	1.806
\$ 155 2-Fluorobiphenyl	1.26537 1.33690	1.28425	1.23142	1.28001	1.34418	1.32997	1.29602	3.251
\$ 156 Terphenyl-d14	1.05180 1.09047	1.04260	1.05783	1.04301	1.07593	1.06985	1.06164	1.687
\$ 157 Phenol-d5	1.86315 1.92007	1.88827	1.87339	1.91382	1.92500	1.92064	1.90062	1.332
\$ 158 2-Fluorophenol	1.31475 1.39051	1.35257	1.33248	1.36799	1.38740	1.36887	1.35922	2.055
\$ 159 2,4,6-Tribromophenol	0.11846 0.15645	0.13193	0.13081	0.14240	0.14819	0.15944	0.14110	10.538
\$ 186 2-Chlorophenol-d4	1.15679 1.18343	1.15153	1.12470	1.16554	1.17365	1.17521	1.16155	1.689
\$ 187 1,2-Dichlorobenzene-d4	0.88221 0.89890	0.86201	0.85391	0.87197	0.88256	0.88354	0.87645	1.719

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP038

Lab File ID: 8DF0316

DFTPP Injection Date: 03/16/01

Instrument ID: A4HP8

DFTPP Injection Time: 0912

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.6
68	Less than 2.0% of mass 69	0.5 (0.8)1
69	Mass 69 relative abundance	62.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.1
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.0
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	64.7
443	17.0 - 23.0% of mass 442	12.9 (19.9)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	8SM0316	03/16/01	0937
02	ASTD016	ASTD016	8AM0316A	03/16/01	1257
03	DW8R4BLK	DW8R41AA	DW8R41AA	03/16/01	1422
04	DW8R4CHK	DW8R41AC	DW8R41AC	03/16/01	1450
05	MPT-G4-GW66-	DW5X31AA	DW5X31AA	03/16/01	2004
06	MPT-G4-GW67-	DW5OX1AK	DW5OX1AK	03/16/01	2032
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

3-19-01

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 16-MAR-2001 09:37
 Lab File ID: 8SM0316.D Init. Cal. Date(s): 07-MAR-2001 07-MAR-2001
 Analysis Type: Init. Cal. Times: 10:57 13:54
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
9 Pyridine	1.83126	1.75318	0.010	-4.3	50.0
10 N-Nitrosodimethylamine	1.25454	1.23430	0.010	-1.6	50.0
11 Ethyl methacrylate	1.82370	1.74359	0.010	-4.4	50.0
12 3-Chloropropionitrile	0.73867	0.70683	0.010	-4.3	50.0
13 Malononitrile	1.82693	1.72071	0.010	-5.8	50.0
203 Benzaldehyde	1.60302	1.53307	0.010	-4.4	50.0
21 Aniline	2.52021	2.40039	0.010	-4.8	50.0
22 Phenol	2.11385	2.02644	0.010	-4.1	20.0
23 bis(2-Chloroethyl)ether	1.59510	1.45259	0.010	-8.9	50.0
24 2-Chlorophenol	1.30725	1.26755	0.010	-3.0	50.0
26 1,3-Dichlorobenzene	1.41450	1.36249	0.010	-3.7	50.0
27 1,4-Dichlorobenzene	1.45080	1.41297	0.010	-2.6	20.0
28 1,2-Dichlorobenzene	1.34499	1.29764	0.010	-3.5	50.0
29 Benzyl Alcohol	1.02494	0.98819	0.010	-3.6	50.0
30 2-Methylphenol	1.45317	1.40835	0.010	-3.1	50.0
31 bis(2-Chloroisopropyl)ether	1.30676	1.24371	0.010	-4.8	50.0
37 Acetophenone	2.24507	2.16923	0.010	-3.4	50.0
32 N-Nitroso-di-n-propylamine	1.58873	1.52430	0.050	-4.1	50.0
192 4-Methylphenol	1.53913	1.48349	0.010	-3.6	50.0
34 Hexachloroethane	0.65108	0.63662	0.010	-2.2	50.0
35 Nitrobenzene	0.58228	0.56634	0.010	-2.7	50.0
41 Isophorone	1.04179	1.00108	0.010	-3.9	50.0
42 2-Nitrophenol	0.18293	0.17627	0.010	-3.6	20.0
43 2,4-Dimethylphenol	0.45837	0.44191	0.010	-3.6	50.0
44 bis(2-Chloroethoxy)methane	0.51536	0.49151	0.010	-4.6	50.0
46 2,4-Toluenediamine	++++	0.04746	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.32130	0.31734	0.010	-1.2	50.0
48 2,4-Dichlorophenol	0.28086	0.27061	0.010	-3.7	20.0
49 Benzoic Acid	0.13185	0.14911	0.010	13.1	50.0
50 1,2,4-Trichlorobenzene	0.30274	0.29667	0.010	-2.0	50.0
51 Naphthalene	1.03220	0.99709	0.010	-3.4	50.0
52 4-Chloroaniline	0.36737	0.35468	0.010	-3.5	50.0
56 Hexachlorobutadiene	0.20395	0.20556	0.010	0.8	20.0
204 Caprolactam	0.11635	0.11053	0.010	-5.0	50.0
57 1,2,3-Trichlorobenzene	0.29499	0.28650	0.010	-2.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 16-MAR-2001 09:37
 Lab File ID: 8SM0316.D Init. Cal. Date(s): 07-MAR-2001 07-MAR-2001
 Analysis Type: Init. Cal. Times: 10:57 13:54
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
59 4-Chloro-3-Methylphenol	0.40282	0.39250	0.010	-2.6	20.0
62 2-Methylnaphthalene	0.66189	0.63139	0.010	-4.6	50.0
63 1-Methylnaphthalene	0.65267	0.61653	0.010	-5.5	50.0
64 Hexachlorocyclopentadiene	16.00000	16.03245	0.050	-0.2	50.0
66 2,4,6-Trichlorophenol	0.36341	0.35692	0.010	-1.8	20.0
67 2,4,5-Trichlorophenol	0.37127	0.36638	0.010	-1.3	50.0
205 1,1'-Biphenyl	1.39988	1.31097	0.010	-6.4	50.0
68 1,2,3,5-Tetrachlorobenzene	0.59659	0.56766	0.010	-4.8	50.0
70 2-Chloronaphthalene	1.04589	1.00010	0.010	-4.4	50.0
73 2-Nitroaniline	0.44937	0.45659	0.010	1.6	50.0
74 1,2,3,4-Tetrachlorobenzene	0.54589	0.52607	0.010	-3.6	50.0
76 Dimethylphthalate	1.24255	1.19197	0.010	-4.1	50.0
78 2,6-Dinitrotoluene	0.26688	0.26531	0.010	-0.6	50.0
79 Acenaphthylene	1.74102	1.65987	0.010	-4.7	50.0
80 1,2-Dinitrobenzene	0.12528	0.12372	0.010	-1.2	50.0
81 3-Nitroaniline	0.21577	0.21943	0.010	1.7	50.0
82 Acenaphthene	1.08880	1.04351	0.010	-4.2	20.0
83 2,4-Dinitrophenol	16.00000	17.31056	0.050	-8.2	50.0
85 4-Nitrophenol	0.18518	0.21293	0.050	15.0	50.0
86 Dibenzofuran	1.42851	1.39022	0.010	-2.7	50.0
87 2,4-Dinitrotoluene	0.34947	0.35148	0.010	0.6	50.0
91 2,3,5,6-Tetrachlorophenol	0.29748	0.31039	0.010	4.3	50.0
93 Diethylphthalate	1.35485	1.32454	0.010	-2.2	50.0
94 Fluorene	1.25706	1.22609	0.010	-2.5	50.0
95 4-Chlorophenyl-phenylether	0.68005	0.65745	0.010	-3.3	50.0
96 4-Nitroaniline	0.18670	0.20497	0.010	9.8	50.0
98 4,6-Dinitro-2-methylphenol	0.13455	0.12654	0.010	-5.9	50.0
99 N-Nitrosodiphenylamine	0.57150	0.53317	0.010	-6.7	20.0
100 1,2-Diphenylhydrazine	1.22832	1.14348	0.010	-6.9	50.0
106 4-Bromophenyl-phenylether	0.23723	0.22253	0.010	-6.2	50.0
107 Hexachlorobenzene	0.23208	0.22500	0.010	-3.0	50.0
206 Atrazine	0.21670	0.21938	0.010	1.2	50.0
111 Pentachlorophenol	16.00000	16.89584	0.010	-5.6	20.0
115 Phenanthrene	1.05612	1.00899	0.010	-4.5	50.0
116 Anthracene	1.03791	1.00296	0.010	-3.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 16-MAR-2001 09:37
 Lab File ID: 8SM0316.D Init. Cal. Date(s): 07-MAR-2001 07-MAR-2001
 Analysis Type: Init. Cal. Times: 10:57 13:54
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
119 Carbazole	0.79137	0.79228	0.010	0.1	50.0
120 Di-n-Butylphthalate	1.35406	1.29387	0.010	-4.4	50.0
123 Fluoranthene	1.07681	1.09374	0.010	1.6	20.0
124 Benzidine	0.52529	0.50812	0.010	-3.3	50.0
125 Pyrene	1.49879	1.39163	0.010	-7.1	50.0
131 Butylbenzylphthalate	0.67859	0.63757	0.010	-6.0	50.0
133 3,3'-Dimethoxybenzidine	0.20667	0.20491	0.010	-0.9	50.0
135 3,3'-Dichlorobenzidins	0.40923	0.41601	0.010	1.7	50.0
136 Benzo(a)Anthracene	1.23756	1.20895	0.010	-2.3	50.0
137 Chrysene	1.09931	1.10319	0.010	0.4	50.0
138 4,4'-Methylene bis(o-chloro	0.22827	0.22169	0.010	-2.9	50.0
139 bis(2-ethylhexyl)Phthalate	1.04217	0.94334	0.010	-9.5	50.0
140 Di-n-octylphthalate	1.84194	1.70819	0.010	-7.3	20.0
141 Benzo(b)fluoranthene	1.21118	1.25006	0.010	3.2	50.0
142 Benzo(k)fluoranthene	1.30676	1.24580	0.010	-4.7	50.0
146 Benzo(a)pyrene	1.04336	1.02654	0.010	-1.6	20.0
149 Indeno(1,2,3-cd)pyrene	1.02715	0.95468	0.010	-7.1	50.0
150 Dibenz(a,h)anthracene	0.84989	0.79278	0.010	-6.7	50.0
151 Benzo(g,h,i)perylene	0.84868	0.78428	0.010	-7.6	50.0
\$ 154 Nitrobenzene-d5	0.58906	0.57487	0.010	-2.4	50.0
\$ 155 2-Fluorobiphenyl	1.29602	1.23743	0.010	-4.5	50.0
\$ 156 Terphenyl-d14	1.06164	0.98351	0.010	-7.4	50.0
\$ 157 Phenol-d5	1.90062	1.82226	0.010	-4.1	50.0
\$ 158 2-Fluorophenol	1.35922	1.32045	0.010	-2.9	50.0
\$ 159 2,4,6-Tribromophenol	0.14110	0.14802	0.010	4.9	50.0
\$ 186 2-Chlorophenol-d4	1.16155	1.13717	0.010	-2.1	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.87645	0.85308	0.010	-2.7	50.0
M 195 Cresols, total	2.99230	2.89184	0.010	-3.4	50.0
101 Diphenylamine	0.57150	0.53317	0.010	-6.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

03-19-01

Instrument ID: a4hp8.i Injection Date: 16-MAR-2001 12:57
 Lab File ID: 8AM0316A.D Init. Cal. Date(s): 07-MAR-2001 16-MAR-2001
 Analysis Type: Init. Cal. Times: 10:57 12:28
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.11361	1.14957	0.010	3.2	50.0
8 Ethyl methanesulfonate	1.54732	1.66461	0.010	7.6	50.0
14 2-Picoline	1.97117	2.03306	0.010	3.1	50.0
15 N-Nitrosomethylethylamine	0.91611	0.95764	0.010	4.5	50.0
16 Methyl methanesulfonate	1.27560	1.32954	0.010	4.2	50.0
18 1,3-Dichloro-2-propanol	2.15926	2.25030	0.010	4.2	50.0
19 N-Nitrosodiethylamine	0.89697	0.92730	0.010	3.4	50.0
25 Pentachloroethane	0.57764	0.62708	0.010	8.6	50.0
36 N-Nitrosopyrrolidine	0.93502	0.98226	0.010	5.1	50.0
37 Acetophenone	2.51117	2.68135	0.010	6.8	50.0
39 o-Toluidine	2.73976	2.85463	0.010	4.2	50.0
40 N-Nitrosopiperidine	0.20405	0.20814	0.010	2.0	50.0
45 O,O,O-Triethyl phosphorothi	0.21526	0.22394	0.010	4.0	50.0
53 a,a-Dimethyl-phenethylamine	16.00000	19.30916	0.010	-20.7	50.0
54 2,6-Dichlorophenol	0.29691	0.30262	0.010	1.9	50.0
55 Hexachloropropene	0.23721	0.25742	0.010	8.5	50.0
58 N-Nitrosodi-n-butylamine	0.39296	0.40450	0.010	2.9	50.0
60 p-Phenylene diamine	0.31137	0.31973	0.010	2.7	50.0
61 Safrole	0.31622	0.32553	0.010	2.9	50.0
65 1,2,4,5-Tetrachlorobenzene	0.64241	0.71453	0.010	11.2	50.0
71 Isosafrole 1	0.15460	0.16772	0.010	8.5	50.0
M 188 Isosafrole, Total	1.20286	1.27961	0.010	6.4	50.0
72 Isosafrole 2	1.04827	1.11188	0.010	6.1	50.0
75 1,4-Naphthoquinone	0.40435	0.44154	0.010	9.2	50.0
84 Pentachlorobenzene	0.56425	0.61793	0.010	9.5	50.0
89 1-Naphthylamine	1.02422	1.04548	0.010	2.1	50.0
92 2-Naphthylamine	0.99638	0.99762	0.010	0.1	50.0
90 Zinophos	0.42665	0.45205	0.010	6.0	50.0
102 Tetraethyl dithiopyrophosph	0.13234	0.14590	0.010	10.3	50.0
103 Diallylate 1	1.00050	1.09942	0.010	9.9	50.0
M 189 Diallylate, Total	4.31958	4.53659	0.010	5.0	50.0
109 Diallylate 2	0.16139	0.17723	0.010	9.8	50.0
104 Phorate	0.19505	0.21185	0.010	8.6	50.0
105 1,3,5-Trinitrobenzene	16.00000	17.98635	0.010	-12.4	50.0
108 Phenacetin	0.46424	0.49562	0.010	6.8	50.0

AP9 2nd Source + Continuing

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp8.i Injection Date: 16-MAR-2001 12:57
 Lab File ID: 8AM0316A.D Init. Cal. Date(s): 07-MAR-2001 16-MAR-2001
 Analysis Type: Init. Cal. Times: 10:57 12:28
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp8.i\10316a.b\82701.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.41281	0.44637	0.010	8.1	50.0
112 Pentachloronitrobenzene	0.12908	0.14397	0.010	11.5	50.0
113 4-Aminobiphenyl	0.74850	0.80440	0.010	7.5	50.0
114 Pronamide	0.40646	0.43288	0.010	6.5	50.0
117 Dinoseb	16.00000	18.58443	0.010	-16.2	50.0
118 Disulfoton	0.62698	0.67538	0.010	7.7	50.0
121 4-Nitroquinoline 1-oxide	16.00000	17.29999	0.010	-8.1	50.0
122 Methapyrilene	16.00000	24.55225	0.010	-53.5	50.0
126 Aramite 1	0.10102	0.11228	0.010	11.2	50.0
M 191 Aramite, Total	0.66019	0.63638	0.010	-3.6	50.0
127 Aramite 2	0.14325	0.15998	0.010	11.7	50.0
128 p-Dimethylamino azobenzene	0.34289	0.37705	0.010	10.0	50.0
129 p-Chlorobenzilate	0.66630	0.75208	0.010	12.9	50.0
130 Famphur	16.00000	20.06753	0.010	-25.4	50.0
132 3,3'-Dimethylbenzidine	0.75036	0.80951	0.010	7.9	50.0
134 2-Acetylaminofluorene	0.48250	0.53830	0.010	11.6	50.0
143 7,12-dimethylbenz[a]anthrac	0.69519	0.71022	0.010	2.2	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.66582	0.72344	0.010	8.7	50.0
193 3-Methylphenol	1.68668	1.76414	0.010	4.6	50.0
69 1,4-Dinitrobenzene	0.18428	0.20366	0.010	10.5	50.0
77 m-Dinitrobenzene	0.20325	0.22589	0.010	11.1	50.0
198 1,4-Dioxane	0.78021	0.81026	0.010	3.9	50.0
88 2,3,4,6-Tetrachlorophenol	0.30063	0.29459	0.010	-2.0	50.0
97 5-Nitro-o-toluidine	0.31619	0.31815	0.010	0.6	50.0
201 3-Picoline	1.73954	1.74276	0.010	0.2	50.0
202 N,N-Dimethylacetamide	1.02475	1.11019	0.010	8.3	50.0



Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: T. HANSEN
FROM: GRETCHEN PHIPPS
SUBJECT: INORGANIC DATA VALIDATION – TAL METALS, TIN AND CYANIDE
CTO 091 – NS MAYPORT
SDG – MP014
SAMPLES: 18/Soils/

DATE: DECEMBER 7, 2000

COPIES: DV FILE

MPT-G4-SU-01-08	MPT-G4-SU-02-05
MPT-G4-SU-03-05	MPT-G4-SU-04-04
MPT-G4-SU-05-04	MPT-G4-SU-06-07
MPT-G4-SU-07-05	MPT-G4-SU-08-04
MPT-G4-SU-09-11	MPT-G4-SU-10-10
MPT-G4-SU-11-06	MPT-G4-SU-12-06
MPT-G4-SU-13-06	MPT-G4-SU-14-09
MPT-G4-SU-15-08	MPT-G4-SU-16-09
MPT-G4-SU-17-08	MPT-G4-SU-DU01

Overview

The sample set for CTO 091, NS Mayport, SDG MP014, consists of eighteen (18) soil environmental samples. One (1) field duplicate pair (MPT-G4-SU-17-08 / MPT-G4-SU-DU01) was included within this SDG.

The samples were analyzed for target analyte list (TAL) metals, tin and cyanide. The samples were collected by Tetra Tech NUS on June 26-29, 2000 and analyzed by Severn Trent Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals analyses, with the exception of mercury, were conducted using SW 846 method 6010B. Mercury analyses were conducted using SW 846 method 7471A. Cyanide analyses were conducted using SW 846 method 9012A.

The data was evaluated based on the following parameters:

- * • Data Completeness
- * • Holding Times
- * • Calibration Verifications
- Laboratory Blank Analyses
- ICP Interference Check Sample Results
- Matrix Spike / Matrix Spike Duplicate Results
- * • Laboratory Duplicate Results
- * • ICP Serial Dilution Results
- Field Duplicate Results
- * • Sample Quantitation
- * • Detection Limits

- * - All quality control criteria were met for this parameter.

MEMO TO: T. HANSEN - PAGE 2
DATE: DECEMBER 7, 2000

Laboratory Blanks

The following contaminants were detected in the laboratory method / preparation quality control blanks at the following maximum concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Antimony	4.5 µg/L	2.25 mg/kg
Barium ⁽¹⁾	0.2 mg/kg	1.0 mg/kg
Beryllium	0.7 µg/L	0.35 mg/kg
Cadmium	0.3 µg/L	0.15 mg/kg
Calcium ⁽¹⁾	40.2 mg/kg	201 mg/kg
Chromium ⁽¹⁾	0.11 mg/kg	0.55 mg/kg
Iron	26.1 µg/L	13.05 mg/kg
Magnesium	51.9 µg/L	25.95 mg/kg
Manganese ⁽¹⁾	0.10 mg/kg	0.50 mg/kg
Potassium ⁽¹⁾	3.1 mg/kg	15.5 mg/kg
Sodium ⁽¹⁾	176 mg/kg	880 mg/kg
Vanadium	0.8 µg/L	0.4 mg/kg
Zinc ⁽¹⁾	1.1 mg/kg	5.5 mg/kg
Tin ⁽¹⁾	1.7 mg/kg	8.5 mg/kg

(1) Maximum concentration present in a soil preparation blank.

An action level of 5X the maximum concentration was used to evaluate for blank contamination. Sample aliquot, percent solids and dilution factors were taken into consideration when evaluation for blank contamination. Positive results less than the blank action level for antimony, beryllium, cadmium, calcium, magnesium, potassium, sodium, zinc and tin were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as all results reported for the remaining analytes were either nondetected or greater than the blank action level.

ICP Interference Check Sample Results

The interfering analyte calcium was present in sample MPT-G4-SU-02-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, manganese, nickel, potassium, sodium and zinc in the affected sample. The positive results reported for chromium, cobalt, copper, manganese, nickel, potassium and zinc were qualified as estimated, "J". The nondetected result reported for sodium was qualified as estimated, "UJ".

The interfering analyte calcium was present in sample MPT-G4-SU-06-07 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, copper, manganese, nickel, potassium, sodium and vanadium in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-08-04 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution.

MEMO TO: T. HANSEN - PAGE 3
DATE: DECEMBER 7, 2000

Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, manganese, nickel, potassium, vanadium and zinc in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-09-11 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, manganese, nickel, potassium, sodium and vanadium in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-11-06 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, nickel, vanadium and zinc in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-13-06 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, nickel and zinc in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-14-09 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cobalt, copper, nickel and vanadium in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-15-08 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, nickel and vanadium in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-16-09 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cobalt, copper, nickel, sodium and vanadium in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

MEMO TO: T. HANSEN - PAGE 4
DATE: DECEMBER 7, 2000

The interfering analyte calcium was present in sample MPT-G4-SU-17-08 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper, nickel and selenium in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-DU01 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for chromium, cobalt, copper and nickel in the affected sample. The positive results reported for the above listed compounds were qualified as estimated, "J".

The interfering analyte calcium was present in samples MPT-G4-SU-05-04 and MPT-G4-SU-12-06 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, manganese, nickel, potassium, selenium, sodium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cobalt, copper, nickel and zinc in the affected samples. The positive results reported for the above listed compounds were qualified as estimated, "J".

Matrix Spike / Matrix Spike Duplicate Results

The Matrix Spike / Matrix Spike Duplicate (MS/MSD) Percent Recoveries (%Rs) for aluminum and iron were >125% quality control limit. The positive results reported for aluminum and iron were qualified as estimated, "J".

Field Duplicate Results

Field duplicate imprecision (RPD >50% for results >5X CRDL) was noted for aluminum, iron and manganese. The positive results reported for aluminum, iron and manganese were qualified as estimated, "J".

Notes

Sample MPT-G4-SU-01-07 was mislabeled by the laboratory as MPT-G4-SU-08. The Form 1s were corrected by the data reviewer.

As noted on the Case Narrative, cyanide analyses on several samples were not prepared in accordance with the laboratory Standard Operating Procedures (SOPs). No validation action was taken on this basis.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

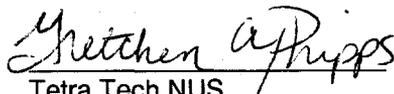
Other Factors Affecting Data Quality: The interfering analyte calcium was present in some samples. Aluminum and iron were qualified due to MS noncompliances. Aluminum, iron and manganese were qualified due to field duplicate imprecision.

MEMO TO: T. HANSEN - PAGE 5
DATE: DECEMBER 7, 2000

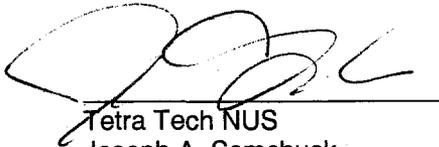
The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual." (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Gretchen A. Phipps



Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Regional Guidelines
4. Appendix D - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05	MPT-G4-SU-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F300248001	A0F300248002	A0F300248003	A0F300248004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	70.3 %	79.9 %	77.1 %	79.5 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1030	J	DG	649	J	DG	259	J	DG	307	J	DG
ANTIMONY	0.44	U		0.39	U		0.40	U		0.39	U	
ARSENIC	1.2			0.70			0.68			1.2		
BARIUM	3.0			6.7			2.8			4.3		
BERYLLIUM	0.03	U		0.03	U		0.03	U		0.03	U	
CADMIUM	0.05	U	A	0.11	U	A	0.04	U		0.04	U	
CALCIUM	13200			83700			5850			4520		
CHROMIUM	3.1			5.1	J	K	2.9			5.0		
COBALT	0.43			0.30	J	K	0.27			0.49		
COPPER	0.94			0.89	J	K	1.0			0.42		
IRON	1800	J	DG	725	J	DG	435	J	DG	471	J	DG
LEAD	1.2			2.0			1.6			3.5		
MAGNESIUM	337			520			72.7			80.7		
MANGANESE	14.7	J	G	11.2	J	GK	7.6	J	G	10.7	J	G
MERCURY	0.01			0.01			0.01	U		0.01	U	
NICKEL	0.63			0.66	J	K	0.23	U		0.26		
POTASSIUM	112			43.1	J	K	25.7			33.8		
SELENIUM	0.70	U		0.61	U		0.64	U		0.62	U	
SILVER	0.14	U		0.13	U		0.13	U		0.13	U	
SODIUM	677	U	A	34.2	UJ	K	35.5	U		34.4	U	
THALLIUM	0.90	U		0.79	U		0.82	U		0.79	U	
TIN	2.2	U	A	1.8	U	A	1.6	U	A	1.2	U	A
VANADIUM	2.5			4.6			1.4			2.3		
ZINC	5.0	U	A	7.2	J	K	2.6	U	A	4.7	U	A

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER:

MPT-G4-SU-05-04

MPT-G4-SU-06-07

MPT-G4-SU-07-05

MPT-G4-SU-08-04

SAMPLE DATE:

06/27/00

06/27/00

06/27/00

06/28/00

LABORATORY ID:

A0F300248005

A0F300248006

A0F300248007

A0G010104001

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

82.3 %

82.8 %

79.1 %

88.5 %

UNITS:

MG/KG

MG/KG

MG/KG

MG/KG

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1730	J	DG	148	J	DG	51.3	J	DG	254	J	DG
ANTIMONY	0.38	U		0.37	U		0.39	U		0.35	U	
ARSENIC	1.5			0.38			0.37	U		0.86		
BARIUM	6.8			6.7			1.7			7.9		
BERYLLIUM	0.02	U		0.07	U	A	0.03	U		0.02	U	
CADMIUM	0.06	U	A	0.04	U		0.04	U		0.05	U	A
CALCIUM	53700			264000			159	U	A	88800		
CHROMIUM	5.9			1.1	J	K	0.70			1.8	J	K
COBALT	0.72	J	K	0.09	U		0.09	U		0.10	J	K
COPPER	1.5	J	K	1.5	J	K	0.32			1.7	J	K
IRON	2050	J	DG	349	J	DG	48.4	J	DG	426	J	DG
LEAD	3.5			0.21	U		0.85			12.6		
MAGNESIUM	514			262			11.1	U	A	110		
MANGANESE	26.3	J	G	15.5	J	GK	1.4	J	G	9.1	J	GK
MERCURY	0.01	U		0.01			0.01	U		0.02		
NICKEL	1.1	J	K	0.22	J	K	0.23	U		0.49	J	K
POTASSIUM	153			33.5	J	K	8.1	U	A	25.5	J	K
SELENIUM	0.60	U		0.59	U		0.62	U		0.55	U	
SILVER	0.12	U		0.12	U		0.13	U		0.11	U	
SODIUM	521	U	A	3100	J	K	34.6	U		775	U	A
THALLIUM	0.77	U		0.76	U		0.80	U		0.71	U	
TIN	1.5	U	A	2.0	U	A	1.6	U	A	1.9	U	A
VANADIUM	5.5			0.98	J	K	0.70			2.0	J	K
ZINC	9.8	J	K	3.0	U	A	2.0	U	A	9.8	J	K

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER:

MPT-G4-SU-09-11

MPT-G4-SU-10-10

MPT-G4-SU-11-06

MPT-G4-SU-12-06

SAMPLE DATE:

06/28/00

06/28/00

06/28/00

06/28/00

LABORATORY ID:

A0G010104002

A0G010104003

A0G010104004

A0G010104005

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

86.9 %

80.7 %

84.8 %

85.6 %

UNITS:

MG/KG

MG/KG

MG/KG

MG/KG

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	215	J	DG	402	J	DG	785	J	DG	1370	J	DG
ANTIMONY	0.36	U		0.38	U		0.37	U		0.36	U	
ARSENIC	0.72			0.57			1.0			2.5		
BARIUM	3.3			2.7			5.1			4.5		
BERYLLIUM	0.03	U	A	0.03	U		0.02	U		0.04	U	A
CADMIUM	0.04	U		0.04	U		0.07	U	A	0.05	U	A
CALCIUM	131000			18000			72900			40200		
CHROMIUM	2.1	J	K	2.2			3.8	J	K	4.0		
COBALT	0.14	J	K	0.18			0.32	J	K	0.32	J	K
COPPER	0.27	J	K	0.24			1.9	J	K	1.4	J	K
IRON	522	J	DG	781	J	DG	1340	J	DG	1610	J	DG
LEAD	0.35			0.78			4.2			2.6		
MAGNESIUM	553			274			782			488		
MANGANESE	20.9	J	GK	10.9	J	G	31.7	J	G	19.3	J	G
MERCURY	0.01	U		0.01	U		0.01			0.01		
NICKEL	0.68	J	K	0.28			0.95	J	K	1.1	J	K
POTASSIUM	39.9	J	K	54.0			94.8			126		
SELENIUM	0.56	U		0.61	U		0.58	U		0.57	U	
SILVER	0.12	U		0.12	U		0.12	U		0.12	U	
SODIUM	1250	J	K	358	U	A	425	U	A	384	U	A
THALLIUM	0.73	U		0.78	U		0.74	U		0.74	U	
TIN	1.9	U	A	1.8	U	A	1.9	U	A	1.6	U	A
VANADIUM	0.76	J	K	1.3			3.0	J	K	3.5		
ZINC	2.8	U	A	3.2	U	A	10.9	J	K	8.0	J	K

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER: MPT-G4-SU-13-06
 SAMPLE DATE: 06/29/00
 LABORATORY ID: AOG010105001
 QC_TYPE: NORMAL
 % SOLIDS: 81.6 %
 UNITS: MG/KG
 FIELD DUPLICATE OF:

MPT-G4-SU-14-09
 06/29/00
 AOG010105002
 NORMAL
 77.6 %
 MG/KG

MPT-G4-SU-15-08
 06/29/00
 AOG010105003
 NORMAL
 91.8 %
 MG/KG

MPT-G4-SU-16-09
 06/29/00
 AOG010105004
 NORMAL
 86.8 %
 MG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	892	J	DG	916	J	DG	367	J	DG	449	J	DG
ANTIMONY	0.38	U		0.40	U		0.38	U	A	0.36	U	
ARSENIC	0.79			1.2			0.61			0.77		
BARIUM	4.8			5.0			2.4			5.3		
BERYLLIUM	0.04	U	A	0.04	U	A	0.03	U	A	0.07	U	A
CADMIUM	0.06	U	A	0.09	U	A	0.03	U		0.04	U	
CALCIUM	68200			89900			38600			42300		
CHROMIUM	3.9	J	K	6.6			1.9	J	K	4.0		
COBALT	0.31	J	K	0.36	J	K	0.13	J	K	0.26	J	K
COPPER	2.5	J	K	0.81	J	K	0.30	J	K	0.42	J	K
IRON	1170	J	DG	1460	J	DG	687	J	DG	950	J	DG
LEAD	4.7			1.6			0.69			0.78		
MAGNESIUM	660			683			226			345		
MANGANESE	24.3	J	G	35.2	J	G	12.4	J	G	19.3	J	G
MERCURY	0.01			0.01			0.01	U		0.01		
NICKEL	1.1	J	K	0.87	J	K	0.36	J	K	0.54	J	K
POTASSIUM	90.4			114			44.4			64.8		
SELENIUM	0.60	U		0.63	U		0.53	U		0.57	U	
SILVER	0.12	U		0.13	U		0.11	U		0.12	U	
SODIUM	698	U	A	765	U	A	109	U	A	1110	J	K
THALLIUM	0.77	U		0.81	U		0.69	U		0.73	U	
TIN	1.7	U	A	1.8	U	A	1.7	U	A	1.7	U	A
VANADIUM	3.0			3.4	J	K	1.3	J	K	1.8	J	K
ZINC	13.6	J	K	5.4	U	A	2.6	U	A	3.3	U	A

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER:

MPT-G4-SU-17-08

MPT-G4-SU-DU01

SAMPLE DATE:

06/29/00

06/29/00

LABORATORY ID:

A0G010105005

A0G010105005

QC_TYPE:

NORMAL

NORMAL

% SOLIDS:

92.8 %

88.4 %

100.0 %

100.0 %

UNITS:

MG/KG

MG/KG

FIELD DUPLICATE OF:

MPT-G4-SU-17-08

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	2680	J	DG	907	J	DG						
ANTIMONY	0.33	U		0.40	U	A						
ARSENIC	0.89			1.4								
BARIUM	6.0			6.1								
BERYLLIUM	0.02	U		0.10	U	A						
CADMIUM	0.11	U	A	0.07	U	A						
CALCIUM	49900			75300								
CHROMIUM	3.2	J	K	3.5	J	K						
COBALT	0.22	J	K	0.57	J	K						
COPPER	0.78	J	K	1.3	J	K						
IRON	701	J	DG	1330	J	DG						
LEAD	1.5			1.4								
MAGNESIUM	203			249								
MANGANESE	11.2	J	G	20.4	J	G						
MERCURY	0.01			0.01								
NICKEL	0.57	J	K	1.0	J	K						
POTASSIUM	63.5			74.8								
SELENIUM	0.76	J	K	0.55	U							
SILVER	0.11	U		0.11	U							
SODIUM	545	U	A	771	U	A						
THALLIUM	0.68	U		0.71	U							
TIN	1.6	U	A	1.6	U	A						
VANADIUM	3.7			4.1								
ZINC	3.3	U	A	3.8	U	A						

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER:

MPT-G4-SU-01-08

MPT-G4-SU-02-05

MPT-G4-SU-03-05

MPT-G4-SU-04-04

SAMPLE DATE:

06/26/00

06/27/00

06/27/00

06/27/00

LABORATORY ID:

A0F300248001

A0F300248002

A0F300248003

A0F300248004

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

70.0 %

80.0 %

77.0 %

80.0 %

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.71	U		0.63	U		0.65	U		0.63	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05	MPT-G4-SU-08-04
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F300248005	A0F300248006	A0F300248007	A0G010104001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	83.0 %	79.0 %	88.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.61	U		0.60	U		0.63	U		0.56	U	

CTO091-NS MAYPORT

**SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06	MPT-G4-SU-12-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104002	A0G010104003	A0G010104004	A0G010104005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	81.0 %	85.0 %	86.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.58	U		0.62	U		0.59	U		0.58	U	

CTO091-NS MAYPORT

**SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.61	U		0.64	U		0.54	U		0.58	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER:

MPT-G4-SU-17-08

MPT-G4-SU-DU01

SAMPLE DATE:

06/29/00

06/29/00

//

//

LABORATORY ID:

A0G010105005

A0G010105006

QC_TYPE:

NORMAL

NORMAL

% SOLIDS:

92.8 %

88.0 %

100.0 %

100.0 %

FIELD DUPLICATE OF:

MPT-G4-SU-17-08

	RESULT	QUAL	CODE									
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INORGANICS

CYANIDE(MG/KG)

0.54

U

0.57

U

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFL4J Client ID: MPT-G4-SU-01-07 *GP9-11-00*
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 29.7

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	6.2	28.5	1030	N	1	ICPST	7/12/2000	14:43
Antimony	206.84	0.44	1.4	0.44	U	1	ICPST	7/12/2000	14:43
Arsenic	189.04	0.41	1.4	1.2	B	1	ICPST	7/12/2000	14:43
Barium	493.41	0.043	28.5	3.0	B	1	ICPST	7/12/2000	14:43
Beryllium	313.04	0.028	0.71	0.028	U	1	ICPST	7/12/2000	14:43
Cadmium	226.50	0.043	0.28	0.049	B	1	ICPST	7/12/2000	14:43
Calcium	317.93	3.2	711	13200		1	ICPST	7/12/2000	14:43
Chromium	267.72	0.11	1.4	3.1		1	ICPST	7/12/2000	14:43
Cobalt	228.62	0.10	7.1	0.43	B	1	ICPST	7/12/2000	14:43
Copper	324.75	0.24	3.6	0.94	B	1	ICPST	7/12/2000	14:43
Iron	271.44	2.1	14.2	1800	N*	1	ICPST	7/12/2000	14:43
Lead	220.35	0.24	0.43	1.2		1	ICPST	7/12/2000	14:43
Magnesium	279.08	1.6	711	337	B	1	ICPST	7/12/2000	14:43
Manganese	257.61	0.043	2.1	14.7	L	1	ICPST	7/12/2000	14:43
Mercury	253.7	0.0088	0.14	0.0098	B	1	CVAA	7/12/2000	14:38
Nickel	231.60	0.26	5.7	0.63	B	1	ICPST	7/12/2000	14:43
Potassium	766.49	2.8	711	112	B	1	ICPST	7/12/2000	14:43
Selenium	196.03	0.70	0.71	0.70	U	1	ICPST	7/12/2000	14:43
Silver	328.07	0.14	0.71	0.14	U	1	ICPST	7/12/2000	14:43
Thallium	190.86	0.90	1.4	0.90	U	1	ICPST	7/12/2000	14:43
Tin	189.99	0.54	14.2	2.2	B	1	ICPST	7/12/2000	14:43
Vanadium	292.40	0.11	7.1	2.5	B	1	ICPST	7/12/2000	14:43
Zinc	213.86	0.19	2.8	5.0		1	ICPST	7/12/2000	14:43

Comments: Lot #: A0F300248 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFL4J Client ID: MPT-G4-SU-01-07 *GP 9-11-00*
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 29.7

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	38.9	711	677	B	1	ICPST	7/21/2000	16:30

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM08 Client ID: MPT-G4-SU-02-05
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 20.1

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.4	25.0	649	N	1	ICPST	7/12/2000	14:53
Antimony	206.84	0.39	1.3	0.39	U	1	ICPST	7/12/2000	14:53
Arsenic	189.04	0.36	1.3	0.70	B	1	ICPST	7/12/2000	14:53
Barium	493.41	0.038	25.0	6.7	B	1	ICPST	7/12/2000	14:53
Beryllium	313.04	0.025	0.63	0.025	U	1	ICPST	7/12/2000	14:53
Cadmium	226.50	0.038	0.25	0.11	B	1	ICPST	7/12/2000	14:53
Calcium	317.93	14.0	3130	83700		5	ICPST	7/13/2000	9:54
Chromium	267.72	0.10	1.3	5.1		1	ICPST	7/12/2000	14:53
Cobalt	228.62	0.088	6.3	0.30	B	1	ICPST	7/12/2000	14:53
Copper	324.75	0.21	3.1	0.89	B	1	ICPST	7/12/2000	14:53
Iron	271.44	1.9	12.5	725	N*	1	ICPST	7/12/2000	14:53
Lead	220.35	0.21	0.38	2.0		1	ICPST	7/12/2000	14:53
Magnesium	279.08	1.4	626	520	B	1	ICPST	7/12/2000	14:53
Manganese	257.61	0.038	1.9	11.2	L	1	ICPST	7/12/2000	14:53
Mercury	253.7	0.0077	0.13	0.0083	B	1	CVAA	7/12/2000	14:33
Nickel	231.60	0.23	5.0	0.66	B	1	ICPST	7/12/2000	14:53
Potassium	766.49	2.5	626	43.1	B	1	ICPST	7/12/2000	14:53
Selenium	196.03	0.61	0.63	0.61	U	1	ICPST	7/12/2000	14:53
Silver	328.07	0.13	0.63	0.13	U	1	ICPST	7/12/2000	14:53
Thallium	190.86	0.79	1.3	0.79	U	1	ICPST	7/12/2000	14:53
Tin	189.99	0.48	12.5	1.8	B	1	ICPST	7/12/2000	14:53
Vanadium	292.40	0.10	6.3	4.6	B	1	ICPST	7/12/2000	14:53
Zinc	213.86	0.16	2.5	7.2		1	ICPST	7/12/2000	14:53

Comments: Lot #: A0F300248 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM08 **Client ID:** MPT-G4-SU-02-05
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 20.1

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	34.2	626	34.2	U	1	ICPST	7/21/2000	16:40

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM09 Client ID: MPT-G4-SU-03-05
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 22.9

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.6	25.9	259	N	1	ICPST	7/12/2000	14:57
Antimony	206.84	0.40	1.3	0.40	U	1	ICPST	7/12/2000	14:57
Arsenic	189.04	0.38	1.3	0.68	B	1	ICPST	7/12/2000	14:57
Barium	493.41	0.039	25.9	2.8	B	1	ICPST	7/12/2000	14:57
Beryllium	313.04	0.026	0.65	0.026	U	1	ICPST	7/12/2000	14:57
Cadmium	226.50	0.039	0.26	0.039	U	1	ICPST	7/12/2000	14:57
Calcium	317.93	2.9	649	5850		1	ICPST	7/12/2000	14:57
Chromium	267.72	0.10	1.3	2.9		1	ICPST	7/12/2000	14:57
Cobalt	228.62	0.091	6.5	0.27	B	1	ICPST	7/12/2000	14:57
Copper	324.75	0.22	3.2	1.0	B	1	ICPST	7/12/2000	14:57
Iron	271.44	1.9	13.0	435	N*	1	ICPST	7/12/2000	14:57
Lead	220.35	0.22	0.39	1.6		1	ICPST	7/12/2000	14:57
Magnesium	279.08	1.5	649	72.7	B	1	ICPST	7/12/2000	14:57
Manganese	257.61	0.039	2.0	7.6	L	1	ICPST	7/12/2000	14:57
Mercury	253.7	0.0080	0.13	0.0080	U	1	CVAA	7/12/2000	14:37
Nickel	231.60	0.23	5.2	0.23	U	1	ICPST	7/12/2000	14:57
Potassium	766.49	2.6	649	25.7	B	1	ICPST	7/12/2000	14:57
Selenium	196.03	0.64	0.65	0.64	U	1	ICPST	7/12/2000	14:57
Silver	328.07	0.13	0.65	0.13	U	1	ICPST	7/12/2000	14:57
Thallium	190.86	0.82	1.3	0.82	U	1	ICPST	7/12/2000	14:57
Tin	189.99	0.49	13.0	1.6	B	1	ICPST	7/12/2000	14:57
Vanadium	292.40	0.10	6.5	1.4	B	1	ICPST	7/12/2000	14:57
Zinc	213.86	0.17	2.6	2.6	B	1	ICPST	7/12/2000	14:57

Comments: Lot #: A0F300248 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM09 **Client ID:** MPT-G4-SU-03-05
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 22.9

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	35.5	649	35.5	U	1	ICPST	7/21/2000	16:45

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0A Client ID: MPT-G4-SU-04-04
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 20.5

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.5	25.2	307	N	1	ICPST	7/12/2000	15:02
Antimony	206.84	0.39	1.3	0.39	U	1	ICPST	7/12/2000	15:02
Arsenic	189.04	0.37	1.3	1.2	B	1	ICPST	7/12/2000	15:02
Barium	493.41	0.038	25.2	4.3	B	1	ICPST	7/12/2000	15:02
Beryllium	313.04	0.025	0.63	0.025	U	1	ICPST	7/12/2000	15:02
Cadmium	226.50	0.038	0.25	0.038	U	1	ICPST	7/12/2000	15:02
Calcium	317.93	2.8	629	4520		1	ICPST	7/12/2000	15:02
Chromium	267.72	0.10	1.3	5.0		1	ICPST	7/12/2000	15:02
Cobalt	228.62	0.088	6.3	0.49	B	1	ICPST	7/12/2000	15:02
Copper	324.75	0.21	3.1	0.42	B	1	ICPST	7/12/2000	15:02
Iron	271.44	1.9	12.6	471	N*	1	ICPST	7/12/2000	15:02
Lead	220.35	0.21	0.38	3.5		1	ICPST	7/12/2000	15:02
Magnesium	279.08	1.4	629	80.7	B	1	ICPST	7/12/2000	15:02
Manganese	257.61	0.038	1.9	10.7	L	1	ICPST	7/12/2000	15:02
Mercury	253.7	0.0078	0.13	0.0078	U	1	CVAA	7/12/2000	14:10
Nickel	231.60	0.23	5.0	0.26	B	1	ICPST	7/12/2000	15:02
Potassium	766.49	2.5	629	33.8	B	1	ICPST	7/12/2000	15:02
Selenium	196.03	0.62	0.63	0.62	U	1	ICPST	7/12/2000	15:02
Silver	328.07	0.13	0.63	0.13	U	1	ICPST	7/12/2000	15:02
Thallium	190.86	0.79	1.3	0.79	U	1	ICPST	7/12/2000	15:02
Tin	189.99	0.48	12.6	1.2	B	1	ICPST	7/12/2000	15:02
Vanadium	292.40	0.10	6.3	2.3	B	1	ICPST	7/12/2000	15:02
Zinc	213.86	0.16	2.5	4.7		1	ICPST	7/12/2000	15:02

Comments: Lot #: A0F300248 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0A Client ID: MPT-G4-SU-04-04
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 20.5

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	34.4	629	34.4	U	1	ICPST	7/21/2000	16:50

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0C Client ID: MPT-G4-SU-05-04
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 17.7

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.3	24.3	1730	N	1	ICPST	7/12/2000	15:07
Antimony	206.84	0.38	1.2	0.38	U	1	ICPST	7/12/2000	15:07
Arsenic	189.04	0.35	1.2	1.5		1	ICPST	7/12/2000	15:07
Barium	493.41	0.037	24.3	6.8	B	1	ICPST	7/12/2000	15:07
Beryllium	313.04	0.024	0.61	0.024	U	1	ICPST	7/12/2000	15:07
Cadmium	226.50	0.037	0.24	0.056	B	1	ICPST	7/12/2000	15:07
Calcium	317.93	2.7	608	53700		1	ICPST	7/12/2000	15:07
Chromium	267.72	0.097	1.2	5.9		1	ICPST	7/12/2000	15:07
Cobalt	228.62	0.085	6.1	0.72	B	1	ICPST	7/12/2000	15:07
Copper	324.75	0.21	3.0	1.5	B	1	ICPST	7/12/2000	15:07
Iron	271.44	1.8	12.2	2050	N*	1	ICPST	7/12/2000	15:07
Lead	220.35	0.21	0.37	3.5		1	ICPST	7/12/2000	15:07
Magnesium	279.08	1.4	608	514	B	1	ICPST	7/12/2000	15:07
Manganese	257.61	0.037	1.8	26.3	L	1	ICPST	7/12/2000	15:07
Mercury	253.7	0.0075	0.12	0.0075	U	1	CVAA	7/12/2000	14:11
Nickel	231.60	0.22	4.9	1.1	B	1	ICPST	7/12/2000	15:07
Potassium	766.49	2.4	608	153	B	1	ICPST	7/12/2000	15:07
Selenium	196.03	0.60	0.61	0.60	U	1	ICPST	7/12/2000	15:07
Silver	328.07	0.12	0.61	0.12	U	1	ICPST	7/12/2000	15:07
Thallium	190.86	0.77	1.2	0.77	U	1	ICPST	7/12/2000	15:07
Tin	189.99	0.46	12.2	1.5	B	1	ICPST	7/12/2000	15:07
Vanadium	292.40	0.097	6.1	5.5	B	1	ICPST	7/12/2000	15:07
Zinc	213.86	0.16	2.4	9.8		1	ICPST	7/12/2000	15:07

Comments: Lot #: A0F300248 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0C Client ID: MPT-G4-SU-05-04
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 17.7

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	33.2	608	521	B	1	ICPST	7/21/2000	16:55

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0D Client ID: MPT-G4-SU-06-07
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 17.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.3	24.2	148	N	1	ICPST	7/12/2000	15:12
Antimony	206.84	0.37	1.2	0.37	U	1	ICPST	7/12/2000	15:12
Arsenic	189.04	0.35	1.2	0.38	B	1	ICPST	7/12/2000	15:12
Barium	493.41	0.036	24.2	6.7	B	1	ICPST	7/12/2000	15:12
Beryllium	313.04	0.024	0.60	0.070	B	1	ICPST	7/12/2000	15:12
Cadmium	226.50	0.036	0.24	0.036	U	1	ICPST	7/12/2000	15:12
Calcium	317.93	13.5	3020	264000		5	ICPST	7/20/2000	13:06
Chromium	267.72	0.097	1.2	1.1	B	1	ICPST	7/12/2000	15:12
Cobalt	228.62	0.085	6.0	0.085	U	1	ICPST	7/12/2000	15:12
Copper	324.75	0.21	3.0	1.5	B	1	ICPST	7/12/2000	15:12
Iron	271.44	1.8	12.1	349	N*	1	ICPST	7/12/2000	15:12
Lead	220.35	0.21	0.36	0.21	U	1	ICPST	7/12/2000	15:12
Magnesium	279.08	1.4	604	262	B	1	ICPST	7/12/2000	15:12
Manganese	257.61	0.036	1.8	15.5	L	1	ICPST	7/12/2000	15:12
Mercury	253.7	0.0075	0.12	0.0097	B	1	CVAA	7/12/2000	14:12
Nickel	231.60	0.22	4.8	0.22	B	1	ICPST	7/12/2000	15:12
Potassium	766.49	2.4	604	33.5	B	1	ICPST	7/12/2000	15:12
Selenium	196.03	0.59	0.60	0.59	U	1	ICPST	7/12/2000	15:12
Silver	328.07	0.12	0.60	0.12	U	1	ICPST	7/12/2000	15:12
Thallium	190.86	0.76	1.2	0.76	U	1	ICPST	7/12/2000	15:12
Tin	189.99	0.46	12.1	2.0	B	1	ICPST	7/12/2000	15:12
Vanadium	292.40	0.097	6.0	0.98	B	1	ICPST	7/12/2000	15:12
Zinc	213.86	0.16	2.4	3.0		1	ICPST	7/12/2000	15:12

Comments: Lot #: A0F300248 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0D **Client ID:** MPT-G4-SU-06-07
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 17.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	33.0	604	3100		1	ICPST	7/21/2000	17:06

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0E Client ID: MPT-G4-SU-07-05
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 20.9

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.5	25.3	51.3	N	1	ICPST	7/12/2000	15:17
Antimony	206.84	0.39	1.3	0.39	U	1	ICPST	7/12/2000	15:17
Arsenic	189.04	0.37	1.3	0.37	U	1	ICPST	7/12/2000	15:17
Barium	493.41	0.038	25.3	1.7	B	1	ICPST	7/12/2000	15:17
Beryllium	313.04	0.025	0.63	0.025	U	1	ICPST	7/12/2000	15:17
Cadmium	226.50	0.038	0.25	0.038	U	1	ICPST	7/12/2000	15:17
Calcium	317.93	2.8	632	159	B	1	ICPST	7/12/2000	15:17
Chromium	267.72	0.10	1.3	0.70	B	1	ICPST	7/12/2000	15:17
Cobalt	228.62	0.089	6.3	0.089	U	1	ICPST	7/12/2000	15:17
Copper	324.75	0.22	3.2	0.32	B	1	ICPST	7/12/2000	15:17
Iron	271.44	1.9	12.6	48.4	N*	1	ICPST	7/12/2000	15:17
Lead	220.35	0.22	0.38	0.85		1	ICPST	7/12/2000	15:17
Magnesium	279.08	1.4	632	11.1	B	1	ICPST	7/12/2000	15:17
Manganese	257.61	0.038	1.9	1.4	BL	1	ICPST	7/12/2000	15:17
Mercury	253.7	0.0078	0.13	0.0078	U	1	CVAA	7/12/2000	14:13
Nickel	231.60	0.23	5.1	0.23	U	1	ICPST	7/12/2000	15:17
Potassium	766.49	2.5	632	8.1	B	1	ICPST	7/12/2000	15:17
Selenium	196.03	0.62	0.63	0.62	U	1	ICPST	7/12/2000	15:17
Silver	328.07	0.13	0.63	0.13	U	1	ICPST	7/12/2000	15:17
Thallium	190.86	0.80	1.3	0.80	U	1	ICPST	7/12/2000	15:17
Tin	189.99	0.48	12.6	1.6	B	1	ICPST	7/12/2000	15:17
Vanadium	292.40	0.10	6.3	0.70	B	1	ICPST	7/12/2000	15:17
Zinc	213.86	0.16	2.5	2.0	B	1	ICPST	7/12/2000	15:17

Comments: Lot #: A0F300248 Sample #: 7

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0E **Client ID:** MPT-G4-SU-07-05
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 20.9

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	34.6	632	34.6	U	1	ICPST	7/21/2000	17:11

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0F Client ID: MPT-G4-SU-08-04
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 11.5

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.9	22.6	254	N	1	ICPST	7/12/2000	15:33
Antimony	206.84	0.35	1.1	0.35	U	1	ICPST	7/12/2000	15:33
Arsenic	189.04	0.33	1.1	0.86	B	1	ICPST	7/12/2000	15:33
Barium	493.41	0.034	22.6	7.9	B	1	ICPST	7/12/2000	15:33
Beryllium	313.04	0.023	0.57	0.023	U	1	ICPST	7/12/2000	15:33
Cadmium	226.50	0.034	0.23	0.052	B	1	ICPST	7/12/2000	15:33
Calcium	317.93	12.7	2830	88800		5	ICPST	7/13/2000	10:04
Chromium	267.72	0.090	1.1	1.8		1	ICPST	7/12/2000	15:33
Cobalt	228.62	0.079	5.7	0.10	B	1	ICPST	7/12/2000	15:33
Copper	324.75	0.19	2.8	1.7	B	1	ICPST	7/12/2000	15:33
Iron	271.44	1.7	11.3	426	N*	1	ICPST	7/12/2000	15:33
Lead	220.35	0.19	0.34	12.6		1	ICPST	7/12/2000	15:33
Magnesium	279.08	1.3	565	110	B	1	ICPST	7/12/2000	15:33
Manganese	257.61	0.034	1.7	9.1	L	1	ICPST	7/12/2000	15:33
Mercury	253.7	0.0070	0.11	0.016	B	1	CVAA	7/12/2000	14:14
Nickel	231.60	0.20	4.5	0.49	B	1	ICPST	7/12/2000	15:33
Potassium	766.49	2.2	565	25.5	B	1	ICPST	7/12/2000	15:33
Selenium	196.03	0.55	0.57	0.55	U	1	ICPST	7/12/2000	15:33
Silver	328.07	0.11	0.57	0.11	U	1	ICPST	7/12/2000	15:33
Thallium	190.86	0.71	1.1	0.71	U	1	ICPST	7/12/2000	15:33
Tin	189.99	0.43	11.3	1.9	B	1	ICPST	7/12/2000	15:33
Vanadium	292.40	0.090	5.7	2.0	B	1	ICPST	7/12/2000	15:33
Zinc	213.86	0.15	2.3	9.8		1	ICPST	7/12/2000	15:33

Comments: Lot #: A0G010104 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0F Client ID: MPT-G4-SU-08-04
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 11.5

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	30.9	565	775		1	ICPST	7/21/2000	17:29

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0G Client ID: MPT-G4-SU-09-11
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 13.1

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.0	23.0	215	N	1	ICPST	7/12/2000	15:49
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/12/2000	15:49
Arsenic	189.04	0.33	1.2	0.72	B	1	ICPST	7/12/2000	15:49
Barium	493.41	0.035	23.0	3.3	B	1	ICPST	7/12/2000	15:49
Beryllium	313.04	0.023	0.58	0.027	B	1	ICPST	7/12/2000	15:49
Cadmium	226.50	0.035	0.23	0.035	U	1	ICPST	7/12/2000	15:49
Calcium	317.93	12.9	2880	131000		5	ICPST	7/13/2000	10:20
Calcium	317.93	2.6	575	108000		1	ICPST	7/12/2000	15:49
Chromium	267.72	0.092	1.2	2.1		1	ICPST	7/12/2000	15:49
Cobalt	228.62	0.081	5.8	0.14	B	1	ICPST	7/12/2000	15:49
Copper	324.75	0.20	2.9	0.27	B	1	ICPST	7/12/2000	15:49
Iron	271.44	1.7	11.5	522	N*	1	ICPST	7/12/2000	15:49
Lead	220.35	0.20	0.35	0.35		1	ICPST	7/12/2000	15:49
Magnesium	279.08	1.3	575	553	B	1	ICPST	7/12/2000	15:49
Manganese	257.61	0.035	1.7	20.9	L	1	ICPST	7/12/2000	15:49
Mercury	253.7	0.0071	0.12	0.0071	U	1	CVAA	7/12/2000	14:18
Nickel	231.60	0.21	4.6	0.68	B	1	ICPST	7/12/2000	15:49
Potassium	766.49	2.3	575	39.9	B	1	ICPST	7/12/2000	15:49
Selenium	196.03	0.56	0.58	0.56	U	1	ICPST	7/12/2000	15:49
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/12/2000	15:49
Thallium	190.86	0.73	1.2	0.73	U	1	ICPST	7/12/2000	15:49
Tin	189.99	0.44	11.5	1.9	B	1	ICPST	7/12/2000	15:49
Vanadium	292.40	0.092	5.8	0.76	B	1	ICPST	7/12/2000	15:49
Zinc	213.86	0.15	2.3	2.8		1	ICPST	7/12/2000	15:49

Comments: Lot #: A0G010104 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0G **Client ID:** MPT-G4-SU-09-11
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 13.1

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	31.5	575	1250		1	ICPST	7/21/2000	17:45

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0H Client ID: MPT-G4-SU-10-10
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 19.3

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.4	24.8	402	N	1	ICPST	7/12/2000	15:54
Antimony	206.84	0.38	1.2	0.38	U	1	ICPST	7/12/2000	15:54
Arsenic	189.04	0.36	1.2	0.57	B	1	ICPST	7/12/2000	15:54
Barium	493.41	0.037	24.8	2.7	B	1	ICPST	7/12/2000	15:54
Beryllium	313.04	0.025	0.62	0.025	U	1	ICPST	7/12/2000	15:54
Cadmium	226.50	0.037	0.25	0.037	U	1	ICPST	7/12/2000	15:54
Calcium	317.93	2.8	620	18000		1	ICPST	7/12/2000	15:54
Chromium	267.72	0.099	1.2	2.2		1	ICPST	7/12/2000	15:54
Cobalt	228.62	0.087	6.2	0.18	B	1	ICPST	7/12/2000	15:54
Copper	324.75	0.21	3.1	0.24	B	1	ICPST	7/12/2000	15:54
Iron	271.44	1.9	12.4	781	N*	1	ICPST	7/12/2000	15:54
Lead	220.35	0.21	0.37	0.78		1	ICPST	7/12/2000	15:54
Magnesium	279.08	1.4	620	274	B	1	ICPST	7/12/2000	15:54
Manganese	257.61	0.037	1.9	10.9	L	1	ICPST	7/12/2000	15:54
Mercury	253.7	0.0076	0.12	0.0076	U	1	CVAA	7/12/2000	14:22
Nickel	231.60	0.22	5.0	0.28	B	1	ICPST	7/12/2000	15:54
Potassium	766.49	2.5	620	54.0	B	1	ICPST	7/12/2000	15:54
Selenium	196.03	0.61	0.62	0.61	U	1	ICPST	7/12/2000	15:54
Silver	328.07	0.12	0.62	0.12	U	1	ICPST	7/12/2000	15:54
Thallium	190.86	0.78	1.2	0.78	U	1	ICPST	7/12/2000	15:54
Tin	189.99	0.47	12.4	1.8	B	1	ICPST	7/12/2000	15:54
Vanadium	292.40	0.099	6.2	1.3	B	1	ICPST	7/12/2000	15:54
Zinc	213.86	0.16	2.5	3.2		1	ICPST	7/12/2000	15:54

Comments: Lot #: A0G010104 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0H **Client ID:** MPT-G4-SU-10-10
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.3

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	33.9	620	358	B	1	ICPST	7/21/2000	17:50

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0J Client ID: MPT-G4-SU-11-06
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 15.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.1	23.6	785	N	1	ICPST	7/12/2000	15:59
Antimony	206.84	0.37	1.2	0.37	U	1	ICPST	7/12/2000	15:59
Arsenic	189.04	0.34	1.2	1.0	B	1	ICPST	7/12/2000	15:59
Barium	493.41	0.035	23.6	5.1	B	1	ICPST	7/12/2000	15:59
Beryllium	313.04	0.024	0.59	0.024	U	1	ICPST	7/12/2000	15:59
Cadmium	226.50	0.035	0.24	0.069	B	1	ICPST	7/12/2000	15:59
Calcium	317.93	13.2	2950	72900		5	ICPST	7/13/2000	10:25
Chromium	267.72	0.094	1.2	3.8		1	ICPST	7/12/2000	15:59
Cobalt	228.62	0.083	5.9	0.32	B	1	ICPST	7/12/2000	15:59
Copper	324.75	0.20	3.0	1.9	B	1	ICPST	7/12/2000	15:59
Iron	271.44	1.8	11.8	1340	N*	1	ICPST	7/12/2000	15:59
Lead	220.35	0.20	0.35	4.2		1	ICPST	7/12/2000	15:59
Magnesium	279.08	1.3	590	782		1	ICPST	7/12/2000	15:59
Manganese	257.61	0.035	1.8	31.7	L	1	ICPST	7/12/2000	15:59
Mercury	253.7	0.0073	0.12	0.012	B	1	CVAA	7/12/2000	14:23
Nickel	231.60	0.21	4.7	0.95	B	1	ICPST	7/12/2000	15:59
Potassium	766.49	2.3	590	94.8	B	1	ICPST	7/12/2000	15:59
Selenium	196.03	0.58	0.59	0.58	U	1	ICPST	7/12/2000	15:59
Silver	328.07	0.12	0.59	0.12	U	1	ICPST	7/12/2000	15:59
Thallium	190.86	0.74	1.2	0.74	U	1	ICPST	7/12/2000	15:59
Tin	189.99	0.45	11.8	1.9	B	1	ICPST	7/12/2000	15:59
Vanadium	292.40	0.094	5.9	3.0	B	1	ICPST	7/12/2000	15:59
Zinc	213.86	0.15	2.4	10.9		1	ICPST	7/12/2000	15:59

Comments: Lot #: A0G010104 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0J **Client ID:** MPT-G4-SU-11-06
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 15.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	32.3	590	425	B	1	ICPST	7/21/2000	17:55

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0K Client ID: MPT-G4-SU-12-06
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 14.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.1	23.4	1370	N	1	ICPST	7/12/2000	16:03
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/12/2000	16:03
Arsenic	189.04	0.34	1.2	2.5		1	ICPST	7/12/2000	16:03
Barium	493.41	0.035	23.4	4.5	B	1	ICPST	7/12/2000	16:03
Beryllium	313.04	0.023	0.58	0.038	B	1	ICPST	7/12/2000	16:03
Cadmium	226.50	0.035	0.23	0.047	B	1	ICPST	7/12/2000	16:03
Calcium	317.93	2.6	584	40200		1	ICPST	7/12/2000	16:03
Chromium	267.72	0.094	1.2	4.0		1	ICPST	7/12/2000	16:03
Cobalt	228.62	0.082	5.8	0.32	B	1	ICPST	7/12/2000	16:03
Copper	324.75	0.20	2.9	1.4	B	1	ICPST	7/12/2000	16:03
Iron	271.44	1.7	11.7	1610	N*	1	ICPST	7/12/2000	16:03
Lead	220.35	0.20	0.35	2.6		1	ICPST	7/12/2000	16:03
Magnesium	279.08	1.3	584	488	B	1	ICPST	7/12/2000	16:03
Manganese	257.61	0.035	1.8	19.3	L	1	ICPST	7/12/2000	16:03
Mercury	253.7	0.0072	0.12	0.010	B	1	CVAA	7/12/2000	14:24
Nickel	231.60	0.21	4.7	1.1	B	1	ICPST	7/12/2000	16:03
Potassium	766.49	2.3	584	126	B	1	ICPST	7/12/2000	16:03
Selenium	196.03	0.57	0.58	0.57	U	1	ICPST	7/12/2000	16:03
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/12/2000	16:03
Thallium	190.86	0.74	1.2	0.74	U	1	ICPST	7/12/2000	16:03
Tin	189.99	0.44	11.7	1.6	B	1	ICPST	7/12/2000	16:03
Vanadium	292.40	0.094	5.8	3.5	B	1	ICPST	7/12/2000	16:03
Zinc	213.86	0.15	2.3	8.0		1	ICPST	7/12/2000	16:03

Comments: Lot #: A0G010104 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0K Client ID: MPT-G4-SU-12-06
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 14.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	32.0	584	384	B	1	ICPST	7/21/2000	18:00

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0N Client ID: MPT-G4-SU-13-06
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 18.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.3	24.5	892	N	1	ICPST	7/12/2000	16:08
Antimony	206.84	0.38	1.2	0.38	U	1	ICPST	7/12/2000	16:08
Arsenic	189.04	0.36	1.2	0.79	B	1	ICPST	7/12/2000	16:08
Barium	493.41	0.037	24.5	4.8	B	1	ICPST	7/12/2000	16:08
Beryllium	313.04	0.025	0.61	0.041	B	1	ICPST	7/12/2000	16:08
Cadmium	226.50	0.037	0.25	0.062	B	1	ICPST	7/12/2000	16:08
Calcium	317.93	2.8	613	68200		1	ICPST	7/12/2000	16:08
Chromium	267.72	0.098	1.2	3.9		1	ICPST	7/12/2000	16:08
Cobalt	228.62	0.086	6.1	0.31	B	1	ICPST	7/12/2000	16:08
Copper	324.75	0.21	3.1	2.5	B	1	ICPST	7/12/2000	16:08
Iron	271.44	1.8	12.3	1170	N*	1	ICPST	7/12/2000	16:08
Lead	220.35	0.21	0.37	4.7		1	ICPST	7/12/2000	16:08
Magnesium	279.08	1.4	613	660		1	ICPST	7/12/2000	16:08
Manganese	257.61	0.037	1.8	24.3	L	1	ICPST	7/12/2000	16:08
Mercury	253.7	0.0076	0.12	0.014	B	1	CVAA	7/12/2000	14:25
Nickel	231.60	0.22	4.9	1.1	B	1	ICPST	7/12/2000	16:08
Potassium	766.49	2.4	613	90.4	B	1	ICPST	7/12/2000	16:08
Selenium	196.03	0.60	0.61	0.60	U	1	ICPST	7/12/2000	16:08
Silver	328.07	0.12	0.61	0.12	U	1	ICPST	7/12/2000	16:08
Thallium	190.86	0.77	1.2	0.77	U	1	ICPST	7/12/2000	16:08
Tin	189.99	0.47	12.3	1.7	B	1	ICPST	7/12/2000	16:08
Vanadium	292.40	0.098	6.1	3.0	B	1	ICPST	7/12/2000	16:08
Zinc	213.86	0.16	2.5	13.6		1	ICPST	7/12/2000	16:08

Comments: Lot #: A0G010105 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFMON Client ID: MPT-G4-SU-13-06
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 18.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	33.5	613	698		1	ICPST	7/21/2000	18:05

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0P Client ID: MPT-G4-SU-14-09
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 22.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.6	25.8	916	N	1	ICPST	7/12/2000	16:13
Antimony	206.84	0.40	1.3	0.40	U	1	ICPST	7/12/2000	16:13
Arsenic	189.04	0.37	1.3	1.2	B	1	ICPST	7/12/2000	16:13
Barium	493.41	0.039	25.8	5.0	B	1	ICPST	7/12/2000	16:13
Beryllium	313.04	0.026	0.64	0.042	B	1	ICPST	7/12/2000	16:13
Cadmium	226.50	0.039	0.26	0.094	B	1	ICPST	7/12/2000	16:13
Calcium	317.93	14.4	3220	89900		5	ICPST	7/13/2000	10:30
Chromium	267.72	0.10	1.3	6.6		1	ICPST	7/12/2000	16:13
Cobalt	228.62	0.090	6.4	0.36	B	1	ICPST	7/12/2000	16:13
Copper	324.75	0.22	3.2	0.81	B	1	ICPST	7/12/2000	16:13
Iron	271.44	1.9	12.9	1460	N*	1	ICPST	7/12/2000	16:13
Lead	220.35	0.22	0.39	1.6		1	ICPST	7/12/2000	16:13
Magnesium	279.08	1.5	644	683		1	ICPST	7/12/2000	16:13
Manganese	257.61	0.039	1.9	35.2	L	1	ICPST	7/12/2000	16:13
Mercury	253.7	0.0080	0.13	0.0088	B	1	CVAA	7/12/2000	14:26
Nickel	231.60	0.23	5.2	0.87	B	1	ICPST	7/12/2000	16:13
Potassium	766.49	2.6	644	114	B	1	ICPST	7/12/2000	16:13
Selenium	196.03	0.63	0.64	0.63	U	1	ICPST	7/12/2000	16:13
Silver	328.07	0.13	0.64	0.13	U	1	ICPST	7/12/2000	16:13
Thallium	190.86	0.81	1.3	0.81	U	1	ICPST	7/12/2000	16:13
Tin	189.99	0.49	12.9	1.8	B	1	ICPST	7/12/2000	16:13
Vanadium	292.40	0.10	6.4	3.4	B	1	ICPST	7/12/2000	16:13
Zinc	213.86	0.17	2.6	5.4		1	ICPST	7/12/2000	16:13

Comments: Lot #: A0G010105 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0P **Client ID:** MPT-G4-SU-14-09
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 22.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	35.2	644	765		1	ICPST	7/21/2000	18:10

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0Q Client ID: MPT-G4-SU-15-08
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 8.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.7	21.8	367	N	1	ICPST	7/12/2000	16:18
Antimony	206.84	0.34	1.1	0.38	B	1	ICPST	7/12/2000	16:18
Arsenic	189.04	0.32	1.1	0.61	B	1	ICPST	7/12/2000	16:18
Barium	493.41	0.033	21.8	2.4	B	1	ICPST	7/12/2000	16:18
Beryllium	313.04	0.022	0.55	0.029	B	1	ICPST	7/12/2000	16:18
Cadmium	226.50	0.033	0.22	0.033	U	1	ICPST	7/12/2000	16:18
Calcium	317.93	2.4	545	38600		1	ICPST	7/12/2000	16:18
Chromium	267.72	0.087	1.1	1.9		1	ICPST	7/12/2000	16:18
Cobalt	228.62	0.076	5.5	0.13	B	1	ICPST	7/12/2000	16:18
Copper	324.75	0.19	2.7	0.30	B	1	ICPST	7/12/2000	16:18
Iron	271.44	1.6	10.9	687	N*	1	ICPST	7/12/2000	16:18
Lead	220.35	0.19	0.33	0.69		1	ICPST	7/12/2000	16:18
Magnesium	279.08	1.2	545	226	B	1	ICPST	7/12/2000	16:18
Manganese	257.61	0.033	1.6	12.4	L	1	ICPST	7/12/2000	16:18
Mercury	253.7	0.0067	0.11	0.0067	U	1	CVAA	7/12/2000	14:28
Nickel	231.60	0.20	4.4	0.36	B	1	ICPST	7/12/2000	16:18
Potassium	766.49	2.2	545	44.4	B	1	ICPST	7/12/2000	16:18
Selenium	196.03	0.53	0.55	0.53	U	1	ICPST	7/12/2000	16:18
Silver	328.07	0.11	0.55	0.11	U	1	ICPST	7/12/2000	16:18
Thallium	190.86	0.69	1.1	0.69	U	1	ICPST	7/12/2000	16:18
Tin	189.99	0.41	10.9	1.7	B	1	ICPST	7/12/2000	16:18
Vanadium	292.40	0.087	5.5	1.3	B	1	ICPST	7/12/2000	16:18
Zinc	213.86	0.14	2.2	2.6		1	ICPST	7/12/2000	16:18

Comments: Lot #: A0G010105 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0Q Client ID: MPT-G4-SU-15-08
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 8.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	29.8	545	109	B	1	ICPST	7/21/2000	18:15

Comments: _____

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0R Client ID: MPT-G4-SU-16-09
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 13.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	5.0	23.0	449	N	1	ICPST	7/12/2000	16:34
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/12/2000	16:34
Arsenic	189.04	0.33	1.2	0.77	B	1	ICPST	7/12/2000	16:34
Barium	493.41	0.035	23.0	5.3	B	1	ICPST	7/12/2000	16:34
Beryllium	313.04	0.023	0.58	0.070	B	1	ICPST	7/12/2000	16:34
Cadmium	226.50	0.035	0.23	0.035	U	1	ICPST	7/12/2000	16:34
Calcium	317.93	12.9	2880	42300		5	ICPST	7/13/2000	10:34
Chromium	267.72	0.092	1.2	4.0		1	ICPST	7/12/2000	16:34
Cobalt	228.62	0.081	5.8	0.26	B	1	ICPST	7/12/2000	16:34
Copper	324.75	0.20	2.9	0.42	B	1	ICPST	7/12/2000	16:34
Iron	271.44	1.7	11.5	950	N*	1	ICPST	7/12/2000	16:34
Lead	220.35	0.20	0.35	0.78		1	ICPST	7/12/2000	16:34
Magnesium	279.08	1.3	576	345	B	1	ICPST	7/12/2000	16:34
Manganese	257.61	0.035	1.7	19.3	L	1	ICPST	7/12/2000	16:34
Mercury	253.7	0.0071	0.12	0.0076	B	1	CVAA	7/12/2000	14:29
Nickel	231.60	0.21	4.6	0.54	B	1	ICPST	7/12/2000	16:34
Potassium	766.49	2.3	576	64.8	B	1	ICPST	7/12/2000	16:34
Selenium	196.03	0.57	0.58	0.57	U	1	ICPST	7/12/2000	16:34
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/12/2000	16:34
Thallium	190.86	0.73	1.2	0.73	U	1	ICPST	7/12/2000	16:34
Tin	189.99	0.44	11.5	1.7	B	1	ICPST	7/12/2000	16:34
Vanadium	292.40	0.092	5.8	1.8	B	1	ICPST	7/12/2000	16:34
Zinc	213.86	0.15	2.3	3.3		1	ICPST	7/12/2000	16:34

Comments: Lot #: A0G010105 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0R Client ID: MPT-G4-SU-16-09
 Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158
 Weight: 1.00 Volume: 100 Percent Moisture: 13.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	31.5	576	1110		1	ICPST	7/21/2000	18:33

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0T Client ID: MPT-G4-SU-17-08
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 7.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.7	21.6	2680	N	1	ICPST	7/12/2000	16:39
Antimony	206.84	0.33	1.1	0.33	U	1	ICPST	7/12/2000	16:39
Arsenic	189.04	0.31	1.1	0.89	B	1	ICPST	7/12/2000	16:39
Barium	493.41	0.032	21.6	6.0	B	1	ICPST	7/12/2000	16:39
Beryllium	313.04	0.022	0.54	0.022	U	1	ICPST	7/12/2000	16:39
Cadmium	226.50	0.032	0.22	0.11	B	1	ICPST	7/12/2000	16:39
Calcium	317.93	2.4	539	49900		1	ICPST	7/12/2000	16:39
Chromium	267.72	0.086	1.1	3.2		1	ICPST	7/12/2000	16:39
Cobalt	228.62	0.075	5.4	0.22	B	1	ICPST	7/12/2000	16:39
Copper	324.75	0.18	2.7	0.78	B	1	ICPST	7/12/2000	16:39
Iron	271.44	1.6	10.8	701	N*	1	ICPST	7/12/2000	16:39
Lead	220.35	0.18	0.32	1.5		1	ICPST	7/12/2000	16:39
Magnesium	279.08	1.2	539	203	B	1	ICPST	7/12/2000	16:39
Manganese	257.61	0.032	1.6	11.2	L	1	ICPST	7/12/2000	16:39
Mercury	253.7	0.0067	0.11	0.010	B	1	CVAA	7/12/2000	14:30
Nickel	231.60	0.19	4.3	0.57	B	1	ICPST	7/12/2000	16:39
Potassium	766.49	2.1	539	63.5	B	1	ICPST	7/12/2000	16:39
Selenium	196.03	0.53	0.54	0.76		1	ICPST	7/12/2000	16:39
Silver	328.07	0.11	0.54	0.11	U	1	ICPST	7/12/2000	16:39
Thallium	190.86	0.68	1.1	0.68	U	1	ICPST	7/12/2000	16:39
Tin	189.99	0.41	10.8	1.6	B	1	ICPST	7/12/2000	16:39
Vanadium	292.40	0.086	5.4	3.7	B	1	ICPST	7/12/2000	16:39
Zinc	213.86	0.14	2.2	3.3		1	ICPST	7/12/2000	16:39

Comments: Lot #: A0G010105 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0T **Client ID:** MPT-G4-SU-17-08
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 7.2

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	29.5	539	545		1	ICPST	7/21/2000	18:38

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0V Client ID: MPT-G4-SU-DU01
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 11.6

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.9	22.6	907	N	1	ICPST	7/12/2000	16:44
Antimony	206.84	0.35	1.1	0.40	B	1	ICPST	7/12/2000	16:44
Arsenic	189.04	0.33	1.1	1.4		1	ICPST	7/12/2000	16:44
Barium	493.41	0.034	22.6	6.1	B	1	ICPST	7/12/2000	16:44
Beryllium	313.04	0.023	0.57	0.10	B	1	ICPST	7/12/2000	16:44
Cadmium	226.50	0.034	0.23	0.067	B	1	ICPST	7/12/2000	16:44
Calcium	317.93	12.7	2830	75300		5	ICPST	7/13/2000	10:51
Chromium	267.72	0.091	1.1	3.5		1	ICPST	7/12/2000	16:44
Cobalt	228.62	0.079	5.7	0.57	B	1	ICPST	7/12/2000	16:44
Copper	324.75	0.19	2.8	1.3	B	1	ICPST	7/12/2000	16:44
Iron	271.44	1.7	11.3	1330	N*	1	ICPST	7/12/2000	16:44
Lead	220.35	0.19	0.34	1.4		1	ICPST	7/12/2000	16:44
Magnesium	279.08	1.3	566	249	B	1	ICPST	7/12/2000	16:44
Manganese	257.61	0.034	1.7	20.4	L	1	ICPST	7/12/2000	16:44
Mercury	253.7	0.0070	0.11	0.0089	B	1	CVAA	7/12/2000	14:31
Nickel	231.60	0.20	4.5	1.0	B	1	ICPST	7/12/2000	16:44
Potassium	766.49	2.2	566	74.8	B	1	ICPST	7/12/2000	16:44
Selenium	196.03	0.55	0.57	0.55	U	1	ICPST	7/12/2000	16:44
Silver	328.07	0.11	0.57	0.11	U	1	ICPST	7/12/2000	16:44
Thallium	190.86	0.71	1.1	0.71	U	1	ICPST	7/12/2000	16:44
Tin	189.99	0.43	11.3	1.6	B	1	ICPST	7/12/2000	16:44
Vanadium	292.40	0.091	5.7	4.1	B	1	ICPST	7/12/2000	16:44
Zinc	213.86	0.15	2.3	3.8		1	ICPST	7/12/2000	16:44

Comments: Lot #: A0G010105 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFM0V **Client ID:** MPT-G4-SU-DU01
Matrix: Soil **Units:** mg/kg **Prep Date:** 07/21/2000 **Prep Batch:** 0203158
Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.23	27.4	500	771		1	ICPST	7/21/2000	18:43

Comments: _____

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-01-07

8
GAP
9-11-00

General Chemistry

Lot-Sample #...: A0F300248-001
Date Sampled...: 06/26/00
% Moisture.....: 30

Work Order #...: DFLAJ
Date Received...: 06/28/00

Matrix.....: SO

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	0.71	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	70.3	10.0	%	MCANW 160.3 MOD	07/10-07/11/00	0192372
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-02-05

General Chemistry

Lot-Sample #....: A0F300248-002 Work Order #....: DFM08 Matrix.....: SO
Date Sampled....: 06/27/00 08:05 Date Received...: 06/28/00
% Moisture.....: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.63	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution factor: 1				
Percent Solids	79.9	10.0	%	MCANW 160.3 MOD	07/10-07/11/00	0192372
		Dilution factor: 1				

NOTE (S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-03-05

General Chemistry

Lot-Sample #....: A0F300248-003 Work Order #....: DFM09 Matrix.....: SO
Date Sampled....: 06/27/00 09:35 Date Received...: 06/28/00
% Moisture.....: 23

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.65	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	77.1	10.0	%	MCAW 160.3 MOD	07/10-07/11/00	0192372
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-04-04

General Chemistry

Lot-Sample #....: A0F300248-004 Work Order #....: DFMOA Matrix.....: SO
Date Sampled...: 06/27/00 11:20 Date Received...: 06/28/00
% Moisture.....: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.63	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	79.5	10.0	%	MCANW 160.3 MOD	07/10-07/11/00	0192372
		Dilution Factor: 1				

NOTE(S):

RL: Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-05-04

General Chemistry

Lot-Sample #....: A0F300248-005 Work Order #....: DFMOC Matrix.....: SO
Date Sampled....: 06/27/00 13:20 Date Received...: 06/28/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.61	mg/kg	SW846 9012A	07/05-07/06/00	0187465
Percent Solids	82.3 Dilution Factor: 1	10.0	%	MCAW 160.3 MOD	07/10-07/11/00	0192372

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-06-07

General Chemistry

Lot-Sample #....: A0F300248-006 Work Order #....: DFMOD Matrix.....: SO
Date Sampled...: 06/27/00 14:30 Date Received...: 06/28/00
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	82.8	10.0	%	MCRAW 160.3 MOD	07/10-07/11/00	0192372
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH BUS, INC.

Client Sample ID: MPT-G4-SU-07-05

General Chemistry

Lot-Sample #....: AOF300248-007 Work Order #....: DFMOE Matrix.....: SO
Date Sampled....: 06/27/00 16:25 Date Received...: 06/28/00
% Moisture.....: 21

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.63	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	79.1	10.0	%	MCANW 160.3 MOD	07/11-07/12/00	0193428
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH BUS, INC.

Client Sample ID: MPT-G4-SU-08-04

General Chemistry

Lot-Sample #....: AOG010104-001 Work Order #....: DFMOF Matrix.....: SO
Date Sampled....: 06/28/00 08:20 Date Received...: 06/29/00
% Moisture.....: 12

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.56	mg/kg	SWB46 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	88.5	10.0	%	MCANW 160.3 MOD	07/11-07/12/00	0193428
		Dilution Factor: 1				

NOTE (S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-09-11

General Chemistry

Lot-Sample #....: A0G010104-002 Work Order #....: DFM0G Matrix.....: SO
Date Sampled...: 06/28/00 09:55 Date Received..: 06/29/00
% Moisture.....: 13

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.58	mg/kg	SW846 9012A	07/05-07/06/00	0187465
Percent Solids	86.9 Dilution Factor: 1	10.0	%	MCANW 160.3 MOD	07/11-07/12/00	0193428

NOTE (S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-10-10

General Chemistry

Lot-Sample #....: A0G010104-003 Work Order #....: DFM0H Matrix.....: SO
Date Sampled....: 06/28/00 11:20 Date Received...: 06/29/00
% Moisture.....: 19

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.62	mg/kg	SW846 9012A	07/05-07/06/00	0187465
Percent Solids	80.7 Dilution Factor: 1	10.0	%	MCAW 160.3 MOD	07/11-07/12/00	0193428

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-11-06

General Chemistry

Lot-Sample #....: AOG010104-004 Work Order #....: DFM0J Matrix.....: SO
Date Sampled....: 06/28/00 14:00 Date Received...: 06/29/00
% Moisture.....: 15

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.59	mg/kg	SW846 9012A	07/05-07/06/00	0187465
Percent Solids	84.8 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/11-07/12/00	0193428

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-12-06

General Chemistry

Lot-Sample #....: A0G010104-005 Work Order #....: DFMOK Matrix.....: SO
Date Sampled...: 06/28/00 15:40 Date Received...: 06/29/00
‡ Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	85.6	10.0	‡	MCANW 160.3 MOD	07/11-07/12/00	0193428
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-13-06

General Chemistry

Lot-Sample #....: A0G010105-001 Work Order #....: DFMON Matrix.....: SO
Date Sampled....: 06/29/00 07:45 Date Received...: 06/30/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.61	mg/kg	SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	81.6	10.0	%	MCAWW 160.3 MOD	07/11-07/12/00	0193455
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-14-09

General Chemistry

Lot-Sample #....: AOG010105-002 Work Order #....: DFM0P Matrix.....: SO
Date Sampled...: 06/29/00 09:37 Date Received...: 06/30/00
% Moisture.....: 22

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.64	mg/kg	SW846 9012A	07/13/00	0195327
Percent Solids	77.6 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/11-07/12/00	0193455

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH BUS, INC.

Client Sample ID: MPT-G4-SU-15-08

General Chemistry

Lot-Sample #....: A0G010105-003 Work Order #....: DFM0Q Matrix.....: SO
Date Sampled...: 06/29/00 11:15 Date Received...: 06/30/00
% Moisture.....: 8.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.54	mg/kg	SW846 9012A	07/13/00	0195327
Percent Solids	91.8 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/11-07/12/00	0193455

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-16-09

General Chemistry

Lot-Sample #....: A0G010105-004 Work Order #....: DFMOR Matrix.....: SO
Date Sampled....: 06/29/00 14:15 Date Received...: 06/30/00
% Moisture.....: 13

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.58	mg/kg	SW846 9012A	07/13/00	0195327
Percent Solids	86.8 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/11-07/12/00	0193455

NOTE (S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-17-08

General Chemistry

Lot-Sample #....: A0G010105-005 Work Order #....: DFMOT Matrix.....: SO
Date Sampled...: 06/29/00 15:00 Date Received...: 06/30/00
% Moisture.....: 7.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.54	mg/kg	SW846 9012A	07/13/00	0195327
Percent Solids	92.8 Dilution Factor: 1	10.0	%	MCAW 160.3 MOD	07/11-07/12/00	0193455

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-DU01

General Chemistry

Lot-Sample #....: A0G010105-006 Work Order #....: DFM0V Matrix.....: SO
Date Sampled....: 06/29/00 Date Received...: 06/30/00
% Moisture.....: 12

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.57	mg/kg	SW846 9012A	07/13/00	0195327
Percent Solids	88.4 Dilution Factor: 1	10.0	%	MCAW 160.3 MOD	07/11-07/12/00	0193455

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

APPENDIX C
SUPPORT DOCUMENTATION

SDG NARRATIVE

MP014

The following report contains the analytical results for nineteen solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV Site. The samples were received June 28, 29, and 30, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

Coolers were received at the laboratory at temperatures of 0.4, 2.6, 2.6, 1.9, 2.2, and 3.0.

(See STL's Cooler Receipt Form for additional information.)

SAMPLE SUMMARY

A0F300248

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFL4J	001	MPT-G4-SU-01-07	06/26/00	
DFM08	002	MPT-G4-SU-02-05	06/27/00	08:05
DFM09	003	MPT-G4-SU-03-05	06/27/00	09:35
DFM0A	004	MPT-G4-SU-04-04	06/27/00	11:20
DFM0C	005	MPT-G4-SU-05-04	06/27/00	13:20
DFM0D	006	MPT-G4-SU-06-07	06/27/00	14:30
DFM0E	007	MPT-G4-SU-07-05	06/27/00	16:25

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G010104

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFM0F	001	MPT-G4-SU-08-04	06/28/00	08:20
DFM0G	002	MPT-G4-SU-09-11	06/28/00	09:55
DFM0H	003	MPT-G4-SU-10-10	06/28/00	11:20
DFM0J	004	MPT-G4-SU-11-06	06/28/00	14:00
DFM0K	005	MPT-G4-SU-12-06	06/28/00	15:40
DFM0L	006	MPT-0123	06/28/00	15:40

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

AOG010105

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFMON	001	MPT-G4-SU-13-06	06/29/00	07:45
DFMOP	002	MPT-G4-SU-14-09	06/29/00	09:37
DFMOQ	003	MPT-G4-SU-15-08	06/29/00	11:15
DFMOR	004	MPT-G4-SU-16-09	06/29/00	14:15
DFMOT	005	MPT-G4-SU-17-08	06/29/00	15:00
DFMOV	006	MPT-G4-SU-DU01	06/29/00	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



PROJECT NO: N0123	SITE NAME: NS Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: Terry Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE): <i>Chris Fyler</i> <i>James Knight</i>	FIELD OPERATIONS LEADER AND PHONE NUMBER: Tom Thompson (904) 281-0400	CARRIER/WAYBILL NUMBER: Fed Ex 8198 0334 4513	ADDRESS: 4101 Shuffel Dr NW CITY, STATE: North Canton, OH 44720

STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day	CONTAINER TYPE PLASTIC (P) or GLASS (G) PRESERVATIVE USED
---	---

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS
						TCL VOC	TCL SVOC	TAL Metals + Tin	Cyanide	
6-26		MPT-G4-SU-01-08	Soil	G	5	X	X	X	X	Cool to 4°C
6-26	1600	MPT-G4-GW-01-11	GW		3		X	X		
6-27	0805	MPT-G4-SU-02-05	Soil		5	X	X	X	X	
	0900	MPT-G4-GW-02-05	GW		3		X	X		
	1040	MPT-G4-GW-03-05	GW		3		X	X		
	0935	MPT-G4-SU-03-05	Soil		5	X	X	X	X	
	1120	MPT-G4-SU-04-04	Soil		5	X	X	X	X	
	1210	MPT-G4-GW-04-04	GW		3		X	X		
	1320	MPT-G4-SU-05-04	Soil		5	X	X	X	X	
	1355	MPT-G4-SU-05-04 ^{GW}	GW		1		X	X		
	1430	MPT-G4-SU-06-07	Soil	✓	5	X	X	X	X	

1. RELINQUISHED BY: <i>Tom Thompson</i>	DATE 6-27-00	TIME 1700	1. RECEIVED BY:	DATE	TIME
2. RELINQUISHED BY:	DATE	TIME	2. RECEIVED BY: <i>[Signature]</i>	DATE 6/28/00	TIME 915
3. RELINQUISHED BY:	DATE	TIME	3. RECEIVED BY:	DATE	TIME

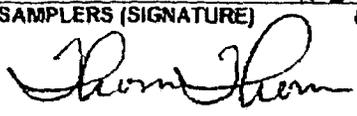
COMMENTS: All GW samples filtered in the field, Time for MPT-G4-SU-01-08 is on sample container label.



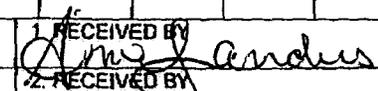
PROJECT NO: N0123		SITE NAME: NS Mayport Corp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex 8198 0334 4524				CITY, STATE North Canton, OH 44720					
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED					
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						Soil GW		-HCl		-HNO ₃	
						-NaOH					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS					COMMENTS
						TCL VOC	TCL SVOC	TAL Metals + Tin	Cyanide		
6/26	1600	MPT-G4-GW-01-11	GW	G	4	X			X		Cool to 4°C
6/27	0900	MPT-G4-GW-02-05			4	X			X		
	1040	MPT-G4-GW-03-05			4	X			X		
	1210	MPT-G4-GW-04-04			4	X			X		
	1355	MPT-G4-GW-05-04			⑩ 46	X	X		X		
	1510	MPT-G4-GW-06-07			4	X			X		
	1550	MPT-G4-GW-07-05			7	X	X	X	X		
	1625	MPT-G4-SW-07-05	Soil		5	X	X	X	X		
		TB062701	W		1	X					

1. RELINQUISHED BY 	DATE 6-27-06	TIME 1700	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY 	DATE 6/28/06	TIME 9:15
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: All Gw Samples filtered in the field.

PROJECT NO: NO 123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: T. Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE): 		FIELD OPERATIONS LEADER AND PHONE NUMBER: T. THOMPSON (904) 281-0400	ADDRESS:
		CARRIER/WAYBILL NUMBER: Fed Ex: 7911 0569 2234	CITY, STATE: N. Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS
						TCL VOCs	TCL SVOC	TAL Metals + Tin Cyanide	PRESERVATIVE USED	
6-28	0820	MPT-G4-SU-08- 04 ⁰⁴	S	G	12	X	X	X	X	Cool to 4°C
	0910	MPT-G4-GW-08-05	GW		12	X	X	X	X	
	1030	MPT-G4-GW-09-11	GW		12	X	X	X	X	
	0955	MPT-G4-SU-09-11	S		12	X	X	X	X	
	1120	MPT-G4-SU-10-10	S		12	X	X	X	X	
	1210	MPT-G4-GW-10-10	G		3	X			X	
	1400	MPT-G4-SU-11- 06 ⁰⁶	S		12	X	X	X	X	
	1440	MPT-G4-GW-11-05	GW		3	X			X	
	1540	MPT-G4-SU-12-06	S		12	X	X	X	X	
	1625	MPT-G4-GW-12-05	GW		3	X			X	

1. RELINQUISHED BY: 	DATE 6-28-00	TIME 1900	1. RECEIVED BY: 	DATE 6/29/00	TIME 9:15
2. RELINQUISHED BY:	DATE	TIME	2. RECEIVED BY:	DATE	TIME
3. RELINQUISHED BY:	DATE	TIME	3. RECEIVED BY:	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

June 23 2000

Fax: 9042810070

TETRA JACKSONVILLE



PROJECT NO: N0123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400	ADDRESS
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N. Canton

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS		PRESERVATIVE USED	COMMENTS
						TCL SVOC	TAL Metals + Tin		
6/28	1210	MPT-G4-GW-10-10	GW	G	3	X	X	G	Cool to 4°C
6/28	1440	MPT-G4-GW-11-05	↓	↓	3	X	X	P	↓
6/28	1625	MPT-G4-GW-12-05	↓	↓	3	X	X	HNO3	↓
Empty rows									

1. RELINQUISHED BY 	DATE 6/28/00	TIME 1900	1. RECEIVED BY 	DATE 6/29/00	TIME 8:15
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) <i>Thomas Thompson</i> <i>Chad Wall</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400				ADDRESS 4101 Shuffel Dr NW						
		CARRIER/WAYBILL NUMBER FedEx 7911 0634 4344				CITY, STATE N. Canton, OH						
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED			
DATE YEAR 2000					TIME		SAMPLE ID		TYPE OF ANALYSIS				COMMENTS
						TCL VOCs 5035/8260 HCl TCL SVOCs 8270 TAL Metals + Tin Cyanide HNO3 NaOH						
6-29	0745	MPT-G4-SU-13-06	Soil	G	5	X	X	X	X		Cool to 4°C	
	0835	MPT-G4-GW-13-06	GW		7	X	X	X	X			
	0937	MPT-G4-SU-14-09	Soil		5	X	X	X	X			
	1020	MPT-G4-GW-14-10	GW		7	X	X	X	X			
	1115	MPT-G4-SU-15-08	Soil		5	X	X	X	X			
	1200	MPT-G4-GW-15-09	GW		7	X	X	X	X			
	1415	MPT-G4-SU-16-09	Soil		5	X	X	X	X			
	1520	MPT-G4-GW-16-08	GW		7	X	X	X	X			
		TBO62903	W		2	X						
1. RELINQUISHED BY <i>Thomas Thompson</i>		DATE 6-29-00	TIME 1900	1. RECEIVED BY <i>Tom Thompson</i>		DATE 6/30/00	TIME 9-10	2. RECEIVED BY		DATE	TIME	
2. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME	
3. RELINQUISHED BY		DATE	TIME			DATE	TIME			DATE	TIME	
COMMENTS												

SDG NARRATIVE

MP014

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the IDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10712.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 07/12/2000 2:03 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	0.6	0.0	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 07/12/2000 10:57 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Aluminum	308.215	200	43.5	U								
Antimony	206.838	10	4.5	B								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.6	B								
Beryllium	313.042	5	0.4	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	22.4	U								
Chromium	267.716	10	0.8	U								
Cobalt	228.616	50	0.7	U								
Copper	324.753	25	1.7	U								
Iron	271.441	100	16.8	B								
Lead	220.353	3	1.7	U								
Magnesium	279.078	5000	20.5	B								
Manganese	257.61	15	0.4	B								
Nickel	231.604	40	1.8	U								
Potassium	766.491	5000	19.8	U								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.0	U								
Thallium	190.864	10	6.3	U								
Tin	189.989	100	3.8	U								
Vanadium	292.402	50	0.8	B								
Zinc	213.856	20	1.3	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60713a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 07/13/2000 8:59 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Calcium	317.933	5000	22.4	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: I50720A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 07/20/2000 11:39 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Calcium	317.933	5000	22.4	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 07/21/2000 3:20 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Sodium	330.232	5000	-1600.0	B								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10712.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 07/12/2000 2:06 PM		CCB 07/12/2000 2:21 PM		CCB 07/12/2000 2:36 PM		CCB 07/12/2000 2:50 PM	
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.0	U	0.0	U	0.0	U	0.0	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 07/12/2000 11:38 AM		CCB 07/12/2000 12:35 PM		CCB 07/12/2000 1:03 PM		CCB 07/12/2000 2:27 PM		CCB 07/12/2000 3:28 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	43.5	U	43.5	U	43.5	U	43.5	U	43.5	U
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Barium	493.409	200	1.0	B	1.0	B	0.9	B	0.8	B	0.4	B
Beryllium	313.042	5	0.7	B	0.6	B	0.7	B	0.5	B	0.4	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	B	0.3	U	0.3	U
Calcium	317.933	5000	42.9	B	40.3	B	49.1	B	22.4	U	29.8	B
Chromium	267.716	10	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Cobalt	228.616	50	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Copper	324.753	25	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Iron	271.441	100	14.9	U	14.9	U	26.1	B	14.9	U	14.9	U
Lead	220.353	3	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Magnesium	279.078	5000	40.2	B	27.1	B	51.9	B	13.1	B	11.4	U
Manganese	257.61	15	0.6	B	0.7	B	0.7	B	0.4	B	0.3	B
Nickel	231.604	40	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
Potassium	766.491	5000	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U
Silver	328.068	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
Tin	189.989	100	3.8	U	4.1	B	3.8	U	3.8	U	3.8	U
Vanadium	292.402	50	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Zinc	213.856	20	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 07/12/2000 4:29 PM		CCB 07/12/2000 5:32 PM		Found	Q	Found	Q
			Found	Q	Found	Q				
Aluminum	308.215	200	43.5	U	43.5	U				
Antimony	206.838	10	3.3	B	3.1	U				
Arsenic	189.042	10	2.9	U	2.9	U				
Barium	493.409	200	0.5	B	0.7	B				
Beryllium	313.042	5	0.5	B	0.6	B				
Cadmium	226.502	2	0.3	U	0.3	U				
Calcium	317.933	5000	41.5	B	22.4	U				
Chromium	267.716	10	0.8	U	0.8	U				
Cobalt	228.616	50	0.7	U	0.7	U				
Copper	324.753	25	1.7	U	1.7	U				
Iron	271.441	100	14.9	U	14.9	U				
Lead	220.353	3	1.7	U	1.7	U				
Magnesium	279.078	5000	11.4	U	16.4	B				
Manganese	257.61	15	0.5	B	0.5	B				
Nickel	231.604	40	1.8	U	1.8	U				
Potassium	766.491	5000	-25.0	B	19.8	U				
Selenium	196.026	5	4.9	U	4.9	U				
Silver	328.068	5	1.0	U	1.0	U				
Thallium	190.864	10	6.3	U	6.3	U				
Tin	189.989	100	3.8	U	3.8	U				
Vanadium	292.402	50	0.8	U	0.8	U				
Zinc	213.856	20	1.3	U	1.3	U				

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60713a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 07/13/2000 9:45 AM		CCB 07/13/2000 10:46 AM		CCB 07/13/2000 11:52 AM		Found	Q
			Found	Q	Found	Q	Found	Q			Found	Q
Calcium	317.933	5000	22.4	U	22.4	U	22.4	U		

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: I50720A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 07/20/2000 12:17 PM		CCB 07/20/2000 1:24 PM		Found	Q	Found	Q
			Found	Q	Found	Q				
Calcium	317.933	5000	22.4	U	22.4	U				

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 07/21/2000 4:15 PM		CCB 07/21/2000 5:24 PM		CCB 07/21/2000 6:28 PM		CCB 07/21/2000 7:35 PM	
			Found	Q	Found	Q	Found	Q	Found	Q
Sodium	330.232	5000	-1400.0	B	-2000.0	B	-1600.0	B	-1700.0	B

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFW46B
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	4.4	20.0	4.4	U	1	ICPST	7/12/2000	14:32
Antimony	206.838	0.31	1.0	0.31	U	1	ICPST	7/12/2000	14:32
Arsenic	189.042	0.29	1.0	0.29	U	1	ICPST	7/12/2000	14:32
Barium	493.409	0.030	20.0	0.20	B	1	ICPST	7/12/2000	14:32
Beryllium	313.042	0.020	0.50	0.020	U	1	ICPST	7/12/2000	14:32
Cadmium	226.502	0.030	0.20	0.030	U	1	ICPST	7/12/2000	14:32
Calcium	317.933	2.2	500	40.2	B	1	ICPST	7/12/2000	14:32
Chromium	267.716	0.080	1.0	0.11	B	1	ICPST	7/12/2000	14:32
Cobalt	228.616	0.070	5.0	0.070	U	1	ICPST	7/12/2000	14:32
Copper	324.753	0.17	2.5	0.17	U	1	ICPST	7/12/2000	14:32
Iron	271.441	1.5	10.0	1.7	B	1	ICPST	7/12/2000	14:32
Lead	220.353	0.17	0.30	0.17	U	1	ICPST	7/12/2000	14:32
Magnesium	279.078	1.1	500	5.1	B	1	ICPST	7/12/2000	14:32
Manganese	257.61	0.030	1.5	0.10	B	1	ICPST	7/12/2000	14:32
Mercury	253.7	0.0062	0.10	0.0062	U	1	CVAA	7/12/2000	14:07
Nickel	231.604	0.18	4.0	0.18	U	1	ICPST	7/12/2000	14:32
Potassium	766.491	2.0	500	3.1	B	1	ICPST	7/12/2000	14:32
Selenium	196.026	0.49	0.50	0.49	U	1	ICPST	7/12/2000	14:32
Silver	328.068	0.10	0.50	0.10	U	1	ICPST	7/12/2000	14:32
Thallium	190.864	0.63	1.0	0.63	U	1	ICPST	7/12/2000	14:32
Tin	189.989	0.38	10.0	1.7	B	1	ICPST	7/12/2000	14:32
Vanadium	292.402	0.080	5.0	0.080	U	1	ICPST	7/12/2000	14:32
Zinc	213.856	0.13	2.0	1.1	B	1	ICPST	7/12/2000	14:32

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DGKGXB

Matrix: Soil Units: mg/kg Prep Date: 07/21/2000 Prep Batch: 0203158

Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Sodium	330.232	27.4	500	176	B	1	ICPST	7/21/2000	16:20

Comments: _____

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 07/12/2000 11:17 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	490000					
Antimony	206.838	10		2					
Arsenic	189.042	10		0					
Barium	493.409	200		1					
Beryllium	313.042	5		0					
Cadmium	226.502	2		2					
Calcium	317.933		500000	528000					
Chromium	267.716	10		3					
Cobalt	228.616	50		3					
Copper	324.753	25		3					
Iron	271.441		200000	198000					
Lead	220.353	3		1					
Magnesium	279.078		500000	484000					
Manganese	257.61	15		5					
Nickel	231.604	40		3					
Potassium	766.491	5000		25					
Selenium	196.026	5		5					
Silver	328.068	5		0					
Thallium	190.864	10		2					
Tin	189.989	100		0					
Vanadium	292.402	50		2					
Zinc	213.856	20		22					

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60713a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 07/13/2000 9:10 AM	Found	Found	Found	Found	Found
				Found					
Calcium	317.933		500000	545000					

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: I50720A.ARC

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 07/20/2000 11:59 AM	Found	Found	Found	Found	Found
				Found					
Calcium	317.933		500000	474000					

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Acceptable Range: 0% - 0%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 07/21/2000 3:57 PM	Found	Found	Found	Found	Found
				Found					
Sodium	330.232	5000		1400					

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60712b.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 07/12/2000 11:28 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	481113.8	96.2								
Antimony	206.838	1000	995.2	99.5								
Arsenic	189.042	1000	973.7	97.4								
Barium	493.409	500	507.1	101.4								
Beryllium	313.042	500	494.7	98.9								
Cadmium	226.502	1000	900.7	90.1								
Calcium	317.933	500000	509034.6	101.8								
Chromium	267.716	500	471.9	94.4								
Cobalt	228.616	500	467.8	93.6								
Copper	324.753	500	505.8	101.2								
Iron	271.441	200000	194794.2	97.4								
Lead	220.353	1000	931.0	93.1								
Magnesium	279.078	500000	478311.8	95.7								
Manganese	257.61	500	501.0	100.2								
Nickel	231.604	1000	932.3	93.2								
Potassium	766.491	10000	11043.1	110.4								
Selenium	196.026	1000	948.6	94.9								
Silver	328.068	1000	1015.9	101.6								
Thallium	190.864	1000	957.0	95.7								
Tin	189.989	1000	955.4	95.5								
Vanadium	292.402	500	477.6	95.5								
Zinc	213.856	1000	1005.3	100.5								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60713a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 07/13/2000 9:17 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Calcium	317.933	500000	529516.5	105.9								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: I50720A.ARC

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 07/20/2000 12:04 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Calcium	317.933	500000	462916.0	92.6								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 07/21/2000 4:02 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Sodium	330.232	10000	10593.0	105.9								

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFM0FS
 Original Sample ID: DFM0F Client ID: MPT-G4-SU-08-04S
 Matrix: Soil Units: mg/kg Prep Date: 07/11/2000 Prep Batch: 0190105
 Weight: 1.00 Volume: 100 Percent Moisture: 11.5

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	254		635	N	225.99	168.8	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Antimony	206.8	0.35	U	52.8		56.497	93.5	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Arsenic	189.0	0.86	B	204		225.99	90.1	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Barium	493.4	7.9	B	219		225.99	93.5	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Beryllium	313.0	0.023	U	5.2		5.6497	92.6	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Cadmium	226.5	0.052	B	5.1		5.6497	88.7	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Calcium	317.9	88800		87200	NC	5649.7		5	5	ICPST	7/13/2000	10:04	7/13/2000	10:09
Chromium	267.7	1.8		23.0		22.599	93.7	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Cobalt	228.6	0.10	B	50.9		56.497	89.9	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Copper	324.8	1.7	B	28.9		28.249	96.4	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Iron	271.4	426		715	N	112.99	255.8	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Lead	220.4	12.6		62.3		56.497	88.0	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Magnesium	279.1	110	B	5490		5649.7	95.3	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Manganese	257.6	9.1		65.4		56.497	99.7	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Mercury	253.7	0.016	B	0.23		0.1883	115.0	1	1	CVAA	7/12/2000	14:14	7/12/2000	14:16
Nickel	231.6	0.49	B	53.1		56.497	93.1	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Potassium	766.5	25.5	B	5970		5649.7	105.2	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Selenium	196.0	0.55	U	202		225.99	89.4	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Silver	328.1	0.11	U	6.1		5.6497	107.0	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Thallium	190.9	0.71	U	207		225.99	91.8	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Tin	190	1.9	B	210		225.99	92.2	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Vanadium	292.4	2.0	B	55.7		56.497	95.0	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38
Zinc	213.9	9.8		65.7		56.497	98.9	1	1	ICPST	7/12/2000	15:33	7/12/2000	15:38

Comments: Lot #: A0G010104 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.6	0.037	03/21/2000

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	43.5	03/20/2000
Antimony	206.84	10	3.1	04/18/2000
Arsenic	189.04	10	2.9	04/18/2000
Barium	493.41	200	0.30	03/20/2000
Beryllium	313.04	5	0.20	03/20/2000
Cadmium	226.50	2	0.30	04/18/2000
Calcium	317.93	5000	22.4	04/18/2000
Chromium	267.72	10	0.80	03/20/2000
Cobalt	228.62	50	0.70	04/18/2000
Copper	324.75	25	1.7	03/20/2000
Iron	271.44	100	14.9	04/18/2000
Lead	220.35	3	1.7	03/20/2000
Magnesium	279.08	5000	11.4	03/20/2000
Manganese	257.61	15	0.30	03/21/2000
Nickel	231.60	40	1.8	03/20/2000
Potassium	766.49	5000	19.8	04/18/2000
Selenium	196.03	5	4.9	04/18/2000
Silver	328.07	5	1.0	04/18/2000
Sodium	330.23	5000	274	03/21/2000
Thallium	190.86	10	6.3	04/18/2000
Tin	189.99	100	3.8	03/20/2000
Vanadium	292.40	50	0.80	04/18/2000
Zinc	213.86	20	1.3	03/20/2000

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/08/00
Time: 7:25:02

BATCH NUMBER: 0190105

PREP DATE: ~~7/10/00~~ ^{7/11/00} *ku*
DUE DATE 7/18/00

INITIALS: DC/ku

SOG mP014

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A0F300248	DFL4J	50	X <u>1.00</u> g	X <u>0.60</u> g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM08	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM09	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0A	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0C	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0D	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0E	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0G010104	DFM0F	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
	DFM0FS		_____ g	_____ g	_____ g	_____ g
	DFM0FD		_____ g	_____ g	_____ g	_____ g
A0G010104	DFM0G	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010104	DFM0H	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010104	DFM0J	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010104	DFM0K	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010105	DFM0N	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			
A0G010105	DFM0P	50	X _____ g	X _____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/08/00
Time: 7:25:02

BATCH NUMBER: 0190105

PREP DATE: ~~7/10/00~~ ^{7/11/00} *ku*
DUE DATE 7/18/00

INITIALS: *DL/ku*

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A0G010105 SOLID	DFM0Q TO DUE DATE:	50	X <u>1.00</u> g 7/20/00	X <u>0.60</u> g	_____ g	_____ g
A0G010105 SOLID	DFM0R TO DUE DATE:	50	X _____ g 7/20/00	X _____ g	_____ g	_____ g
A0G010105 SOLID	DFM0T TO DUE DATE:	50	X _____ g 7/20/00	X _____ g	_____ g	_____ g
A0G010105 SOLID	DFM0V TO DUE DATE:	50	X _____ g 7/20/00	X _____ g	_____ g	_____ g
A0G080000 SOLID	DFW46B DUE DATE:	50	X _____ g 0/00/00	X _____ g	_____ g	_____ g
	DFW46C		^{0.5} 1.00 g <i>00708 ku</i>	<u>0.6</u> g	_____ g	_____ g

LEVEL 2

- BLANK AND CHECK STANDARD ON BATCH
- MS/MSD AND PDS ON BATCH
- CURVE PREPPED FOR HG
- CORRECT SPIKES ADDED
- SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: _____
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PD
 SPIKING WITNESSED BY *DL*

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/08/00
Time: 7:25:02

BATCH NUMBER: 0190105

PREP DATE: ~~7/10/00~~
DUE DATE 7/18/00

7/11/00
Ku

INITIALS: DK/Ku

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE SN TL VX

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD Ag

DFMOF

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2 GFAA HG ODD Solid LCSS lot 243

DFW46

CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD NUMBERS DF634 DF584 06702 DF635

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/21/00
Time: 8:20:15

BATCH NUMBER: 0203158

PREP DATE: 7/21/00
DUE DATE 7/18/00

INITIALS: LPM

* RK-PREP BATCH *

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A0F300248	DFL4J	50	X 1.00 g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM08	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM09	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0A	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0C	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFMOD	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0F300248	DFM0E	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/18/00			
A0G010104	DFM0F	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
	DFM0FS		_____ g	_____ g	_____ g	_____ g
	DFM0FD		_____ g	_____ g	_____ g	_____ g
A0G010104	DFM0G	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010104	DFM0H	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010104	DFM0J	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010104	DFM0K	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/19/00			
A0G010105	DFM0N	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			

DO NOT
UPLOAD
Save / yr.
Client 375244
SAG MPO14

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/21/00
Time: 8:20:15

BATCH NUMBER: 0203158

PREP DATE: 7/21/00
DUE DATE 7/18/00

INITIALS: WM

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A0G010105	DFM0P	50	X <u>1.00</u> g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			
A0G010105	DFM0Q	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			
A0G010105	DFM0R	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			
A0G010105	DFM0T	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			
A0G010105	DFM0V	50	X _____ g	_____ g	_____ g	_____ g
SOLID	TO DUE DATE:		7/20/00			
A0G210000	DGKGXB	50	X _____ g	_____ g	_____ g	_____ g
SOLID	DUE DATE:		0/00/00			
	DGKGXC		_____ g	_____ g	_____ g	_____ g

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH
 MS/MSD AND PDS ON BATCH
 CURVE PREPPED FOR HG
 CORRECT SPIKES ADDED
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

ORIGINAL BATCH: 0190-105

COMMENTS: _____
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL D/TN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PD:
 SPIKING WITNESSED BY WM

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/21/00
Time: 8:20:15

BATCH NUMBER: 0203158

PREP DATE: 7/21/00
DUE DATE 7/18/00

INITIALS: WM

ICP ELEMENTS WITHIN THE BATCH:

NA

MS/MSD 1: ICP - 1 ICP - 2 A GFAA HG ODD

DFMof

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2 A GFAA HG ODD

DGKGX

CHECK DUP: ICP - 1 ICP - 2 GFAA HG ODD

STANDARD
NUMBERS

0F584

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10712.prn

Sample Name	Date of Analysis	Time of Analysis
Std1Repl	07/12/2000	1:54 PM
Std2Repl	07/12/2000	1:56 PM
Std3Repl	07/12/2000	1:57 PM
Std4Repl	07/12/2000	1:58 PM
Std5Repl	07/12/2000	1:59 PM
Std6Repl	07/12/2000	2:00 PM
ICV	07/12/2000	2:01 PM
ICB	07/12/2000	2:03 PM
CRA	07/12/2000	2:04 PM
CCV	07/12/2000	2:05 PM
CCB	07/12/2000	2:06 PM
DFW46B	07/12/2000	2:07 PM
DFW46C	07/12/2000	2:09 PM
DFM0A	07/12/2000	2:10 PM
DFM0C	07/12/2000	2:11 PM
DFM0D	07/12/2000	2:12 PM
DFM0E	07/12/2000	2:13 PM
DFM0F	07/12/2000	2:14 PM
DFM0FS	07/12/2000	2:16 PM
DFM0FD	07/12/2000	2:17 PM
DFM0G	07/12/2000	2:18 PM
CCV	07/12/2000	2:19 PM
CCB	07/12/2000	2:21 PM
DFM0H	07/12/2000	2:22 PM
DFM0J	07/12/2000	2:23 PM
DFM0K	07/12/2000	2:24 PM
DFM0N	07/12/2000	2:25 PM
DFM0P	07/12/2000	2:26 PM
DFM0Q	07/12/2000	2:28 PM
DFM0R	07/12/2000	2:29 PM
DFM0T	07/12/2000	2:30 PM
DFM0V	07/12/2000	2:31 PM
DFM0S	07/12/2000	2:33 PM
CCV	07/12/2000	2:35 PM
CCB	07/12/2000	2:36 PM
DFM09	07/12/2000	2:37 PM
DFL4J	07/12/2000	2:38 PM
ZZZZZ	07/12/2000	2:40 PM
ZZZZZ	07/12/2000	2:41 PM
ZZZZZ	07/12/2000	2:42 PM
ZZZZZ	07/12/2000	2:43 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10712.pm

Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZ</i>	07/12/2000	2:45 PM
<i>ZZZZZ</i>	07/12/2000	2:46 PM
<i>ZZZZZ</i>	07/12/2000	2:47 PM
<i>ZZZZZ</i>	07/12/2000	2:48 PM
CCV	07/12/2000	2:49 PM
CCB	07/12/2000	2:50 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60712b.arc

Sample Name	Date of Analysis	Time of Analysis
S0	07/12/2000	10:35 AM
CALSTD	07/12/2000	10:40 AM
CAL 2	07/12/2000	10:45 AM
S100	07/12/2000	10:48 AM
ICV	07/12/2000	10:52 AM
ICB	07/12/2000	10:57 AM
CRI	07/12/2000	11:02 AM
ZZZZZZ	07/12/2000	11:09 AM
ICSA	07/12/2000	11:17 AM
ZZZZZZ	07/12/2000	11:23 AM
ICSAB	07/12/2000	11:28 AM
CCV	07/12/2000	11:33 AM
CCB	07/12/2000	11:38 AM
ZZZZZZ	07/12/2000	11:43 AM
ZZZZZZ	07/12/2000	11:48 AM
ZZZZZZ	07/12/2000	11:55 AM
ZZZZZZ	07/12/2000	12:00 PM
ZZZZZZ	07/12/2000	12:05 PM
ZZZZZZ	07/12/2000	12:10 PM
ZZZZZZ	07/12/2000	12:18 PM
ZZZZZZ	07/12/2000	12:25 PM
CCV	07/12/2000	12:30 PM
CCB	07/12/2000	12:35 PM
ZZZZZZ	07/12/2000	12:43 PM
ZZZZZZ	07/12/2000	12:48 PM
ZZZZZZ	07/12/2000	12:53 PM
CCV	07/12/2000	12:58 PM
CCB	07/12/2000	1:03 PM
ZZZZZZ	07/12/2000	1:23 PM
ZZZZZZ	07/12/2000	1:27 PM
ZZZZZZ	07/12/2000	1:32 PM
ZZZZZZ	07/12/2000	1:37 PM
ZZZZZZ	07/12/2000	1:41 PM
ZZZZZZ	07/12/2000	1:46 PM
ZZZZZZ	07/12/2000	1:50 PM
CCV	07/12/2000	2:20 PM
CCB	07/12/2000	2:27 PM
DFW46B	07/12/2000	2:32 PM
DFW46C	07/12/2000	2:36 PM
DFLAJ	07/12/2000	2:43 PM
DFLAJL	07/12/2000	2:48 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60712b.arc

Sample Name	Date of Analysis	Time of Analysis
DFM08	07/12/2000	2:53 PM
DFM09	07/12/2000	2:57 PM
DFM0A	07/12/2000	3:02 PM
DFM0C	07/12/2000	3:07 PM
DFM0D	07/12/2000	3:12 PM
DFM0E	07/12/2000	3:17 PM
CCV	07/12/2000	3:21 PM
CCB	07/12/2000	3:28 PM
DFM0F	07/12/2000	3:33 PM
DFM0FS	07/12/2000	3:38 PM
DFM0FD	07/12/2000	3:42 PM
DFM0G	07/12/2000	3:49 PM
DFM0H	07/12/2000	3:54 PM
DFM0J	07/12/2000	3:59 PM
DFM0K	07/12/2000	4:03 PM
DFM0N	07/12/2000	4:08 PM
DFM0P	07/12/2000	4:13 PM
DFM0Q	07/12/2000	4:18 PM
CCV	07/12/2000	4:23 PM
CCB	07/12/2000	4:29 PM
DFM0R	07/12/2000	4:34 PM
DFM0T	07/12/2000	4:39 PM
DFM0V	07/12/2000	4:44 PM
ZZZZZ	07/12/2000	4:50 PM
ZZZZZ	07/12/2000	4:55 PM
ZZZZZ	07/12/2000	5:02 PM
ZZZZZ	07/12/2000	5:06 PM
ZZZZZ	07/12/2000	5:11 PM
ZZZZZ	07/12/2000	5:16 PM
ZZZZZ	07/12/2000	5:21 PM
CCV	07/12/2000	5:26 PM
CCB	07/12/2000	5:32 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60713a.arc

Sample Name	Date of Analysis	Time of Analysis
S0	07/13/2000	8:36 AM
CALSTD	07/13/2000	8:41 AM
CAL 2	07/13/2000	8:45 AM
S100	07/13/2000	8:49 AM
ICV	07/13/2000	8:52 AM
ICB	07/13/2000	8:59 AM
CRI	07/13/2000	9:03 AM
ICSA	07/13/2000	9:10 AM
ICSAB	07/13/2000	9:17 AM
CCV	07/13/2000	9:38 AM
CCB	07/13/2000	9:45 AM
ZZZZZZ	07/13/2000	9:49 AM
DFM08	07/13/2000	9:54 AM
ZZZZZZ	07/13/2000	9:59 AM
DFM0F	07/13/2000	10:04 AM
DFM0FS	07/13/2000	10:09 AM
DFM0FD	07/13/2000	10:13 AM
DFM0G	07/13/2000	10:20 AM
DFM0J	07/13/2000	10:25 AM
DFM0P	07/13/2000	10:30 AM
DFM0R	07/13/2000	10:34 AM
CCV	07/13/2000	10:39 AM
CCB	07/13/2000	10:46 AM
DFM0V	07/13/2000	10:51 AM
ZZZZZZ	07/13/2000	10:57 AM
ZZZZZZ	07/13/2000	11:02 AM
ZZZZZZ	07/13/2000	11:07 AM
ZZZZZZ	07/13/2000	11:12 AM
ZZZZZZ	07/13/2000	11:18 AM
ZZZZZZ	07/13/2000	11:23 AM
ZZZZZZ	07/13/2000	11:28 AM
ZZZZZZ	07/13/2000	11:34 AM
ZZZZZZ	07/13/2000	11:41 AM
CCV	07/13/2000	11:46 AM
CCB	07/13/2000	11:52 AM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: I50720A.ARC

Sample Name	Date of Analysis	Time of Analysis
STD1-Blank	07/20/2000	11:20 AM
CALSTD	07/20/2000	11:25 AM
CAL 2	07/20/2000	11:30 AM
ICV	07/20/2000	11:34 AM
ICB	07/20/2000	11:39 AM
CRI	07/20/2000	11:44 AM
ZZZZZ	07/20/2000	11:49 AM
ZZZZZ	07/20/2000	11:54 AM
ICSA	07/20/2000	11:59 AM
ICSAB	07/20/2000	12:04 PM
CCV	07/20/2000	12:10 PM
CCB	07/20/2000	12:17 PM
ZZZZZ	07/20/2000	12:22 PM
ZZZZZ	07/20/2000	12:28 PM
ZZZZZ	07/20/2000	12:33 PM
ZZZZZ	07/20/2000	12:39 PM
ZZZZZ	07/20/2000	12:44 PM
ZZZZZ	07/20/2000	12:50 PM
ZZZZZ	07/20/2000	12:55 PM
ZZZZZ	07/20/2000	1:01 PM
DFMOD	07/20/2000	1:06 PM
ZZZZZ	07/20/2000	1:11 PM
CCV	07/20/2000	1:18 PM
CCB	07/20/2000	1:24 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50721a.arc

Sample Name	Date of Analysis	Time of Analysis
STD1-Blank	07/21/2000	3:01 PM
CALSTD	07/21/2000	3:06 PM
CAL 2	07/21/2000	3:11 PM
ICV	07/21/2000	3:15 PM
ICB	07/21/2000	3:20 PM
CRI	07/21/2000	3:25 PM
ICSA	07/21/2000	3:30 PM
ZZZZZZ	07/21/2000	3:39 PM
ICSA	07/21/2000	3:57 PM
ICSAB	07/21/2000	4:02 PM
CCV	07/21/2000	4:08 PM
CCB	07/21/2000	4:15 PM
DGKGXB	07/21/2000	4:20 PM
DGKGXC	07/21/2000	4:25 PM
DFL4J	07/21/2000	4:30 PM
DFL4JL	07/21/2000	4:35 PM
DFM08	07/21/2000	4:40 PM
DFM09	07/21/2000	4:45 PM
DFM0A	07/21/2000	4:50 PM
DFM0C	07/21/2000	4:55 PM
DFM0D	07/21/2000	5:06 PM
DFM0E	07/21/2000	5:11 PM
CCV	07/21/2000	5:18 PM
CCB	07/21/2000	5:24 PM
DFM0F	07/21/2000	5:29 PM
DFM0FS	07/21/2000	5:34 PM
DFM0FD	07/21/2000	5:39 PM
DFM0G	07/21/2000	5:45 PM
DFM0H	07/21/2000	5:50 PM
DFM0J	07/21/2000	5:55 PM
DFM0K	07/21/2000	6:00 PM
DFM0N	07/21/2000	6:05 PM
DFM0P	07/21/2000	6:10 PM
DFM0Q	07/21/2000	6:15 PM
CCV	07/21/2000	6:22 PM
CCB	07/21/2000	6:28 PM
DFM0R	07/21/2000	6:33 PM
DFM0T	07/21/2000	6:38 PM
DFM0V	07/21/2000	6:43 PM
ZZZZZZ	07/21/2000	6:50 PM
ZZZZZZ	07/21/2000	6:55 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50721a.arc

Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZZ</i>	07/21/2000	7:02 PM
<i>ZZZZZZ</i>	07/21/2000	7:07 PM
<i>ZZZZZZ</i>	07/21/2000	7:12 PM
<i>ZZZZZZ</i>	07/21/2000	7:17 PM
<i>ZZZZZZ</i>	07/21/2000	7:22 PM
CCV	07/21/2000	7:29 PM
CCB	07/21/2000	7:35 PM

CLIENT	NS Mayport	JOB NUMBER	
SUBJECT	Sample Calculation		
BASED ON	Sample MPT - G4-SU-12-06	DRAWING NUMBER	
BY	GTAP	CHECKED BY	
		APPROVED BY	DATE

Arsenic = 2.5 mg/kg =

$$\frac{21.50 \mu\text{g}}{\text{L}} \times \frac{1\text{L}}{1000\text{ml}} \times \frac{100\text{ml}}{1\text{g}} \times \frac{1000\text{g}}{1\text{kg}} \times \frac{1\text{mg}}{1000\mu\text{g}} \times .86 = 2.5 \text{ mg/kg}$$

#1	15.88	-.8492	25.23	92.97	36.54	35.67	1.965
#2	15.64	4.835	25.20	92.17	34.88	34.48	.4514
Errors High	LC Pass 25000.	LC Pass 20000.	LC Pass 50000.	LC Pass 10000.	NOCHECK	NOCHECK	NOCHECK
Low	-1000.	-1000.	-1000.	-1000.			
Elem Units	2068/1 PPB	1960/1 PPB	1960/2 PPB				
Avg	3.966	3.885	.4531				
SDev	1.024	.404	1.505				
%RSD	25.82	10.39	332.2				
#1	4.690	4.171	-.6112				
#2	3.242	3.600	1.517				
Errors High	NOCHECK	NOCHECK	NOCHECK				
Low							
IntStd Mode	1 Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Elem	Y	---	---	---	---	---	---
Wavlen	371.030	---	---	---	---	---	---
Avg	11766	---	---	---	---	---	---
SDev	81.67083	---	---	---	---	---	---
%RSD	.6941405	---	---	---	---	---	---
#1	11708	---	---	---	---	---	---
#2	11824	---	---	---	---	---	---

Method: TOTAL Sample Name: DFMOK Operator: MJC
 Run Time: 07/12/00 16:03:54
 Comment: MPT-G4-SU-12-06 GPg-11-00
 Mode: CONC Corr. Factor: 1

Elem Units	Ag PPB	Al PPB	As PPB	B PPB	Ba PPB	Be PPB	Ca PPB
Avg	-.3037	11760.	21.50	24.72	38.72	.3248	344400.
SDev	.4788	14.	.62	1.22	.04	.0074	106.
%RSD	157.6	.1152	2.898	4.920	.1108	2.269	.0307
#1	-.6423	11750.	21.06	23.86	38.75	.3195	344300.
#2	.0348	11770.	21.95	25.58	38.69	.3300	344400.
Errors High	LC Pass 2000.	LC Pass 500000.	LC Pass 10000.	LC Pass 50000.	LC Pass 25000.	LC Pass 4000.	LC Pass 600000.
Low	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.
Elem Units	Cd PPB	Co PPB	Cr PPB	Cu PPB	Fe PPB	K PPB	Mg PPB
Avg	.4021	2.774	34.04	11.94	13790.	1074.	4180.
SDev	.0438	.064	.29	.03	4.	1.	1.
%RSD	10.89	2.318	.8651	.2129	.0255	.0580	.0226
#1	.4330	2.728	33.83	11.96	13790.	1075.	4181.
#2	.3711	2.819	34.25	11.93	13790.	1074.	4180.

Errors	LC Pass						
High	2500.	50000.	50000.	30000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.

Elem	Mn	Mo	Na3302	Ni	Pb	Se	Sb
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	164.9	27.24	5608.	9.164	21.95	2.557	1.376
SDev	.2	.22	69.	.023	.15	1.577	.368
%RSD	.1203	.8147	1.222	.2554	.7030	61.67	26.74

#1	164.8	27.39	5559.	9.147	22.06	1.442	1.636
#2	165.0	27.08	5656.	9.180	21.84	3.672	1.116

Errors	LC Pass						
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.

Elem	Sn	Tl	V	Zn	2203/1	2203/2	2068/2
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	13.65	1.722	29.65	68.29	21.59	22.14	.8435
SDev	.21	.223	.12	.24	.28	.09	.5203
%RSD	1.503	12.94	.4118	.3481	1.306	.4094	61.68

#1	13.80	1.565	29.57	68.13	21.78	22.20	1.211
#2	13.51	1.880	29.74	68.46	21.39	22.07	.4756

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	25000.	20000.	50000.	10000.			
Low	-1000.	-1000.	-1000.	-1000.			

Elem	2068/1	1960/1	1960/2
Units	PPB	PPB	PPB
Avg	1.642	10.77	-1.543
SDev	.292	1.75	1.489
%RSD	17.78	16.26	96.50

#1	1.848	9.531	-2.597
#2	1.436	12.01	-.4903

Errors	NOCHECK	NOCHECK	NOCHECK
High			
Low			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	12049	--	--	--	--	--	--
SDev	28.99138	--	--	--	--	--	--
%RSD	.2406123	--	--	--	--	--	--
#1	12070	--	--	--	--	--	--
#2	12028	--	--	--	--	--	--

SDG NARRATIVE
MP014

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples MPT-G4-SU-14-09, MPT-G4-SU-15-08, MPT-G4-SU-16-09, MPT-G4-SU-17-08, and MPT-G4-SU-DU01 for batch 0195327 were not prepped with the Magnesium Chloride reagent as stated in the SOP.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS/Sample Duplicate Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: AOF300248

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DFQ2R101 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	AOG050000-465 07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DG034101 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	AOG100000-372 07/10-07/11/00	0192372
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGLFH101 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	AOG110000-428 07/11-07/12/00	0193428
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOG010104

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DFQ2R101 0.50	mg/kg	MB Lot-Sample #: AOG050000-465 SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DG1FH101 10.0	%	MB Lot-Sample #: AOG110000-428 MCAW 160.3 MOD	07/11-07/12/00	0193428
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: AOG010105

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DFQ2R101 0.50	mg/kg	MB Lot-Sample #: AOG050000-465 SW846 9012A	07/05-07/06/00	0187465
		Dilution Factor: 1				
Cyanide, Total	ND	Work Order #: DG599101 0.50	mg/kg	MB Lot-Sample #: AOG130000-327 SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGLJA101 10.0	%	MB Lot-Sample #: AOG110000-455 MCAWW 160.3 MOD	07/11-07/12/00	0193455
		Dilution Factor: 1				

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

FIELD DUPLICATE PRECISION

COMPOUND	MPT-G4-SW-17-08	MPT-GW-SU-DU01	RPD	
Aluminum	2680	907	98.86	
Antimony	0.33U	0.40U	0.00	
Arsenic	0.89	1.4	44.54	
Barium	6	6.1	1.65	
Beryllium	0.02U	0.10U	0.00	
Cadmium	0.11U	0.07U	0.00	
Calcium	49900	75300	40.58	
Chromium	3.2	3.5	8.96	
Cobalt	0.22	0.57	88.61	OK
Copper	0.78	1.3	50.00	OK
Iron	701	1330	61.94	
Lead	1.5	1.4	6.90	
Magnesium	203	249	20.35	
Manganese	11.2	20.4	58.23	
Mercury	0.01	0.01	0.00	
Nickel	0.57	1	54.78	OK
Potassium	63.5	47.8	28.21	
Selenium	0.76	0.55U	200.00	OK
Silver	0.11U	0.11U	0.00	
Sodium	545U	771U	0.00	
Thallium	0.68U	0.71U	0.00	
Tin	1.6U	1.6U	0.00	
Vanadium	3.7	4.1	10.26	
Zinc	3.3U	3.8U	0.00	

OK - results are <5X CRDL and the difference between the results are <2X CRDL

Comparison of ICP Interference Affects
 SDG MP014
 Mayport

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-02-05	6.7	Calcium	462916	1	83700	0.18	—
Cadmium	MPT-G4-SU-02-05	0.11	Calcium	462916	2	83700	0.36	-u-
Chromium	MPT-G4-SU-02-05	5.1	Calcium	462916	-3	83700	-0.54	J
Cobalt	MPT-G4-SU-02-05	0.3	Calcium	462916	3	83700	0.54	J
Copper	MPT-G4-SU-02-05	0.89	Calcium	462916	3	83700	0.54	J
Manganese	MPT-G4-SU-02-05	11.2	Calcium	462916	8	83700	1.45	J
Nickel	MPT-G4-SU-02-05	0.66	Calcium	462916	3	83700	0.54	J
Potassium	MPT-G4-SU-02-05	43.1	Calcium	462916	-25	83700	-4.52	J
Selenium	MPT-G4-SU-02-05	0.61U	Calcium	462916	5	83700	0.90	J
Sodium	MPT-G4-SU-02-05	34.2U	Calcium	462916	-1400	83700	-253.13	uJ
Vanadium	MPT-G4-SU-02-05	4.6	Calcium	462916	-2	83700	-0.36	J
Zinc	MPT-G4-SU-02-05	7.2	Calcium	462916	22	83700	3.98	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-05-04	6.8	Calcium	462916	1	53700	0.12	—
Cadmium	MPT-G4-SU-05-04	0.06	Calcium	462916	2	53700	0.23	-u-
Chromium	MPT-G4-SU-05-04	5.9	Calcium	462916	-3	53700	-0.35	J
Cobalt	MPT-G4-SU-05-04	0.72	Calcium	462916	3	53700	0.35	J
Copper	MPT-G4-SU-05-04	1.5	Calcium	462916	3	53700	0.35	J
Manganese	MPT-G4-SU-05-04	26.3	Calcium	462916	8	53700	0.93	J
Nickel	MPT-G4-SU-05-04	1.1	Calcium	462916	3	53700	0.35	J
Potassium	MPT-G4-SU-05-04	153	Calcium	462916	-25	53700	-2.90	J
Selenium	MPT-G4-SU-05-04	0.60U	Calcium	462916	5	53700	0.58	—
Sodium	MPT-G4-SU-05-04	521	Calcium	462916	-1400	53700	-162.41	-u-
Vanadium	MPT-G4-SU-05-04	5.5	Calcium	462916	-2	53700	-0.23	J
Zinc	MPT-G4-SU-05-04	9.8	Calcium	462916	22	53700	2.55	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-06-07	6.7	Calcium	462916	1	264000	0.57	—
Cadmium	MPT-G4-SU-06-07	0.04U	Calcium	462916	2	264000	1.14	—
Chromium	MPT-G4-SU-06-07	1.1	Calcium	462916	-3	264000	-1.71	J
Cobalt	MPT-G4-SU-06-07	0.09U	Calcium	462916	3	264000	1.71	J
Copper	MPT-G4-SU-06-07	1.5	Calcium	462916	3	264000	1.71	J
Manganese	MPT-G4-SU-06-07	15.5	Calcium	462916	8	264000	4.56	J
Nickel	MPT-G4-SU-06-07	0.22	Calcium	462916	3	264000	1.71	J
Potassium	MPT-G4-SU-06-07	33.5	Calcium	462916	-25	264000	-14.26	J
Selenium	MPT-G4-SU-06-07	0.59U	Calcium	462916	5	264000	2.85	J
Sodium	MPT-G4-SU-06-07	3100	Calcium	462916	-1400	264000	-798.42	J
Vanadium	MPT-G4-SU-06-07	0.98	Calcium	462916	-2	264000	-1.14	J
Zinc	MPT-G4-SU-06-07	3	Calcium	462916	22	264000	12.55	-u-

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-08-04	7.9	Calcium	462916	1	88800	0.19	—
Cadmium	MPT-G4-SU-08-04	0.05	Calcium	462916	2	88800	0.38	-u-
Chromium	MPT-G4-SU-08-04	1.8	Calcium	462916	-3	88800	-0.58	J
Cobalt	MPT-G4-SU-08-04	0.1	Calcium	462916	3	88800	0.58	J

Copper	MPT-G4-SU-08-04	1.7	Calcium	462916	3	88800	0.58	J
Manganese	MPT-G4-SU-08-04	9.1	Calcium	462916	8	88800	1.53	J
Nickel	MPT-G4-SU-08-04	0.49	Calcium	462916	3	88800	0.58	J
Potassium	MPT-G4-SU-08-04	25.5	Calcium	462916	-25	88800	-4.80	J
Selenium	MPT-G4-SU-08-04	0.55U	Calcium	462916	5	88800	0.96	J
Sodium	MPT-G4-SU-08-04	775	Calcium	462916	-1400	88800	-268.56	-U-
Vanadium	MPT-G4-SU-08-04	2	Calcium	462916	-2	88800	-0.38	J
Zinc	MPT-G4-SU-08-04	9.8	Calcium	462916	22	88800	4.22	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-09-11	3.3	Calcium	462916	1	131000	0.28	J
Cadmium	MPT-G4-SU-09-11	0.04U	Calcium	462916	2	131000	0.57	J
Chromium	MPT-G4-SU-09-11	2.1	Calcium	462916	-3	131000	-0.85	J
Cobalt	MPT-G4-SU-09-11	0.14	Calcium	462916	3	131000	0.85	J
Copper	MPT-G4-SU-09-11	0.27	Calcium	462916	3	131000	0.85	J
Manganese	MPT-G4-SU-09-11	20.9	Calcium	462916	8	131000	2.26	J
Nickel	MPT-G4-SU-09-11	0.68	Calcium	462916	3	131000	0.85	J
Potassium	MPT-G4-SU-09-11	39.9	Calcium	462916	-25	131000	-7.07	J
Selenium	MPT-G4-SU-09-11	0.56U	Calcium	462916	5	131000	1.41	J
Sodium	MPT-G4-SU-09-11	1250	Calcium	462916	-1400	131000	-396.18	J
Vanadium	MPT-G4-SU-09-11	0.76	Calcium	462916	-2	131000	-0.57	J
Zinc	MPT-G4-SU-09-11	2.8	Calcium	462916	22	131000	6.23	-U-

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-11-06	5.1	Calcium	462916	1	72900	0.16	J
Cadmium	MPT-G4-SU-11-06	0.07	Calcium	462916	2	72900	0.31	-U-
Chromium	MPT-G4-SU-11-06	3.8	Calcium	462916	-3	72900	-0.47	J
Cobalt	MPT-G4-SU-11-06	0.32	Calcium	462916	3	72900	0.47	J
Copper	MPT-G4-SU-11-06	1.9	Calcium	462916	3	72900	0.47	J
Manganese	MPT-G4-SU-11-06	31.7	Calcium	462916	8	72900	1.26	J
Nickel	MPT-G4-SU-11-06	0.95	Calcium	462916	3	72900	0.47	J
Potassium	MPT-G4-SU-11-06	94.8	Calcium	462916	-25	72900	-3.94	J
Selenium	MPT-G4-SU-11-06	0.58U	Calcium	462916	5	72900	0.79	J
Sodium	MPT-G4-SU-11-06	425	Calcium	462916	-1400	72900	-220.47	-U-
Vanadium	MPT-G4-SU-11-06	3	Calcium	462916	-2	72900	-0.31	J
Zinc	MPT-G4-SU-11-06	10.9	Calcium	462916	22	72900	3.46	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-12-06	4.5	Calcium	462916	1	40200	0.09	J
Cadmium	MPT-G4-SU-12-06	0.05	Calcium	462916	2	40200	0.17	-U-
Chromium	MPT-G4-SU-12-06	4	Calcium	462916	-3	40200	-0.26	J
Cobalt	MPT-G4-SU-12-06	0.32	Calcium	462916	3	40200	0.26	J
Copper	MPT-G4-SU-12-06	1.4	Calcium	462916	3	40200	0.26	J
Manganese	MPT-G4-SU-12-06	19.3	Calcium	462916	8	40200	0.69	J
Nickel	MPT-G4-SU-12-06	1.1	Calcium	462916	3	40200	0.26	J
Potassium	MPT-G4-SU-12-06	126	Calcium	462916	-25	40200	-2.17	J
Selenium	MPT-G4-SU-12-06	0.57U	Calcium	462916	5	40200	0.43	J
Sodium	MPT-G4-SU-12-06	384	Calcium	462916	-1400	40200	-121.58	-U-
Vanadium	MPT-G4-SU-12-06	3.5	Calcium	462916	-2	40200	-0.17	J
Zinc	MPT-G4-SU-12-06	8	Calcium	462916	22	40200	1.91	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action
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						Sample		
Barium	MPT-G4-SU-13-06	4.8	Calcium	462916	1	68200	0.15	—
Cadmium	MPT-G4-SU-13-06	0.06	Calcium	462916	2	68200	0.29	-u-
Chromium	MPT-G4-SU-13-06	3.9	Calcium	462916	-3	68200	-0.44	J
Cobalt	MPT-G4-SU-13-06	0.31	Calcium	462916	3	68200	0.44	J
Copper	MPT-G4-SU-13-06	2.5	Calcium	462916	3	68200	0.44	J
Manganese	MPT-G4-SU-13-06	24.3	Calcium	462916	8	68200	1.18	—
Nickel	MPT-G4-SU-13-06	1.1	Calcium	462916	3	68200	0.44	J
Potassium	MPT-G4-SU-13-06	90.4	Calcium	462916	-25	68200	-3.68	—
Selenium	MPT-G4-SU-13-06	0.60U	Calcium	462916	5	68200	0.74	—
Sodium	MPT-G4-SU-13-06	698	Calcium	462916	-1400	68200	-206.26	-u-
Vanadium	MPT-G4-SU-13-06	3	Calcium	462916	-2	68200	-0.29	—
Zinc	MPT-G4-SU-13-06	13.6	Calcium	462916	22	68200	3.24	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-14-09	5	Calcium	462916	1	89900	0.19	—
Cadmium	MPT-G4-SU-14-09	0.09	Calcium	462916	2	89900	0.39	-u-
Chromium	MPT-G4-SU-14-09	6.6	Calcium	462916	-3	89900	-0.58	—
Cobalt	MPT-G4-SU-14-09	0.36	Calcium	462916	3	89900	0.58	J
Copper	MPT-G4-SU-14-09	0.81	Calcium	462916	3	89900	0.58	J
Manganese	MPT-G4-SU-14-09	35.2	Calcium	462916	8	89900	1.55	—
Nickel	MPT-G4-SU-14-09	0.87	Calcium	462916	3	89900	0.58	J
Potassium	MPT-G4-SU-14-09	114	Calcium	462916	-25	89900	-4.86	—
Selenium	MPT-G4-SU-14-09	0.63U	Calcium	462916	5	89900	0.97	—
Sodium	MPT-G4-SU-14-09	765	Calcium	462916	-1400	89900	-271.89	-u-
Vanadium	MPT-G4-SU-14-09	3.4	Calcium	462916	-2	89900	-0.39	J
Zinc	MPT-G4-SU-14-09	5.4	Calcium	462916	22	89900	4.27	-u-

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-15-08	2.4	Calcium	462916	1	38600	0.08	—
Cadmium	MPT-G4-SU-15-08	0.03U	Calcium	462916	2	38600	0.17	—
Chromium	MPT-G4-SU-15-08	1.9	Calcium	462916	-3	38600	-0.25	J
Cobalt	MPT-G4-SU-15-08	0.13	Calcium	462916	3	38600	0.25	J
Copper	MPT-G4-SU-15-08	0.3	Calcium	462916	3	38600	0.25	J
Manganese	MPT-G4-SU-15-08	12.4	Calcium	462916	8	38600	0.67	—
Nickel	MPT-G4-SU-15-08	0.36	Calcium	462916	3	38600	0.25	J
Potassium	MPT-G4-SU-15-08	44.4	Calcium	462916	-25	38600	-2.08	—
Selenium	MPT-G4-SU-15-08	0.53U	Calcium	462916	5	38600	0.42	—
Sodium	MPT-G4-SU-15-08	109	Calcium	462916	-1400	38600	-116.74	-u-
Vanadium	MPT-G4-SU-15-08	1.3	Calcium	462916	-2	38600	-0.17	J
Zinc	MPT-G4-SU-15-08	2.6	Calcium	462916	22	38600	1.83	-u-

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-16-09	5.3	Calcium	462916	1	42300	0.09	—
Cadmium	MPT-G4-SU-16-09	0.04U	Calcium	462916	2	42300	0.18	—
Chromium	MPT-G4-SU-16-09	4	Calcium	462916	-3	42300	-0.27	J
Cobalt	MPT-G4-SU-16-09	0.26	Calcium	462916	3	42300	0.27	J
Copper	MPT-G4-SU-16-09	0.42	Calcium	462916	3	42300	0.27	J
Manganese	MPT-G4-SU-16-09	19.3	Calcium	462916	8	42300	0.73	—
Nickel	MPT-G4-SU-16-09	0.54	Calcium	462916	3	42300	0.27	J
Potassium	MPT-G4-SU-16-09	64.8	Calcium	462916	-25	42300	-2.28	—
Selenium	MPT-G4-SU-16-09	0.57U	Calcium	462916	5	42300	0.46	—
Sodium	MPT-G4-SU-16-09	1110	Calcium	462916	-1400	42300	-127.93	J

Vanadium	MPT-G4-SU-16-09	1.8	Calcium	462916	-2	42300	-0.18	J
Zinc	MPT-G4-SU-16-09	3.3	Calcium	462916	22	42300	2.01	-U-

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-17-08	6	Calcium	462916	1	49900	0.11	-
Cadmium	MPT-G4-SU-17-08	0.11	Calcium	462916	2	49900	0.22	-U-
Chromium	MPT-G4-SU-17-08	3.2	Calcium	462916	-3	49900	-0.32	J
Cobalt	MPT-G4-SU-17-08	0.22	Calcium	462916	3	49900	0.32	J
Copper	MPT-G4-SU-17-08	0.78	Calcium	462916	3	49900	0.32	J
Manganese	MPT-G4-SU-17-08	11.2	Calcium	462916	8	49900	0.86	-
Nickel	MPT-G4-SU-17-08	0.57	Calcium	462916	3	49900	0.32	J
Potassium	MPT-G4-SU-17-08	63.5	Calcium	462916	-25	49900	-2.69	-
Selenium	MPT-G4-SU-17-08	0.76	Calcium	462916	5	49900	0.54	J
Sodium	MPT-G4-SU-17-08	545	Calcium	462916	-1400	49900	-150.91	-U-
Vanadium	MPT-G4-SU-17-08	3.7	Calcium	462916	-2	49900	-0.22	-
Zinc	MPT-G4-SU-17-08	3.3	Calcium	462916	22	49900	2.37	-U-

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-DU01	6.1	Calcium	462916	1	75300	0.16	-
Cadmium	MPT-G4-SU-DU01	0.07	Calcium	462916	2	75300	0.33	-U-
Chromium	MPT-G4-SU-DU01	3.5	Calcium	462916	-3	75300	-0.49	J
Cobalt	MPT-G4-SU-DU01	0.57	Calcium	462916	3	75300	0.49	J
Copper	MPT-G4-SU-DU01	1.3	Calcium	462916	3	75300	0.49	J
Manganese	MPT-G4-SU-DU01	20.4	Calcium	462916	8	75300	1.30	-
Nickel	MPT-G4-SU-DU01	1	Calcium	462916	3	75300	0.49	J
Potassium	MPT-G4-SU-DU01	74.8	Calcium	462916	-25	75300	-4.07	-
Selenium	MPT-G4-SU-DU01	0.55U	Calcium	462916	5	75300	0.81	-
Sodium	MPT-G4-SU-DU01	771	Calcium	462916	-1400	75300	-227.73	-U-
Vanadium	MPT-G4-SU-DU01	4.1	Calcium	462916	-2	75300	-0.33	-
Zinc	MPT-G4-SU-DU01	3.8	Calcium	462916	22	75300	3.58	-U-

MEMO TO: TERRY HANSEN
DATE: NOVEMBER 16, 2000 – PAGE 2

- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A.

VOLATILE FRACTION

The following compound was detected in the laboratory method blank at the maximum concentration indicated below:

<u>Compound</u>	<u>Concentration</u>	<u>Soil Action Level</u>
Methylene chloride	2.0 µg/kg	20.0 µg/kg

Blank Actions

- Value < Contract Required Quantitation Limit (CRQL); report CRQL followed by a U.
- Value > CRQL and < Action level; report value followed by a U.
- Value > CRQL and > action level; report value unqualified.

Dilution factors, percent moisture, and sample aliquots were taken into consideration during the application of all action levels. The positive results were qualified as (U) as a result of blank contamination for methylene chloride.

The initial and continuing calibration Relative Response Factors (RRFs) were below the 0.05 quality control limit for acrolein, acetonitrile, and isobutyl alcohol. Only nondetected results were reported for these compounds and these were qualified as rejected (UR), in all samples.

The continuing calibration Percent Differences (%Ds) exceeded the 25% quality control limit for vinyl acetate, methacrylonitrile, isobutyl alcohol, and methyl methacrylate. Only nondetected results were reported for these compounds and these results were qualified as estimated (UJ). All results for isobutyl alcohol were rejected and did not require further qualification.

The continuing calibration RRFs were below the 0.05 quality control limit for propionitrile on 7/5/00. Only nondetected results were reported for these compounds and these were qualified as rejected (UR), in samples MPT-G4-SU-13-06, MPT-G4-SU-14-09, MPT-G4-SU-15-08, MPT-G4-SU-16-09, and MPT-G4-SU-17-08.

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) Relative Percent Difference (RPD) exceeded the upper control limits for several compounds. No action was warranted based on MS/MSD noncompliances alone.

MS/MSD and Laboratory Control Sample (LCS) Percent Recoveries (%Rs) were outside the lower and upper control limits, respectively, for several compounds. No action was warranted based on MS/MSD or LCS noncompliances alone.

SEMIVOLATILE FRACTION

Initial and continuing calibration RRFs were below the quality control limit for 4-nitroquinoline-1-oxide. Only nondetected results were reported for this compound and these were qualified as rejected (UR).

MEMO TO: TERRY HANSEN
DATE: NOVEMBER 16, 2000 – PAGE 3

The initial calibration %RSD was >30% but <50% for 4-nitroquinoline-1-oxide. No action was warranted based on only nondetected results were reported, and the %RSD was <50% for this compound.

The continuing calibration %Ds exceeded the 25% quality control limits from 7/13/00 to 7/16/00 for 2,4-dinitrophenol, 1,4-dioxane, 4-nitroaniline, dinoseb, 4-nitroquinoline-1-oxide, and 3-methylchloanthrene. Only nondetected results were reported for these compounds and these results were qualified as estimated (UJ).

The continuing calibration %Ds exceeded the 25% quality control limits on 7/9/00 for a,a-dimethylphenethylamine. Only nondetected results were reported for this compound and these were qualified as estimated (UJ).

The continuing calibration %Ds exceeded the 25% quality control limits on 7/13/00 for 3,3'-dimethylbenzidine. Only nondetected results were reported for this compound and these were qualified as estimated (UJ).

The initial calibration %RSD was >30% but <50% for 2-acetylaminofluorene. No action was warranted based on only nondetected results were reported, and the %RSD was <50% for this compound.

The LCS %R exceeded the upper control limit for 2,4-dinitrotoluene. No action was warranted based on LCS noncompliances alone.

The LCS %R was below the lower control limit for 4-chloroaniline. No action was warranted based on LCS noncompliances alone.

The MS/MSD %Rs were outside the lower and upper control limits, respectively, for several compounds. No action was warranted based on MS/MSD noncompliances alone.

The MS/MSD %R was below ten percent for 4-nitrophenol. No action was warranted since the MS/MSD was not associated with a sample within this SDG.

The MSD %Rs were below ten percent for pentachlorophenol, 2,4-dinitrophenol, hexachlorocyclopentadiene, and 4,6-dinitro-2-methylphenol. In addition, the surrogate %Rs were below the lower control limits for the MSD sample. However, no action was warranted since the MS and LCS %Rs were within control limits and only nondetected results were reported.

ADDITIONAL COMMENTS

Several samples contained positive results for compounds below the reporting limits. These results were qualified as estimated (J).

It should be noted that according to the laboratory statement of work (SOW) both the volatile and semivolatile fraction both were to contain 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Since this would create data management problems, the laboratory reported these compounds in the semivolatile fraction only. It was not necessary to qualify any data based on this issue.

The analytical SOW listed pentachloroethane to be analyzed and reported as a volatile compound but the laboratory analyzed and reported this compound as a semivolatile compound. It was not necessary to qualify any data based on this issue.

MEMO TO: TERRY HANSEN
DATE: NOVEMBER 16, 2000 – PAGE 4

The laboratory reported allyl chloride, which according to the analytical SOW was not a required volatile target compound. Because allyl chloride is an Appendix IX compound it was determined that this compound should remain in the database.

The laboratory reported Dinoseb, a,a-dimethylphenethylamine, chlorobenzilate, diallate, and N-nitrosopiperidine, which according to the analytical SOW were not required semivolatile target compounds. Because the aforementioned are Appendix IX compounds it was determined that these compounds should remain in the database.

The laboratory did not report hexachlorophene as requested in the analytical SOW. This compound is unstable and could not be analyzed.

EXECUTIVE SUMMARY

Laboratory Performance: The continuing calibration %Ds exceeded the quality control limits for 2,4-dinitrophenol and 4-nitroaniline. Methylene chloride was detected as a blank contaminant.

Other Factors Affection Data Quality: Several MS/MSD and LCS %Rs were outside the quality control limit in all the fractions.

MEMO TO: TERRY HANSEN
DATE: NOVEMBER 16, 2000 – PAGE 5

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1994), and the NFESC guidelines "Navy IRCDQM" (September 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



Justin Orbich

Chemist/Data Validator
Tetra Tech NUS



Joseph A. Samchuck

Data Validation Quality Assurance Officer
TetraTech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

DATA QUALIFIER DEFINITIONS:

- U - Value is a nondetected result as reported by the laboratory and should not be considered present.
- J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.
- UJ - Nondetected results is estimated as a result of a technical noncomplicane.
- UR - Nondetected result is rejected due to a severe technical noncompliance.

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCB D% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = % Solid content is less than 30%

APPENDIX A
Qualified Analytical Results

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-0123	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05
SAMPLE DATE:	06/28/00	06/26/00	06/27/00	06/27/00
LABORATORY ID:	A0G010104006	A0F300248001	A0F300248002	A0F300248003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	100.0 %	70.0 %	80.0 %	77.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,1,1-TRICHLOROETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,1,2,2-TETRACHLOROETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,1,2-TRICHLOROETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,1-DICHLOROETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,1-DICHLOROETHENE	4.8	U		8.7	U		6.2	U		6.7	U	
1,2,3-TRICHLOROPROPANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,2-DIBROMO-3-CHLOROPROPANE	9.6	U		17	U		12	U		13	U	
1,2-DIBROMOETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,2-DICHLOROETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
1,2-DICHLOROETHENE (TOTAL)	4.8	U		8.7	U		6.2	U		6.7	U	
1,2-DICHLOROPROPANE	4.8	U		8.7	U		6.2	U		6.7	U	
2-BUTANONE	19	U		35	U		25	U		27	U	
2-CHLOROETHYL VINYL ETHER	48	U		87	U		62	U		67	U	
2-HEXANONE	19	U		35	U		25	U		27	U	
4-METHYL-2-PENTANONE	19	U		35	U		25	U		27	U	
ACETONE	19	U		35	U		25	U		27	U	
ACETONITRILE	96	UR	C	170	UR	C	120	UR	C	130	UR	C
ACROLEIN	96	UR	C	170	UR	C	120	UR	C	130	UR	C
ACRYLONITRILE	96	U		170	U		120	U		130	U	
ALLYL CHLORIDE	9.6	U		17	U		12	U		13	U	
BENZENE	4.8	U		8.7	U		6.2	U		6.7	U	
BROMODICHLOROMETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
BROMOFORM	4.8	U		8.7	U		6.2	U		6.7	U	
BROMOMETHANE	9.6	U		17	U		12	U		13	U	
CARBON DISULFIDE	4.8	U		8.7	U		6.2	U		6.7	U	
CARBON TETRACHLORIDE	4.8	U		8.7	U		6.2	U		6.7	U	
CHLOROBENZENE	4.8	U		8.7	U		6.2	U		6.7	U	
CHLOROETHANE	9.6	U		17	U		12	U		13	U	
CHLOROFORM	4.8	U		8.7	U		6.2	U		6.7	U	
CHLOROMETHANE	9.6	U		17	U		12	U		13	U	
CHLOROPRENE	4.8	U		8.7	U		6.2	U		6.7	U	
CIS-1,2-DICHLOROETHENE	2.4	U		4.3	U		3.1	U		3.3	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-0123	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05
SAMPLE DATE:	06/28/00	06/26/00	06/27/00	06/27/00
LABORATORY ID:	A0G010104006	A0F300248001	A0F300248002	A0F300248003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	100.0 %	70.0 %	80.0 %	77.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	4.8	U		8.7	U		6.2	U		6.7	U	
DIBROMOCHLOROMETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
DIBROMOMETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
DICHLORODIFLUOROMETHANE	9.6	U		17	U		12	U		13	U	
ETHYL METHACRYLATE	4.8	U		8.7	U		6.2	U		6.7	U	
ETHYLBENZENE	4.8	U		8.7	U		6.2	U		6.7	U	
IODOMETHANE	4.8	U		8.7	U		6.2	U		6.7	U	
ISOBUTYL ALCOHOL	190	UR	C	350	UR	C	250	UR	C	270	UR	C
METHACRYLONITRILE	4.8	UJ	C	8.7	U		6.2	U		6.7	U	
METHYL METHACRYLATE	4.8	UJ	C	8.7	U		6.2	U		6.7	U	
METHYL TERT-BUTYL ETHER	19	U		35	U		25	U		27	U	
METHYLENE CHLORIDE	4.8	U	A	8.7	U	A	6.2	U	A	6.7	U	A
PROPIONITRILE	19	UR	C	35	U		25	U		27	U	
STYRENE	4.8	U		8.7	U		6.2	U		6.7	U	
TETRACHLOROETHENE	4.8	U		8.7	U		6.2	U		6.7	U	
TOLUENE	4.8	U		8.7	U		6.2	U		6.7	U	
TRANS-1,2-DICHLOROETHENE	2.4	U		4.3	U		3.1	U		3.3	U	
TRANS-1,3-DICHLOROPROPENE	4.8	U		8.7	U		6.2	U		6.7	U	
TRANS-1,4-DICHLORO-2-BUTENE	4.8	U		8.7	U		6.2	U		6.7	U	
TRICHLOROETHENE	4.8	U		8.7	U		6.2	U		6.7	U	
TRICHLOROFLUOROMETHANE	9.6	U		17	U		12	U		13	U	
VINYL ACETATE	9.6	U		17	UJ	C	12	UJ	C	13	UJ	C
VINYL CHLORIDE	9.6	U		17	U		12	U		13	U	
XYLENES, TOTAL	4.8	U		8.7	U		6.2	U		6.7	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-04-04	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F300248004	A0F300248005	A0F300248006	A0F300248007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	82.0 %	83.0 %	79.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,1,1-TRICHLOROETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,1,2,2-TETRACHLOROETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,1,2-TRICHLOROETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,1-DICHLOROETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,1-DICHLOROETHENE	5.5	U		5.6	U		5.7	U		5.9	U	
1,2,3-TRICHLOROPROPANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,2-DIBROMO-3-CHLOROPROPANE	11	U		11	U		11	U		12	U	
1,2-DIBROMOETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,2-DICHLOROETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
1,2-DICHLOROETHENE (TOTAL)	5.5	U		5.6	U		5.7	U		5.9	U	
1,2-DICHLOROPROPANE	5.5	U		5.6	U		5.7	U		5.9	U	
2-BUTANONE	22	U		5.7	J	P	23	U		24	U	
2-CHLOROETHYL VINYL ETHER	55	U		56	U		57	U		59	U	
2-HEXANONE	22	U		22	U		23	U		24	U	
4-METHYL-2-PENTANONE	22	U		22	U		23	U		24	U	
ACETONE	5.1	J	P	26			23	U		24	U	
ACETONITRILE	110	UR	C	110	UR	C	110	UR	C	120	UR	C
ACROLEIN	110	UR	C	110	UR	C	110	UR	C	120	UR	C
ACRYLONITRILE	110	U		110	U		110	U		120	U	
ALLYL CHLORIDE	11	U		11	U		11	U		12	U	
BENZENE	5.5	U		5.6	U		5.7	U		5.9	U	
BROMODICHLOROMETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
BROMOFORM	5.5	U		5.6	U		5.7	U		5.9	U	
BROMOMETHANE	11	U		11	U		11	U		12	U	
CARBON DISULFIDE	5.5	U		5.6	U		5.7	U		5.9	U	
CARBON TETRACHLORIDE	5.5	U		5.6	U		5.7	U		5.9	U	
CHLOROBENZENE	5.5	U		5.6	U		5.7	U		5.9	U	
CHLOROETHANE	11	U		11	U		11	U		12	U	
CHLOROFORM	5.5	U		5.6	U		5.7	U		5.9	U	
CHLOROMETHANE	11	U		11	U		11	U		12	U	
CHLOROPRENE	5.5	U		5.6	U		5.7	U		5.9	U	
CIS-1,2-DICHLOROETHENE	2.8	U		2.8	U		2.9	U		3	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP014

SAMPLE NUMBER:	MPT-G4-SU-04-04	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F300248004	A0F300248005	A0F300248006	A0F300248007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	82.0 %	83.0 %	79.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.5	U		5.6	U		5.7	U		5.9	U	
DIBROMOCHLOROMETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
DIBROMOMETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
DICHLORODIFLUOROMETHANE	11	U		11	U		11	U		12	U	
ETHYL METHACRYLATE	5.5	U		5.6	U		5.7	U		5.9	U	
ETHYLBENZENE	5.5	U		5.6	U		5.7	U		5.9	U	
IODOMETHANE	5.5	U		5.6	U		5.7	U		5.9	U	
ISOBUTYL ALCOHOL	220	UR	C	220	UR	C	230	UR	C	240	UR	C
METHACRYLONITRILE	5.5	U		5.6	U		5.7	U		5.9	U	
METHYL METHACRYLATE	5.5	U		5.6	U		5.7	U		5.9	U	
METHYL TERT-BUTYL ETHER	22	U		22	U		23	U		24	U	
METHYLENE CHLORIDE	5.5	U	A	5.6	U	A	5.7	U	A	5.9	U	
PROPIONITRILE	22	U		22	U		23	U		24	U	
STYRENE	5.5	U		5.6	U		5.7	U		5.9	U	
TETRACHLOROETHENE	5.5	U		5.6	U		5.7	U		5.9	U	
TOLUENE	5.5	U		5.6	U		5.7	U		5.9	U	
TRANS-1,2-DICHLOROETHENE	2.8	U		2.8	U		2.9	U		3	U	
TRANS-1,3-DICHLOROPROPENE	5.5	U		5.6	U		5.7	U		5.9	U	
TRANS-1,4-DICHLORO-2-BUTENE	5.5	U		5.6	U		5.7	U		5.9	U	
TRICHLOROETHENE	5.5	U		5.6	U		5.7	U		5.9	U	
TRICHLOROFLUOROMETHANE	11	U		11	U		11	U		12	U	
VINYL ACETATE	11	UJ	C	11	UJ	C	11	UJ	C	12	UJ	C
VINYL CHLORIDE	11	U		11	U		11	U		12	U	
XYLENES, TOTAL	5.5	U		5.6	U		5.7	U		5.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-08-04	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104001	A0G010104002	A0G010104003	A0G010104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	88.0 %	87.0 %	81.0 %	85.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,1,1-TRICHLOROETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,1,2,2-TETRACHLOROETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,1,2-TRICHLOROETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,1-DICHLOROETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,1-DICHLOROETHENE	5.7	U		6.8	U		6.3	U		5.7	U	
1,2,3-TRICHLOROPROPANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,2-DIBROMO-3-CHLOROPROPANE	11	U		14	U		13	U		11	U	
1,2-DIBROMOETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,2-DICHLOROETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
1,2-DICHLOROETHENE (TOTAL)	5.7	U		6.8	U		6.3	U		5.7	U	
1,2-DICHLOROPROPANE	5.7	U		6.8	U		6.3	U		5.7	U	
2-BUTANONE	23	U		27	U		25	U		23	U	
2-CHLOROETHYL VINYL ETHER	57	U		68	U		63	U		57	U	
2-HEXANONE	23	U		27	U		25	U		23	U	
4-METHYL-2-PENTANONE	23	U		27	U		25	U		23	U	
ACETONE	2.8	J	P	27	U		25	U		23	U	
ACETONITRILE	110	UR	C	140	UR	C	130	UR	C	110	UR	C
ACROLEIN	110	UR	C	140	UR	C	130	UR	C	110	UR	C
ACRYLONITRILE	110	U		140	U		130	U		110	U	
ALLYL CHLORIDE	11	U		14	U		13	U		11	U	
BENZENE	5.7	U		6.8	U		6.3	U		5.7	U	
BROMODICHLOROMETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
BROMOFORM	5.7	U		6.8	U		6.3	U		5.7	U	
BROMOMETHANE	11	U		14	U		13	U		11	U	
CARBON DISULFIDE	5.7	U		6.8	U		6.3	U		5.7	U	
CARBON TETRACHLORIDE	5.7	U		6.8	U		6.3	U		5.7	U	
CHLOROBENZENE	5.7	U		6.8	U		6.3	U		5.7	U	
CHLOROETHANE	11	U		14	U		13	U		11	U	
CHLOROFORM	5.7	U		6.8	U		6.3	U		5.7	U	
CHLOROMETHANE	11	U		14	U		13	U		11	U	
CHLOROPRENE	5.7	U		6.8	U		6.3	U		5.7	U	
CIS-1,2-DICHLOROETHENE	2.9	U		3.4	U		3.1	U		2.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-08-04	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104001	A0G010104002	A0G010104003	A0G010104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	88.0 %	87.0 %	81.0 %	85.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.7	U		6.8	U		6.3	U		5.7	U	
DIBROMOCHLOROMETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
DIBROMOMETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
DICHLORODIFLUOROMETHANE	11	U		14	U		13	U		11	U	
ETHYL METHACRYLATE	5.7	U		6.8	U		6.3	U		5.7	U	
ETHYLBENZENE	5.7	U		6.8	U		6.3	U		5.7	U	
IODOMETHANE	5.7	U		6.8	U		6.3	U		5.7	U	
ISOBUTYL ALCOHOL	230	UR	C	270	UR	C	250	UR	C	230	UR	C
METHACRYLONITRILE	5.7	U		6.8	U		6.3	U		5.7	U	
METHYL METHACRYLATE	5.7	U		6.8	U		6.3	U		5.7	U	
METHYL TERT-BUTYL ETHER	23	U		27	U		25	U		23	U	
METHYLENE CHLORIDE	5.7	U		6.8	U	A	6.3	U		5.7	U	
PROPIONITRILE	23	U		27	U		25	U		23	U	
STYRENE	5.7	U		6.8	U		6.3	U		5.7	U	
TETRACHLOROETHENE	5.7	U		6.8	U		6.3	U		5.7	U	
TOLUENE	5.7	U		6.8	U		6.3	U		5.7	U	
TRANS-1,2-DICHLOROETHENE	2.9	U		3.4	U		3.1	U		2.9	U	
TRANS-1,3-DICHLOROPROPENE	5.7	U		6.8	U		6.3	U		5.7	U	
TRANS-1,4-DICHLORO-2-BUTENE	5.7	U		6.8	U		6.3	U		5.7	U	
TRICHLOROETHENE	5.7	U		6.8	U		6.3	U		5.7	U	
TRICHLOROFLUOROMETHANE	11	U		14	U		13	U		11	U	
VINYL ACETATE	11	UJ	C	14	UJ	C	13	UJ	C	11	UJ	C
VINYL CHLORIDE	11	U		14	U		13	U		11	U	
XYLENES, TOTAL	5.7	U		6.8	U		6.3	U		5.7	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	7	U		5.8	U		6	U		4.8	U	
1,1,1-TRICHLOROETHANE	7	U		5.8	U		6	U		4.8	U	
1,1,2,2-TETRACHLOROETHANE	7	U		5.8	U		6	U		4.8	U	
1,1,2-TRICHLOROETHANE	7	U		5.8	U		6	U		4.8	U	
1,1-DICHLOROETHANE	7	U		5.8	U		6	U		4.8	U	
1,1-DICHLOROETHENE	7	U		5.8	U		6	U		4.8	U	
1,2,3-TRICHLOROPROPANE	7	U		5.8	U		6	U		4.8	U	
1,2-DIBROMO-3-CHLOROPROPANE	14	U		12	U		12	U		9.7	U	
1,2-DIBROMOETHANE	7	U		5.8	U		6	U		4.8	U	
1,2-DICHLOROETHANE	7	U		5.8	U		6	U		4.8	U	
1,2-DICHLOROETHENE (TOTAL)	7	U		5.8	U		6	U		4.8	U	
1,2-DICHLOROPROPANE	7	U		5.8	U		6	U		4.8	U	
2-BUTANONE	28	U		23	U		24	U		19	U	
2-CHLOROETHYL VINYL ETHER	70	U		58	U		60	U		48	U	
2-HEXANONE	28	U		23	U		24	U		19	U	
4-METHYL-2-PENTANONE	28	U		23	U		24	U		19	U	
ACETONE	3.8	J	P	4.1	J	P	2.8	J	P	6.3	J	P
ACETONITRILE	140	UR	C	120	UR	C	120	UR	C	97	UR	C
ACROLEIN	140	UR	C	120	UR	C	120	UR	C	97	UR	C
ACRYLONITRILE	140	U		120	U		120	U		97	U	
ALLYL CHLORIDE	14	U		12	U		12	U		9.7	U	
BENZENE	7	U		5.8	U		6	U		4.8	U	
BROMODICHLOROMETHANE	7	U		5.8	U		6	U		4.8	U	
BROMOFORM	7	U		5.8	U		6	U		4.8	U	
BROMOMETHANE	14	U		12	U		12	U		9.7	U	
CARBON DISULFIDE	7	U		5.8	U		6	U		4.8	U	
CARBON TETRACHLORIDE	7	U		5.8	U		6	U		4.8	U	
CHLOROBENZENE	7	U		5.8	U		6	U		4.8	U	
CHLOROETHANE	14	U		12	U		12	U		9.7	U	
CHLOROFORM	7	U		5.8	U		6	U		4.8	U	
CHLOROMETHANE	14	U		12	U		12	U		9.7	U	
CHLOROPRENE	7	U		5.8	U		6	U		4.8	U	
CIS-1,2-DICHLOROETHENE	3.5	U		2.9	U		3	U		2.4	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	7	U		5.8	U		6	U		4.8	U	
DIBROMOCHLOROMETHANE	7	U		5.8	U		6	U		4.8	U	
DIBROMOMETHANE	7	U		5.8	U		6	U		4.8	U	
DICHLORODIFLUOROMETHANE	14	U		12	U		12	U		9.7	U	
ETHYL METHACRYLATE	7	U		5.8	U		6	U		4.8	U	
ETHYLBENZENE	7	U		5.8	U		6	U		4.8	U	
IODOMETHANE	7	U		5.8	U		6	U		4.8	U	
ISOBUTYL ALCOHOL	280	UR	C	230	UR	C	240	UR	C	190	UR	C
METHACRYLONITRILE	7	UJ	C	5.8	UJ	C	6	UJ	C	4.8	UJ	C
METHYL METHACRYLATE	7	UJ	C	5.8	UJ	C	6	UJ	C	4.8	UJ	C
METHYL TERT-BUTYL ETHER	28	U		23	U		24	U		19	U	
METHYLENE CHLORIDE	7	U	A	5.8	U		6	U		4.8	U	
PROPIONITRILE	28	UR	C	23	UR	C	24	UR	C	19	UR	C
STYRENE	7	U		5.8	U		6	U		4.8	U	
TETRACHLOROETHENE	7	U		5.8	U		6	U		4.8	U	
TOLUENE	7	U		5.8	U		6	U		4.8	U	
TRANS-1,2-DICHLOROETHENE	3.5	U		2.9	U		3	U		2.4	U	
TRANS-1,3-DICHLOROPROPENE	7	U		5.8	U		6	U		4.8	U	
TRANS-1,4-DICHLORO-2-BUTENE	7	U		5.8	U		6	U		4.8	U	
TRICHLOROETHENE	7	U		5.8	U		6	U		4.8	U	
TRICHLOROFLUOROMETHANE	14	U		12	U		12	U		9.7	U	
VINYL ACETATE	14	U		12	U		12	U		9.7	U	
VINYL CHLORIDE	14	U		12	U		12	U		9.7	U	
XYLENES, TOTAL	7	U		5.8	U		6	U		4.8	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-17-08	MPT-G4-SU-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010105005	A0G010105006		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	92.8 %	88.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:		MPT-G4-SU-17-08		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.4	U		5.7	U							
1,1,1-TRICHLOROETHANE	5.4	U		5.7	U							
1,1,1,2-TETRACHLOROETHANE	5.4	U		5.7	U							
1,1,2-TRICHLOROETHANE	5.4	U		5.7	U							
1,1-DICHLOROETHANE	5.4	U		5.7	U							
1,1-DICHLOROETHENE	5.4	U		5.7	U							
1,2,3-TRICHLOROPROPANE	5.4	U		5.7	U							
1,2-DIBROMO-3-CHLOROPROPANE	11	U		11	U							
1,2-DIBROMOETHANE	5.4	U		5.7	U							
1,2-DICHLOROETHANE	5.4	U		5.7	U							
1,2-DICHLOROETHENE (TOTAL)	5.4	U		5.7	U							
1,2-DICHLOROPROPANE	5.4	U		5.7	U							
2-BUTANONE	22	U		23	U							
2-CHLOROETHYL VINYL ETHER	54	U		57	U							
2-HEXANONE	22	U		23	U							
4-METHYL-2-PENTANONE	22	U		23	U							
ACETONE	22	U		23	U							
ACETONITRILE	110	UR	C	110	UR	C						
ACROLEIN	110	UR	C	110	UR	C						
ACRYLONITRILE	110	U		110	U							
ALLYL CHLORIDE	11	U		11	U							
BENZENE	5.4	U		5.7	U							
BROMODICHLOROMETHANE	5.4	U		5.7	U							
BROMOFORM	5.4	U		5.7	U							
BROMOMETHANE	11	U		11	U							
CARBON DISULFIDE	5.4	U		5.7	U							
CARBON TETRACHLORIDE	5.4	U		5.7	U							
CHLOROBENZENE	5.4	U		5.7	U							
CHLOROETHANE	11	U		11	U							
CHLOROFORM	5.4	U		5.7	U							
CHLOROMETHANE	11	U		11	U							
CHLOROPRENE	5.4	U		5.7	U							
CIS-1,2-DICHLOROETHENE	2.7	U		2.9	U							

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-17-08	MPT-G4-SU-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010105005	A0G010105006		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	92.8 %	88.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:		MPT-G4-SU-17-08		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.4	U		5.7	U							
DIBROMOCHLOROMETHANE	5.4	U		5.7	U							
DIBROMOMETHANE	5.4	U		5.7	U							
DICHLORODIFLUOROMETHANE	11	U		11	U							
ETHYL METHACRYLATE	5.4	U		5.7	U							
ETHYLBENZENE	5.4	U		5.7	U							
IODOMETHANE	5.4	U		5.7	U							
ISOBUTYL ALCOHOL	220	UR	C	230	UR	C						
METHACRYLONITRILE	5.4	UJ	C	5.7	UJ	C						
METHYL METHACRYLATE	5.4	UJ	C	5.7	UJ	C						
METHYL TERT-BUTYL ETHER	22	U		23	U							
METHYLENE CHLORIDE	5.4	U		5.7	U							
PROPIONITRILE	22	UR	C	23	UR	C						
STYRENE	5.4	U		5.7	U							
TETRACHLOROETHENE	5.4	U		5.7	U							
TOLUENE	5.4	U		5.7	U							
TRANS-1,2-DICHLOROETHENE	2.7	U		2.9	U							
TRANS-1,3-DICHLOROPROPENE	5.4	U		5.7	U							
TRANS-1,4-DICHLORO-2-BUTENE	5.4	U		5.7	U							
TRICHLOROETHENE	5.4	U		5.7	U							
TRICHLOROFUOROMETHANE	11	U		11	U							
VINYL ACETATE	11	U		11	U							
VINYL CHLORIDE	11	U		11	U							
XYLENES, TOTAL	5.4	U		5.7	U							

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05	MPT-G4-SU-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F300248001	A0F300248002	A0F300248003	A0F300248004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	70.0 %	80.0 %	77.0 %	80.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	470	U		410	U		430	U		420	U	
1,2,4-TRICHLOROENZENE	470	U		410	U		430	U		420	U	
1,2-DICHLOROENZENE	470	U		410	U		430	U		420	U	
1,3,5-TRINITROENZENE	2300	U		2000	U		2100	U		2000	U	
1,3-DICHLOROENZENE	470	U		410	U		430	U		420	U	
1,3-DINITROENZENE	470	U		410	U		430	U		420	U	
1,4-BENZENEDIAMINE	4700	U		4100	U		4300	U		4200	U	
1,4-DICHLOROENZENE	470	U		410	U		430	U		420	U	
1,4-DIOXANE	470	U		410	U		430	U		420	U	
1,4-NAPHTHOQUINONE	2300	U		2000	U		2100	U		2000	U	
1-NAPHTHYLAMINE	470	U		410	U		430	U		420	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	470	U		410	U		430	U		420	U	
2,3,4,6-TETRACHLOROPHENOL	2300	U		2000	U		2100	U		2000	U	
2,4,5-TRICHLOROPHENOL	470	U		410	U		430	U		420	U	
2,4,6-TRICHLOROPHENOL	470	U		410	U		430	U		420	U	
2,4-DICHLOROPHENOL	470	U		410	U		430	U		420	U	
2,4-DIMETHYLPHENOL	470	U		410	U		430	U		420	U	
2,4-DINITROPHENOL	2300	U		2000	U		2100	U		2000	U	
2,4-DINITROTOLUENE	470	U		410	U		430	U		420	U	
2,6-DICHLOROPHENOL	470	U		410	U		430	U		420	U	
2,6-DINITROTOLUENE	470	U		410	U		430	U		420	U	
2-ACETYLAMINOFLUORENE	4700	U		4100	U		4300	U		4200	U	
2-CHLORONAPHTHALENE	470	U		410	U		430	U		420	U	
2-CHLOROPHENOL	470	U		410	U		430	U		420	U	
2-METHYLNAPHTHALENE	470	U		410	U		430	U		420	U	
2-METHYLPHENOL	470	U		410	U		430	U		420	U	
2-NAPHTHYLAMINE	470	U		410	U		430	U		420	U	
2-NITROANILINE	2300	U		2000	U		2100	U		2000	U	
2-NITROPHENOL	470	U		410	U		430	U		420	U	
2-PICOLINE	940	U		830	U		860	U		830	U	
2-SEC-BUTYL-4,6-DINITROPHENOL	940	UJ	C	830	UJ	C	860	UJ	C	830	UJ	C
3,3'-DICHLOROENZIDINE	2300	U		2000	U		2100	U		2000	U	
3,3'-DIMETHYLBENZIDINE	2300	U		2000	U		2100	U		2000	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05	MPT-G4-SU-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F300248001	A0F300248002	A0F300248003	A0F300248004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	70.0 %	80.0 %	77.0 %	80.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	940	U		830	U		860	U		830	U	
3-METHYLPHENOL	470	U		410	U		430	U		420	U	
3-NITROANILINE	2300	U		2000	U		2100	U		2000	U	
4,6-DINITRO-2-METHYLPHENOL	2300	U		2000	U		2100	U		2000	U	
4-AMINOBIHENYL	2300	U		2000	U		2100	U		2000	U	
4-BROMOPHENYL PHENYL ETHER	470	U		410	U		430	U		420	U	
4-CHLORO-3-METHYLPHENOL	470	U		410	U		430	U		420	U	
4-CHLOROANILINE	470	U		410	U		430	U		420	U	
4-CHLOROPHENYL PHENYL ETHER	470	U		410	U		430	U		420	U	
4-METHYLPHENOL	470	U		410	U		430	U		420	U	
4-NITROANILINE	2300	U		2000	U		2100	U		2000	U	
4-NITROPHENOL	2300	U		2000	U		2100	U		2000	U	
4-NITROQUINOLINE-1-OXIDE	4700	UR	C	4100	UR	C	4300	UR	C	4200	UR	C
5-NITRO-O-TOLUIDINE	940	U		830	U		860	U		830	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	940	U		830	U		860	U		830	U	
A,A-DIMETHYLPHENETHYLAMINE	2300	U		2000	U		2100	U		2000	U	
ACENAPHTHENE	470	U		410	U		430	U		420	U	
ACENAPHTHYLENE	470	U		410	U		430	U		420	U	
ACETOPHENONE	470	U		410	U		430	U		420	U	
ANILINE	470	U		410	U		430	U		420	U	
ANTHRACENE	470	U		410	U		430	U		420	U	
ARAMITE	940	U		830	U		860	U		830	U	
BENZO(A)ANTHRACENE	470	U		410	U		430	U		420	U	
BENZO(A)PYRENE	470	U		410	U		430	U		420	U	
BENZO(B)FLUORANTHENE	470	U		410	U		430	U		420	U	
BENZO(G,H,I)PERYLENE	470	U		410	U		430	U		420	U	
BENZO(K)FLUORANTHENE	470	U		410	U		430	U		420	U	
BENZYL ALCOHOL	470	U		410	U		430	U		420	U	
BIS(2-CHLOROETHOXY)METHANE	470	U		410	U		430	U		420	U	
BIS(2-CHLOROETHYL)ETHER	470	U		410	U		430	U		420	U	
BIS(2-ETHYLHEXYL)PHTHALATE	470	U		410	U		430	U		420	U	
BUTYLBENZYL PHTHALATE	470	U		410	U		430	U		420	U	
CARBAZOLE	470	U		410	U		430	U		420	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05	MPT-G4-SU-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	AOF300248001	AOF300248002	AOF300248003	AOF300248004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	70.0 %	80.0 %	77.0 %	80.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHLOROBENZILATE	470	U		410	U		430	U		420	U	
CHRYSENE	470	U		410	U		430	U		420	U	
DI-N-BUTYL PHTHALATE	470	U		410	U		430	U		420	U	
DI-N-OCTYL PHTHALATE	470	U		410	U		430	U		420	U	
DIALLATE	940	U		830	U		860	U		830	U	
DIBENZO(A,H)ANTHRACENE	470	U		410	U		430	U		420	U	
DIBENZOFURAN	470	U		410	U		430	U		420	U	
DIETHYL PHTHALATE	470	U		410	U		430	U		420	U	
DIMETHYL PHTHALATE	470	U		410	U		430	U		420	U	
DIPHENYLAMINE	470	U		410	U		430	U		420	U	
ETHYL METHANESULFONATE	470	U		410	U		430	U		420	U	
FLUORANTHENE	470	U		410	U		430	U		330	J	P
FLUORENE	470	U		410	U		430	U		420	U	
HEXACHLOROBENZENE	470	U		410	U		430	U		420	U	
HEXACHLOROBUTADIENE	470	U		410	U		430	U		420	U	
HEXACHLOROCYCLOPENTADIENE	2300	U		2000	U		2100	U		2000	U	
HEXACHLOROETHANE	470	U		410	U		430	U		420	U	
HEXACHLOROPROPENE	4700	U		4100	U		4300	U		4200	U	
INDENO(1,2,3-CD)PYRENE	470	U		410	U		430	U		420	U	
ISOPHORONE	470	U		410	U		430	U		420	U	
ISOSAFROLE	940	U		830	U		860	U		830	U	
METHAPYRILENE	2300	U		2000	U		2100	U		2000	U	
METHYL METHANESULFONATE	470	U		410	U		430	U		420	U	
N-NITROSO-DI-N-BUTYLAMINE	470	U		410	U		430	U		420	U	
N-NITROSO-DI-N-PROPYLAMINE	470	U		410	U		430	U		420	U	
N-NITROSODIETHYLAMINE	470	U		410	U		430	U		420	U	
N-NITROSODIMETHYLAMINE	470	U		410	U		430	U		420	U	
N-NITROSODIPHENYLAMINE	470	U		410	U		430	U		420	U	
N-NITROSOMETHYLETHYLAMINE	470	U		410	U		430	U		420	U	
N-NITROSOMORPHOLINE	470	U		410	U		430	U		420	U	
N-NITROSOPIPERIDINE	470	U		410	U		430	U		420	U	
N-NITROSOPYRROLIDINE	470	U		410	U		430	U		420	U	
NAPHTHALENE	470	U		410	U		430	U		420	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-01-08	MPT-G4-SU-02-05	MPT-G4-SU-03-05	MPT-G4-SU-04-04
SAMPLE DATE:	06/26/00	06/27/00	06/27/00	06/27/00
LABORATORY ID:	A0F300248001	A0F300248002	A0F300248003	A0F300248004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	70.0 %	80.0 %	77.0 %	80.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
NITROBENZENE	470	U		410	U		430	U		420	U	
O-TOLUIDINE	940	U		830	U		860	U		830	U	
P-DIMETHYLAMINOAZOBENZENE	940	U		830	U		860	U		830	U	
PENTACHLOROBENZENE	470	U		410	U		430	U		420	U	
PENTACHLOROETHANE	2300	U		2000	U		2100	U		2000	U	
PENTACHLORONITROBENZENE	2300	U		2000	U		2100	U		2000	U	
PENTACHLOROPHENOL	2300	U		2000	U		2100	U		2000	U	
PHENACETIN	940	U		830	U		860	U		830	U	
PHENANTHRENE	470	U		410	U		430	U		420	U	
PHENOL	470	U		410	U		430	U		420	U	
PRONAMIDE	940	U		830	U		860	U		830	U	
PYRENE	470	U		410	U		430	U		220	J	P
PYRIDINE	940	U		830	U		860	U		830	U	
SAFROLE	940	U		830	U		860	U		830	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05	MPT-G4-SU-08-04
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F300248005	A0F300248006	A0F300248007	A0G010104001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	83.0 %	79.0 %	88.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	400	U		400	U		420	U		370	U	
1,2,4-TRICHLOROBENZENE	400	U		400	U		420	U		370	U	
1,2-DICHLOROBENZENE	400	U		400	U		420	U		370	U	
1,3,5-TRINITROBENZENE	1900	U		1900	U		2000	U		1800	U	
1,3-DICHLOROBENZENE	400	U		400	U		420	U		370	U	
1,3-DINITROBENZENE	400	U		400	U		420	U		370	U	
1,4-BENZENEDIAMINE	4000	U		4000	U		4200	U		3700	U	
1,4-DICHLOROBENZENE	400	U		400	U		420	U		370	U	
1,4-DIOXANE	400	U		400	U		420	U		370	U	
1,4-NAPHTHOQUINONE	1900	U		1900	U		2000	U		1800	U	
1-NAPHTHYLAMINE	400	U		400	U		420	U		370	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U		400	U		420	U		370	U	
2,3,4,6-TETRACHLOROPHENOL	1900	U		1900	U		2000	U		1800	U	
2,4,5-TRICHLOROPHENOL	400	U		400	U		420	U		370	U	
2,4,6-TRICHLOROPHENOL	400	U		400	U		420	U		370	U	
2,4-DICHLOROPHENOL	400	U		400	U		420	U		370	U	
2,4-DIMETHYLPHENOL	400	U		400	U		420	U		370	U	
2,4-DINITROPHENOL	1900	U		1900	U		2000	U		1800	U	
2,4-DINITROTOLUENE	400	U		400	U		420	U		370	U	
2,6-DICHLOROPHENOL	400	U		400	U		420	U		370	U	
2,6-DINITROTOLUENE	400	U		400	U		420	U		370	U	
2-ACETYLAMINOFLUORENE	4000	U		4000	U		4200	U		3700	U	
2-CHLORONAPHTHALENE	400	U		400	U		420	U		370	U	
2-CHLOROPHENOL	400	U		400	U		420	U		370	U	
2-METHYLNAPHTHALENE	400	U		400	U		420	U		370	U	
2-METHYLPHENOL	400	U		400	U		420	U		370	U	
2-NAPHTHYLAMINE	400	U		400	U		420	U		370	U	
2-NITROANILINE	1900	U		1900	U		2000	U		1800	U	
2-NITROPHENOL	400	U		400	U		420	U		370	U	
2-PICOLINE	800	U		800	U		830	U		750	U	
2-SEC-BUTYL-4,6-DINITROPHENOL	800	UJ	C	800	UJ	C	830	UJ	C	750	U	
3,3'-DICHLOROBENZIDINE	1900	U		1900	U		2000	U		1800	U	
3,3'-DIMETHYLBENZIDINE	1900	U		1900	U		2000	U		1800	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05	MPT-G4-SU-08-04
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F300248005	A0F300248006	A0F300248007	A0G010104001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	83.0 %	79.0 %	88.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	800	U		800	U		830	U		750	U	
3-METHYLPHENOL	400	U		400	U		420	U		370	U	
3-NITROANILINE	1900	U		1900	U		2000	U		1800	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U		1900	U		2000	U		1800	U	
4-AMINOBIHENYL	1900	U		1900	U		2000	U		1800	U	
4-BROMOPHENYL PHENYL ETHER	400	U		400	U		420	U		370	U	
4-CHLORO-3-METHYLPHENOL	400	U		400	U		420	U		370	U	
4-CHLOROANILINE	400	U		400	U		420	U		370	U	
4-CHLOROPHENYL PHENYL ETHER	400	U		400	U		420	U		370	U	
4-METHYLPHENOL	400	U		400	U		420	U		370	U	
4-NITROANILINE	1900	U		1900	U		2000	U		1800	U	
4-NITROPHENOL	1900	U		1900	U		2000	U		1800	U	
4-NITROQUINOLINE-1-OXIDE	4000	UR	C	4000	UR	C	4200	UR	C	3700	U	
5-NITRO-O-TOLUIDINE	800	U		800	U		830	U		750	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	800	U		800	U		830	U		750	U	
A,A-DIMETHYLPHENETHYLAMINE	1900	U		1900	U		2000	U		1800	UJ	C
ACENAPHTHENE	400	U		400	U		420	U		370	U	
ACENAPHTHYLENE	400	U		400	U		420	U		370	U	
ACETOPHENONE	400	U		400	U		420	U		370	U	
ANILINE	400	U		400	U		420	U		370	U	
ANTHRACENE	400	U		400	U		420	U		370	U	
ARAMITE	800	U		800	U		830	U		750	U	
BENZO(A)ANTHRACENE	400	U		400	U		420	U		370	U	
BENZO(A)PYRENE	400	U		400	U		420	U		370	U	
BENZO(B)FLUORANTHENE	400	U		400	U		420	U		370	U	
BENZO(G,H,I)PERYLENE	400	U		400	U		420	U		370	U	
BENZO(K)FLUORANTHENE	400	U		400	U		420	U		370	U	
BENZYL ALCOHOL	400	U		400	U		420	U		370	U	
BIS(2-CHLOROETHOXY)METHANE	400	U		400	U		420	U		370	U	
BIS(2-CHLOROETHYL)ETHER	400	U		400	U		420	U		370	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U		400	U		420	U		370	U	
BUTYLBENZYL PHTHALATE	400	U		400	U		420	U		370	U	
CARBAZOLE	400	U		400	U		420	U		370	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05	MPT-G4-SU-08-04
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F300248005	A0F300248006	A0F300248007	A0G010104001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	83.0 %	79.0 %	88.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHLOROBENZILATE	400	U		400	U		420	U		370	U	
CHRYSENE	400	U		400	U		420	U		370	U	
DI-N-BUTYL PHTHALATE	400	U		400	U		420	U		370	U	
DI-N-OCTYL PHTHALATE	400	U		400	U		420	U		370	U	
DIALLATE	800	U		800	U		830	U		750	U	
DIBENZO(A,H)ANTHRACENE	400	U		400	U		420	U		370	U	
DIBENZOFURAN	400	U		400	U		420	U		370	U	
DIETHYL PHTHALATE	400	U		400	U		420	U		370	U	
DIMETHYL PHTHALATE	400	U		400	U		420	U		370	U	
DIPHENYLAMINE	400	U		400	U		420	U		370	U	
ETHYL METHANESULFONATE	400	U		400	U		420	U		370	U	
FLUORANTHENE	400	U		400	U		420	U		370	U	
FLUORENE	400	U		400	U		420	U		370	U	
HEXACHLOROBENZENE	400	U		2200			420	U		370	U	
HEXACHLOROBUTADIENE	400	U		400	U		420	U		370	U	
HEXACHLOROCYCLOPENTADIENE	1900	U		1900	U		2000	U		1800	U	
HEXACHLOROETHANE	400	U		400	U		420	U		370	U	
HEXACHLOROPROPENE	4000	U		4000	U		4200	U		3700	U	
INDENO(1,2,3-CD)PYRENE	400	U		400	U		420	U		370	U	
ISOPHORONE	400	U		400	U		420	U		370	U	
ISOSAFROLE	800	U		800	U		830	U		750	U	
METHAPYRILENE	1900	U		1900	U		2000	U		1800	U	
METHYL METHANESULFONATE	400	U		400	U		420	U		370	U	
N-NITROSO-DI-N-BUTYLAMINE	400	U		400	U		420	U		370	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U		400	U		420	U		370	U	
N-NITROSODIETHYLAMINE	400	U		400	U		420	U		370	U	
N-NITROSODIMETHYLAMINE	400	U		400	U		420	U		370	U	
N-NITROSODIPHENYLAMINE	400	U		400	U		420	U		370	U	
N-NITROSOMETHYLETHYLAMINE	400	U		400	U		420	U		370	U	
N-NITROSOMORPHOLINE	400	U		400	U		420	U		370	U	
N-NITROSOPIPERIDINE	400	U		400	U		420	U		370	U	
N-NITROSOPYRROLIDINE	400	U		400	U		420	U		370	U	
NAPHTHALENE	400	U		400	U		420	U		370	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-05-04	MPT-G4-SU-06-07	MPT-G4-SU-07-05	MPT-G4-SU-08-04
SAMPLE DATE:	06/27/00	06/27/00	06/27/00	06/28/00
LABORATORY ID:	A0F300248005	A0F300248006	A0F300248007	A0G010104001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	83.0 %	79.0 %	88.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
NITROBENZENE	400	U		400	U		420	U		370	U	
O-TOLUIDINE	800	U		800	U		830	U		750	U	
P-DIMETHYLAMINOAZOBENZENE	800	U		800	U		830	U		750	U	
PENTACHLOROBENZENE	400	U		400	U		420	U		370	U	
PENTACHLOROETHANE	1900	U		1900	U		2000	U		1800	U	
PENTACHLORONITROBENZENE	1900	U		1900	U		2000	U		1800	U	
PENTACHLOROPHENOL	1900	U		1900	U		2000	U		1800	U	
PHENACETIN	800	U		800	U		830	U		750	U	
PHENANTHRENE	400	U		400	U		420	U		370	U	
PHENOL	400	U		400	U		420	U		370	U	
PRONAMIDE	800	U		800	U		830	U		750	U	
PYRENE	400	U		400	U		420	U		370	U	
PYRIDINE	800	U		800	U		830	U		750	U	
SAFROLE	800	U		800	U		830	U		750	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06	MPT-G4-SU-12-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104002	A0G010104003	A0G010104004	A0G010104005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	81.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	380	U		410	U		390	U		390	U	
1,2,4-TRICHLORO BENZENE	380	U		410	U		390	U		390	U	
1,2-DICHLORO BENZENE	380	U		410	U		390	U		390	U	
1,3,5-TRINITRO BENZENE	1800	U		2000	U		1900	U		1900	U	
1,3-DICHLORO BENZENE	380	U		410	U		390	U		390	U	
1,3-DINITRO BENZENE	380	U		410	U		390	U		390	U	
1,4-BENZENEDIAMINE	3800	U		4100	U		3900	U		3900	U	
1,4-DICHLORO BENZENE	380	U		410	U		390	U		390	U	
1,4-DIOXANE	380	U		410	U		390	U		390	U	
1,4-NAPHTHOQUINONE	1800	U		2000	U		1900	U		1900	U	
1-NAPHTHYLAMINE	380	U		410	U		390	U		390	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	380	U		410	U		390	U		390	U	
2,3,4,6-TETRACHLOROPHENOL	1800	U		2000	U		1900	U		1900	U	
2,4,5-TRICHLOROPHENOL	380	U		410	U		390	U		390	U	
2,4,6-TRICHLOROPHENOL	380	U		410	U		390	U		390	U	
2,4-DICHLOROPHENOL	380	U		410	U		390	U		390	U	
2,4-DIMETHYLPHENOL	380	U		410	U		390	U		390	U	
2,4-DINITROPHENOL	1800	U		2000	U		1900	U		1900	U	
2,4-DINITROTOLUENE	380	U		410	U		390	U		390	U	
2,6-DICHLOROPHENOL	380	U		410	U		390	U		390	U	
2,6-DINITROTOLUENE	380	U		410	U		390	U		390	U	
2-ACETYLAMINOFUORENE	3800	U		4100	U		3900	U		3900	U	
2-CHLORONAPHTHALENE	380	U		410	U		390	U		390	U	
2-CHLOROPHENOL	380	U		410	U		390	U		390	U	
2-METHYLNAPHTHALENE	380	U		410	U		390	U		390	U	
2-METHYLPHENOL	380	U		410	U		390	U		390	U	
2-NAPHTHYLAMINE	380	U		410	U		390	U		390	U	
2-NITROANILINE	1800	U		2000	U		1900	U		1900	U	
2-NITROPHENOL	380	U		410	U		390	U		390	U	
2-PICOLINE	760	U		820	U		780	U		770	U	
2-SEC-BUTYL-4,6-DINITROPHENOL	760	U		820	U		780	U		770	U	
3,3'-DICHLORO BENZIDINE	1800	U		2000	U		1900	U		1900	U	
3,3'-DIMETHYLBENZIDINE	1800	U		2000	U		1900	U		1900	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06	MPT-G4-SU-12-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104002	A0G010104003	A0G010104004	A0G010104005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	81.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	760	U		820	U		780	U		770	U	
3-METHYLPHENOL	380	U		410	U		390	U		390	U	
3-NITROANILINE	1800	U		2000	U		1900	U		1900	U	
4,6-DINITRO-2-METHYLPHENOL	1800	U		2000	U		1900	U		1900	U	
4-AMINOBIHENYL	1800	U		2000	U		1900	U		1900	U	
4-BROMOPHENYL PHENYL ETHER	380	U		410	U		390	U		390	U	
4-CHLORO-3-METHYLPHENOL	380	U		410	U		390	U		390	U	
4-CHLOROANILINE	380	U		410	U		390	U		390	U	
4-CHLOROPHENYL PHENYL ETHER	380	U		410	U		390	U		390	U	
4-METHYLPHENOL	380	U		410	U		390	U		390	U	
4-NITROANILINE	1800	U		2000	U		1900	U		1900	U	
4-NITROPHENOL	1800	U		2000	U		1900	U		1900	U	
4-NITROQUINOLINE-1-OXIDE	3800	U		4100	U		3900	U		3900	U	
5-NITRO-O-TOLUIDINE	760	U		820	U		780	U		770	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	760	U		820	U		780	U		770	U	
A,A-DIMETHYLPHENETHYLAMINE	1800	UJ	C	2000	UJ	C	1900	UJ	C	1900	UJ	C
ACENAPHTHENE	380	U		410	U		390	U		390	U	
ACENAPHTHYLENE	380	U		410	U		390	U		390	U	
ACETOPHENONE	380	U		410	U		390	U		390	U	
ANILINE	380	U		410	U		390	U		390	U	
ANTHRACENE	380	U		410	U		390	U		390	U	
ARAMITE	760	U		820	U		780	U		770	U	
BENZO(A)ANTHRACENE	380	U		410	U		390	U		66	J	P
BENZO(A)PYRENE	380	U		410	U		390	U		52	J	P
BENZO(B)FLUORANTHENE	380	U		410	U		390	U		73	J	P
BENZO(G,H,I)PERYLENE	380	U		410	U		390	U		390	U	
BENZO(K)FLUORANTHENE	380	U		410	U		390	U		390	U	
BENZYL ALCOHOL	380	U		410	U		390	U		390	U	
BIS(2-CHLOROETHOXY)METHANE	380	U		410	U		390	U		390	U	
BIS(2-CHLOROETHYL)ETHER	380	U		410	U		390	U		390	U	
BIS(2-ETHYLHEXYL)PHTHALATE	380	U		410	U		390	U		390	U	
BUTYLBENZYL PHTHALATE	380	U		410	U		390	U		390	U	
CARBAZOLE	380	U		410	U		390	U		390	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06	MPT-G4-SU-12-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104002	A0G010104003	A0G010104004	A0G010104005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	81.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHLOROBENZILATE	380	U		410	U		390	U		390	U	
CHRYSENE	380	U		410	U		390	U		75	J	P
DI-N-BUTYL PHTHALATE	380	U		410	U		390	U		390	U	
DI-N-OCTYL PHTHALATE	380	U		410	U		390	U		390	U	
DIALLATE	760	U		820	U		780	U		770	U	
DIBENZO(A,H)ANTHRACENE	380	U		410	U		390	U		390	U	
DIBENZOFURAN	380	U		410	U		390	U		390	U	
DIETHYL PHTHALATE	380	U		410	U		390	U		390	U	
DIMETHYL PHTHALATE	380	U		410	U		390	U		390	U	
DIPHENYLAMINE	380	U		410	U		390	U		390	U	
ETHYL METHANESULFONATE	380	U		410	U		390	U		390	U	
FLUORANTHENE	380	U		410	U		390	U		110	J	P
FLUORENE	380	U		410	U		390	U		390	U	
HEXACHLOROENZENE	380	U		410	U		390	U		390	U	
HEXACHLOROBUTADIENE	380	U		410	U		390	U		390	U	
HEXACHLOROCYCLOPENTADIENE	1800	U		2000	U		1900	U		1900	U	
HEXACHLOROETHANE	380	U		410	U		390	U		390	U	
HEXACHLOROPROPENE	3800	U		4100	U		3900	U		3900	U	
INDENO(1,2,3-CD)PYRENE	380	U		410	U		390	U		390	U	
ISOPHORONE	380	U		410	U		390	U		390	U	
ISOSAFROLE	760	U		820	U		780	U		770	U	
METHAPYRILENE	1800	U		2000	U		1900	U		1900	U	
METHYL METHANESULFONATE	380	U		410	U		390	U		390	U	
N-NITROSO-DI-N-BUTYLAMINE	380	U		410	U		390	U		390	U	
N-NITROSO-DI-N-PROPYLAMINE	380	U		410	U		390	U		390	U	
N-NITROSODIETHYLAMINE	380	U		410	U		390	U		390	U	
N-NITROSODIMETHYLAMINE	380	U		410	U		390	U		390	U	
N-NITROSODIPHENYLAMINE	380	U		410	U		390	U		390	U	
N-NITROSOMETHYLETHYLAMINE	380	U		410	U		390	U		390	U	
N-NITROSOMORPHOLINE	380	U		410	U		390	U		390	U	
N-NITROSOPIPERIDINE	380	U		410	U		390	U		390	U	
N-NITROSOPIRROLIDINE	380	U		410	U		390	U		390	U	
NAPHTHALENE	380	U		410	U		390	U		390	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-09-11	MPT-G4-SU-10-10	MPT-G4-SU-11-06	MPT-G4-SU-12-06
SAMPLE DATE:	06/28/00	06/28/00	06/28/00	06/28/00
LABORATORY ID:	A0G010104002	A0G010104003	A0G010104004	A0G010104005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	81.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
NITROBENZENE	380	U		410	U		390	U		390	U	
O-TOLUIDINE	760	U		820	U		780	U		770	U	
P-DIMETHYLAMINOAZOBENZENE	760	U		820	U		780	U		770	U	
PENTACHLOROBENZENE	380	U		410	U		390	U		390	U	
PENTACHLOROETHANE	1800	U		2000	U		1900	U		1900	U	
PENTACHLORONITROBENZENE	1800	U		2000	U		1900	U		1900	U	
PENTACHLOROPHENOL	1800	U		2000	U		1900	U		1900	U	
PHENACETIN	760	U		820	U		780	U		770	U	
PHENANTHRENE	380	U		410	U		390	U		69	J	P
PHENOL	380	U		410	U		390	U		390	U	
PRONAMIDE	760	U		820	U		780	U		770	U	
PYRENE	380	U		410	U		390	U		110	J	P
PYRIDINE	760	U		820	U		780	U		770	U	
SAFROLE	760	U		820	U		780	U		770	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	400	U		430	U		360	U		380	U	
1,2,4-TRICHLORO BENZENE	400	U		430	U		360	U		380	U	
1,2-DICHLORO BENZENE	400	U		430	U		360	U		380	U	
1,3,5-TRINITRO BENZENE	2000	U		2100	U		1700	U		1800	U	
1,3-DICHLORO BENZENE	400	U		430	U		360	U		380	U	
1,3-DINITRO BENZENE	400	U		430	U		360	U		380	U	
1,4-BENZENEDIAMINE	4000	U		4300	U		3600	U		3800	U	
1,4-DICHLORO BENZENE	400	U		430	U		360	U		380	U	
1,4-DIOXANE	400	UJ	C	430	UJ	C	360	UJ	C	380	UJ	C
1,4-NAPHTHOQUINONE	2000	U		2100	U		1700	U		1800	U	
1-NAPHTHYLAMINE	400	U		430	U		360	U		380	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U		430	U		360	U		380	U	
2,3,4,6-TETRACHLOROPHENOL	2000	U		2100	U		1700	U		1800	U	
2,4,5-TRICHLOROPHENOL	400	U		430	U		360	U		380	U	
2,4,6-TRICHLOROPHENOL	400	U		430	U		360	U		380	U	
2,4-DICHLOROPHENOL	400	U		430	U		360	U		380	U	
2,4-DIMETHYLPHENOL	400	U		430	U		360	U		380	U	
2,4-DINITROPHENOL	2000	UJ	C	2100	UJ	C	1700	UJ	C	1800	UJ	C
2,4-DINITROTOLUENE	400	U		430	U		360	U		380	U	
2,6-DICHLOROPHENOL	400	U		430	U		360	U		380	U	
2,6-DINITROTOLUENE	400	U		430	U		360	U		380	U	
2-ACETYLAMINOFUORENE	4000	U		4300	U		3600	U		3800	U	
2-CHLORONAPHTHALENE	400	U		430	U		360	U		380	U	
2-CHLOROPHENOL	400	U		430	U		360	U		380	U	
2-METHYLNAPHTHALENE	400	U		430	U		360	U		380	U	
2-METHYLPHENOL	400	U		430	U		360	U		380	U	
2-NAPHTHYLAMINE	400	U		430	U		360	U		380	U	
2-NITROANILINE	2000	U		2100	U		1700	U		1800	U	
2-NITROPHENOL	400	U		430	U		360	U		380	U	
2-PICOLINE	810	U		850	U		720	U		760	U	
2-SEC-BUTYL-4,6-DINITROPHENOL	810	UJ	C	850	UJ	C	720	UJ	C	760	UJ	C
3,3'-DICHLORO BENZIDINE	2000	U		2100	U		1700	U		1800	U	
3,3'-DIMETHYLBENZIDINE	2000	U		2100	U		1700	U		1800	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	810	UJ	C	850	UJ	C	720	UJ	C	760	UJ	C
3-METHYLPHENOL	400	U		430	U		360	U		380	U	
3-NITROANILINE	2000	U		2100	U		1700	U		1800	U	
4,6-DINITRO-2-METHYLPHENOL	2000	U		2100	U		1700	U		1800	U	
4-AMINOBIIPHENYL	2000	U		2100	U		1700	U		1800	U	
4-BROMOPHENYL PHENYL ETHER	400	U		430	U		360	U		380	U	
4-CHLORO-3-METHYLPHENOL	400	U		430	U		360	U		380	U	
4-CHLOROANILINE	400	U		430	U		360	U		380	U	
4-CHLOROPHENYL PHENYL ETHER	400	U		430	U		360	U		380	U	
4-METHYLPHENOL	400	U		430	U		360	U		380	U	
4-NITROANILINE	2000	UJ	C	2100	UJ	C	1700	UJ	C	1800	UJ	C
4-NITROPHENOL	2000	U		2100	U		1700	U		1800	U	
4-NITROQUINOLINE-1-OXIDE	4000	UR	C	4300	UR	C	3600	UR	C	3800	UR	C
5-NITRO-O-TOLUIDINE	810	U		850	U		720	U		760	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	810	U		850	U		720	U		760	U	
A,A-DIMETHYLPHENETHYLAMINE	2000	U		2100	U		1700	U		1800	U	
ACENAPHTHENE	400	U		430	U		360	U		380	U	
ACENAPHTHYLENE	400	U		430	U		360	U		380	U	
ACETOPHENONE	400	U		430	U		360	U		380	U	
ANILINE	400	U		430	U		360	U		380	U	
ANTHRACENE	400	U		430	U		360	U		380	U	
ARAMITE	810	U		850	U		720	U		760	U	
BENZO(A)ANTHRACENE	55	J	P	430	U		360	U		380	U	
BENZO(A)PYRENE	51	J	P	430	U		360	U		380	U	
BENZO(B)FLUORANTHENE	75	J	P	430	U		360	U		380	U	
BENZO(G,H,I)PERYLENE	400	U		430	U		360	U		380	U	
BENZO(K)FLUORANTHENE	400	U		430	U		360	U		380	U	
BENZYL ALCOHOL	400	U		430	U		360	U		380	U	
BIS(2-CHLOROETHOXY)METHANE	400	U		430	U		360	U		380	U	
BIS(2-CHLOROETHYL)ETHER	400	U		430	U		360	U		380	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U		430	U		360	U		380	U	
BUTYLBENZYL PHTHALATE	400	U		430	U		360	U		380	U	
CARBAZOLE	400	U		430	U		360	U		380	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHLOROBENZILATE	400	U		430	U		360	U		380	U	
CHRYSENE	67	J	P	430	U		360	U		380	U	
DI-N-BUTYL PHTHALATE	400	U		430	U		360	U		380	U	
DI-N-OCTYL PHTHALATE	400	U		430	U		360	U		380	U	
DIALLATE	810	U		850	U		720	U		760	U	
DIBENZO(A,H)ANTHRACENE	400	U		430	U		360	U		380	U	
DIBENZOFURAN	400	U		430	U		360	U		380	U	
DIETHYL PHTHALATE	400	U		430	U		360	U		380	U	
DIMETHYL PHTHALATE	400	U		430	U		360	U		380	U	
DIPHENYLAMINE	400	U		430	U		360	U		380	U	
ETHYL METHANESULFONATE	400	U		430	U		360	U		380	U	
FLUORANTHENE	76	J	P	430	U		360	U		380	U	
FLUORENE	400	U		430	U		360	U		380	U	
HEXACHLOROBENZENE	400	U		430	U		360	U		380	U	
HEXACHLOROBUTADIENE	400	U		430	U		360	U		380	U	
HEXACHLOROCYCLOPENTADIENE	2000	U		2100	U		1700	U		1800	U	
HEXACHLOROETHANE	400	U		430	U		360	U		380	U	
HEXACHLOROPROPENE	4000	U		4300	U		3600	U		3800	U	
INDENO(1,2,3-CD)PYRENE	400	U		430	U		360	U		380	U	
ISOPHORONE	400	U		430	U		360	U		380	U	
ISOSAFROLE	810	U		850	U		720	U		760	U	
METHAPYRILENE	2000	U		2100	U		1700	U		1800	U	
METHYL METHANESULFONATE	400	U		430	U		360	U		380	U	
N-NITROSO-DI-N-BUTYLAMINE	400	U		430	U		360	U		380	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U		430	U		360	U		380	U	
N-NITROSODIETHYLAMINE	400	U		430	U		360	U		380	U	
N-NITROSODIMETHYLAMINE	400	U		430	U		360	U		380	U	
N-NITROSODIPHENYLAMINE	400	U		430	U		360	U		380	U	
N-NITROSOMETHYLETHYLAMINE	400	U		430	U		360	U		380	U	
N-NITROSOMORPHOLINE	400	U		430	U		360	U		380	U	
N-NITROSOPIPERIDINE	400	U		430	U		360	U		380	U	
N-NITROSOPYRROLIDINE	400	U		430	U		360	U		380	U	
NAPHTHALENE	400	U		430	U		360	U		380	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-13-06	MPT-G4-SU-14-09	MPT-G4-SU-15-08	MPT-G4-SU-16-09
SAMPLE DATE:	06/29/00	06/29/00	06/29/00	06/29/00
LABORATORY ID:	A0G010105001	A0G010105002	A0G010105003	A0G010105004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	78.0 %	91.8 %	87.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
NITROBENZENE	400	U		430	U		360	U		380	U	
O-TOLUIDINE	810	U		850	U		720	U		760	U	
P-DIMETHYLAMINOAZOBENZENE	810	U		850	U		720	U		760	U	
PENTACHLOROBENZENE	400	U		430	U		360	U		380	U	
PENTACHLOROETHANE	2000	U		2100	U		1700	U		1800	U	
PENTACHLORONITROBENZENE	2000	U		2100	U		1700	U		1800	U	
PENTACHLOROPHENOL	2000	U		2100	U		1700	U		1800	U	
PHENACETIN	810	U		850	U		720	U		760	U	
PHENANTHRENE	400	U		430	U		360	U		380	U	
PHENOL	400	U		430	U		360	U		380	U	
PRONAMIDE	810	U		850	U		720	U		760	U	
PYRENE	92	J	P	430	U		360	U		380	U	
PYRIDINE	810	U		850	U		720	U		760	U	
SAFROLE	810	U		850	U		720	U		760	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-17-08	MPT-G4-SU-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010105005	A0G010105006		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	92.8 %	88.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:		MPT-G4-SU-17-08		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	360	U		370	U							
1,2,4-TRICHLORO BENZENE	360	U		370	U							
1,2-DICHLORO BENZENE	360	U		370	U							
1,3,5-TRINITRO BENZENE	1700	U		1800	U							
1,3-DICHLORO BENZENE	360	U		370	U							
1,3-DINITRO BENZENE	360	U		370	U							
1,4-BENZENEDIAMINE	3600	U		3700	U							
1,4-DICHLORO BENZENE	360	U		370	U							
1,4-DIOXANE	360	U		370	U							
1,4-NAPHTHOQUINONE	1700	U		1800	U							
1-NAPHTHYLAMINE	360	U		370	U							
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U		370	U							
2,3,4,6-TETRACHLOROPHENOL	1700	U		1800	U							
2,4,5-TRICHLOROPHENOL	360	U		370	U							
2,4,6-TRICHLOROPHENOL	360	U		370	U							
2,4-DICHLOROPHENOL	360	U		370	U							
2,4-DIMETHYLPHENOL	360	U		370	U							
2,4-DINITROPHENOL	1700	U		1800	U							
2,4-DINITROTOLUENE	360	U		370	U							
2,6-DICHLOROPHENOL	360	U		370	U							
2,6-DINITROTOLUENE	360	U		370	U							
2-ACETYLAMINOFUORENE	3600	U		3700	U							
2-CHLORONAPHTHALENE	360	U		370	U							
2-CHLOROPHENOL	360	U		370	U							
2-METHYLNAPHTHALENE	360	U		370	U							
2-METHYLPHENOL	360	U		370	U							
2-NAPHTHYLAMINE	360	U		370	U							
2-NITROANILINE	1700	U		1800	U							
2-NITROPHENOL	360	U		370	U							
2-PICOLINE	710	U		750	U							
2-SEC-BUTYL-4,6-DINITROPHENOL	710	UJ	C	750	UJ	C						
3,3'-DICHLORO BENZIDINE	1700	U		1800	U							
3,3'-DIMETHYLBENZIDINE	1700	UJ	C	1800	UJ	C						

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-17-08	MPT-G4-SU-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010105005	A0G010105006		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	92.8 %	88.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:		MPT-G4-SU-17-08		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-METHYLCHOLANTHRENE	710	U		750	U							
3-METHYLPHENOL	360	U		370	U							
3-NITROANILINE	1700	U		1800	U							
4,6-DINITRO-2-METHYLPHENOL	1700	U		1800	U							
4-AMINOBIPHENYL	1700	U		1800	U							
4-BROMOPHENYL PHENYL ETHER	360	U		370	U							
4-CHLORO-3-METHYLPHENOL	360	U		370	U							
4-CHLOROANILINE	360	U		370	U							
4-CHLOROPHENYL PHENYL ETHER	360	U		370	U							
4-METHYLPHENOL	360	U		370	U							
4-NITROANILINE	1700	U		1800	U							
4-NITROPHENOL	1700	U		1800	U							
4-NITROQUINOLINE-1-OXIDE	3600	UR	C	3700	UR	C						
5-NITRO-O-TOLIDINE	710	U		750	U							
7,12-DIMETHYLBENZ(A)ANTHRACENE	710	U		750	U							
A,A-DIMETHYLPHENETHYLAMINE	1700	U		1800	U							
ACENAPHTHENE	360	U		370	U							
ACENAPHTHYLENE	360	U		370	U							
ACETOPHENONE	360	U		370	U							
ANILINE	360	U		370	U							
ANTHRACENE	360	U		370	U							
ARAMITE	710	U		750	U							
BENZO(A)ANTHRACENE	360	U		370	U							
BENZO(A)PYRENE	360	U		370	U							
BENZO(B)FLUORANTHENE	49	J	P	370	U							
BENZO(G,H,I)PERYLENE	360	U		370	U							
BENZO(K)FLUORANTHENE	360	U		370	U							
BENZYL ALCOHOL	360	U		370	U							
BIS(2-CHLOROETHOXY)METHANE	360	U		370	U							
BIS(2-CHLOROETHYL)ETHER	360	U		370	U							
BIS(2-ETHYLHEXYL)PHTHALATE	360	U		370	U							
BUTYLBENZYL PHTHALATE	360	U		370	U							
CARBAZOLE	360	U		370	U							

CTO091-NS MAYPORT

**SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-17-08	MPT-G4-SU-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010105005	A0G010105006		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	92.8 %	88.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:		MPT-G4-SU-17-08		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
CHLOROBENZILATE	360	U		370	U							
CHRYSENE	360	U		370	U							
DI-N-BUTYL PHTHALATE	360	U		370	U							
DI-N-OCTYL PHTHALATE	360	U		370	U							
DIALLATE	710	U		750	U							
DIBENZO(A,H)ANTHRACENE	360	U		370	U							
DIBENZOFURAN	360	U		370	U							
DIETHYL PHTHALATE	360	U		370	U							
DIMETHYL PHTHALATE	360	U		370	U							
DIPHENYLAMINE	360	U		370	U							
ETHYL METHANESULFONATE	360	U		370	U							
FLUORANTHENE	360	U		370	U							
FLUORENE	360	U		370	U							
HEXACHLOROBENZENE	360	U		370	U							
HEXACHLOROBUTADIENE	360	U		370	U							
HEXACHLOROCYCLOPENTADIENE	1700	U		1800	U							
HEXACHLOROETHANE	360	U		370	U							
HEXACHLOROPROPENE	3600	U		3700	U							
INDENO(1,2,3-CD)PYRENE	360	U		370	U							
ISOPHORONE	360	U		370	U							
ISOSAFROLE	710	U		750	U							
METHAPYRILENE	1700	U		1800	U							
METHYL METHANESULFONATE	360	U		370	U							
N-NITROSO-DI-N-BUTYLAMINE	360	U		370	U							
N-NITROSO-DI-N-PROPYLAMINE	360	U		370	U							
N-NITROSODIETHYLAMINE	360	U		370	U							
N-NITROSODIMETHYLAMINE	360	U		370	U							
N-NITROSODIPHENYLAMINE	360	U		370	U							
N-NITROSOMETHYLETHYLAMINE	360	U		370	U							
N-NITROSOMORPHOLINE	360	U		370	U							
N-NITROSOPIPERIDINE	360	U		370	U							
N-NITROSOPIRROLIDINE	360	U		370	U							
NAPHTHALENE	360	U		370	U							

CTO091-NS MAYPORT

**SOIL DATA
QUANTERRA
SDG: MP014**

SAMPLE NUMBER:	MPT-G4-SU-17-08	MPT-G4-SU-DU01		
SAMPLE DATE:	06/29/00	06/29/00	//	//
LABORATORY ID:	A0G010105005	A0G010105006		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	92.8 %	88.0 %	100.0 %	100.0 %
UNITS:	UG/KG	UG/KG		
FIELD DUPLICATE OF:		MPT-G4-SU-17-08		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
NITROBENZENE	360	U		370	U							
O-TOLUIDINE	710	U		750	U							
P-DIMETHYLAMINOAZOBENZENE	710	U		750	U							
PENTACHLOROBENZENE	360	U		370	U							
PENTACHLOROETHANE	1700	U		1800	U							
PENTACHLORONITROBENZENE	1700	U		1800	U							
PENTACHLOROPHENOL	1700	U		1800	U							
PHENACETIN	710	U		750	U							
PHENANTHRENE	360	U		370	U							
PHENOL	360	U		370	U							
PRONAMIDE	710	U		750	U							
PYRENE	360	U		370	U							
PYRIDINE	710	U		750	U							
SAFROLE	710	U		750	U							

APPENDIX B

Results as Reported by the Laboratory

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOL101

Date Extracted: 07/05/00

Dilution factor: 0.96

Date Analyzed: 07/05/00

Moisture %:

QC Batch: 0188232

Client Sample Id: MPT-0123

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	19		U
75-05-8	Acetonitrile	96		U
107-02-8	Acrolein	96		U
107-13-1	Acrylonitrile	96		U
71-43-2	Benzene	4.8		U
75-27-4	Bromodichloromethane	4.8		U
75-25-2	Bromoform	4.8		U
74-83-9	Bromomethane	9.6		U
75-15-0	Carbon disulfide	4.8		U
56-23-5	Carbon tetrachloride	4.8		U
108-90-7	Chlorobenzene	4.8		U
126-99-8	Chloroprene	4.8		U
124-48-1	Dibromochloromethane	4.8		U
96-12-8	1,2-Dibromo-3-chloropropane	9.6		U
75-00-3	Chloroethane	9.6		U
110-75-8	2-Chloroethyl vinyl ether	48		U
67-66-3	Chloroform	4.8		U
74-87-3	Chloromethane	9.6		U
107-05-1	Allyl chloride	9.6		U
74-95-3	Dibromomethane	4.8		U
110-57-6	trans-1,4-Dichloro-2-butene	4.8		U
75-71-8	Dichlorodifluoromethane	9.6		U
75-34-3	1,1-Dichloroethane	4.8		U
107-06-2	1,2-Dichloroethane	4.8		U
75-35-4	1,1-Dichloroethene	4.8		U
156-59-2	cis-1,2-Dichloroethene	2.4		U
156-60-5	trans-1,2-Dichloroethene	2.4		U
540-59-0	1,2-Dichloroethene (total)	4.8		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOL101

Date Extracted: 07/05/00

Dilution factor: 0.96

Date Analyzed: 07/05/00

Moisture %:

QC Batch: 0188232

Client Sample Id: MPT-0123

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	4.8		U
10061-01-5	cis-1,3-Dichloropropene	4.8		U
10061-02-6	trans-1,3-Dichloropropene	4.8		U
100-41-4	Ethylbenzene	4.8		U
97-63-2	Ethyl methacrylate	4.8		U
75-69-4	Trichlorofluoromethane	9.6		U
591-78-6	2-Hexanone	19		U
74-88-4	Iodomethane	4.8		U
78-83-1	Isobutyl alcohol	190		U
126-98-7	Methacrylonitrile	4.8		U
75-09-2	Methylene chloride	1.6		J B
80-62-6	Methyl methacrylate	4.8		U
107-12-0	Propionitrile	19		U
100-42-5	Styrene	4.8		U
630-20-6	1,1,1,2-Tetrachloroethane	4.8		U
79-34-5	1,1,2,2-Tetrachloroethane	4.8		U
127-18-4	Tetrachloroethene	4.8		U
108-88-3	Toluene	4.8		U
71-55-6	1,1,1-Trichloroethane	4.8		U
79-00-5	1,1,2-Trichloroethane	4.8		U
79-01-6	Trichloroethene	4.8		U
96-18-4	1,2,3-Trichloropropane	4.8		U
108-05-4	Vinyl acetate	9.6		U
75-01-4	Vinyl chloride	9.6		U
1330-20-7	Xylenes (total)	4.8		U
106-93-4	1,2-Dibromoethane (EDB)	4.8		U
78-93-3	2-Butanone (MEK)	19		U
108-10-1	4-Methyl-2-pentanone (MIBK)	19		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFM0L101

Date Extracted: 07/05/00

Dilution factor: 0.96

Date Analyzed: 07/05/00

Moisture %:

QC Batch: 0188232

Client Sample Id: MPT-0123

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	19		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFL4J102

Date Extracted: 07/04/00

Dilution factor: 1.22

Date Analyzed: 07/04/00

Moisture %: 30

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-01-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	35		U
75-05-8	Acetonitrile	170		U
107-02-8	Acrolein	170		U
107-13-1	Acrylonitrile	170		U
71-43-2	Benzene	8.7		U
75-27-4	Bromodichloromethane	8.7		U
75-25-2	Bromoform	8.7		U
74-83-9	Bromomethane	17		U
75-15-0	Carbon disulfide	8.7		U
56-23-5	Carbon tetrachloride	8.7		U
108-90-7	Chlorobenzene	8.7		U
126-99-8	Chloroprene	8.7		U
124-48-1	Dibromochloromethane	8.7		U
96-12-8	1,2-Dibromo-3-chloropropane	17		U
75-00-3	Chloroethane	17		U
110-75-8	2-Chloroethyl vinyl ether	87		U
67-66-3	Chloroform	8.7		U
74-87-3	Chloromethane	17		U
107-05-1	Allyl chloride	17		U
74-95-3	Dibromomethane	8.7		U
110-57-6	trans-1,4-Dichloro-2-butene	8.7		U
75-71-8	Dichlorodifluoromethane	17		U
75-34-3	1,1-Dichloroethane	8.7		U
107-06-2	1,2-Dichloroethane	8.7		U
75-35-4	1,1-Dichloroethene	8.7		U
156-59-2	cis-1,2-Dichloroethene	4.3		U
156-60-5	trans-1,2-Dichloroethene	4.3		U
540-59-0	1,2-Dichloroethene (total)	8.7		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFL4J102

Date Extracted: 07/04/00

Dilution factor: 1.22

Date Analyzed: 07/04/00

Moisture %: 30

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-01-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	8.7		U
10061-01-5	cis-1,3-Dichloropropene	8.7		U
10061-02-6	trans-1,3-Dichloropropene	8.7		U
100-41-4	Ethylbenzene	8.7		U
97-63-2	Ethyl methacrylate	8.7		U
75-69-4	Trichlorofluoromethane	17		U
591-78-6	2-Hexanone	35		U
74-88-4	Iodomethane	8.7		U
78-83-1	Isobutyl alcohol	350		U
126-98-7	Methacrylonitrile	8.7		U
75-09-2	Methylene chloride	2.6		J
80-62-6	Methyl methacrylate	8.7		U
107-12-0	Propionitrile	35		U
100-42-5	Styrene	8.7		U
630-20-6	1,1,1,2-Tetrachloroethane	8.7		U
79-34-5	1,1,2,2-Tetrachloroethane	8.7		U
127-18-4	Tetrachloroethene	8.7		U
108-88-3	Toluene	8.7		U
71-55-6	1,1,1-Trichloroethane	8.7		U
79-00-5	1,1,2-Trichloroethane	8.7		U
79-01-6	Trichloroethene	8.7		U
96-18-4	1,2,3-Trichloropropane	8.7		U
108-05-4	Vinyl acetate	17		U
75-01-4	Vinyl chloride	17		U
1330-20-7	Xylenes (total)	8.7		U
106-93-4	1,2-Dibromoethane (EDB)	8.7		U
78-93-3	2-Butanone (MEK)	35		U
108-10-1	4-Methyl-2-pentanone (MIBK)	35		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOF300248 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFL4J102

Date Extracted: 07/04/00

Dilution factor: 1.22

Date Analyzed: 07/04/00

Moisture %: 30

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-01-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	35		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM08102

Date Extracted: 07/04/00

Dilution factor: 0.99

Date Analyzed: 07/04/00

Moisture %: 20

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-02-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	25		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.2		U
75-27-4	Bromodichloromethane	6.2		U
75-25-2	Bromoform	6.2		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.2		U
56-23-5	Carbon tetrachloride	6.2		U
108-90-7	Chlorobenzene	6.2		U
126-99-8	Chloroprene	6.2		U
124-48-1	Dibromochloromethane	6.2		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	62		U
67-66-3	Chloroform	6.2		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.2		U
110-57-6	trans-1,4-Dichloro-2-butene	6.2		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.2		U
107-06-2	1,2-Dichloroethane	6.2		U
75-35-4	1,1-Dichloroethene	6.2		U
156-59-2	cis-1,2-Dichloroethene	3.1		U
156-60-5	trans-1,2-Dichloroethene	3.1		U
540-59-0	1,2-Dichloroethene (total)	6.2		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM08102

Date Extracted: 07/04/00

Dilution factor: 0.99

Date Analyzed: 07/04/00

Moisture %: 20

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-02-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.2		Q
10061-01-5	cis-1,3-Dichloropropene	6.2		Q
10061-02-6	trans-1,3-Dichloropropene	6.2		Q
100-41-4	Ethylbenzene	6.2		Q
97-63-2	Ethyl methacrylate	6.2		Q
75-69-4	Trichlorofluoromethane	12		Q
591-78-6	2-Hexanone	25		Q
74-88-4	Iodomethane	6.2		Q
78-83-1	Isobutyl alcohol	250		Q
126-98-7	Methacrylonitrile	6.2		Q
75-09-2	Methylene chloride	1.7		J
80-62-6	Methyl methacrylate	6.2		Q
107-12-0	Propionitrile	25		Q
100-42-5	Styrene	6.2		Q
630-20-6	1,1,1,2-Tetrachloroethane	6.2		Q
79-34-5	1,1,2,2-Tetrachloroethane	6.2		Q
127-18-4	Tetrachloroethene	6.2		Q
108-88-3	Toluene	6.2		Q
71-55-6	1,1,1-Trichloroethane	6.2		Q
79-00-5	1,1,2-Trichloroethane	6.2		Q
79-01-6	Trichloroethene	6.2		Q
96-18-4	1,2,3-Trichloropropane	6.2		Q
108-05-4	Vinyl acetate	12		Q
75-01-4	Vinyl chloride	12		Q
1330-20-7	Xylenes (total)	6.2		Q
106-93-4	1,2-Dibromoethane (EDB)	6.2		Q
78-93-3	2-Butanone (MEK)	25		Q
108-10-1	4-Methyl-2-pentanone (MIBK)	25		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014
Matrix: (soil/water) SO Lab Sample ID: A0F300248 002
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 06/28/00
Work Order: DFM08102 Date Extracted: 07/04/00
Dilution factor: 0.99 Date Analyzed: 07/04/00
Moisture %: 20

Client Sample Id: MPT-G4-SU-02-05 QC Batch: 0187197

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM09102

Date Extracted: 07/04/00

Dilution factor: 1.03

Date Analyzed: 07/04/00

Moisture %: 23

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	27		U
75-05-8	Acetonitrile	130		U
107-02-8	Acrolein	130		U
107-13-1	Acrylonitrile	130		U
71-43-2	Benzene	6.7		U
75-27-4	Bromodichloromethane	6.7		U
75-25-2	Bromoform	6.7		U
74-83-9	Bromomethane	13		U
75-15-0	Carbon disulfide	6.7		U
56-23-5	Carbon tetrachloride	6.7		U
108-90-7	Chlorobenzene	6.7		U
126-99-8	Chloroprene	6.7		U
124-48-1	Dibromochloromethane	6.7		U
96-12-8	1,2-Dibromo-3-chloropropane	13		U
75-00-3	Chloroethane	13		U
110-75-8	2-Chloroethyl vinyl ether	67		U
67-66-3	Chloroform	6.7		U
74-87-3	Chloromethane	13		U
107-05-1	Allyl chloride	13		U
74-95-3	Dibromomethane	6.7		U
110-57-6	trans-1,4-Dichloro-2-butene	6.7		U
75-71-8	Dichlorodifluoromethane	13		U
75-34-3	1,1-Dichloroethane	6.7		U
107-06-2	1,2-Dichloroethane	6.7		U
75-35-4	1,1-Dichloroethene	6.7		U
156-59-2	cis-1,2-Dichloroethene	3.3		U
156-60-5	trans-1,2-Dichloroethene	3.3		U
540-59-0	1,2-Dichloroethene (total)	6.7		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0F300248 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM09102

Date Extracted:07/04/00

Dilution factor: 1.03

Date Analyzed: 07/04/00

Moisture %:23

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.7		U
10061-01-5	cis-1,3-Dichloropropene	6.7		U
10061-02-6	trans-1,3-Dichloropropene	6.7		U
100-41-4	Ethylbenzene	6.7		U
97-63-2	Ethyl methacrylate	6.7		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	27		U
74-88-4	Iodomethane	6.7		U
78-83-1	Isobutyl alcohol	270		U
126-98-7	Methacrylonitrile	6.7		U
75-09-2	Methylene chloride	3.0		J
80-62-6	Methyl methacrylate	6.7		U
107-12-0	Propionitrile	27		U
100-42-5	Styrene	6.7		U
630-20-6	1,1,1,2-Tetrachloroethane	6.7		U
79-34-5	1,1,2,2-Tetrachloroethane	6.7		U
127-18-4	Tetrachloroethene	6.7		U
108-88-3	Toluene	6.7		U
71-55-6	1,1,1-Trichloroethane	6.7		U
79-00-5	1,1,2-Trichloroethane	6.7		U
79-01-6	Trichloroethene	6.7		U
96-18-4	1,2,3-Trichloropropane	6.7		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.7		U
106-93-4	1,2-Dibromoethane (EDB)	6.7		U
78-93-3	2-Butanone (MEK)	27		U
108-10-1	4-Methyl-2-pentanone (MIBK)	27		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM09102

Date Extracted: 07/04/00

Dilution factor: 1.03

Date Analyzed: 07/04/00

Moisture %: 23

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	27		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOF300248 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOA102

Date Extracted: 07/04/00

Dilution factor: 0.88

Date Analyzed: 07/04/00

Moisture %: 20

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-04-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	5.1		J
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.5		U
75-27-4	Bromodichloromethane	5.5		U
75-25-2	Bromoform	5.5		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.5		U
56-23-5	Carbon tetrachloride	5.5		U
108-90-7	Chlorobenzene	5.5		U
126-99-8	Chloroprene	5.5		U
124-48-1	Dibromochloromethane	5.5		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	55		U
67-66-3	Chloroform	5.5		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.5		U
110-57-6	trans-1,4-Dichloro-2-butene	5.5		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.5		U
107-06-2	1,2-Dichloroethane	5.5		U
75-35-4	1,1-Dichloroethene	5.5		U
156-59-2	cis-1,2-Dichloroethene	2.8		U
156-60-5	trans-1,2-Dichloroethene	2.8		U
540-59-0	1,2-Dichloroethene (total)	5.5		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0F300248 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM0A102

Date Extracted:07/04/00

Dilution factor: 0.88

Date Analyzed: 07/04/00

Moisture %:20

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	5.5	U
10061-01-5	cis-1,3-Dichloropropene	5.5	U
10061-02-6	trans-1,3-Dichloropropene	5.5	U
100-41-4	Ethylbenzene	5.5	U
97-63-2	Ethyl methacrylate	5.5	U
75-69-4	Trichlorofluoromethane	11	U
591-78-6	2-Hexanone	22	U
74-88-4	Iodomethane	5.5	U
78-83-1	Isobutyl alcohol	220	U
126-98-7	Methacrylonitrile	5.5	U
75-09-2	Methylene chloride	2.0	J
80-62-6	Methyl methacrylate	5.5	U
107-12-0	Propionitrile	22	U
100-42-5	Styrene	5.5	U
630-20-6	1,1,1,2-Tetrachloroethane	5.5	U
79-34-5	1,1,2,2-Tetrachloroethane	5.5	U
127-18-4	Tetrachloroethene	5.5	U
108-88-3	Toluene	5.5	U
71-55-6	1,1,1-Trichloroethane	5.5	U
79-00-5	1,1,2-Trichloroethane	5.5	U
79-01-6	Trichloroethene	5.5	U
96-18-4	1,2,3-Trichloropropane	5.5	U
108-05-4	Vinyl acetate	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	5.5	U
106-93-4	1,2-Dibromoethane (EDB)	5.5	U
78-93-3	2-Butanone (MEK)	22	U
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM0A102

Date Extracted: 07/04/00

Dilution factor: 0.88

Date Analyzed: 07/04/00

Moisture %: 20

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-04-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	22		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOC102

Date Extracted: 07/04/00

Dilution factor: 0.92

Date Analyzed: 07/04/00

Moisture %: 18

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	26	
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
71-43-2	Benzene	5.6	U
75-27-4	Bromodichloromethane	5.6	U
75-25-2	Bromoform	5.6	U
74-83-9	Bromomethane	11	U
75-15-0	Carbon disulfide	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
108-90-7	Chlorobenzene	5.6	U
126-99-8	Chloroprene	5.6	U
124-48-1	Dibromochloromethane	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
75-00-3	Chloroethane	11	U
110-75-8	2-Chloroethyl vinyl ether	56	U
67-66-3	Chloroform	5.6	U
74-87-3	Chloromethane	11	U
107-05-1	Allyl chloride	11	U
74-95-3	Dibromomethane	5.6	U
110-57-6	trans-1,4-Dichloro-2-butene	5.6	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
156-59-2	cis-1,2-Dichloroethene	2.8	U
156-60-5	trans-1,2-Dichloroethene	2.8	U
540-59-0	1,2-Dichloroethene (total)	5.6	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOC102

Date Extracted: 07/04/00

Dilution factor: 0.92

Date Analyzed: 07/04/00

Moisture %: 18

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-05-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.6		U
10061-01-5	cis-1,3-Dichloropropene	5.6		U
10061-02-6	trans-1,3-Dichloropropene	5.6		U
100-41-4	Ethylbenzene	5.6		U
97-63-2	Ethyl methacrylate	5.6		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	22		U
74-88-4	Iodomethane	5.6		U
78-83-1	Isobutyl alcohol	220		U
126-98-7	Methacrylonitrile	5.6		U
75-09-2	Methylene chloride	2.0		J
80-62-6	Methyl methacrylate	5.6		U
107-12-0	Propionitrile	22		U
100-42-5	Styrene	5.6		U
630-20-6	1,1,1,2-Tetrachloroethane	5.6		U
79-34-5	1,1,2,2-Tetrachloroethane	5.6		U
127-18-4	Tetrachloroethene	5.6		U
108-88-3	Toluene	5.6		U
71-55-6	1,1,1-Trichloroethane	5.6		U
79-00-5	1,1,2-Trichloroethane	5.6		U
79-01-6	Trichloroethene	5.6		U
96-18-4	1,2,3-Trichloropropane	5.6		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.6		U
106-93-4	1,2-Dibromoethane (EDB)	5.6		U
78-93-3	2-Butanone (MRK)	5.7		J
108-10-1	4-Methyl-2-pentanone (MIBK)	22		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM0C102

Date Extracted: 07/04/00

Dilution factor: 0.92

Date Analyzed: 07/04/00

Moisture %: 18

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	22	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOD102

Date Extracted: 07/04/00

Dilution factor: 0.95

Date Analyzed: 07/04/00

Moisture %: 17

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-06-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	23		U
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.7		U
75-27-4	Bromodichloromethane	5.7		U
75-25-2	Bromoform	5.7		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.7		U
56-23-5	Carbon tetrachloride	5.7		U
108-90-7	Chlorobenzene	5.7		U
126-99-8	Chloroprene	5.7		U
124-48-1	Dibromochloromethane	5.7		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	57		U
67-66-3	Chloroform	5.7		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.7		U
110-57-6	trans-1,4-Dichloro-2-butene	5.7		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.7		U
107-06-2	1,2-Dichloroethane	5.7		U
75-35-4	1,1-Dichloroethene	5.7		U
156-59-2	cis-1,2-Dichloroethene	2.9		U
156-60-5	trans-1,2-Dichloroethene	2.9		U
540-59-0	1,2-Dichloroethene (total)	5.7		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOD102

Date Extracted: 07/04/00

Dilution factor: 0.95

Date Analyzed: 07/04/00

Moisture %: 17

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-06-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	2.0		J
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOD102

Date Extracted: 07/04/00

Dilution factor: 0.95

Date Analyzed: 07/04/00

Moisture %: 17

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-06-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFM0E102

Date Extracted: 07/04/00

Dilution factor: 0.94

Date Analyzed: 07/04/00

Moisture %: 21

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	24		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	5.9		U
75-27-4	Bromodichloromethane	5.9		U
75-25-2	Bromoform	5.9		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	5.9		U
56-23-5	Carbon tetrachloride	5.9		U
108-90-7	Chlorobenzene	5.9		U
126-99-8	Chloroprene	5.9		U
124-48-1	Dibromochloromethane	5.9		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	59		U
67-66-3	Chloroform	5.9		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	5.9		U
110-57-6	trans-1,4-Dichloro-2-butene	5.9		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.9		U
107-06-2	1,2-Dichloroethane	5.9		U
75-35-4	1,1-Dichloroethene	5.9		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	5.9		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOR102

Date Extracted: 07/04/00

Dilution factor: 0.94

Date Analyzed: 07/04/00

Moisture %: 21

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.9		U
10061-01-5	cis-1,3-Dichloropropene	5.9		U
10061-02-6	trans-1,3-Dichloropropene	5.9		U
100-41-4	Ethylbenzene	5.9		U
97-63-2	Ethyl methacrylate	5.9		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	5.9		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	5.9		U
75-09-2	Methylene chloride	5.9		U
80-62-6	Methyl methacrylate	5.9		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	5.9		U
630-20-6	1,1,1,2-Tetrachloroethane	5.9		U
79-34-5	1,1,2,2-Tetrachloroethane	5.9		U
127-18-4	Tetrachloroethene	5.9		U
108-88-3	Toluene	5.9		U
71-55-6	1,1,1-Trichloroethane	5.9		U
79-00-5	1,1,2-Trichloroethane	5.9		U
79-01-6	Trichloroethene	5.9		U
96-18-4	1,2,3-Trichloropropane	5.9		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.9		U
106-93-4	1,2-Dibromoethane (EDB)	5.9		U
78-93-3	2-Butanone (MEK)	24		U
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFMOE102

Date Extracted: 07/04/00

Dilution factor: 0.94

Date Analyzed: 07/04/00

Moisture %: 21

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOF102

Date Extracted: 07/04/00

Dilution factor: 1.01

Date Analyzed: 07/04/00

Moisture %: 12

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-08-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-64-1	Acetone	2.8	J
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
71-43-2	Benzene	5.7	U
75-27-4	Bromodichloromethane	5.7	U
75-25-2	Bromoform	5.7	U
74-83-9	Bromomethane	11	U
75-15-0	Carbon disulfide	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
108-90-7	Chlorobenzene	5.7	U
126-99-8	Chloroprene	5.7	U
124-48-1	Dibromochloromethane	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
75-00-3	Chloroethane	11	U
110-75-8	2-Chloroethyl vinyl ether	57	U
67-66-3	Chloroform	5.7	U
74-87-3	Chloromethane	11	U
107-05-1	Allyl chloride	11	U
74-95-3	Dibromomethane	5.7	U
110-57-6	trans-1,4-Dichloro-2-butene	5.7	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
156-59-2	cis-1,2-Dichloroethene	2.9	U
156-60-5	trans-1,2-Dichloroethene	2.9	U
540-59-0	1,2-Dichloroethene (total)	5.7	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOF102

Date Extracted: 07/04/00

Dilution factor: 1.01

Date Analyzed: 07/04/00

Moisture %: 12

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-08-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	5.7		U
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFM0F102

Date Extracted: 07/04/00

Dilution factor: 1.01

Date Analyzed: 07/04/00

Moisture %: 12

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-08-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014

Matrix: (soil/water) SO Lab Sample ID: A0G010104 002
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample Wt/Vol: 5 / g Date Received: 06/29/00
 Work Order: DFMOG102 Date Extracted: 07/04/00
 Dilution factor: 1.18 Date Analyzed: 07/04/00
 Moisture %: 13

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	27	☐
75-05-8	Acetonitrile	140	☐
107-02-8	Acrolein	140	☐
107-13-1	Acrylonitrile	140	☐
71-43-2	Benzene	6.8	☐
75-27-4	Bromodichloromethane	6.8	☐
75-25-2	Bromoform	6.8	☐
74-83-9	Bromomethane	14	☐
75-15-0	Carbon disulfide	6.8	☐
56-23-5	Carbon tetrachloride	6.8	☐
108-90-7	Chlorobenzene	6.8	☐
126-99-8	Chloroprene	6.8	☐
124-48-1	Dibromochloromethane	6.8	☐
96-12-8	1,2-Dibromo-3-chloropropane	14	☐
75-00-3	Chloroethane	14	☐
110-75-8	2-Chloroethyl vinyl ether	68	☐
67-66-3	Chloroform	6.8	☐
74-87-3	Chloromethane	14	☐
107-05-1	Allyl chloride	14	☐
74-95-3	Dibromomethane	6.8	☐
110-57-6	trans-1,4-Dichloro-2-butene	6.8	☐
75-71-8	Dichlorodifluoromethane	14	☐
75-34-3	1,1-Dichloroethane	6.8	☐
107-06-2	1,2-Dichloroethane	6.8	☐
75-35-4	1,1-Dichloroethene	6.8	☐
156-59-2	cis-1,2-Dichloroethene	3.4	☐
156-60-5	trans-1,2-Dichloroethene	3.4	☐
540-59-0	1,2-Dichloroethene (total)	6.8	☐

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOG102

Date Extracted: 07/04/00

Dilution factor: 1.18

Date Analyzed: 07/04/00

Moisture %: 13

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.8		U
10061-01-5	cis-1,3-Dichloropropene	6.8		U
10061-02-6	trans-1,3-Dichloropropene	6.8		U
100-41-4	Ethylbenzene	6.8		U
97-63-2	Ethyl methacrylate	6.8		U
75-69-4	Trichlorofluoromethane	14		U
591-78-6	2-Hexanone	27		U
74-88-4	Iodomethane	6.8		U
78-83-1	Isobutyl alcohol	270		U
126-98-7	Methacrylonitrile	6.8		U
75-09-2	Methylene chloride	2.7		J
80-62-6	Methyl methacrylate	6.8		U
107-12-0	Propionitrile	27		U
100-42-5	Styrene	6.8		U
630-20-6	1,1,1,2-Tetrachloroethane	6.8		U
79-34-5	1,1,2,2-Tetrachloroethane	6.8		U
127-18-4	Tetrachloroethene	6.8		U
108-88-3	Toluene	6.8		U
71-55-6	1,1,1-Trichloroethane	6.8		U
79-00-5	1,1,2-Trichloroethane	6.8		U
79-01-6	Trichloroethene	6.8		U
96-18-4	1,2,3-Trichloropropane	6.8		U
108-05-4	Vinyl acetate	14		U
75-01-4	Vinyl chloride	14		U
1330-20-7	Xylenes (total)	6.8		U
106-93-4	1,2-Dibromoethane (EDB)	6.8		U
78-93-3	2-Butanone (MEK)	27		U
108-10-1	4-Methyl-2-pentanone (MIBK)	27		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFM0G102

Date Extracted: 07/04/00

Dilution factor: 1.18

Date Analyzed: 07/04/00

Moisture %: 13

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	27		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOH102

Date Extracted: 07/04/00

Dilution factor: 1.01

Date Analyzed: 07/04/00

Moisture %: 19

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone	25		U
75-05-8	Acetonitrile	130		U
107-02-8	Acrolein	130		U
107-13-1	Acrylonitrile	130		U
71-43-2	Benzene	6.3		U
75-27-4	Bromodichloromethane	6.3		U
75-25-2	Bromoform	6.3		U
74-83-9	Bromomethane	13		U
75-15-0	Carbon disulfide	6.3		U
56-23-5	Carbon tetrachloride	6.3		U
108-90-7	Chlorobenzene	6.3		U
126-99-8	Chloroprene	6.3		U
124-48-1	Dibromochloromethane	6.3		U
96-12-8	1,2-Dibromo-3-chloropropane	13		U
75-00-3	Chloroethane	13		U
110-75-8	2-Chloroethyl vinyl ether	63		U
67-66-3	Chloroform	6.3		U
74-87-3	Chloromethane	13		U
107-05-1	Allyl chloride	13		U
74-95-3	Dibromomethane	6.3		U
110-57-6	trans-1,4-Dichloro-2-butene	6.3		U
75-71-8	Dichlorodifluoromethane	13		U
75-34-3	1,1-Dichloroethane	6.3		U
107-06-2	1,2-Dichloroethane	6.3		U
75-35-4	1,1-Dichloroethene	6.3		U
156-59-2	cis-1,2-Dichloroethene	3.1		U
156-60-5	trans-1,2-Dichloroethene	3.1		U
540-59-0	1,2-Dichloroethene (total)	6.3		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc. SDG Number:MP014

Matrix: (soil/water) SO Lab Sample ID:A0G010104 003

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 06/29/00
Work Order: DFM0H102 Date Extracted:07/04/00
Dilution factor: 1.01 Date Analyzed: 07/04/00
Moisture %:19

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	6.3		U
10061-01-5	cis-1,3-Dichloropropene	6.3		U
10061-02-6	trans-1,3-Dichloropropene	6.3		U
100-41-4	Ethylbenzene	6.3		U
97-63-2	Ethyl methacrylate	6.3		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.3		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.3		U
75-09-2	Methylene chloride	6.3		U
80-62-6	Methyl methacrylate	6.3		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.3		U
630-20-6	1,1,1,2-Tetrachloroethane	6.3		U
79-34-5	1,1,2,2-Tetrachloroethane	6.3		U
127-18-4	Tetrachloroethene	6.3		U
108-88-3	Toluene	6.3		U
71-55-6	1,1,1-Trichloroethane	6.3		U
79-00-5	1,1,2-Trichloroethane	6.3		U
79-01-6	Trichloroethene	6.3		U
96-18-4	1,2,3-Trichloropropane	6.3		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.3		U
106-93-4	1,2-Dibromoethane (EDB)	6.3		U
78-93-3	2-Butanone (MEK)	25		U
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFM0H102

Date Extracted: 07/04/00

Dilution factor: 1.01

Date Analyzed: 07/04/00

Moisture %: 19

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	0
1634-04-4	Methyl tert-butyl ether	25		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFM0J102

Date Extracted: 07/04/00

Dilution factor: 0.97

Date Analyzed: 07/04/00

Moisture %: 15

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-11-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	23	U
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
71-43-2	Benzene	5.7	U
75-27-4	Bromodichloromethane	5.7	U
75-25-2	Bromoform	5.7	U
74-83-9	Bromomethane	11	U
75-15-0	Carbon disulfide	5.7	U
56-23-5	Carbon tetrachloride	5.7	U
108-90-7	Chlorobenzene	5.7	U
126-99-8	Chloroprene	5.7	U
124-48-1	Dibromochloromethane	5.7	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
75-00-3	Chloroethane	11	U
110-75-8	2-Chloroethyl vinyl ether	57	U
67-66-3	Chloroform	5.7	U
74-87-3	Chloromethane	11	U
107-05-1	Allyl chloride	11	U
74-95-3	Dibromomethane	5.7	U
110-57-6	trans-1,4-Dichloro-2-butene	5.7	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.7	U
107-06-2	1,2-Dichloroethane	5.7	U
75-35-4	1,1-Dichloroethene	5.7	U
156-59-2	cis-1,2-Dichloroethene	2.9	U
156-60-5	trans-1,2-Dichloroethene	2.9	U
540-59-0	1,2-Dichloroethene (total)	5.7	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFMOJ102

Date Extracted: 07/04/00

Dilution factor: 0.97

Date Analyzed: 07/04/00

Moisture %: 15

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-11-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	5.7		U
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFM0J102

Date Extracted: 07/04/00

Dilution factor: 0.97

Date Analyzed: 07/04/00

Moisture %: 15

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-11-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	23	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMON102

Date Extracted: 07/05/00

Dilution factor: 1.14

Date Analyzed: 07/05/00

Moisture %: 18

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	3.8		J
75-05-8	Acetonitrile	140		U
107-02-8	Acrolein	140		U
107-13-1	Acrylonitrile	140		U
71-43-2	Benzene	7.0		U
75-27-4	Bromodichloromethane	7.0		U
75-25-2	Bromoform	7.0		U
74-83-9	Bromomethane	14		U
75-15-0	Carbon disulfide	7.0		U
56-23-5	Carbon tetrachloride	7.0		U
108-90-7	Chlorobenzene	7.0		U
126-99-8	Chloroprene	7.0		U
124-48-1	Dibromochloromethane	7.0		U
96-12-8	1,2-Dibromo-3-chloropropane	14		U
75-00-3	Chloroethane	14		U
110-75-8	2-Chloroethyl vinyl ether	70		U
67-66-3	Chloroform	7.0		U
74-87-3	Chloromethane	14		U
107-05-1	Allyl chloride	14		U
74-95-3	Dibromomethane	7.0		U
110-57-6	trans-1,4-Dichloro-2-butene	7.0		U
75-71-8	Dichlorodifluoromethane	14		U
75-34-3	1,1-Dichloroethane	7.0		U
107-06-2	1,2-Dichloroethane	7.0		U
75-35-4	1,1-Dichloroethene	7.0		U
156-59-2	cis-1,2-Dichloroethene	3.5		U
156-60-5	trans-1,2-Dichloroethene	3.5		U
540-59-0	1,2-Dichloroethene (total)	7.0		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMON102

Date Extracted: 07/05/00

Dilution factor: 1.14

Date Analyzed: 07/05/00

Moisture %: 18

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	7.0		U
10061-01-5	cis-1,3-Dichloropropene	7.0		U
10061-02-6	trans-1,3-Dichloropropene	7.0		U
100-41-4	Ethylbenzene	7.0		U
97-63-2	Ethyl methacrylate	7.0		U
75-69-4	Trichlorofluoromethane	14		U
591-78-6	2-Hexanone	28		U
74-88-4	Iodomethane	7.0		U
78-83-1	Isobutyl alcohol	280		U
126-98-7	Methacrylonitrile	7.0		U
75-09-2	Methylene chloride	2.1		J B
80-62-6	Methyl methacrylate	7.0		U
107-12-0	Propionitrile	28		U
100-42-5	Styrene	7.0		U
630-20-6	1,1,1,2-Tetrachloroethane	7.0		U
79-34-5	1,1,2,2-Tetrachloroethane	7.0		U
127-18-4	Tetrachloroethene	7.0		U
108-88-3	Toluene	7.0		U
71-55-6	1,1,1-Trichloroethane	7.0		U
79-00-5	1,1,2-Trichloroethane	7.0		U
79-01-6	Trichloroethene	7.0		U
96-18-4	1,2,3-Trichloropropane	7.0		U
108-05-4	Vinyl acetate	14		U
75-01-4	Vinyl chloride	14		U
1330-20-7	Xylenes (total)	7.0		U
106-93-4	1,2-Dibromoethane (EDB)	7.0		U
78-93-3	2-Butanone (MEK)	28		U
108-10-1	4-Methyl-2-pentanone (MIBK)	28		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0G010105 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMON102

Date Extracted:07/05/00

Dilution factor: 1.14

Date Analyzed: 07/05/00

Moisture %:18

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	28		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOP102

Date Extracted: 07/05/00

Dilution factor: 0.9

Date Analyzed: 07/05/00

Moisture %: 22

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-14-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	4.1		J
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	5.8		U
75-27-4	Bromodichloromethane	5.8		U
75-25-2	Bromoform	5.8		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	5.8		U
56-23-5	Carbon tetrachloride	5.8		U
108-90-7	Chlorobenzene	5.8		U
126-99-8	Chloroprene	5.8		U
124-48-1	Dibromochloromethane	5.8		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	58		U
67-66-3	Chloroform	5.8		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	5.8		U
110-57-6	trans-1,4-Dichloro-2-butene	5.8		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.8		U
107-06-2	1,2-Dichloroethane	5.8		U
75-35-4	1,1-Dichloroethene	5.8		U
156-59-2	cis-1,2-Dichloroethene	2.9		U
156-60-5	trans-1,2-Dichloroethene	2.9		U
540-59-0	1,2-Dichloroethene (total)	5.8		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOP102

Date Extracted: 07/05/00

Dilution factor: 0.9

Date Analyzed: 07/05/00

Moisture %: 22

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-14-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.8		U
10061-01-5	cis-1,3-Dichloropropene	5.8		U
10061-02-6	trans-1,3-Dichloropropene	5.8		U
100-41-4	Ethylbenzene	5.8		U
97-63-2	Ethyl methacrylate	5.8		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.8		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.8		U
75-09-2	Methylene chloride	5.8		U
80-62-6	Methyl methacrylate	5.8		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.8		U
630-20-6	1,1,1,2-Tetrachloroethane	5.8		U
79-34-5	1,1,2,2-Tetrachloroethane	5.8		U
127-18-4	Tetrachloroethene	5.8		U
108-88-3	Toluene	5.8		U
71-55-6	1,1,1-Trichloroethane	5.8		U
79-00-5	1,1,2-Trichloroethane	5.8		U
79-01-6	Trichloroethene	5.8		U
96-18-4	1,2,3-Trichloropropane	5.8		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.8		U
106-93-4	1,2-Dibromoethane (EDB)	5.8		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0G010105 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOP102

Date Extracted:07/05/00

Dilution factor: 0.9

Date Analyzed: 07/05/00

Moisture %:22

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-14-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFM00102

Date Extracted: 07/05/00

Dilution factor: 1.1

Date Analyzed: 07/05/00

Moisture %: 8.2

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	2.8		J
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.0		U
75-27-4	Bromodichloromethane	6.0		U
75-25-2	Bromoform	6.0		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.0		U
56-23-5	Carbon tetrachloride	6.0		U
108-90-7	Chlorobenzene	6.0		U
126-99-8	Chloroprene	6.0		U
124-48-1	Dibromochloromethane	6.0		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	60		U
67-66-3	Chloroform	6.0		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.0		U
110-57-6	trans-1,4-Dichloro-2-butene	6.0		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.0		U
107-06-2	1,2-Dichloroethane	6.0		U
75-35-4	1,1-Dichloroethene	6.0		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	6.0		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0G010105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOQ102

Date Extracted:07/05/00

Dilution factor: 1.1

Date Analyzed: 07/05/00

Moisture %:8.2

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.0		U
10061-01-5	cis-1,3-Dichloropropene	6.0		U
10061-02-6	trans-1,3-Dichloropropene	6.0		U
100-41-4	Ethylbenzene	6.0		U
97-63-2	Ethyl methacrylate	6.0		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	6.0		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	6.0		U
75-09-2	Methylene chloride	6.0		U
80-62-6	Methyl methacrylate	6.0		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	6.0		U
630-20-6	1,1,1,2-Tetrachloroethane	6.0		U
79-34-5	1,1,2,2-Tetrachloroethane	6.0		U
127-18-4	Tetrachloroethene	6.0		U
108-88-3	Toluene	6.0		U
71-55-6	1,1,1-Trichloroethane	6.0		U
79-00-5	1,1,2-Trichloroethane	6.0		U
79-01-6	Trichloroethene	6.0		U
96-18-4	1,2,3-Trichloropropane	6.0		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	6.0		U
106-93-4	1,2-Dibromoethane (EDB)	6.0		U
78-93-3	2-Butanone (MEK)	24		U
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOQ102

Date Extracted: 07/05/00

Dilution factor: 1.1

Date Analyzed: 07/05/00

Moisture %: 8.2

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOR102

Date Extracted: 07/05/00

Dilution factor: 0.84

Date Analyzed: 07/05/00

Moisture %: 13

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-16-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	6.3	J
75-05-8	Acetonitrile	97	U
107-02-8	Acrolein	97	U
107-13-1	Acrylonitrile	97	U
71-43-2	Benzene	4.8	U
75-27-4	Bromodichloromethane	4.8	U
75-25-2	Bromoform	4.8	U
74-83-9	Bromomethane	9.7	U
75-15-0	Carbon disulfide	4.8	U
56-23-5	Carbon tetrachloride	4.8	U
108-90-7	Chlorobenzene	4.8	U
126-99-8	Chloroprene	4.8	U
124-48-1	Dibromochloromethane	4.8	U
96-12-8	1,2-Dibromo-3-chloropropane	9.7	U
75-00-3	Chloroethane	9.7	U
110-75-8	2-Chloroethyl vinyl ether	48	U
67-66-3	Chloroform	4.8	U
74-87-3	Chloromethane	9.7	U
107-05-1	Allyl chloride	9.7	U
74-95-3	Dibromomethane	4.8	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	U
75-71-8	Dichlorodifluoromethane	9.7	U
75-34-3	1,1-Dichloroethane	4.8	U
107-06-2	1,2-Dichloroethane	4.8	U
75-35-4	1,1-Dichloroethene	4.8	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
540-59-0	1,2-Dichloroethene (total)	4.8	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOR102

Date Extracted: 07/05/00

Dilution factor: 0.84

Date Analyzed: 07/05/00

Moisture %: 13

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-16-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	4.8		U
10061-01-5	cis-1,3-Dichloropropene	4.8		U
10061-02-6	trans-1,3-Dichloropropene	4.8		U
100-41-4	Ethylbenzene	4.8		U
97-63-2	Ethyl methacrylate	4.8		U
75-69-4	Trichlorofluoromethane	9.7		U
591-78-6	2-Hexanone	19		U
74-88-4	Iodomethane	4.8		U
78-83-1	Isobutyl alcohol	190		U
126-98-7	Methacrylonitrile	4.8		U
75-09-2	Methylene chloride	4.8		U
80-62-6	Methyl methacrylate	4.8		U
107-12-0	Propionitrile	19		U
100-42-5	Styrene	4.8		U
630-20-6	1,1,1,2-Tetrachloroethane	4.8		U
79-34-5	1,1,2,2-Tetrachloroethane	4.8		U
127-18-4	Tetrachloroethene	4.8		U
108-88-3	Toluene	4.8		U
71-55-6	1,1,1-Trichloroethane	4.8		U
79-00-5	1,1,2-Trichloroethane	4.8		U
79-01-6	Trichloroethene	4.8		U
96-18-4	1,2,3-Trichloropropane	4.8		U
108-05-4	Vinyl acetate	9.7		U
75-01-4	Vinyl chloride	9.7		U
1330-20-7	Xylenes (total)	4.8		U
106-93-4	1,2-Dibromoethane (EDB)	4.8		U
78-93-3	2-Butanone (MEK)	19		U
108-10-1	4-Methyl-2-pentanone (MIBK)	19		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOR102

Date Extracted: 07/05/00

Dilution factor: 0.84

Date Analyzed: 07/05/00

Moisture %: 13

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-16-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	19		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOT102

Date Extracted: 07/05/00

Dilution factor: 1.01

Date Analyzed: 07/05/00

Moisture %: 7.2

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-17-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	22		Q
75-05-8	Acetonitrile	110		Q
107-02-8	Acrolein	110		Q
107-13-1	Acrylonitrile	110		Q
71-43-2	Benzene	5.4		Q
75-27-4	Bromodichloromethane	5.4		Q
75-25-2	Bromoform	5.4		Q
74-83-9	Bromomethane	11		Q
75-15-0	Carbon disulfide	5.4		Q
56-23-5	Carbon tetrachloride	5.4		Q
108-90-7	Chlorobenzene	5.4		Q
126-99-8	Chloroprene	5.4		Q
124-48-1	Dibromochloromethane	5.4		Q
96-12-8	1,2-Dibromo-3-chloropropane	11		Q
75-00-3	Chloroethane	11		Q
110-75-8	2-Chloroethyl vinyl ether	54		Q
67-66-3	Chloroform	5.4		Q
74-87-3	Chloromethane	11		Q
107-05-1	Allyl chloride	11		Q
74-95-3	Dibromomethane	5.4		Q
110-57-6	trans-1,4-Dichloro-2-butene	5.4		Q
75-71-8	Dichlorodifluoromethane	11		Q
75-34-3	1,1-Dichloroethane	5.4		Q
107-06-2	1,2-Dichloroethane	5.4		Q
75-35-4	1,1-Dichloroethene	5.4		Q
156-59-2	cis-1,2-Dichloroethene	2.7		Q
156-60-5	trans-1,2-Dichloroethene	2.7		Q
540-59-0	1,2-Dichloroethene (total)	5.4		Q

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0G010105 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOT102

Date Extracted:07/05/00

Dilution factor: 1.01

Date Analyzed: 07/05/00

Moisture %:7.2

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-17-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.4		U
10061-01-5	cis-1,3-Dichloropropene	5.4		U
10061-02-6	trans-1,3-Dichloropropene	5.4		U
100-41-4	Ethylbenzene	5.4		U
97-63-2	Ethyl methacrylate	5.4		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	22		U
74-88-4	Iodcmethane	5.4		U
78-83-1	Isobutyl alcohol	220		U
126-98-7	Methacrylonitrile	5.4		U
75-09-2	Methylene chloride	5.4		U
80-62-6	Methyl methacrylate	5.4		U
107-12-0	Propionitrile	22		U
100-42-5	Styrene	5.4		U
630-20-6	1,1,1,2-Tetrachloroethane	5.4		U
79-34-5	1,1,2,2-Tetrachloroethane	5.4		U
127-18-4	Tetrachloroethene	5.4		U
108-88-3	Toluene	5.4		U
71-55-6	1,1,1-Trichloroethane	5.4		U
79-00-5	1,1,2-Trichloroethane	5.4		U
79-01-6	Trichloroethene	5.4		U
96-18-4	1,2,3-Trichloropropane	5.4		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.4		U
106-93-4	1,2-Dibromoethane (EDB)	5.4		U
78-93-3	2-Butanone (MEK)	22		U
108-10-1	4-Methyl-2-pentanone (MIBK)	22		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOT102

Date Extracted: 07/05/00

Dilution factor: 1.01

Date Analyzed: 07/05/00

Moisture %: 7.2

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-17-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	22		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0G010105 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFM0V102

Date Extracted:07/05/00

Dilution factor: 1.01

Date Analyzed: 07/05/00

Moisture %:12

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-DU01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	23		U
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.7		U
75-27-4	Bromodichloromethane	5.7		U
75-25-2	Bromoform	5.7		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.7		U
56-23-5	Carbon tetrachloride	5.7		U
108-90-7	Chlorobenzene	5.7		U
126-99-8	Chloroprene	5.7		U
124-48-1	Dibromochloromethane	5.7		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	57		U
67-66-3	Chloroform	5.7		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.7		U
110-57-6	trans-1,4-Dichloro-2-butene	5.7		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.7		U
107-06-2	1,2-Dichloroethane	5.7		U
75-35-4	1,1-Dichloroethene	5.7		U
156-59-2	cis-1,2-Dichloroethene	2.9		U
156-60-5	trans-1,2-Dichloroethene	2.9		U
540-59-0	1,2-Dichloroethene (total)	5.7		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/30/00

Work Order: DFMOV102

Date Extracted: 07/05/00

Dilution factor: 1.01

Date Analyzed: 07/05/00

Moisture %: 12

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-DU01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	5.7		U
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014
Matrix: (soil/water) SO Lab Sample ID: A0G010105 006
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 06/30/00
Work Order: DFMOV102 Date Extracted: 07/05/00
Dilution factor: 1.01 Date Analyzed: 07/05/00
Moisture %: 12

Client Sample Id: MPT-G4-SU-DU01 QC Batch: 0188232

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/28/00

Work Order: DFL4J10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 30

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-01-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	470	U
208-96-8	Acenaphthylene	470	U
98-86-2	Acetophenone	470	U
53-96-3	2-Acetylaminofluorene	4700	U
92-67-1	4-Aminobiphenyl	2300	U
62-53-3	Aniline	470	U
120-12-7	Anthracene	470	U
56-55-3	Benzo(a)anthracene	470	U
205-99-2	Benzo(b)fluoranthene	470	U
207-08-9	Benzo(k)fluoranthene	470	U
191-24-2	Benzo(ghi)perylene	470	U
50-32-8	Benzo(a)pyrene	470	U
100-51-6	Benzyl alcohol	470	U
111-91-1	bis(2-Chloroethoxy)methane	470	U
111-44-4	bis(2-Chloroethyl) ether	470	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	470	U
117-81-7	bis(2-Ethylhexyl) phthalate	470	U
101-55-3	4-Bromophenyl phenyl ether	470	U
85-68-7	Butyl benzyl phthalate	470	U
106-47-8	4-Chloroaniline	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-58-7	2-Chloronaphthalene	470	U
95-57-8	2-Chlorophenol	470	U
7005-72-3	4-Chlorophenyl phenyl ether	470	U
218-01-9	Chrysene	470	U
2303-16-4	Diallate	940	U
53-70-3	Dibenz(a,h)anthracene	470	U
132-64-9	Dibenzofuran	470	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014

Matrix: (soil/water) SO Lab Sample ID: A0F300248 001

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g Date Received: 06/28/00

Work Order: DFL4J10W Date Extracted: 07/05/00

Dilution factor: 1 Date Analyzed: 07/10/00

Moisture %: 30

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-01-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	470		U
95-50-1	1,2-Dichlorobenzene	470		U
541-73-1	1,3-Dichlorobenzene	470		U
106-46-7	1,4-Dichlorobenzene	470		U
91-94-1	3,3'-Dichlorobenzidine	2300		U
120-83-2	2,4-Dichlorophenol	470		U
87-65-0	2,6-Dichlorophenol	470		U
84-66-2	Diethyl phthalate	470		U
60-11-7	p-Dimethylaminoazobenzene	940		U
57-97-6	7,12-Dimethylbenz(a)anthracene	940		U
119-93-7	3,3'-Dimethylbenzidine	2300		U
105-67-9	2,4-Dimethylphenol	470		U
131-11-3	Dimethyl phthalate	470		U
117-84-0	Di-n-octyl phthalate	470		U
99-65-0	1,3-Dinitrobenzene	470		U
534-52-1	4,6-Dinitro-2-methylphenol	2300		U
51-28-5	2,4-Dinitrophenol	2300		U
121-14-2	2,4-Dinitrotoluene	470		U
606-20-2	2,6-Dinitrotoluene	470		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	940		U
123-91-1	1,4-Dioxane	470		U
122-39-4	Diphenylamine	470		U
62-50-0	Ethyl methanesulfonate	470		U
206-44-0	Fluoranthene	470		U
86-73-7	Fluorene	470		U
118-74-1	Hexachlorobenzene	470		U
87-68-3	Hexachlorobutadiene	470		U
77-47-4	Hexachlorocyclopentadiene	2300		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/28/00

Work Order: DFL4J10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 30

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-01-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	470	U
1888-71-7	Hexachloropropene	4700	U
193-39-5	Indeno(1,2,3-cd)pyrene	470	U
78-59-1	Isophorone	470	U
120-58-1	Isosafrole	940	U
91-80-5	Methapyrilene	2300	U
95-53-4	o-Toluidine	940	U
56-49-5	3-Methylcholanthrene	940	U
66-27-3	Methyl methanesulfonate	470	U
91-57-6	2-Methylnaphthalene	470	U
95-48-7	2-Methylphenol	470	U
108-39-4	3-Methylphenol	470	U
106-44-5	4-Methylphenol	470	U
91-20-3	Naphthalene	470	U
130-15-4	1,4-Naphthoquinone	2300	U
134-32-7	1-Naphthylamine	470	U
91-59-8	2-Naphthylamine	470	U
88-74-4	2-Nitroaniline	2300	U
99-09-2	3-Nitroaniline	2300	U
100-01-6	4-Nitroaniline	2300	U
98-95-3	Nitrobenzene	470	U
88-75-5	2-Nitrophenol	470	U
100-02-7	4-Nitrophenol	2300	U
56-57-5	4-Nitroquinoline-1-oxide	4700	U
924-16-3	N-Nitrosodi-n-butylamine	470	U
55-18-5	N-Nitrosodiethylamine	470	U
62-75-9	N-Nitrosodimethylamine	470	U
621-64-7	N-Nitrosodi-n-propylamine	470	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/28/00

Work Order: DFL4J10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 30

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-01-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	470		U
10595-95-6	N-Nitrosomethylethylamine	470		U
59-89-2	N-Nitrosomorpholine	470		U
100-75-4	N-Nitrosopiperidine	470		U
930-55-2	N-Nitrosopyrrolidine	470		U
99-55-8	5-Nitro-o-toluidine	940		U
608-93-5	Pentachlorobenzene	470		U
76-01-7	Pentachloroethane	2300		U
82-68-8	Pentachloronitrobenzene	2300		U
87-86-5	Pentachlorophenol	2300		U
62-44-2	Phenacetin	940		U
85-01-8	Phenanthrene	470		U
108-95-2	Phenol	470		U
106-50-3	p-Phenylene diamine	4700		U
109-06-8	2-Picoline	940		U
23950-58-5	Pronamide	940		U
129-00-0	Pyrene	470		U
110-86-1	Pyridine	940		U
94-59-7	Safrole	940		U
95-94-3	1,2,4,5-Tetrachlorobenzene	470		U
58-90-2	2,3,4,6-Tetrachlorophenol	2300		U
120-82-1	1,2,4-Trichlorobenzene	470		U
95-95-4	2,4,5-Trichlorophenol	470		U
88-06-2	2,4,6-Trichlorophenol	470		U
99-35-4	1,3,5-Trinitrobenzene	2300		U
86-74-8	Carbazole	470		U
510-15-6	Chlorobenzilate	470		U
122-09-8	a,a-Dimethylphenethylamine	2300		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/28/00

Work Order: DFL4J10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 30

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-01-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	940	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 06/28/00

Work Order: DFM0810W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
83-32-9	Acenaphthene	410	U
208-96-8	Acenaphthylene	410	U
98-86-2	Acetophenone	410	U
53-96-3	2-Acetylaminofluorene	4100	U
92-67-1	4-Aminobiphenyl	2000	U
62-53-3	Aniline	410	U
120-12-7	Anthracene	410	U
56-55-3	Benzo(a)anthracene	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
191-24-2	Benzo(ghi)perylene	410	U
50-32-8	Benzo(a)pyrene	410	U
100-51-6	Benzyl alcohol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
111-44-4	bis(2-Chloroethyl) ether	410	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410	U
117-81-7	bis(2-Ethylhexyl) phthalate	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
85-68-7	Butyl benzyl phthalate	410	U
106-47-8	4-Chloroaniline	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-58-7	2-Chloronaphthalene	410	U
95-57-8	2-Chlorophenol	410	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U
218-01-9	Chrysene	410	U
2303-16-4	Diallate	830	U
53-70-3	Dibenz(a,h)anthracene	410	U
132-64-9	Dibenzofuran	410	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 06/28/00

Work Order: DFM0810W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-02-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	410		U
95-50-1	1,2-Dichlorobenzene	410		U
541-73-1	1,3-Dichlorobenzene	410		U
106-46-7	1,4-Dichlorobenzene	410		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	410		U
87-65-0	2,6-Dichlorophenol	410		U
84-66-2	Diethyl phthalate	410		U
60-11-7	p-Dimethylaminoazobenzene	830		U
57-97-6	7,12-Dimethylbenz(a)anthracene	830		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	410		U
131-11-3	Dimethyl phthalate	410		U
117-84-0	Di-n-octyl phthalate	410		U
99-65-0	1,3-Dinitrobenzene	410		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	410		U
606-20-2	2,6-Dinitrotoluene	410		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	830		U
123-91-1	1,4-Dioxane	410		U
122-39-4	Diphenylamine	410		U
62-50-0	Ethyl methanesulfonate	410		U
206-44-0	Fluoranthene	410		U
86-73-7	Fluorene	410		U
118-74-1	Hexachlorobenzene	410		U
87-68-3	Hexachlorobutadiene	410		U
77-47-4	Hexachlorocyclopentadiene	2000		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 06/28/00

Work Order: DFM0810W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	410	U
1888-71-7	Hexachloropropene	4100	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
78-59-1	Isophorone	410	U
120-58-1	Isosafrole	830	U
91-80-5	Methapyrilene	2000	U
95-53-4	o-Toluidine	830	U
56-49-5	3-Methylcholanthrene	830	U
66-27-3	Methyl methanesulfonate	410	U
91-57-6	2-Methylnaphthalene	410	U
95-48-7	2-Methylphenol	410	U
108-39-4	3-Methylphenol	410	U
106-44-5	4-Methylphenol	410	U
91-20-3	Naphthalene	410	U
130-15-4	1,4-Naphthoquinone	2000	U
134-32-7	1-Naphthylamine	410	U
91-59-8	2-Naphthylamine	410	U
88-74-4	2-Nitroaniline	2000	U
99-09-2	3-Nitroaniline	2000	U
100-01-6	4-Nitroaniline	2000	U
98-95-3	Nitrobenzene	410	U
88-75-5	2-Nitrophenol	410	U
100-02-7	4-Nitrophenol	2000	U
56-57-5	4-Nitroquinoline-1-oxide	4100	U
924-16-3	N-Nitrosodi-n-butylamine	410	U
55-18-5	N-Nitrosodiethylamine	410	U
62-75-9	N-Nitrosodimethylamine	410	U
621-64-7	N-Nitrosodi-n-propylamine	410	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 06/28/00

Work Order: DFM0810W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	410	U
10595-95-6	N-Nitrosomethylethylamine	410	U
59-89-2	N-Nitrosomorpholine	410	U
100-75-4	N-Nitrosopiperidine	410	U
930-55-2	N-Nitrosopyrrolidine	410	U
99-55-8	5-Nitro-o-toluidine	830	U
608-93-5	Pentachlorobenzene	410	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	830	U
85-01-8	Phenanthrene	410	U
108-95-2	Phenol	410	U
106-50-3	p-Phenylene diamine	4100	U
109-06-8	2-Picoline	830	U
23950-58-5	Pronamide	830	U
129-00-0	Pyrene	410	U
110-86-1	Pyridine	830	U
94-59-7	Safrole	830	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	410	U
510-15-6	Chlorobenzilate	410	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 06/28/00

Work Order: DFM0810W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-02-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	830	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 06/28/00

Work Order: DFM0910W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 23

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	430		U
208-96-8	Acenaphthylene	430		U
98-86-2	Acetophenone	430		U
53-96-3	2-Acetylaminofluorene	4300		U
92-67-1	4-Aminobiphenyl	2100		U
62-53-3	Aniline	430		U
120-12-7	Anthracene	430		U
56-55-3	Benzo (a) anthracene	430		U
205-99-2	Benzo (b) fluoranthene	430		U
207-08-9	Benzo (k) fluoranthene	430		U
191-24-2	Benzo (ghi) perylene	430		U
50-32-8	Benzo (a) pyrene	430		U
100-51-6	Benzyl alcohol	430		U
111-91-1	bis (2-Chloroethoxy) methane	430		U
111-44-4	bis (2-Chloroethyl) ether	430		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	430		U
117-81-7	bis (2-Ethylhexyl) phthalate	430		U
101-55-3	4-Bromophenyl phenyl ether	430		U
85-68-7	Butyl benzyl phthalate	430		U
106-47-8	4-Chloroaniline	430		U
59-50-7	4-Chloro-3-methylphenol	430		U
91-58-7	2-Chloronaphthalene	430		U
95-57-8	2-Chlorophenol	430		U
7005-72-3	4-Chlorophenyl phenyl ether	430		U
218-01-9	Chrysene	430		U
2303-16-4	Diallate	860		U
53-70-3	Dibenz (a, h) anthracene	430		U
132-64-9	Dibenzofuran	430		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 06/28/00

Work Order: DFM0910W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 23

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
120-83-2	2,4-Dichlorophenol	430	U
87-65-0	2,6-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U
60-11-7	p-Dimethylaminoazobenzene	860	U
57-97-6	7,12-Dimethylbenz (a) anthrace	860	U
119-93-7	3,3'-Dimethylbenzidine	2100	U
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
99-65-0	1,3-Dinitrobenzene	430	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
51-28-5	2,4-Dinitrophenol	2100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	860	U
123-91-1	1,4-Dioxane	430	U
122-39-4	Diphenylamine	430	U
62-50-0	Ethyl methanesulfonate	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	2100	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 06/28/00

Work Order: DFM0910W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 23

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-03-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	430		U
1888-71-7	Hexachloropropene	4300		U
193-39-5	Indeno (1,2,3-cd) pyrene	430		U
78-59-1	Isophorone	430		U
120-58-1	Isosafrole	860		U
91-80-5	Methapyrilene	2100		U
95-53-4	o-Toluidine	860		U
56-49-5	3-Methylcholanthrene	860		U
66-27-3	Methyl methanesulfonate	430		U
91-57-6	2-Methylnaphthalene	430		U
95-48-7	2-Methylphenol	430		U
108-39-4	3-Methylphenol	430		U
106-44-5	4-Methylphenol	430		U
91-20-3	Naphthalene	430		U
130-15-4	1,4-Naphthoquinone	2100		U
134-32-7	1-Naphthylamine	430		U
91-59-8	2-Naphthylamine	430		U
88-74-4	2-Nitroaniline	2100		U
99-09-2	3-Nitroaniline	2100		U
100-01-6	4-Nitroaniline	2100		U
98-95-3	Nitrobenzene	430		U
88-75-5	2-Nitrophenol	430		U
100-02-7	4-Nitrophenol	2100		U
56-57-5	4-Nitroquinoline-1-oxide	4300		U
924-16-3	N-Nitrosodi-n-butylamine	430		U
55-18-5	N-Nitrosodiethylamine	430		U
62-75-9	N-Nitrosodimethylamine	430		U
621-64-7	N-Nitrosodi-n-propylamine	430		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 06/28/00

Work Order: DFM0910W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 23

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	430	U
10595-95-6	N-Nitrosomethylethylamine	430	U
59-89-2	N-Nitrosomorpholine	430	U
100-75-4	N-Nitrosopiperidine	430	U
930-55-2	N-Nitrosopyrrolidine	430	U
99-55-8	5-Nitro-o-toluidine	860	U
608-93-5	Pentachlorobenzene	430	U
76-01-7	Pentachloroethane	2100	U
82-68-8	Pentachloronitrobenzene	2100	U
87-86-5	Pentachlorophenol	2100	U
62-44-2	Phenacetin	860	U
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
106-50-3	p-Phenylene diamine	4300	U
109-06-8	2-Picoline	860	U
23950-58-5	Pronamide	860	U
129-00-0	Pyrene	430	U
110-86-1	Pyridine	860	U
94-59-7	Safrole	860	U
95-94-3	1,2,4,5-Tetrachlorobenzene	430	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
99-35-4	1,3,5-Trinitrobenzene	2100	U
86-74-8	Carbazole	430	U
510-15-6	Chlorobenzilate	430	U
122-09-8	a, a-Dimethylphenethylamine	2100	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 06/28/00

Work Order: DFM0910W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 23

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-03-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	860		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SQ

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFM0A10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	420	U
208-96-8	Acenaphthylene	420	U
98-86-2	Acetophenone	420	U
53-96-3	2-Acetylaminofluorene	4200	U
92-67-1	4-Aminobiphenyl	2000	U
62-53-3	Aniline	420	U
120-12-7	Anthracene	420	U
56-55-3	Benzo (a) anthracene	420	U
205-99-2	Benzo (b) fluoranthene	420	U
207-08-9	Benzo (k) fluoranthene	420	U
191-24-2	Benzo (ghi) perylene	420	U
50-32-8	Benzo (a) pyrene	420	U
100-51-6	Benzyl alcohol	420	U
111-91-1	bis (2-Chloroethoxy) methane	420	U
111-44-4	bis (2-Chloroethyl) ether	420	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	420	U
117-81-7	bis (2-Ethylhexyl) phthalate	420	U
101-55-3	4-Bromophenyl phenyl ether	420	U
85-68-7	Butyl benzyl phthalate	420	U
106-47-8	4-Chloroaniline	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-58-7	2-Chloronaphthalene	420	U
95-57-8	2-Chlorophenol	420	U
7005-72-3	4-Chlorophenyl phenyl ether	420	U
218-01-9	Chrysene	420	U
2303-16-4	Diallate	830	U
53-70-3	Dibenz (a, h) anthracene	420	U
132-64-9	Dibenzofuran	420	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFMOA10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	420	U
95-50-1	1,2-Dichlorobenzene	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	420	U
87-65-0	2,6-Dichlorophenol	420	U
84-66-2	Diethyl phthalate	420	U
60-11-7	p-Dimethylaminoazobenzene	830	U
57-97-6	7,12-Dimethylbenz (a) anthrace	830	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	420	U
131-11-3	Dimethyl phthalate	420	U
117-84-0	Di-n-octyl phthalate	420	U
99-65-0	1,3-Dinitrobenzene	420	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	830	U
123-91-1	1,4-Dioxane	420	U
122-39-4	Diphenylamine	420	U
62-50-0	Ethyl methanesulfonate	420	U
206-44-0	Fluoranthene	330	J
86-73-7	Fluorene	420	U
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U
77-47-4	Hexachlorocyclopentadiene	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFM0A10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	420	U
1888-71-7	Hexachloropropene	4200	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
120-58-1	Isosafrole	830	U
91-80-5	Methapyrilene	2000	U
95-53-4	o-Toluidine	830	U
56-49-5	3-Methylcholanthrene	830	U
66-27-3	Methyl methanesulfonate	420	U
91-57-6	2-Methylnaphthalene	420	U
95-48-7	2-Methylphenol	420	U
108-39-4	3-Methylphenol	420	U
106-44-5	4-Methylphenol	420	U
91-20-3	Naphthalene	420	U
130-15-4	1,4-Naphthoquinone	2000	U
134-32-7	1-Naphthylamine	420	U
91-59-8	2-Naphthylamine	420	U
88-74-4	2-Nitroaniline	2000	U
99-09-2	3-Nitroaniline	2000	U
100-01-6	4-Nitroaniline	2000	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	2000	U
56-57-5	4-Nitroquinoline-1-oxide	4200	U
924-16-3	N-Nitrosodi-n-butylamine	420	U
55-18-5	N-Nitrosodiethylamine	420	U
62-75-9	N-Nitrosodimethylamine	420	U
621-64-7	N-Nitrosodi-n-propylamine	420	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFMOA10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	420	U
10595-95-6	N-Nitrosomethylethylamine	420	U
59-89-2	N-Nitrosomorpholine	420	U
100-75-4	N-Nitrosopiperidine	420	U
930-55-2	N-Nitrosopyrrolidine	420	U
99-55-8	5-Nitro-o-toluidine	830	U
608-93-5	Pentachlorobenzene	420	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	830	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
106-50-3	p-Phenylene diamine	4200	U
109-06-8	2-Picoline	830	U
23950-58-5	Pronamide	830	U
129-00-0	Pyrene	220	J
110-86-1	Pyridine	830	U
94-59-7	Safrole	830	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	420	U
510-15-6	Chlorobenzilate	420	U
122-09-8	a, a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFMOA10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	830	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFMOC10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 18

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-05-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
98-86-2	Acetophenone	400		U
53-96-3	2-Acetylaminofluorene	4000		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	400		U
120-12-7	Anthracene	400		U
56-55-3	Benzo (a) anthracene	400		U
205-99-2	Benzo (b) fluoranthene	400		U
207-08-9	Benzo (k) fluoranthene	400		U
191-24-2	Benzo (ghi) perylene	400		U
50-32-8	Benzo (a) pyrene	400		U
100-51-6	Benzyl alcohol	400		U
111-91-1	bis (2-Chloroethoxy) methane	400		U
111-44-4	bis (2-Chloroethyl) ether	400		U
108-60-1	2, 2'-Oxybis (1-Chloropropane)	400		U
117-81-7	bis (2-Ethylhexyl) phthalate	400		U
101-55-3	4-Bromophenyl phenyl ether	400		U
85-68-7	Butyl benzyl phthalate	400		U
106-47-8	4-Chloroaniline	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-58-7	2-Chloronaphthalene	400		U
95-57-8	2-Chlorophenol	400		U
7005-72-3	4-Chlorophenyl phenyl ether	400		U
218-01-9	Chrysene	400		U
2303-16-4	Diallate	800		U
53-70-3	Dibenz (a, h) anthracene	400		U
132-64-9	Dibenzofuran	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFMOC10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 18

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	400		U
95-50-1	1,2-Dichlorobenzene	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	400		U
87-65-0	2,6-Dichlorophenol	400		U
84-66-2	Diethyl phthalate	400		U
60-11-7	p-Dimethylaminoazobenzene	800		U
57-97-6	7,12-Dimethylbenz(a)anthrace	800		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	400		U
131-11-3	Dimethyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
99-65-0	1,3-Dinitrobenzene	400		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
88-85-7	2-sec-Butyl-4,6-dinitropheno	800		U
123-91-1	1,4-Dioxane	400		U
122-39-4	Diphenylamine	400		U
62-50-0	Ethyl methanesulfonate	400		U
206-44-0	Fluoranthene	400		U
86-73-7	Fluorene	400		U
118-74-1	Hexachlorobenzene	400		U
87-68-3	Hexachlorobutadiene	400		U
77-47-4	Hexachlorocyclopentadiene	1900		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFM0C10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 18

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-05-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	400		U
1888-71-7	Hexachloropropene	4000		U
193-39-5	Indeno (1,2,3-cd) pyrene	400		U
78-59-1	Isophorone	400		U
120-58-1	Isosafrole	800		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	800		U
56-49-5	3-Methylcholanthrene	800		U
66-27-3	Methyl methanesulfonate	400		U
91-57-6	2-Methylnaphthalene	400		U
95-48-7	2-Methylphenol	400		U
108-39-4	3-Methylphenol	400		U
106-44-5	4-Methylphenol	400		U
91-20-3	Naphthalene	400		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	400		U
91-59-8	2-Naphthylamine	400		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	400		U
88-75-5	2-Nitrophenol	400		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	4000		U
924-16-3	N-Nitrosodi-n-butylamine	400		U
55-18-5	N-Nitrosodiethylamine	400		U
62-75-9	N-Nitrosodimethylamine	400		U
621-64-7	N-Nitrosodi-n-propylamine	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOF300248 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFMOC10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 18

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-05-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	800		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	800		U
85-01-8	Phenanthrene	400		U
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	800		U
23950-58-5	Pronamide	800		U
129-00-0	Pyrene	400		U
110-86-1	Pyridine	800		U
94-59-7	Safrole	800		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 06/28/00

Work Order: DFMOD10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 17

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	400	U
208-96-8	Acenaphthylene	400	U
98-86-2	Acetophenone	400	U
53-96-3	2-Acetylaminofluorene	4000	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	400	U
120-12-7	Anthracene	400	U
56-55-3	Benzo (a) anthracene	400	U
205-99-2	Benzo (b) fluoranthene	400	U
207-08-9	Benzo (k) fluoranthene	400	U
191-24-2	Benzo (ghi) perylene	400	U
50-32-8	Benzo (a) pyrene	400	U
100-51-6	Benzyl alcohol	400	U
111-91-1	bis (2-Chloroethoxy) methane	400	U
111-44-4	bis (2-Chloroethyl) ether	400	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	400	U
117-81-7	bis (2-Ethylhexyl) phthalate	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
85-68-7	Butyl benzyl phthalate	400	U
106-47-8	4-Chloroaniline	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-58-7	2-Chloronaphthalene	400	U
95-57-8	2-Chlorophenol	400	U
7005-72-3	4-Chlorophenyl phenyl ether	400	U
218-01-9	Chrysene	400	U
2303-16-4	Diallate	800	U
53-70-3	Dibenz (a, h) anthracene	400	U
132-64-9	Dibenzofuran	400	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 06/28/00

Work Order: DFM0D10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 17

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	400		U
95-50-1	1,2-Dichlorobenzene	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	400		U
87-65-0	2,6-Dichlorophenol	400		U
84-66-2	Diethyl phthalate	400		U
60-11-7	p-Dimethylaminoazobenzene	800		U
57-97-6	7,12-Dimethylbenz(a)anthracene	800		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	400		U
131-11-3	Dimethyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
99-65-0	1,3-Dinitrobenzene	400		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	800		U
123-91-1	1,4-Dioxane	400		U
122-39-4	Diphenylamine	400		U
62-50-0	Ethyl methanesulfonate	400		U
206-44-0	Fluoranthene	400		U
86-73-7	Fluorene	400		U
118-74-1	Hexachlorobenzene	2200		
87-68-3	Hexachlorobutadiene	400		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 06/28/00

Work Order: DFMOD10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 17

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	400	U
1888-71-7	Hexachloropropene	4000	U
193-39-5	Indeno (1,2,3-cd) pyrene	400	U
78-59-1	Isophorone	400	U
120-58-1	Isosafrole	800	U
91-80-5	Methapyrilene	1900	U
95-53-4	o-Toluidine	800	U
56-49-5	3-Methylcholanthrene	800	U
66-27-3	Methyl methanesulfonate	400	U
91-57-6	2-Methylnaphthalene	400	U
95-48-7	2-Methylphenol	400	U
108-39-4	3-Methylphenol	400	U
106-44-5	4-Methylphenol	400	U
91-20-3	Naphthalene	400	U
130-15-4	1,4-Naphthoquinone	1900	U
134-32-7	1-Naphthylamine	400	U
91-59-8	2-Naphthylamine	400	U
88-74-4	2-Nitroaniline	1900	U
99-09-2	3-Nitroaniline	1900	U
100-01-6	4-Nitroaniline	1900	U
98-95-3	Nitrobenzene	400	U
88-75-5	2-Nitrophenol	400	U
100-02-7	4-Nitrophenol	1900	U
56-57-5	4-Nitroquinoline-1-oxide	4000	U
924-16-3	N-Nitrosodi-n-butylamine	400	U
55-18-5	N-Nitrosodiethylamine	400	U
62-75-9	N-Nitrosodimethylamine	400	U
621-64-7	N-Nitrosodi-n-propylamine	400	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0F300248 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 06/28/00

Work Order: DFMOD10W

Date Extracted:07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %:17

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-06-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	800		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phacetin	800		U
85-01-8	Phenanthrene	400		U
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	800		U
23950-58-5	Pronamide	800		U
129-00-0	Pyrene	400		U
110-86-1	Pyridine	800		U
94-59-7	Safrole	800		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 06/28/00

Work Order: DFMOD10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 17

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-06-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFM0E10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 21

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	420		U
208-96-8	Acenaphthylene	420		U
98-86-2	Acetophenone	420		U
53-96-3	2-Acetylaminofluorene	4200		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	420		U
120-12-7	Anthracene	420		U
56-55-3	Benzo (a) anthracene	420		U
205-99-2	Benzo (b) fluoranthene	420		U
207-08-9	Benzo (k) fluoranthene	420		U
191-24-2	Benzo (ghi) perylene	420		U
50-32-8	Benzo (a) pyrene	420		U
100-51-6	Benzyl alcohol	420		U
111-91-1	bis (2-Chloroethoxy) methane	420		U
111-44-4	bis (2-Chloroethyl) ether	420		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	420		U
117-81-7	bis (2-Ethylhexyl) phthalate	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
85-68-7	Butyl benzyl phthalate	420		U
106-47-8	4-Chloroaniline	420		U
59-50-7	4-Chloro-3-methylphenol	420		U
91-58-7	2-Chloronaphthalene	420		U
95-57-8	2-Chlorophenol	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
218-01-9	Chrysene	420		U
2303-16-4	Diallate	830		U
53-70-3	Dibenz (a, h) anthracene	420		U
132-64-9	Dibenzofuran	420		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFM0E10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 21

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	420		U
95-50-1	1,2-Dichlorobenzene	420		U
541-73-1	1,3-Dichlorobenzene	420		U
106-46-7	1,4-Dichlorobenzene	420		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	420		U
87-65-0	2,6-Dichlorophenol	420		U
84-66-2	Diethyl phthalate	420		U
60-11-7	p-Dimethylaminoazobenzene	830		U
57-97-6	7,12-Dimethylbenz(a)anthracene	830		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	420		U
131-11-3	Dimethyl phthalate	420		U
117-84-0	Di-n-octyl phthalate	420		U
99-65-0	1,3-Dinitrobenzene	420		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	420		U
606-20-2	2,6-Dinitrotoluene	420		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	830		U
123-91-1	1,4-Dioxane	420		U
122-39-4	Diphenylamine	420		U
62-50-0	Ethyl methanesulfonate	420		U
206-44-0	Fluoranthene	420		U
86-73-7	Fluorene	420		U
118-74-1	Hexachlorobenzene	420		U
87-68-3	Hexachlorobutadiene	420		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFM0E10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 21

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-07-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	420		U
1888-71-7	Hexachloropropene	4200		U
193-39-5	Indeno(1,2,3-cd)pyrene	420		U
78-59-1	Isophorone	420		U
120-58-1	Isosafrole	830		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	830		U
56-49-5	3-Methylcholanthrene	830		U
66-27-3	Methyl methanesulfonate	420		U
91-57-6	2-Methylnaphthalene	420		U
95-48-7	2-Methylphenol	420		U
108-39-4	3-Methylphenol	420		U
106-44-5	4-Methylphenol	420		U
91-20-3	Naphthalene	420		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	420		U
91-59-8	2-Naphthylamine	420		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	420		U
88-75-5	2-Nitrophenol	420		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4200		U
924-16-3	N-Nitrosodi-n-butylamine	420		U
55-18-5	N-Nitrosodiethylamine	420		U
62-75-9	N-Nitrosodimethylamine	420		U
621-64-7	N-Nitrosodi-n-propylamine	420		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFM0E10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 21

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	420	U
10595-95-6	N-Nitrosomethylethylamine	420	U
59-89-2	N-Nitrosomorpholine	420	U
100-75-4	N-Nitrosopiperidine	420	U
930-55-2	N-Nitrosopyrrolidine	420	U
99-55-8	5-Nitro-o-toluidine	830	U
608-93-5	Pentachlorobenzene	420	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	830	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
106-50-3	p-Phenylene diamine	4200	U
109-06-8	2-Picoline	830	U
23950-58-5	Pronamide	830	U
129-00-0	Pyrene	420	U
110-86-1	Pyridine	830	U
94-59-7	Safrole	830	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	420	U
510-15-6	Chlorobenzilate	420	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOF300248 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/28/00

Work Order: DFM0E10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 21

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-07-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	830	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOFLOW

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 12

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-08-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo(a)anthracene	370		U
205-99-2	Benzo(b)fluoranthene	370		U
207-08-9	Benzo(k)fluoranthene	370		U
191-24-2	Benzo(ghi)perylene	370		U
50-32-8	Benzo(a)pyrene	370		U
100-51-6	Benzyl alcohol	370		U
111-91-1	bis(2-Chloroethoxy)methane	370		U
111-44-4	bis(2-Chloroethyl) ether	370		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370		U
117-81-7	bis(2-Ethylhexyl) phthalate	370		U
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	370		U
2303-16-4	Diallate	750		U
53-70-3	Dibenz(a,h)anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOF10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 12

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-08-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	370	U
87-65-0	2,6-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U
60-11-7	p-Dimethylaminoazobenzene	750	U
57-97-6	7,12-Dimethylbenz(a)anthracene	750	U
119-93-7	3,3'-Dimethylbenzidine	1800	U
105-67-9	2,4-Dimethylphenol	370	U
131-11-3	Dimethyl phthalate	370	U
117-84-0	Di-n-octyl phthalate	370	U
99-65-0	1,3-Dinitrobenzene	370	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	750	U
123-91-1	1,4-Dioxane	370	U
122-39-4	Diphenylamine	370	U
62-50-0	Ethyl methanesulfonate	370	U
206-44-0	Fluoranthene	370	U
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOF10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 12

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-08-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	370	U
1888-71-7	Hexachloropropene	3700	U
193-39-5	Indeno (1,2,3-cd) pyrene	370	U
78-59-1	Isophorone	370	U
120-58-1	Isosafrole	750	U
91-80-5	Methapyrilene	1800	U
95-53-4	o-Toluidine	750	U
56-49-5	3-Methylcholanthrene	750	U
66-27-3	Methyl methanesulfonate	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
108-39-4	3-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
130-15-4	1,4-Naphthoquinone	1800	U
134-32-7	1-Naphthylamine	370	U
91-59-8	2-Naphthylamine	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
56-57-5	4-Nitroquinoline-1-oxide	3700	U
924-16-3	N-Nitrosodi-n-butylamine	370	U
55-18-5	N-Nitrosodiethylamine	370	U
62-75-9	N-Nitrosodimethylamine	370	U
621-64-7	N-Nitrosodi-n-propylamine	370	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0FLOW

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 12

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-08-04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	370		U
10595-95-6	N-Nitrosomethylethylamine	370		U
59-89-2	N-Nitrosomorpholine	370		U
100-75-4	N-Nitrosopiperidine	370		U
930-55-2	N-Nitrosopyrrolidine	370		U
99-55-8	5-Nitro-o-toluidine	750		U
608-93-5	Pentachlorobenzene	370		U
76-01-7	Pentachloroethane	1800		U
82-68-8	Pentachloronitrobenzene	1800		U
87-86-5	Pentachlorophenol	1800		U
62-44-2	Phenacetin	750		U
85-01-8	Phenanthrene	370		U
108-95-2	Phenol	370		U
106-50-3	p-Phenylene diamine	3700		U
109-06-8	2-Picoline	750		U
23950-58-5	Pronamide	750		U
129-00-0	Pyrene	370		U
110-86-1	Pyridine	750		U
94-59-7	Safrole	750		U
95-94-3	1,2,4,5-Tetrachlorobenzene	370		U
58-90-2	2,3,4,6-Tetrachlorophenol	1800		U
120-82-1	1,2,4-Trichlorobenzene	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
99-35-4	1,3,5-Trinitrobenzene	1800		U
86-74-8	Carbazole	370		U
510-15-6	Chlorobenzilate	370		U
122-09-8	a,a-Dimethylphenethylamine	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOFLOW

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 12

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-08-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	750	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0G10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 13

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	380		U
205-99-2	Benzo(b)fluoranthene	380		U
207-08-9	Benzo(k)fluoranthene	380		U
191-24-2	Benzo(ghi)perylene	380		U
50-32-8	Benzo(a)pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	760		U
53-70-3	Dibenz(a,h)anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0G10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 13

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	380	U
87-65-0	2,6-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U
60-11-7	p-Dimethylaminoazobenzene	760	U
57-97-6	7,12-Dimethylbenz(a)anthracene	760	U
119-93-7	3,3'-Dimethylbenzidine	1800	U
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
99-65-0	1,3-Dinitrobenzene	380	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	760	U
123-91-1	1,4-Dioxane	380	U
122-39-4	Diphenylamine	380	U
62-50-0	Ethyl methanesulfonate	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U
77-47-4	Hexachlorocyclopentadiene	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0G10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 13

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	380		U
1888-71-7	Hexachloropropene	3800		U
193-39-5	Indeno(1,2,3-cd)pyrene	380		U
78-59-1	Isophorone	380		U
120-58-1	Isosafrole	760		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	760		U
56-49-5	3-Methylcholanthrene	760		U
66-27-3	Methyl methanesulfonate	380		U
91-57-6	2-Methylnaphthalene	380		U
95-48-7	2-Methylphenol	380		U
108-39-4	3-Methylphenol	380		U
106-44-5	4-Methylphenol	380		U
91-20-3	Naphthalene	380		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	380		U
91-59-8	2-Naphthylamine	380		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	380		U
88-75-5	2-Nitrophenol	380		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3800		U
924-16-3	N-Nitrosodi-n-butylamine	380		U
55-18-5	N-Nitrosodiethylamine	380		U
62-75-9	N-Nitrosodimethylamine	380		U
621-64-7	N-Nitrosodi-n-propylamine	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 002

Method: SWB46 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0G10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 13

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-09-11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	380		U
10595-95-6	N-Nitrosomethylethylamine	380		U
59-89-2	N-Nitrosomorpholine	380		U
100-75-4	N-Nitrosopiperidine	380		U
930-55-2	N-Nitrosopyrrolidine	380		U
99-55-8	5-Nitro-o-toluidine	760		U
608-93-5	Pentachlorobenzene	380		U
76-01-7	Pentachloroethane	1800		U
82-68-8	Pentachloronitrobenzene	1800		U
87-86-5	Pentachlorophenol	1800		U
62-44-2	Phenacetin	760		U
85-01-8	Phenanthrene	380		U
108-95-2	Phenol	380		U
106-50-3	p-Phenylene diamine	3800		U
109-06-8	2-Picoline	760		U
23950-58-5	Pronamide	760		U
129-00-0	Pyrene	380		U
110-86-1	Pyridine	760		U
94-59-7	Safrole	760		U
95-94-3	1,2,4,5-Tetrachlorobenzene	380		U
58-90-2	2,3,4,6-Tetrachlorophenol	1800		U
120-82-1	1,2,4-Trichlorobenzene	380		U
95-95-4	2,4,5-Trichlorophenol	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
99-35-4	1,3,5-Trinitrobenzene	1800		U
86-74-8	Carbazole	380		U
510-15-6	Chlorobenzilate	380		U
122-09-8	a,a-Dimethylphenethylamine	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0G10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 13

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-09-11

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	760		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOH10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 19

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-10-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	410		U
208-96-8	Acenaphthylene	410		U
98-86-2	Acetophenone	410		U
53-96-3	2-Acetylaminofluorene	4100		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	410		U
120-12-7	Anthracene	410		U
56-55-3	Benzo (a) anthracene	410		U
205-99-2	Benzo (b) fluoranthene	410		U
207-08-9	Benzo (k) fluoranthene	410		U
191-24-2	Benzo (ghi) perylene	410		U
50-32-8	Benzo (a) pyrene	410		U
100-51-6	Benzyl alcohol	410		U
111-91-1	bis (2-Chloroethoxy) methane	410		U
111-44-4	bis (2-Chloroethyl) ether	410		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	410		U
117-81-7	bis (2-Ethylhexyl) phthalate	410		U
101-55-3	4-Bromophenyl phenyl ether	410		U
85-68-7	Butyl benzyl phthalate	410		U
106-47-8	4-Chloroaniline	410		U
59-50-7	4-Chloro-3-methylphenol	410		U
91-58-7	2-Chloronaphthalene	410		U
95-57-8	2-Chlorophenol	410		U
7005-72-3	4-Chlorophenyl phenyl ether	410		U
218-01-9	Chrysene	410		U
2303-16-4	Diallate	820		U
53-70-3	Dibenz (a, h) anthracene	410		U
132-64-9	Dibenzofuran	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOH10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 19

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	410	U
95-50-1	1,2-Dichlorobenzene	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	410	U
87-65-0	2,6-Dichlorophenol	410	U
84-66-2	Diethyl phthalate	410	U
60-11-7	p-Dimethylaminoazobenzene	820	U
57-97-6	7,12-Dimethylbenz(a)anthrace	820	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	410	U
131-11-3	Dimethyl phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
99-65-0	1,3-Dinitrobenzene	410	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	820	U
123-91-1	1,4-Dioxane	410	U
122-39-4	Diphenylamine	410	U
62-50-0	Ethyl methanesulfonate	410	U
206-44-0	Fluoranthene	410	U
86-73-7	Fluorene	410	U
118-74-1	Hexachlorobenzene	410	U
87-68-3	Hexachlorobutadiene	410	U
77-47-4	Hexachlorocyclopentadiene	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOH10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 19

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	410		U
1888-71-7	Hexachloropropene	4100		U
193-39-5	Indeno (1,2,3-cd)pyrene	410		U
78-59-1	Isophorone	410		U
120-58-1	Isosafrole	820		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	820		U
56-49-5	3-Methylcholanthrene	820		U
66-27-3	Methyl methanesulfonate	410		U
91-57-6	2-Methylnaphthalene	410		U
95-48-7	2-Methylphenol	410		U
108-39-4	3-Methylphenol	410		U
106-44-5	4-Methylphenol	410		U
91-20-3	Naphthalene	410		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	410		U
91-59-8	2-Naphthylamine	410		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	410		U
88-75-5	2-Nitrophenol	410		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4100		U
924-16-3	N-Nitrosodi-n-butylamine	410		U
55-18-5	N-Nitrosodiethylamine	410		U
62-75-9	N-Nitrosodimethylamine	410		U
621-64-7	N-Nitrosodi-n-propylamine	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOH10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 19

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	410	U
10595-95-6	N-Nitrosomethylethylamine	410	U
59-89-2	N-Nitrosomorpholine	410	U
100-75-4	N-Nitrosopiperidine	410	U
930-55-2	N-Nitrosopyrrolidine	410	U
99-55-8	5-Nitro-o-toluidine	820	U
608-93-5	Pentachlorobenzene	410	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	820	U
85-01-8	Phenanthrene	410	U
108-95-2	Phenol	410	U
106-50-3	p-Phenylene diamine	4100	U
109-06-8	2-Picoline	820	U
23950-58-5	Pronamide	820	U
129-00-0	Pyrene	410	U
110-86-1	Pyridine	820	U
94-59-7	Safrole	820	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	410	U
510-15-6	Chlorobenzilate	410	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0H10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 19

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-10-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	820		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0J10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 15

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-11-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
98-86-2	Acetophenone	390		U
53-96-3	2-Acetylaminofluorene	3900		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo(a)anthracene	390		U
205-99-2	Benzo(b)fluoranthene	390		U
207-08-9	Benzo(k)fluoranthene	390		U
191-24-2	Benzo(ghi)perylene	390		U
50-32-8	Benzo(a)pyrene	390		U
100-51-6	Benzyl alcohol	390		U
111-91-1	bis(2-Chloroethoxy)methane	390		U
111-44-4	bis(2-Chloroethyl) ether	390		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390		U
117-81-7	bis(2-Ethylhexyl) phthalate	390		U
101-55-3	4-Bromophenyl phenyl ether	390		U
85-68-7	Butyl benzyl phthalate	390		U
106-47-8	4-Chloroaniline	390		U
59-50-7	4-Chloro-3-methylphenol	390		U
91-58-7	2-Chloronaphthalene	390		U
95-57-8	2-Chlorophenol	390		U
7005-72-3	4-Chlorophenyl phenyl ether	390		U
218-01-9	Chrysene	390		U
2303-16-4	Diallate	780		U
53-70-3	Dibenz(a,h)anthracene	390		U
132-64-9	Dibenzofuran	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0J10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 15

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-11-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz (a) anthrace	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	780	U
123-91-1	1,4-Dioxane	390	U
122-39-4	Diphenylamine	390	U
62-50-0	Ethyl methanesulfonate	390	U
206-44-0	Fluoranthene	390	U
86-73-7	Fluorene	390	U
118-74-1	Hexachlorobenzene	390	U
87-68-3	Hexachlorobutadiene	390	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0J10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 15

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-11-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	390		U
1888-71-7	Hexachloropropene	3900		U
193-39-5	Indeno(1,2,3-cd)pyrene	390		U
78-59-1	Isophorone	390		U
120-58-1	Isosafrole	780		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	780		U
56-49-5	3-Methylcholanthrene	780		U
66-27-3	Methyl methanesulfonate	390		U
91-57-6	2-Methylnaphthalene	390		U
95-48-7	2-Methylphenol	390		U
108-39-4	3-Methylphenol	390		U
106-44-5	4-Methylphenol	390		U
91-20-3	Naphthalene	390		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	390		U
91-59-8	2-Naphthylamine	390		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	390		U
88-75-5	2-Nitrophenol	390		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3900		U
924-16-3	N-Nitrosodi-n-butylamine	390		U
55-18-5	N-Nitrosodiethylamine	390		U
62-75-9	N-Nitrosodimethylamine	390		U
621-64-7	N-Nitrosodi-n-propylamine	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOJ10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 15

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-11-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	390		U
10595-95-6	N-Nitrosomethylethylamine	390		U
59-89-2	N-Nitrosomorpholine	390		U
100-75-4	N-Nitrosopiperidine	390		U
930-55-2	N-Nitrosopyrrolidine	390		U
99-55-8	5-Nitro-o-toluidine	780		U
608-93-5	Pentachlorobenzene	390		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	780		U
85-01-8	Phenanthrene	390		U
108-95-2	Phenol	390		U
106-50-3	p-Phenylene diamine	3900		U
109-06-8	2-Picoline	780		U
23950-58-5	Pronamide	780		U
129-00-0	Pyrene	390		U
110-86-1	Pyridine	780		U
94-59-7	Safrole	780		U
95-94-3	1,2,4,5-Tetrachlorobenzene	390		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	390		U
95-95-4	2,4,5-Trichlorophenol	390		U
88-06-2	2,4,6-Trichlorophenol	390		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	390		U
510-15-6	Chlorobenzilate	390		U
122-09-8	a, a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOJ10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 15

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-11-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	780	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOK10V

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 14

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-12-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benzo (a) anthracene	66	J
205-99-2	Benzo (b) fluoranthene	73	J
207-08-9	Benzo (k) fluoranthene	390	U
191-24-2	Benzo (ghi) perylene	390	U
50-32-8	Benzo (a) pyrene	52	J
100-51-6	Benzyl alcohol	390	U
111-91-1	bis (2-Chloroethoxy) methane	390	U
111-44-4	bis (2-Chloroethyl) ether	390	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	390	U
117-81-7	bis (2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	75	J
2303-16-4	Diallate	770	U
53-70-3	Dibenz (a, h) anthracene	390	U
132-64-9	Dibenzofuran	390	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOK10V

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 14

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-12-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	390		U
95-50-1	1,2-Dichlorobenzene	390		U
541-73-1	1,3-Dichlorobenzene	390		U
106-46-7	1,4-Dichlorobenzene	390		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	390		U
87-65-0	2,6-Dichlorophenol	390		U
84-66-2	Diethyl phthalate	390		U
60-11-7	p-Dimethylaminoazobenzene	770		U
57-97-6	7,12-Dimethylbenz(a)anthracene	770		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	390		U
131-11-3	Dimethyl phthalate	390		U
117-84-0	Di-n-octyl phthalate	390		U
99-65-0	1,3-Dinitrobenzene	390		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	390		U
606-20-2	2,6-Dinitrotoluene	390		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770		U
123-91-1	1,4-Dioxane	390		U
122-39-4	Diphenylamine	390		U
62-50-0	Ethyl methanesulfonate	390		U
206-44-0	Fluoranthene	110		J
86-73-7	Fluorene	390		U
118-74-1	Hexachlorobenzene	390		U
87-68-3	Hexachlorobutadiene	390		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOK10V

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 14

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-12-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	390	U
1888-71-7	Hexachloropropene	3900	U
193-39-5	Indeno (1,2,3-cd)pyrene	390	U
78-59-1	Isophorone	390	U
120-58-1	Isosafrole	770	U
91-80-5	Methapyrilene	1900	U
95-53-4	o-Toluidine	770	U
56-49-5	3-Methylcholanthrene	770	U
66-27-3	Methyl methanesulfonate	390	U
91-57-6	2-Methylnaphthalene	390	U
95-48-7	2-Methylphenol	390	U
108-39-4	3-Methylphenol	390	U
106-44-5	4-Methylphenol	390	U
91-20-3	Naphthalene	390	U
130-15-4	1,4-Naphthoquinone	1900	U
134-32-7	1-Naphthylamine	390	U
91-59-8	2-Naphthylamine	390	U
88-74-4	2-Nitroaniline	1900	U
99-09-2	3-Nitroaniline	1900	U
100-01-6	4-Nitroaniline	1900	U
98-95-3	Nitrobenzene	390	U
88-75-5	2-Nitrophenol	390	U
100-02-7	4-Nitrophenol	1900	U
56-57-5	4-Nitroquinoline-1-oxide	3900	U
924-16-3	N-Nitrosodi-n-butylamine	390	U
55-18-5	N-Nitrosodiethylamine	390	U
62-75-9	N-Nitrosodimethylamine	390	U
621-64-7	N-Nitrosodi-n-propylamine	390	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFM0K10V

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 14

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-12-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	390	U
10595-95-6	N-Nitrosomethylethylamine	390	U
59-89-2	N-Nitrosomorpholine	390	U
100-75-4	N-Nitrosopiperidine	390	U
930-55-2	N-Nitrosopyrrolidine	390	U
99-55-8	5-Nitro-o-toluidine	770	U
608-93-5	Pentachlorobenzene	390	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	770	U
85-01-8	Phenanthrene	69	J
108-95-2	Phenol	390	U
106-50-3	p-Phenylene diamine	3900	U
109-06-8	2-Picoline	770	U
23950-58-5	Pronamide	770	U
129-00-0	Pyrene	110	J
110-86-1	Pyridine	770	U
94-59-7	Safrole	770	U
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	390	U
510-15-6	Chlorobenzilate	390	U
122-09-8	a,a-Dimethylphenethylamine	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/29/00

Work Order: DFMOK10V

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/09/00

Moisture %: 14

QC Batch: 0187352

Client Sample Id: MPT-G4-SU-12-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		770	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014

Matrix: (soil/water) SO Lab Sample ID: A0G010105 001

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g Date Received: 06/30/00

Work Order: DFMON10W Date Extracted: 07/06/00

Dilution factor: 1 Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
98-86-2	Acetophenone	400		U
53-96-3	2-Acetylaminofluorene	4000		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	400		U
120-12-7	Anthracene	400		U
56-55-3	Benzo (a) anthracene	55		J
205-99-2	Benzo (b) fluoranthene	75		J
207-08-9	Benzo (k) fluoranthene	400		U
191-24-2	Benzo (ghi) perylene	400		U
50-32-8	Benzo (a) pyrene	51		J
100-51-6	Benzyl alcohol	400		U
111-91-1	bis (2-Chloroethoxy) methane	400		U
111-44-4	bis (2-Chloroethyl) ether	400		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	400		U
117-81-7	bis (2-Ethylhexyl) phthalate	400		U
101-55-3	4-Bromophenyl phenyl ether	400		U
85-68-7	Butyl benzyl phthalate	400		U
106-47-8	4-Chloroaniline	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-58-7	2-Chloronaphthalene	400		U
95-57-8	2-Chlorophenol	400		U
7005-72-3	4-Chlorophenyl phenyl ether	400		U
218-01-9	Chrysene	67		J
2303-16-4	Diallate	810		U
53-70-3	Dibenz (a, h) anthracene	400		U
132-64-9	Dibenzofuran	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 06/30/00

Work Order: DFMON10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	400	U
95-50-1	1,2-Dichlorobenzene	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	400	U
87-65-0	2,6-Dichlorophenol	400	U
84-66-2	Diethyl phthalate	400	U
60-11-7	p-Dimethylaminoazobenzene	810	U
57-97-6	7,12-Dimethylbenz(a)anthrace	810	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	400	U
131-11-3	Dimethyl phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
99-65-0	1,3-Dinitrobenzene	400	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	810	U
123-91-1	1,4-Dioxane	400	U
122-39-4	Diphenylamine	400	U
62-50-0	Ethyl methanesulfonate	400	U
206-44-0	Fluoranthene	76	J
86-73-7	Fluorene	400	U
118-74-1	Hexachlorobenzene	400	U
87-68-3	Hexachlorobutadiene	400	U
77-47-4	Hexachlorocyclopentadiene	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 06/30/00

Work Order: DFMON10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	400		U
1888-71-7	Hexachloropropene	4000		U
193-39-5	Indeno (1,2,3-cd) pyrene	400		U
78-59-1	Isophorone	400		U
120-58-1	Isosafrole	810		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	810		U
56-49-5	3-Methylcholanthrene	810		U
66-27-3	Methyl methanesulfonate	400		U
91-57-6	2-Methylnaphthalene	400		U
95-48-7	2-Methylphenol	400		U
108-39-4	3-Methylphenol	400		U
106-44-5	4-Methylphenol	400		U
91-20-3	Naphthalene	400		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	400		U
91-59-8	2-Naphthylamine	400		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	400		U
88-75-5	2-Nitrophenol	400		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4000		U
924-16-3	N-Nitrosodi-n-butylamine	400		U
55-18-5	N-Nitrosodiethylamine	400		U
62-75-9	N-Nitrosodimethylamine	400		U
621-64-7	N-Nitrosodi-n-propylamine	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 06/30/00

Work Order: DFMON10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-13-06

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	810		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	810		U
85-01-8	Phenanthrene	400		U
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	810		U
23950-58-5	Pronamide	810		U
129-00-0	Pyrene	92		J
110-86-1	Pyridine	810		U
94-59-7	Safrole	810		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 06/30/00

Work Order: DFMON10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-13-06

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	810		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/30/00

Work Order: DFM0P10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 22

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-14-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	430		U
208-96-8	Acenaphthylene	430		U
98-86-2	Acetophenone	430		U
53-96-3	2-Acetylaminofluorene	4300		U
92-67-1	4-Aminobiphenyl	2100		U
62-53-3	Aniline	430		U
120-12-7	Anthracene	430		U
56-55-3	Benzo (a) anthracene	430		U
205-99-2	Benzo (b) fluoranthene	430		U
207-08-9	Benzo (k) fluoranthene	430		U
191-24-2	Benzo (ghi) perylene	430		U
50-32-8	Benzo (a) pyrene	430		U
100-51-6	Benzyl alcohol	430		U
111-91-1	bis (2-Chloroethoxy) methane	430		U
111-44-4	bis (2-Chloroethyl) ether	430		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	430		U
117-81-7	bis (2-Ethylhexyl) phthalate	430		U
101-55-3	4-Bromophenyl phenyl ether	430		U
85-68-7	Butyl benzyl phthalate	430		U
106-47-8	4-Chloroaniline	430		U
59-50-7	4-Chloro-3-methylphenol	430		U
91-58-7	2-Chloronaphthalene	430		U
95-57-8	2-Chlorophenol	430		U
7005-72-3	4-Chlorophenyl phenyl ether	430		U
218-01-9	Chrysene	430		U
2303-16-4	Diallate	850		U
53-70-3	Dibenz (a, h) anthracene	430		U
132-64-9	Dibenzofuran	430		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/30/00

Work Order: DFM0P10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 22

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-14-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	430		U
95-50-1	1,2-Dichlorobenzene	430		U
541-73-1	1,3-Dichlorobenzene	430		U
106-46-7	1,4-Dichlorobenzene	430		U
91-94-1	3,3'-Dichlorobenzidine	2100		U
120-83-2	2,4-Dichlorophenol	430		U
87-65-0	2,6-Dichlorophenol	430		U
84-66-2	Diethyl phthalate	430		U
60-11-7	p-Dimethylaminoazobenzene	850		U
57-97-6	7,12-Dimethylbenz (a) anthrace	850		U
119-93-7	3,3'-Dimethylbenzidine	2100		U
105-67-9	2,4-Dimethylphenol	430		U
131-11-3	Dimethyl phthalate	430		U
117-84-0	Di-n-octyl phthalate	430		U
99-65-0	1,3-Dinitrobenzene	430		U
534-52-1	4,6-Dinitro-2-methylphenol	2100		U
51-28-5	2,4-Dinitrophenol	2100		U
121-14-2	2,4-Dinitrotoluene	430		U
606-20-2	2,6-Dinitrotoluene	430		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	850		U
123-91-1	1,4-Dioxane	430		U
122-39-4	Diphenylamine	430		U
62-50-0	Ethyl methanesulfonate	430		U
206-44-0	Fluoranthene	430		U
86-73-7	Fluorene	430		U
118-74-1	Hexachlorobenzene	430		U
87-68-3	Hexachlorobutadiene	430		U
77-47-4	Hexachlorocyclopentadiene	2100		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/30/00

Work Order: DFMOP10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 22

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-14-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	430		U
1888-71-7	Hexachloropropene	4300		U
193-39-5	Indeno (1,2,3-cd) pyrene	430		U
78-59-1	Isophorone	430		U
120-58-1	Isosafrole	850		U
91-80-5	Methapyrilene	2100		U
95-53-4	o-Toluidine	850		U
56-49-5	3-Methylcholanthrene	850		U
66-27-3	Methyl methanesulfonate	430		U
91-57-6	2-Methylnaphthalene	430		U
95-48-7	2-Methylphenol	430		U
108-39-4	3-Methylphenol	430		U
106-44-5	4-Methylphenol	430		U
91-20-3	Naphthalene	430		U
130-15-4	1,4-Naphthoquinone	2100		U
134-32-7	1-Naphthylamine	430		U
91-59-8	2-Naphthylamine	430		U
88-74-4	2-Nitroaniline	2100		U
99-09-2	3-Nitroaniline	2100		U
100-01-6	4-Nitroaniline	2100		U
98-95-3	Nitrobenzene	430		U
88-75-5	2-Nitrophenol	430		U
100-02-7	4-Nitrophenol	2100		U
56-57-5	4-Nitroquinoline-1-oxide	4300		U
924-16-3	N-Nitrosodi-n-butylamine	430		U
55-18-5	N-Nitrosodiethylamine	430		U
62-75-9	N-Nitrosodimethylamine	430		U
621-64-7	N-Nitrosodi-n-propylamine	430		U

FORM I

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP014

Matrix: (soil/water) SO

Lab Sample ID:A0G010105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/30/00

Work Order: DFM0P10W

Date Extracted:07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %:22

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-14-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	430		U
10595-95-6	N-Nitrosomethylethylamine	430		U
59-89-2	N-Nitrosomorpholine	430		U
100-75-4	N-Nitrosopiperidine	430		U
930-55-2	N-Nitrosopyrrolidine	430		U
99-55-8	5-Nitro-o-toluidine	850		U
608-93-5	Pentachlorobenzene	430		U
76-01-7	Pentachloroethane	2100		U
82-68-8	Pentachloronitrobenzene	2100		U
87-86-5	Pentachlorophenol	2100		U
62-44-2	Phenacetin	850		U
85-01-8	Phenanthrene	430		U
108-95-2	Phenol	430		U
106-50-3	p-Phenylene diamine	4300		U
109-06-8	2-Picoline	850		U
23950-58-5	Pronamide	850		U
129-00-0	Pyrene	430		U
110-86-1	Pyridine	850		U
94-59-7	Safrole	850		U
95-94-3	1,2,4,5-Tetrachlorobenzene	430		U
58-90-2	2,3,4,6-Tetrachlorophenol	2100		U
120-82-1	1,2,4-Trichlorobenzene	430		U
95-95-4	2,4,5-Trichlorophenol	430		U
88-06-2	2,4,6-Trichlorophenol	430		U
99-35-4	1,3,5-Trinitrobenzene	2100		U
86-74-8	Carbazole	430		U
510-15-6	Chlorobenzilate	430		U
122-09-8	a, a-Dimethylphenethylamine	2100		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 06/30/00

Work Order: DFMOP10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 22

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-14-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite		850	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFM0Q10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 8.2

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo(a)anthracene	360		U
205-99-2	Benzo(b)fluoranthene	360		U
207-08-9	Benzo(k)fluoranthene	360		U
191-24-2	Benzo(ghi)perylene	360		U
50-32-8	Benzo(a)pyrene	360		U
100-51-6	Benzyl alcohol	360		U
111-91-1	bis(2-Chloroethoxy)methane	360		U
111-44-4	bis(2-Chloroethyl) ether	360		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	360		U
117-81-7	bis(2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	360		U
2303-16-4	Diallate	720		U
53-70-3	Dibenz(a,h)anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFMOQ10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 8.2

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	360		U
95-50-1	1,2-Dichlorobenzene	360		U
541-73-1	1,3-Dichlorobenzene	360		U
106-46-7	1,4-Dichlorobenzene	360		U
91-94-1	3,3'-Dichlorobenzidine	1700		U
120-83-2	2,4-Dichlorophenol	360		U
87-65-0	2,6-Dichlorophenol	360		U
84-66-2	Diethyl phthalate	360		U
60-11-7	p-Dimethylaminoazobenzene	720		U
57-97-6	7,12-Dimethylbenz(a)anthrace	720		U
119-93-7	3,3'-Dimethylbenzidine	1700		U
105-67-9	2,4-Dimethylphenol	360		U
131-11-3	Dimethyl phthalate	360		U
117-84-0	Di-n-octyl phthalate	360		U
99-65-0	1,3-Dinitrobenzene	360		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
51-28-5	2,4-Dinitrophenol	1700		U
121-14-2	2,4-Dinitrotoluene	360		U
606-20-2	2,6-Dinitrotoluene	360		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	720		U
123-91-1	1,4-Dioxane	360		U
122-39-4	Diphenylamine	360		U
62-50-0	Ethyl methanesulfonate	360		U
206-44-0	Fluoranthene	360		U
86-73-7	Fluorene	360		U
118-74-1	Hexachlorobenzene	360		U
87-68-3	Hexachlorobutadiene	360		U
77-47-4	Hexachlorocyclopentadiene	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFMOQ10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 8.2

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	360		U
1888-71-7	Hexachloropropene	3600		U
193-39-5	Indeno (1,2,3-cd)pyrene	360		U
78-59-1	Isophorone	360		U
120-58-1	Isosafrole	720		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	720		U
56-49-5	3-Methylcholanthrene	720		U
66-27-3	Methyl methanesulfonate	360		U
91-57-6	2-Methylnaphthalene	360		U
95-48-7	2-Methylphenol	360		U
108-39-4	3-Methylphenol	360		U
106-44-5	4-Methylphenol	360		U
91-20-3	Naphthalene	360		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	360		U
91-59-8	2-Naphthylamine	360		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	360		U
88-75-5	2-Nitrophenol	360		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3600		U
924-16-3	N-Nitrosodi-n-butylamine	360		U
55-18-5	N-Nitrosodiethylamine	360		U
62-75-9	N-Nitrosodimethylamine	360		U
621-64-7	N-Nitrosodi-n-propylamine	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFMOQ10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 8.2

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-15-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	360		U
10595-95-6	N-Nitrosomethylethylamine	360		U
59-89-2	N-Nitrosomorpholine	360		U
100-75-4	N-Nitrosopiperidine	360		U
930-55-2	N-Nitrosopyrrolidine	360		U
99-55-8	5-Nitro-o-toluidine	720		U
608-93-5	Pentachlorobenzene	360		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	720		U
85-01-8	Phenanthrene	360		U
108-95-2	Phenol	360		U
106-50-3	p-Phenylene diamine	3600		U
109-06-8	2-Picoline	720		U
23950-58-5	Pronamide	720		U
129-00-0	Pyrene	360		U
110-86-1	Pyridine	720		U
94-59-7	Safrole	720		U
95-94-3	1,2,4,5-Tetrachlorobenzene	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	360		U
95-95-4	2,4,5-Trichlorophenol	360		U
88-06-2	2,4,6-Trichlorophenol	360		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	360		U
510-15-6	Chlorobenzilate	360		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFMOQ10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 8.2

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-15-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	720	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 06/30/00

Work Order: DFMOR10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 13

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-16-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo (a) anthracene	380		U
205-99-2	Benzo (b) fluoranthene	380		U
207-08-9	Benzo (k) fluoranthene	380		U
191-24-2	Benzo (ghi) perylene	380		U
50-32-8	Benzo (a) pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis (2-Chloroethoxy) methane	380		U
111-44-4	bis (2-Chloroethyl) ether	380		U
108-60-1	2, 2' -Oxybis (1-Chloropropane)	380		U
117-81-7	bis (2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	760		U
53-70-3	Dibenz (a, h) anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014

Matrix: (soil/water) SO Lab Sample ID: A0G010105 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g Date Received: 06/30/00
 Work Order: DFMOR10W Date Extracted: 07/06/00
 Dilution factor: 1 Date Analyzed: 07/14/00
 Moisture %: 13

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-16-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	380	U
87-65-0	2,6-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U
60-11-7	p-Dimethylaminoazobenzene	760	U
57-97-6	7,12-Dimethylbenz(a)anthracene	760	U
119-93-7	3,3'-Dimethylbenzidine	1800	U
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
99-65-0	1,3-Dinitrobenzene	380	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	760	U
123-91-1	1,4-Dioxane	380	U
122-39-4	Diphenylamine	380	U
62-50-0	Ethyl methanesulfonate	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U
77-47-4	Hexachlorocyclopentadiene	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 06/30/00

Work Order: DFMOR10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 13

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-16-09

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	380		U
1888-71-7	Hexachloropropene	3800		U
193-39-5	Indeno (1,2,3-cd) pyrene	380		U
78-59-1	Isophorone	380		U
120-58-1	Isosafrole	760		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	760		U
56-49-5	3-Methylcholanthrene	760		U
66-27-3	Methyl methanesulfonate	380		U
91-57-6	2-Methylnaphthalene	380		U
95-48-7	2-Methylphenol	380		U
108-39-4	3-Methylphenol	380		U
106-44-5	4-Methylphenol	380		U
91-20-3	Naphthalene	380		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	380		U
91-59-8	2-Naphthylamine	380		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	380		U
88-75-5	2-Nitrophenol	380		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3800		U
924-16-3	N-Nitrosodi-n-butylamine	380		U
55-18-5	N-Nitrosodiethylamine	380		U
62-75-9	N-Nitrosodimethylamine	380		U
621-64-7	N-Nitrosodi-n-propylamine	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 06/30/00

Work Order: DFMOR10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 13

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-16-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	380	U
10595-95-6	N-Nitrosomethylethylamine	380	U
59-89-2	N-Nitrosomorpholine	380	U
100-75-4	N-Nitrosopiperidine	380	U
930-55-2	N-Nitrosopyrrolidine	380	U
99-55-8	5-Nitro-o-toluidine	760	U
608-93-5	Pentachlorobenzene	380	U
76-01-7	Pentachloroethane	1800	U
82-68-8	Pentachloronitrobenzene	1800	U
87-86-5	Pentachlorophenol	1800	U
62-44-2	Phenacetin	760	U
85-01-8	Phenanthrene	380	U
108-95-2	Phenol	380	U
106-50-3	p-Phenylene diamine	3800	U
109-06-8	2-Picoline	760	U
23950-58-5	Pronamide	760	U
129-00-0	Pyrene	380	U
110-86-1	Pyridine	760	U
94-59-7	Safrole	760	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
99-35-4	1,3,5-Trinitrobenzene	1800	U
86-74-8	Carbazole	380	U
510-15-6	Chlorobenzilate	380	U
122-09-8	a, a-Dimethylphenethylamine	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 06/30/00

Work Order: DFMOR10W

Date Extracted: 07/06/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 13

QC Batch: 0187358

Client Sample Id: MPT-G4-SU-16-09

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	760		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 06/30/00

Work Order: DFMOT10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 7.2

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-17-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo(a)anthracene	360		U
205-99-2	Benzo(b)fluoranthene	49		J
207-08-9	Benzo(k)fluoranthene	360		U
191-24-2	Benzo(ghi)perylene	360		U
50-32-8	Benzo(a)pyrene	360		U
100-51-6	Benzyl alcohol	360		U
111-91-1	bis(2-Chloroethoxy)methane	360		U
111-44-4	bis(2-Chloroethyl) ether	360		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	360		U
117-81-7	bis(2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	360		U
2303-16-4	Diallate	710		U
53-70-3	Dibenz(a,h)anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 06/30/00

Work Order: DFMOT10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 7.2

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-17-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	360	U
95-50-1	1,2-Dichlorobenzene	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
120-83-2	2,4-Dichlorophenol	360	U
87-65-0	2,6-Dichlorophenol	360	U
84-66-2	Diethyl phthalate	360	U
60-11-7	p-Dimethylaminoazobenzene	710	U
57-97-6	7,12-Dimethylbenz(a)anthrace	710	U
119-93-7	3,3'-Dimethylbenzidine	1700	U
105-67-9	2,4-Dimethylphenol	360	U
131-11-3	Dimethyl phthalate	360	U
117-84-0	Di-n-octyl phthalate	360	U
99-65-0	1,3-Dinitrobenzene	360	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	710	U
123-91-1	1,4-Dioxane	360	U
122-39-4	Diphenylamine	360	U
62-50-0	Ethyl methanesulfonate	360	U
206-44-0	Fluoranthene	360	U
86-73-7	Fluorene	360	U
118-74-1	Hexachlorobenzene	360	U
87-68-3	Hexachlorobutadiene	360	U
77-47-4	Hexachlorocyclopentadiene	1700	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 06/30/00

Work Order: DFMOT10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 7.2

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-17-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	360	U
1888-71-7	Hexachloropropene	3600	U
193-39-5	Indeno (1,2,3-cd)pyrene	360	U
78-59-1	Isophorone	360	U
120-58-1	Isosafrole	710	U
91-80-5	Methapyrilene	1700	U
95-53-4	o-Toluidine	710	U
56-49-5	3-Methylcholanthrene	710	U
66-27-3	Methyl methanesulfonate	360	U
91-57-6	2-Methylnaphthalene	360	U
95-48-7	2-Methylphenol	360	U
108-39-4	3-Methylphenol	360	U
106-44-5	4-Methylphenol	360	U
91-20-3	Naphthalene	360	U
130-15-4	1,4-Naphthoquinone	1700	U
134-32-7	1-Naphthylamine	360	U
91-59-8	2-Naphthylamine	360	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	360	U
88-75-5	2-Nitrophenol	360	U
100-02-7	4-Nitrophenol	1700	U
56-57-5	4-Nitroquinoline-1-oxide	3600	U
924-16-3	N-Nitrosodi-n-butylamine	360	U
55-18-5	N-Nitrosodiethylamine	360	U
62-75-9	N-Nitrosodimethylamine	360	U
621-64-7	N-Nitrosodi-n-propylamine	360	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 06/30/00

Work Order: DFM0T10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 7.2

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-17-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	360	U
10595-95-6	N-Nitrosomethylethylamine	360	U
59-89-2	N-Nitrosomorpholine	360	U
100-75-4	N-Nitrosopiperidine	360	U
930-55-2	N-Nitrosopyrrolidine	360	U
99-55-8	5-Nitro-o-toluidine	710	U
608-93-5	Pentachlorobenzene	360	U
76-01-7	Pentachloroethane	1700	U
82-68-8	Pentachloronitrobenzene	1700	U
87-86-5	Pentachlorophenol	1700	U
62-44-2	Phenacetin	710	U
85-01-8	Phenanthrene	360	U
108-95-2	Phenol	360	U
106-50-3	p-Phenylene diamine	3600	U
109-06-8	2-Picoline	710	U
23950-58-5	Pronamide	710	U
129-00-0	Pyrene	360	U
110-86-1	Pyridine	710	U
94-59-7	Safrole	710	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
58-90-2	2,3,4,6-Tetrachlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
99-35-4	1,3,5-Trinitrobenzene	1700	U
86-74-8	Carbazole	360	U
510-15-6	Chlorobenzilate	360	U
122-09-8	a,a-Dimethylphenethylamine	1700	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 005

Method: SW846 B270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 06/30/00

Work Order: DFMOT10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 7.2

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-17-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	710		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: AOG010105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/30/00

Work Order: DFM0V10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 12

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-DU01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo (a) anthracene	370		U
205-99-2	Benzo (b) fluoranthene	370		U
207-08-9	Benzo (k) fluoranthene	370		U
191-24-2	Benzo (ghi) perylene	370		U
50-32-8	Benzo (a) pyrene	370		U
100-51-6	Benzyl alcohol	370		U
111-91-1	bis (2-Chloroethoxy) methane	370		U
111-44-4	bis (2-Chloroethyl) ether	370		U
108-60-1	2, 2' -Oxybis (1-Chloropropane)	370		U
117-81-7	bis (2-Ethylhexyl) phthalate	370		U
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	370		U
2303-16-4	Diallate	750		U
53-70-3	Dibenz (a, h) anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/30/00

Work Order: DFMOV10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 12

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	370	U
87-65-0	2,6-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U
60-11-7	p-Dimethylaminoazobenzene	750	U
57-97-6	7,12-Dimethylbenz(a)anthrace	750	U
119-93-7	3,3'-Dimethylbenzidine	1800	U
105-67-9	2,4-Dimethylphenol	370	U
131-11-3	Dimethyl phthalate	370	U
117-84-0	Di-n-octyl phthalate	370	U
99-65-0	1,3-Dinitrobenzene	370	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	750	U
123-91-1	1,4-Dioxane	370	U
122-39-4	Diphenylamine	370	U
62-50-0	Ethyl methanesulfonate	370	U
206-44-0	Fluoranthene	370	U
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/30/00

Work Order: DFMOV10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 12

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	370	U
1888-71-7	Hexachloropropene	3700	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
78-59-1	Isophorone	370	U
120-58-1	Isosafrole	750	U
91-80-5	Methapyrilene	1800	U
95-53-4	o-Toluidine	750	U
56-49-5	3-Methylcholanthrene	750	U
66-27-3	Methyl methanesulfonate	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
108-39-4	3-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
130-15-4	1,4-Naphthoquinone	1800	U
134-32-7	1-Naphthylamine	370	U
91-59-8	2-Naphthylamine	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
56-57-5	4-Nitroquinoline-1-oxide	3700	U
924-16-3	N-Nitrosodi-n-butylamine	370	U
55-18-5	N-Nitrosodiethylamine	370	U
62-75-9	N-Nitrosodimethylamine	370	U
621-64-7	N-Nitrosodi-n-propylamine	370	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/30/00

Work Order: DFMOV10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 12

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	370	U
10595-95-6	N-Nitrosomethylethylamine	370	U
59-89-2	N-Nitrosomorpholine	370	U
100-75-4	N-Nitrosopiperidine	370	U
930-55-2	N-Nitrosopyrrolidine	370	U
99-55-8	5-Nitro-o-toluidine	750	U
608-93-5	Pentachlorobenzene	370	U
76-01-7	Pentachloroethane	1800	U
82-68-8	Pentachloronitrobenzene	1800	U
87-86-5	Pentachlorophenol	1800	U
62-44-2	Phenacetin	750	U
85-01-8	Phenanthrene	370	U
108-95-2	Phenol	370	U
106-50-3	p-Phenylene diamine	3700	U
109-06-8	2-Picoline	750	U
23950-58-5	Pronamide	750	U
129-00-0	Pyrene	370	U
110-86-1	Pyridine	750	U
94-59-7	Safrole	750	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
99-35-4	1,3,5-Trinitrobenzene	1800	U
86-74-8	Carbazole	370	U
510-15-6	Chlorobenzilate	370	U
122-09-8	a, a-Dimethylphenethylamine	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0G010105 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 06/30/00

Work Order: DFM0V10W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/13/00

Moisture %: 12

QC Batch: 0188269

Client Sample Id: MPT-G4-SU-DU01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite	750		U

APPENDIX C
Support Documentation



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) <i>John Doe</i> <i>Chad Walker</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 7926 1240 1730				CITY, STATE N Canton, OH					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (G)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)				COMMENTS	
						PRESERVATIVE USED					
						TYPE OF ANALYSIS TCL VOC 5035/8260 HCl TCL SVOC 8270 TAL Metals+Ti ₂ Cyanide H ₂ O ₂ NaOH					
6-29	1500	MPT-G4-SU-17-08	Soil	G	5	X	X	X	X		Cool to 4°C
	1555	MPT-G4-GW-17-09	GW		7	X	X	X	X		
	0000	MPT-G4-GW-DU01	GW		7	X	X	X	X		
	0000	MPT-G4-SU-DU01	Soil		7	X	X	X	X		
		TB062904	W		2	X					
1. RELINQUISHED BY <i>John Doe</i>		DATE 6-29-00	TIME 1900	1. RECEIVED BY <i>Terry Hansen</i>				DATE 6/30/00	TIME 9:10		
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY				DATE	TIME		
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME		
COMMENTS											



PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) Thomas Thompson Chad Walk		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400				ADDRESS 4101 Shuffel Dr NW						
		CARRIER/WAYBILL NUMBER FedEx 7911 0634 4344				CITY, STATE N. Canton, OH						
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED						
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS TEL VOCs 3035/8260 HCl TEL SVOCs 8270 TAL Metals + Tin Cyanide HNO ₃ KOH				COMMENTS		
6-29	0745	MPT-G4-SU-13-06	Soil	G	5	X	X	X	X			Cool to 4°C
	0835	MPT-G4-GW-13-06	GW		7	X	X	X	X			
	0937	MPT-G4-SU-14-09	Soil		5	X	X	X	X			
	1020	MPT-G4-GW-14-10	GW		7	X	X	X	X			
	1115	MPT-G4-SU-15-08	Soil		5	X	X	X	X			
	1200	MPT-G4-GW-15-09	GW		7	X	X	X	X			
	1415	MPT-G4-SU-16-09	Soil		5	X	X	X	X			
	1520	MPT-G4-GW-16-08	GW		7	X	X	X	X			
		TB062903	W		2	X						
1. RELINQUISHED BY Thomas Thompson		DATE 6-29-00	TIME 1900	1. RECEIVED BY Anne J. Arnold		DATE 6/30/00	TIME 9:10					
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME					
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME					
COMMENTS												



PROJECT NO: N0123		SITE NAME: NS Airport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) <i>[Signature]</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400		ADDRESS 4101 # Shuffel Dr NW				CITY, STATE North Canton, OH 44720			
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 8198 0334 4513		CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED			
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
						TCL VOC	TCL SVOC	TAL Metals + Tin	Cyanide		
6-26		MPT-G4-SU-01-08	Soil	G	5	X	X	X	X		Cool to 4°C
6-26	1600	MPT-G4-GW-01-11	GW		3		X	X			
6-27	0805	MPT-G4-SU-02-05	Soil		5	X	X	X	X		
	0900	MPT-G4-GW-02-05	GW		3		X	X			
	1040	MPT-G4-GW-03-05	GW		3		X	X			
	0935	MPT-G4-SU-03-05	Soil		5	X	X	X	X		
	1120	MPT-G4-SU-04-04	Soil		5	X	X	X	X		
	1210	MPT-G4-GW-04-04	GW		3		X	X			
	1320	MPT-G4-SU-05-04	Soil		5	X	X	X	X		
	1355	MPT-G4-SU-05-04	GW		1		X	X			
	1430	MPT-G4-SU-06-07	Soil		5	X	X	X	X		
1. RELINQUISHED BY <i>[Signature]</i>		DATE	TIME	1. RECEIVED BY				DATE	TIME		
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY <i>[Signature]</i>				DATE	TIME		
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME		
COMMENTS All GW samples filtered in the field, Time for MPT-G4-SU-01-08 is on sample container label.											



PROJECT NO: N0123		SITE NAME: NS Mayport Corp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen			LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400			ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex 8198 0334 4524			CITY, STATE North Canton, OH 44720					
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/>					CONTAINER TYPE PLASTIC (P) or GLASS (G)					
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day					PRESERVATIVE USED Soil: - / HCl GW: - / - / HNO ₃ / NaOH					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS
6/26	1600	MPT-G4-GW-01-11	GW	G	4	X			X	Cool to 4°C
6/27	0900	MPT-G4-GW-02-05			4	X			X	
	1040	MPT-G4-GW-03-05			4	X			X	
	1210	MPT-G4-GW-04-04			4	X			X	
	1355	MPT-G4-GW-05-04			4	X	X		X	
	1510	MPT-G4-GW-06-07			4	X			X	
	1550	MPT-G4-GW-07-05			7	X	X	X	X	
	1625	MPT-G4-SU-07-05	Soil		5	X	X	X	X	
		TB062701	W		1	X				
1. RELINQUISHED BY		DATE	TIME	1. RECEIVED BY			DATE	TIME		
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY			DATE	TIME		
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY			DATE	TIME		
COMMENTS All Gw Samples Filtered in the field.										

PROJECT NO: NO 123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER T. Hansey	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE) <i>Tom Hansey</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER T. THOMPSON (904) 281-0400	ADDRESS
		CARRIER/WAYBILL NUMBER Fed Ex: 7911 0569 2234	CITY, STATE N. Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

CONTAINER TYPE
PLASTIC (P) or GLASS (G)

PRESERVATIVE USED
HCl - HNO3 NaOH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS
						TCL VOCs	TCL SVOC	TAL Metals + Tin Cyanide		
6-28	0800	MPT-G4-SU-08-04	S	G	12	X	X	X	X	Cool to 4°C
	0910	MPT-G4-GW-08-05	GW		12	X	X	X	X	
	1030	MPT-G4-GW-09-11	GW		12	X	X	X	X	
	0955	MPT-G4-SU-09-11	S		12	X	X	X	X	
	1120	MPT-G4-SU-10-10	S		12	X	X	X	X	
	1210	MPT-G4-GW-10-10	G		3	X			X	
	1400	MPT-G4-SU-11-06	S		12	X	X	X	X	
	1440	MPT-G4-GW-11-05	GW		3	X			X	
	1540	MPT-G4-SU-12-06	S		12	X	X	X	X	
	1625	MPT-G4-GW-12-05	GW		3	X			X	

1. RELINQUISHED BY <i>[Signature]</i>	DATE 6-28-00	TIME 1900	1. RECEIVED BY <i>[Signature]</i>	DATE 6/29/00	TIME 9:15
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

JUN 29 2000 1:42
TETRA TECH NUS, JACKSONVILLE Fax: 9042810070



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400				ADDRESS						
		CARRIER/WAYBILL NUMBER Fed. Ex				CITY, STATE N. Canton						
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED				
						6		P				
						HNO3						
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS					COMMENTS	
6/28	1210	MPT-G4-GW-10-10	GW	G	3	X	X					Cool to 4°C
6/28	1440	MPT-G4-GW-11-05	↓	↓	3	X	X					↓
6/28	1625	MPT-G4-GW-12-05	↓	↓	3	X	X					↓
<div style="display: flex; justify-content: space-between;"> <div>1. RELINQUISHED BY </div> <div>DATE 6/28/00 TIME 1900</div> <div>1. RECEIVED BY </div> <div>DATE 6/29/00 TIME 9:15</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>2. RELINQUISHED BY</div> <div>DATE</div> <div>TIME</div> <div>2. RECEIVED BY</div> <div>DATE</div> <div>TIME</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>3. RELINQUISHED BY</div> <div>DATE</div> <div>TIME</div> <div>3. RECEIVED BY</div> <div>DATE</div> <div>TIME</div> </div>												
COMMENTS												

SDG NARRATIVE

MP014

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Samples in this lot were preserved by freezing in water due to samples effervescing when preserved with sodium bisulfate.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Methylene chloride was detected in the method blank for batch 0188232. This is a common laboratory contaminant with concentrations less than five times the reporting limit. All affected sample results are qualified with "B".

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The calibration check for instrument UX9 on June 29, 2000 failed the second source calibration check recoveries for Acetone, 2-Butanone, and 2-Hexanone. These compounds have poor purging efficiency; therefore, the initial calibration was acceptable.

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP014

Lab File ID: BFB063 BFB Injection Date: 05/09/00

Instrument ID: A3UX9 BFB Injection Time: 0901

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.9
75	30.0 - 60.0% of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.9 (8.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.7 (96.1)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-A9IC	UX91652	05/09/00	1201
02	VSTD100	500NG-A9IC	UX91653	05/09/00	1226
03	VSTD050	250NG-A9IC	UX91654	05/09/00	1251
04	VSTD020	100NG-A9IC	UX91655	05/09/00	1315
05	VSTD005	25NG-A9IC	UX91656	05/09/00	1340
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP014

Lab File ID: BFB110 BFB Injection Date: 06/29/00

Instrument ID: A3UX9 BFB Injection Time: 1026

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.8
75	30.0 - 60.0% of mass 95	45.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5.2 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	67.3 (97.8)1
177	5.0 - 9.0% of mass 176	4.4 (6.6)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	UX93215	06/29/00	1038
02	VSTD100	500NG-IC	UX93216	06/29/00	1103
03	VSTD050	250NG-IC	UX93217	06/29/00	1128
04	VSTD020	100NG-IC	UX93218	06/29/00	1152
05	VSTD005	25NG-IC	UX93219	06/29/00	1217
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Calibration File Names:

- Level 1: /chem/can/msv/a3ux9.i/N00628A.b/ux93156.d
- Level 2: /chem/can/msv/a3ux9.i/N00628A.b/ux93155.d
- Level 3: /chem/can/msv/a3ux9.i/N00628A.b/ux93154.d
- Level 4: /chem/can/msv/a3ux9.i/N00628A.b/ux93153.d
- Level 5: /chem/can/msv/a3ux9.i/N00628A.b/ux93152.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.07864	0.09830	0.10897	0.10800	0.10891	0.10057	12.978
9 Chloromethane	0.32706	0.33354	0.33788	0.33882	0.33351	0.33416	1.393
10 Vinyl Chloride	0.22064	0.23157	0.24113	0.23584	0.23124	0.23208	3.252
11 Bromomethane	0.10009	0.08949	0.07487	0.05596	0.04982	0.07405	28.895
12 Chloroethane	0.12920	0.12376	0.10666	0.07759	0.06321	0.10008	28.773
13 Trichlorofluoromethane	0.19273	0.21057	0.21870	0.20975	0.17552	0.20146	8.591
14 Acrolein	0.03865	0.03776	0.03681	0.03603	0.03360	0.03657	5.280
15 Acetone	0.16808	0.13135	0.12082	0.11672	0.13411	0.13422	15.091
16 1,1-Dichloroethene	0.17468	0.16902	0.18015	0.17611	0.17778	0.17555	2.380
17 Methylene Chloride	0.25318	0.21504	0.21403	0.20981	0.20724	0.21986	8.593
18 Carbon Disulfide	0.60137	0.56446	0.60115	0.60069	0.60237	0.59401	2.783
19 Acrylonitrile	0.15005	0.14885	0.14505	0.14374	0.16348	0.15023	5.224
20 trans-1,2-Dichloroethene	0.21494	0.20350	0.21075	0.20910	0.20219	0.20810	2.531
21 Vinyl acetate	0.65049	0.68327	0.67342	0.68893	0.73617	0.68646	4.578
22 1,1-Dichloroethane	0.45761	0.44011	0.45045	0.44749	0.43969	0.44707	1.680
23 2-Butanone	0.23383	0.22991	0.21528	0.21182	0.25282	0.22873	7.166
24 cis-1,2-dichloroethene	0.23283	0.22160	0.22400	0.21560	0.21349	0.22150	3.450
M 25 1,2-Dichloroethene (total)	0.22389	0.21255	0.21738	0.21235	0.20784	0.21480	2.839
26 Chloroform	0.32608	0.31315	0.32158	0.31308	0.31263	0.31730	1.944
27 1,1,1-Trichloroethane	0.25913	0.24314	0.25725	0.26262	0.26108	0.25664	3.046
28 Carbon Tetrachloride	0.20785	0.21038	0.22609	0.22796	0.23182	0.22082	4.946
29 1,2-Dichloroethane	0.33635	0.32546	0.32748	0.31874	0.32251	0.32611	2.024
30 Benzene	0.93459	0.86517	0.91778	0.89237	0.86668	0.89532	3.436
31 Trichloroethene	0.22072	0.21165	0.22141	0.22248	0.22253	0.21976	2.090
32 1,2-Dichloropropane	0.26994	0.27336	0.27753	0.27126	0.26342	0.27110	1.905
33 Bromodichloromethane	0.22863	0.21931	0.23511	0.23578	0.23884	0.23154	3.360

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardches
 Curve Type : Average

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
34 2-Chloroethyl vinyl ether	0.14000	0.15257	0.15439	0.15680	0.16887	0.15453	6.677
35 4-Methyl-2-pentanone	0.35652	0.38552	0.38096	0.37767	0.45063	0.39026	9.106
36 cis-1,3-Dichloropropene	0.34051	0.33931	0.35554	0.34927	0.35451	0.34783	2.191
37 Toluene	1.37785	1.32397	1.32515	1.30843	1.28225	1.32353	2.641
38 trans-1,3-Dichloropropene	0.37454	0.41946	0.42192	0.42882	0.43666	0.41628	5.830
39 2-Hexanone	0.32991	0.38341	0.37151	0.37064	0.44979	0.38105	11.397
40 1,1,2-Trichloroethane	0.25022	0.25232	0.25008	0.24177	0.24711	0.24830	1.650
41 Tetrachloroethane	0.21502	0.21350	0.21545	0.20981	0.20703	0.21216	1.711
42 Dibromochloromethane	0.21000	0.22594	0.22941	0.23992	0.25354	0.23176	7.003
43 Chlorobenzene	0.90840	0.89916	0.90650	0.89895	0.88064	0.89873	1.221
44 Ethylbenzene	0.50866	0.50210	0.50361	0.49807	0.48794	0.50007	1.554
45 m + p-Xylene	0.70441	0.62371	0.62580	0.60655	0.59118	0.63033	6.938
46 Xylene-o	0.62480	0.60135	0.60142	0.59168	0.57664	0.59918	2.927
M 47 Xylenes (total)	0.67788	0.61626	0.61767	0.60160	0.58633	0.61995	5.612
48 Styrene	0.97363	0.98457	1.02371	1.01539	0.99724	0.99891	2.084
49 Bromoform	0.10455	0.12139	0.12652	0.12925	0.14945	0.12623	12.785
50 1,1,2,2-Tetrachloroethane	0.70209	0.70675	0.72312	0.69135	0.75306	0.71527	3.359
51 1,3-Dichlorobenzene	1.41018	1.27161	1.32482	1.29781	1.27219	1.31532	4.362
52 1,4-Dichlorobenzene	1.52027	1.29485	1.35301	1.30516	1.32659	1.35998	6.790
53 1,2-Dichlorobenzene	1.38961	1.22303	1.27608	1.22466	1.25687	1.27405	5.366
54 Freon-113	0.12569	0.13091	0.12833	0.14180	0.13924	0.13319	5.253
55 Acetonitrile	0.04712	0.04969	0.04716	0.04757	0.05362	0.04903	5.656
56 Iodomethane	0.28187	0.28642	0.29312	0.29073	0.29397	0.28922	1.746
57 3-Chloropropene	0.10737	0.11156	0.10975	0.11360	0.11383	0.11122	2.443
58 2-Chloro-1,3-butadiene	0.54219	0.57641	0.58472	0.59927	0.60446	0.58141	4.235
59 Propionitrile	0.05785	0.06249	0.06022	0.06410	0.06843	0.06262	6.411
60 Methacrylonitrile	0.27041	0.27031	0.26853	0.27736	0.29071	0.27546	3.328
61 Isobutanol	0.01377	0.01547	0.01539	0.01718	0.01867	0.01610	11.671
62 Methyl Methacrylate	0.35113	0.37764	0.36957	0.40172	0.41617	0.38325	6.748
63 1,4-Dioxane	0.00233	0.00266	0.00252	0.00255	0.00301	0.00261	9.507 ←
64 Dibromomethane	0.10516	0.10875	0.10781	0.10604	0.11037	0.10762	1.940
65 Ethyl Methacrylate	0.35238	0.41188	0.41150	0.41518	0.44144	0.40648	8.047
66 1,2-Dibromoethane	0.25278	0.26364	0.26098	0.25517	0.26882	0.26028	2.483

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	X RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
67 1,1,1,2-Tetrachloroethane	0.25163	0.25911	0.25735	0.27604	0.27573	0.26397	4.251
68 1,2,3-Trichloropropene	0.91820	0.91981	0.92649	0.93333	1.01468	0.94250	4.328
69 1,4-Dichloro-2-butene	0.35431	0.32830	0.34362	0.34440	0.39274	0.35267	6.877
70 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++ <-
71 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++ <-
72 1,2-Dibromo-3-chloropropane	0.11816	0.12669	0.13137	0.14551	0.15803	0.13595	11.644
73 Ethanol	++++	++++	++++	++++	++++	++++	++++ <-
74 n-Butanol	0.01003	0.01178	0.01237	0.01403	0.01565	0.01277	16.847
75 Ethyl Acetate	0.45322	0.46028	0.44671	0.48155	0.51368	0.47109	5.768
76 Cyclohexanone	0.03840	0.04242	0.04219	0.04690	0.05108	0.04420	11.048
77 Ethyl Ether	0.30300	0.30790	0.29616	0.30911	0.30462	0.30416	1.676
78 Methyl tert-butyl ether	0.61204	0.61383	0.60971	0.59847	0.61837	0.61048	1.217
79 Tetrahydrofuran	0.12657	0.13399	0.12317	0.12351	0.15048	0.13154	8.700
80 Dichlorofluoromethane	0.30350	0.33178	0.34464	0.35176	0.34647	0.33563	5.781
81 2-Nitropropane	0.05959	0.06270	0.06506	0.07554	0.08696	0.06997	16.048
82 tert-Butyl Alcohol	0.03457	0.03676	0.03362	0.03511	0.04619	0.03725	13.754
83 Cyclohexane	0.58184	0.57686	0.60907	0.61006	0.60764	0.59709	2.732
84 Hexane	0.40601	0.40452	0.41043	0.41587	0.41801	0.41097	1.440
85 Isopropyl Ether	1.02365	1.04444	1.02170	1.02356	0.99063	1.02080	1.888
86 2,2-Dichloropropane	0.23895	0.23696	0.24692	0.25215	0.25384	0.24577	3.094
87 1,1-Dichloropropene	0.28213	0.25980	0.27436	0.27468	0.26712	0.27162	3.120
88 1,3-Dichloropropane	0.49001	0.47240	0.46910	0.45217	0.45387	0.46751	3.304
89 Isopropylbenzene	1.46001	1.46603	1.48430	1.48753	1.48973	1.47752	0.917
90 Bromobenzene	0.72693	0.64993	0.66206	0.65774	0.64817	0.66897	4.917
91 2-Chlorotoluene	0.76148	0.71478	0.76515	0.75965	0.73835	0.74788	2.843
92 n-Propylbenzene	0.99489	0.88612	0.93604	0.94278	0.92569	0.93711	4.168
93 4-Chlorotoluene	0.82326	0.73514	0.78221	0.76269	0.76550	0.77376	4.190
94 1,3,5-Trimethylbenzene	2.76974	2.56874	2.75693	2.75113	2.70005	2.70932	3.061
95 tert-Butylbenzene	2.57860	2.39281	2.43554	2.48104	2.69802	2.51720	4.862
96 1,2,4-Trimethylbenzene	2.70360	2.64162	2.77348	2.79111	2.76021	2.73400	2.237
97 sec-Butylbenzene	3.55814	3.25752	3.57861	3.50951	3.49468	3.47969	3.703
98 4-Isopropyltoluene	2.91014	2.70727	2.87396	2.88384	2.85876	2.84679	2.817
99 n-Butylbenzene	2.38998	2.39648	2.54283	2.56823	2.56242	2.49199	3.639

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.1/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD	
100 1,2,4-Trichlorobenzene	0.80861	0.80220	0.79085	0.79327	0.83119	0.80523	2.007	
101 Naphthalene	2.39095	2.38793	2.37756	2.24658	2.47650	2.37590	3.472	
102 Hexachlorobutadiene	0.34898	0.35341	0.36856	0.36435	0.36704	0.36047	2.425	
103 1,2,3-Trichlorobenzene	0.76773	0.77271	0.75454	0.72372	0.74977	0.75369	2.546	
104 Isopropyl Alcohol	++++	++++	++++	++++	++++	++++	++++	<-
105 N-Propanol	++++	++++	++++	++++	++++	++++	++++	<-
106 Isopropyl Acetate	++++	++++	++++	++++	++++	++++	++++	<-
107 N-Propyl Acetate	++++	++++	++++	++++	++++	++++	++++	<-
108 N-Butyl acetate	++++	++++	++++	++++	++++	++++	++++	<-
109 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++	<-
110 3,3,5-Trimethylcyclohexanone	0.16209	0.18263	0.15887	0.18542	0.17131	0.17206	6.901	
111 Bromochloromethane	0.09967	0.10235	0.10668	0.10266	0.10494	0.10326	2.589	
112 Paraldehyde	++++	++++	++++	++++	++++	++++	++++	<-
135 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++	<-
136 Chloropicrin	++++	++++	++++	++++	++++	++++	++++	<-
137 1,3,5-Trichlorobenzene	0.92817	0.88722	0.91437	0.88668	0.92518	0.90832	2.221	
138 Methyl Acetate	0.35838	0.36233	0.35243	0.35115	0.41015	0.36689	6.706	
139 Methylcyclohexane	0.41323	0.39833	0.41412	0.40945	0.40945	0.40891	1.539	
\$ 4 1,2-Dichloroethane-d4	0.21710	0.21893	0.21843	0.21262	0.23332	0.22008	3.547	
\$ 5 Toluene-d8	1.08815	1.06991	1.08222	1.07088	1.04660	1.07155	1.487	
\$ 6 Bromofluorobenzene	0.41703	0.40687	0.40896	0.39835	0.40185	0.40661	1.761	
\$ 7 Dibromofluoromethane	0.16532	0.16485	0.16904	0.17258	0.17113	0.16859	2.040	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP014

Lab File ID: BFB111 BFB Injection Date: 07/04/00

Instrument ID: A3UX9 BFB Injection Time: 1019

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.7
75	30.0 - 60.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 120.0% of mass 95	76.6
175	5.0 - 9.0% of mass 174	5.2 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.8 (97.6)1
177	5.0 - 9.0% of mass 176	5.5 (7.4)2

1-Value is % of mass 174 2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93300 ✓	07/04/00	1036
02	VSTD050	250NG-A9CC	UX93301	07/04/00	1100
03	DEP5H-CHK	DFP5H102	UX93302	07/04/00	1125
04	DEP5H-BLK	DFP5H101	UX93304	07/04/00	1215
05	MPT-G4-SU-07	DFL4J102	UX93316	07/04/00	1711
06	MPT-G4-SU-02	DFM08102	UX93317	07/04/00	1736
07	MPT-G4-SU-03	DFM09102	UX93318	07/04/00	1801
08	MPT-G4-SU-04	DFM0A102	UX93319	07/04/00	1826
09	MPT-G4-SU-05	DFM0C102	UX93320	07/04/00	1850
10	MPT-G4-SU-06	DFM0D102	UX93321	07/04/00	1915
11	MPT-G4-SU-07	DFM0E102	UX93322	07/04/00	1940
12	MPT-G4-SU-08	DFM0F102	UX93323	07/04/00	2004
13	MPT-G4-SU-09	DFM0G102	UX93324	07/04/00	2029
14	MPT-G4-SU-10	DFM0H102	UX93325	07/04/00	2054
15	MPT-G4-SU-11	DFM0J102	UX93326	07/04/00	2119
16					
17					
18					
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 04-JUL-2000 10:36
 Lab File ID: ux93300.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00704A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	SD / XDRIFT	MAX SD / XDRIFT	CURVE TYPE
\$ 4 1,2-Dichloroethane-d4	0.22008	0.22901	0.010	-4.1	50.0	Averaged
\$ 5 Toluene-d8	1.07155	1.24837	0.010	-16.5	50.0	Averaged
\$ 6 Bromofluorobenzene	0.40661	0.44482	0.010	-9.4	50.0	Averaged
\$ 7 Dibromofluoromethane	0.16859	0.20814	0.010	-23.5	50.0	Averaged
8 Dichlorodifluoromethane	0.10057	0.09557	0.010	5.0	50.0	Averaged
9 Chloromethane	0.33416	0.34228	0.100	-2.4	50.0	Averaged
10 Vinyl Chloride	0.23208	0.25195	0.010	-8.6	20.0	Averaged
11 Bromomethane	0.07405	0.08268	0.010	-11.7	50.0	Averaged
12 Chloroethane	0.10008	0.11063	0.010	-10.5	50.0	Averaged
13 Trichlorofluoromethane	0.20146	0.21702	0.010	-7.7	50.0	Averaged
14 Acrolein	0.03657	0.02821	0.010	22.9	50.0	Averaged
16 1,1-Dichloroethene	0.17555	0.18234	0.050	-3.9	20.0	Averaged
15 Acetone	0.13422	0.11907	0.010	11.3	50.0	Averaged
54 Freon-113	0.13319	0.14874	0.010	-11.7	50.0	Averaged
56 Iodomethane	0.28922	0.30774	0.010	-6.4	50.0	Averaged
18 Carbon Disulfide	0.59401	0.60980	0.010	-2.7	50.0	Averaged
55 Acetonitrile	0.04903	0.04674	0.010	4.7	50.0	Averaged
17 Methylene Chloride	0.21986	0.21269	0.010	3.3	50.0	Averaged
19 Acrylonitrile	0.15023	0.14086	0.010	6.2	50.0	Averaged
78 Methyl tert-butyl ether	0.61048	0.56357	0.010	7.7	50.0	Averaged
84 Hexane	0.41097	0.40426	0.010	1.6	50.0	Averaged
21 Vinyl acetate	0.68646	0.43376	0.010	36.8	50.0	Averaged
22 1,1-Dichloroethane	0.44707	0.42402	0.100	5.2	50.0	Averaged
23 2-Butanone	0.22873	0.19598	0.010	14.3	50.0	Averaged
20 trans-1,2-Dichloroethene	0.20810	0.20869	0.010	-0.3	50.0	Averaged
24 cis-1,2-dichloroethene	0.22150	0.21735	0.010	1.9	50.0	Averaged
M 25 1,2-Dichloroethene (total)	0.21480	0.21302	0.010	0.8	50.0	Averaged
86 2,2-Dichloropropane	0.24577	0.21334	0.010	13.2	50.0	Averaged
111 Bromochloromethane	0.10326	0.10544	0.010	-2.1	50.0	Averaged
79 Tetrahydrofuran	0.13154	0.11908	0.010	9.5	50.0	Averaged
26 Chloroform	0.31730	0.29389	0.010	7.4	20.0	Averaged
27 1,1,1-Trichloroethane	0.25664	0.23385	0.010	8.9	50.0	Averaged
87 1,1-Dichloropropene	0.27162	0.25003	0.010	7.9	50.0	Averaged
28 Carbon Tetrachloride	0.22082	0.20077	0.010	9.1	50.0	Averaged
29 1,2-Dichloroethane	0.32611	0.28162	0.010	13.6	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 04-JUL-2000 10:36
 Lab File ID: ux93300.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00704A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	SD / %DRIFT	MAX SD / %DRIFT	CURVE TYPE
30 Benzene	0.89532	0.88658	0.010	1.0	50.0	Averaged
31 Trichloroethene	0.21976	0.22514	0.010	-2.4	50.0	Averaged
32 1,2-Dichloropropane	0.27110	0.25939	0.010	4.3	20.0	Averaged
63 1,4-Dioxane	0.00261	0.00280	0.010	-7.2	50.0	Averaged ←
64 Dibromomethane	0.10762	0.10091	0.010	6.2	50.0	Averaged
33 Bromodichloromethane	0.23154	0.21486	0.010	7.2	50.0	Averaged
34 2-Chloroethyl vinyl ether	0.15453	0.12665	0.010	18.0	50.0	Averaged
36 cis-1,3-Dichloropropene	0.34783	0.32366	0.010	7.0	50.0	Averaged
35 4-Methyl-2-pentanone	0.39026	0.33855	0.010	13.2	50.0	Averaged
37 Toluene	1.32353	1.21633	0.010	8.1	20.0	Averaged
38 trans-1,3-Dichloropropene	0.41628	0.36865	0.010	11.4	50.0	Averaged
65 Ethyl Methacrylate	0.40648	0.36255	0.010	10.8	50.0	Averaged
40 1,1,2-Trichloroethane	0.24830	0.22853	0.010	8.0	50.0	Averaged
88 1,3-Dichloropropene	0.46751	0.42152	0.010	9.8	50.0	Averaged
41 Tetrachloroethene	0.21216	0.21512	0.010	-1.4	50.0	Averaged
39 2-Hexanone	0.38105	0.31628	0.010	17.0	50.0	Averaged
42 Dibromochloromethane	0.23176	0.21682	0.010	6.4	50.0	Averaged
66 1,2-Dibromoethane	0.26028	0.24470	0.010	6.0	50.0	Averaged
43 Chlorobenzene	0.89873	0.84289	0.300	6.2	50.0	Averaged
44 Ethylbenzene	0.50007	0.48761	0.010	2.5	20.0	Averaged
45 m + p-Xylene	0.63033	0.60854	0.010	3.5	50.0	Averaged
46 Xylene-o	0.59918	0.57688	0.010	3.7	50.0	Averaged
M 47 Xylenes (total)	0.61995	0.59799	0.010	3.5	50.0	Averaged
48 Styrene	0.99891	0.96604	0.010	3.3	50.0	Averaged
49 Bromoform	0.12623	0.12270	0.100	2.8	50.0	Averaged
89 Isopropylbenzene	1.47752	1.37315	0.010	7.1	50.0	Averaged
50 1,1,2,2-Tetrachloroethane	0.71527	0.62005	0.300	13.3	50.0	Averaged
90 Bromobenzene	0.66897	0.65515	0.010	2.1	50.0	Averaged
68 1,2,3-Trichloropropane	0.94250	0.82274	0.010	12.7	50.0	Averaged
69 1,4-Dichloro-2-butene	0.35267	0.30459	0.010	13.6	50.0	Averaged
92 n-Propylbenzene	0.93711	0.86974	0.010	7.2	50.0	Averaged
91 2-Chlorotoluene	0.74788	0.71784	0.010	4.0	50.0	Averaged
94 1,3,5-Trimethylbenzene	2.70932	2.43455	0.010	10.1	50.0	Averaged
93 4-Chlorotoluene	0.77376	0.74735	0.010	3.4	50.0	Averaged
95 tert-Butylbenzene	2.51720	2.20939	0.010	12.2	50.0	Averaged
96 1,2,4-Trimethylbenzene	2.73400	2.45919	0.010	10.1	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 04-JUL-2000 10:36
 Lab File ID: ux93300.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00704A.b/N8260SUX9-3.m

COMPOUND	—		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF250	RRF	XD / XDRIFT	XD / XDRIFT		
97 sec-Butylbenzene	3.47969	3.18947	0.010	8.3	50.0	Averaged	
51 1,3-Dichlorobenzene	1.31532	1.28263	0.010	2.5	50.0	Averaged	
52 1,4-Dichlorobenzene	1.35998	1.29936	0.010	4.5	50.0	Averaged	
53 1,2-Dichlorobenzene	1.27405	1.21843	0.010	4.4	50.0	Averaged	
98 4-Isopropyltoluene	2.84679	2.61322	0.010	8.2	50.0	Averaged	
99 n-Butylbenzene	2.49199	2.25109	0.010	9.7	50.0	Averaged	
100 1,2,4-Trichlorobenzene	0.80523	0.81382	0.010	-1.1	50.0	Averaged	
102 Hexachlorobutadiene	0.36047	0.35406	0.010	1.8	50.0	Averaged	
101 Naphthalene	2.37590	2.19873	0.010	7.5	50.0	Averaged	
103 1,2,3-Trichlorobenzene	0.75369	0.75588	0.010	-0.3	50.0	Averaged	
82 tert-Butyl Alcohol	0.03725	0.03443	0.010	7.6	50.0	Averaged	
138 Methyl Acetate	0.36689	0.39207	0.010	-6.9	50.0	Averaged	
139 Methylcyclohexane	0.40891	0.41148	0.010	-0.6	50.0	Averaged	
83 Cyclohexane	0.59709	0.57979	0.010	2.9	50.0	Averaged	
137 1,3,5-Trichlorobenzene	0.90832	0.98110	0.010	-8.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 04-JUL-2000 11:00
 Lab File ID: ux93301.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00704A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
57 3-Chloropropene	0.11122	0.11197	0.010	-0.7	50.0	Averaged	
58 2-Chloro-1,3-butadiene	0.58141	0.46956	0.010	19.2	50.0	Averaged	
59 Propionitrile	0.06262	0.05050	0.010	19.4	50.0	Averaged	
60 Methacrylonitrile	0.27546	0.21194	0.010	23.1	50.0	Averaged	
61 Isobutanol	0.01610	0.01207	0.010	25.0	50.0	Averaged	
62 Methyl Methacrylate	0.38325	0.28924	0.010	24.5	50.0	Averaged	
67 1,1,1,2-Tetrachloroethane	0.26397	0.24733	0.010	6.3	50.0	Averaged	
72 1,2-Dibromo-3-chloropropane	0.13595	0.13337	0.010	1.9	50.0	Averaged	
74 n-Butanol	0.01277	0.01035	0.010	19.0	50.0	Averaged	
75 Ethyl Acetate	0.47109	0.35431	0.010	24.8	50.0	Averaged	
76 Cyclohexanone	0.04420	0.03261	0.010	26.2	50.0	Averaged	
77 Ethyl Ether	0.30416	0.27371	0.010	10.0	50.0	Averaged	
80 Dichlorofluoromethane	0.33563	0.30901	0.010	7.9	50.0	Averaged	
81 2-Nitropropane	0.06997	0.04664	0.010	33.3	50.0	Averaged	
85 Isopropyl Ether	1.02080	1.01911	0.010	0.2	50.0	Averaged	
110 3,3,5-Trimethylcyclohexanon	0.17206	0.15381	0.010	10.6	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP014

Lab File ID: BFB112 BFB Injection Date: 07/05/00

Instrument ID: A3UX9 BFB Injection Time: 1029

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.2
75	30.0 - 60.0% of mass 95	41.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 120.0% of mass 95	79.0
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.0 (98.7)1
177	5.0 - 9.0% of mass 176	4.8 (6.1)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93329	07/05/00	1047
02	VSTD050	250NG-A9CC	UX93330	07/05/00	1112
03	DFQE4-CHK	DFQE4102	UX93331	07/05/00	1137
04	DFQE4-BLK	DFQE4101	UX93333	07/05/00	1226
05	MPT-0123 -	DFMOL101	UX93338	07/05/00	1433
06	MPT-G4-SU-13	DFMON102	UX93339	07/05/00	1458
07	MPT-G4-SU-14	DFMOP102	UX93340	07/05/00	1523
08	MPT-G4-SU-15	DFMOQ102	UX93341	07/05/00	1547
09	MPT-G4-SU-16	DFMOR102	UX93342	07/05/00	1612
10	MPT-G4-SU-17	DFMOT102	UX93343	07/05/00	1636
11	MPT-G4-SU-DU	DFMOV102	UX93344	07/05/00	1701
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 10:47
 Lab File ID: ux93329.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 25ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	MIN		MAX		CURVE TYPE
		RF250	RRF	SD / DRIFT	SD / DRIFT	
\$ 4 1,2-Dichloroethane-d4	0.22008	0.23826	0.010	-8.3	50.0	Averaged
\$ 5 Toluene-d8	1.07155	1.22708	0.010	-14.5	50.0	Averaged
\$ 6 Bromofluorobenzene	0.40661	0.44728	0.010	-10.0	50.0	Averaged
\$ 7 Dibromofluoromethane	0.16859	0.21332	0.010	-26.5	50.0	Averaged
8 Dichlorodifluoromethane	0.10057	0.10915	0.010	-8.5	50.0	Averaged
9 Chloromethane	0.33416	0.35906	0.100	-7.5	50.0	Averaged
10 Vinyl Chloride	0.23208	0.25896	0.010	-11.6	20.0	Averaged
11 Bromomethane	0.07405	0.07724	0.010	-4.3	50.0	Averaged
12 Chloroethane	0.10008	0.11042	0.010	-10.3	50.0	Averaged
13 Trichlorofluoromethane	0.20146	0.23979	0.010	-19.0	50.0	Averaged
14 Acrolein	0.03657	0.04078	0.010	-11.5	50.0	Averaged
16 1,1-Dichloroethane	0.17555	0.19558	0.050	-11.4	20.0	Averaged
15 Acetone	0.13422	0.12088	0.010	9.9	50.0	Averaged
54 Freon-113	0.13319	0.15227	0.010	-14.3	50.0	Averaged
56 Iodomethane	0.28922	0.32429	0.010	-12.1	50.0	Averaged
18 Carbon Disulfide	0.59401	0.64731	0.010	-9.0	50.0	Averaged
55 Acetonitrile	0.04903	0.04622	0.010	5.7	50.0	Averaged
17 Methylene Chloride	0.21986	0.23381	0.010	-6.3	50.0	Averaged
19 Acrylonitrile	0.15023	0.14423	0.010	4.0	50.0	Averaged
78 Methyl tert-butyl ether	0.61048	0.60176	0.010	1.4	50.0	Averaged
84 Hexane	0.41097	0.41015	0.010	0.2	50.0	Averaged
21 Vinyl acetate	0.68646	0.68922	0.010	-0.4	50.0	Averaged
22 1,1-Dichloroethane	0.44707	0.44672	0.100	0.1	50.0	Averaged
23 2-Butanone	0.22873	0.20491	0.010	10.4	50.0	Averaged
20 trans-1,2-Dichloroethene	0.20810	0.22616	0.010	-8.7	50.0	Averaged
24 cis-1,2-dichloroethene	0.22150	0.24066	0.010	-8.6	50.0	Averaged
M 25 1,2-Dichloroethene (total)	0.21480	0.23341	0.010	-8.7	50.0	Averaged
86 2,2-Dichloropropane	0.24577	0.23518	0.010	4.3	50.0	Averaged
111 Bromochloromethane	0.10326	0.11454	0.010	-10.9	50.0	Averaged
79 Tetrahydrofuran	0.13154	0.12027	0.010	8.6	50.0	Averaged
26 Chloroform	0.31730	0.31641	0.010	0.3	20.0	Averaged
27 1,1,1-Trichloroethane	0.25664	0.25386	0.010	1.1	50.0	Averaged
87 1,1-Dichloropropene	0.27162	0.27506	0.010	-1.3	50.0	Averaged
28 Carbon Tetrachloride	0.22082	0.21752	0.010	1.5	50.0	Averaged
29 1,2-Dichloroethane	0.32611	0.31735	0.010	2.7	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 10:47
 Lab File ID: ux93329.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	XD / XDRIFT	XD	XDRIFT	
30 Benzene	0.89532	0.95233	0.010	-6.4	50.0	Averaged	
31 Trichloroethene	0.21976	0.24678	0.010	-12.3	50.0	Averaged	
32 1,2-Dichloropropane	0.27110	0.27181	0.010	-0.3	20.0	Averaged	
63 1,4-Dioxane	0.00261	0.00286	0.010	-9.4	50.0	Averaged <-	
64 Dibromomethane	0.10762	0.10545	0.010	2.0	50.0	Averaged	
33 Bromodichloromethane	0.23154	0.23341	0.010	-0.8	50.0	Averaged	
34 2-Chloroethyl vinyl ether	0.15453	0.14030	0.010	9.2	50.0	Averaged	
36 cis-1,3-Dichloropropene	0.34783	0.34888	0.010	-0.3	50.0	Averaged	
35 4-Methyl-2-pentanone	0.39026	0.34931	0.010	10.5	50.0	Averaged	
37 Toluene	1.32353	1.26438	0.010	4.5	20.0	Averaged	
38 trans-1,3-Dichloropropene	0.41628	0.38260	0.010	8.1	50.0	Averaged	
65 Ethyl Methacrylate	0.40648	0.35481	0.010	12.7	50.0	Averaged	
40 1,1,2-Trichloroethane	0.24830	0.23924	0.010	3.6	50.0	Averaged	
88 1,3-Dichloropropane	0.46751	0.43491	0.010	7.0	50.0	Averaged	
41 Tetrachloroethene	0.21216	0.23577	0.010	-11.1	50.0	Averaged	
39 2-Hexanone	0.38105	0.31512	0.010	17.3	50.0	Averaged	
42 Dibromochloromethane	0.23176	0.23977	0.010	-3.5	50.0	Averaged	
66 1,2-Dibromoethane	0.26028	0.25225	0.010	3.1	50.0	Averaged	
43 Chlorobenzene	0.89873	0.90484	0.300	-0.7	50.0	Averaged	
44 Ethylbenzene	0.50007	0.51048	0.010	-2.1	20.0	Averaged	
45 m + p-Xylene	0.63033	0.63763	0.010	-1.2	50.0	Averaged	
46 Xylene-o	0.59918	0.61214	0.010	-2.2	50.0	Averaged	
M 47 Xylenes (total)	0.61995	0.62913	0.010	-1.5	50.0	Averaged	
48 Styrene	0.99891	1.01130	0.010	-1.2	50.0	Averaged	
49 Bromoform	0.12623	0.13977	0.100	-10.7	50.0	Averaged	
89 Isopropylbenzene	1.47752	1.44515	0.010	2.2	50.0	Averaged	
50 1,1,2,2-Tetrachloroethane	0.71527	0.65432	0.300	8.5	50.0	Averaged	
90 Bromobenzene	0.66897	0.69705	0.010	-4.2	50.0	Averaged	
68 1,2,3-Trichloropropane	0.94250	0.83829	0.010	11.1	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.35267	0.31546	0.010	10.6	50.0	Averaged	
92 n-Propylbenzene	0.93711	0.96258	0.010	-2.7	50.0	Averaged	
91 2-Chlorotoluene	0.74788	0.77722	0.010	-3.9	50.0	Averaged	
94 1,3,5-Trimethylbenzene	2.70932	2.54880	0.010	5.9	50.0	Averaged	
93 4-Chlorotoluene	0.77376	0.81258	0.010	-5.0	50.0	Averaged	
95 tert-Butylbenzene	2.51720	2.35754	0.010	6.3	50.0	Averaged	
96 1,2,4-Trimethylbenzene	2.73400	2.59673	0.010	5.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 10:47
 Lab File ID: ux93329.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT		MIN		MAX		CURVE TYPE
	RRF	AMOUNT	RF250	RRF	XD / XDRIFT	XD / XDRIFT	
97 sec-Butylbenzene	3.47969		3.32335	0.010	4.5	50.0	Averaged
51 1,3-Dichlorobenzene	1.31532		1.34090	0.010	-1.9	50.0	Averaged
52 1,4-Dichlorobenzene	1.35998		1.36222	0.010	-0.2	50.0	Averaged
53 1,2-Dichlorobenzene	1.27405		1.28855	0.010	-1.1	50.0	Averaged
98 4-Isopropyltoluene	2.84679		2.75629	0.010	3.2	50.0	Averaged
99 n-Butylbenzene	2.49199		2.31309	0.010	7.2	50.0	Averaged
100 1,2,4-Trichlorobenzene	0.80523		0.82117	0.010	-2.0	50.0	Averaged
102 Hexachlorobutadiene	0.36047		0.37474	0.010	-4.0	50.0	Averaged
101 Naphthalene	2.37590		2.14864	0.010	9.6	50.0	Averaged
103 1,2,3-Trichlorobenzene	0.75369		0.73597	0.010	2.4	50.0	Averaged
82 tert-Butyl Alcohol	0.03725		0.03543	0.010	4.9	50.0	Averaged
138 Methyl Acetate	0.36689		0.32404	0.010	11.7	50.0	Averaged
139 Methylcyclohexane	0.40891		0.41410	0.010	-1.3	50.0	Averaged
83 Cyclohexane	0.59709		0.57076	0.010	4.4	50.0	Averaged
137 1,3,5-Trichlorobenzene	0.90832		0.96644	0.010	-6.4	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 11:12
 Lab File ID: ux93330.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	MIN		MAX		CURVE TYPE
		RF250	RRF	XD / XDRIFT	XD / XDRIFT	
57 3-Chloropropene	0.11122	0.11807	0.010	-6.2	50.0	Averaged
58 2-Chloro-1,3-butadiene	0.58141	0.49019	0.010	15.7	50.0	Averaged
59 Propionitrile	0.06262	0.04759	0.010	24.0	50.0	Averaged
60 Methacrylonitrile	0.27546	0.15588	0.010	27.4	50.0	Averaged
61 Isobutanol	0.01610	0.01112	0.010	30.9	50.0	Averaged
62 Methyl Methacrylate	0.38325	0.28161	0.010	26.5	50.0	Averaged
67 1,1,1,2-Tetrachloroethane	0.26397	0.25910	0.010	1.8	50.0	Averaged
72 1,2-Dibromo-3-chloropropane	0.13595	0.11774	0.010	13.4	50.0	Averaged
74 n-Butanol	0.01277	0.00924	0.010	27.7	50.0	Averaged
75 Ethyl Acetate	0.47109	0.34034	0.010	27.8	50.0	Averaged
76 Cyclohexanone	0.04420	0.02444	0.010	44.7	50.0	Averaged
77 Ethyl Ether	0.30416	0.27317	0.010	10.2	50.0	Averaged
80 Dichlorofluoromethane	0.33563	0.31336	0.010	6.6	50.0	Averaged
81 2-Nitropropane	0.06997	0.04982	0.010	28.8	50.0	Averaged
85 Isopropyl Ether	1.02080	1.03779	0.010	-1.7	50.0	Averaged
110 3,3,5-Trimethylcyclohexanon	0.17206	0.15313	0.010	11.0	50.0	Averaged

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014

Matrix: (soil/water) SOLID Lab Sample ID: A0G060000 232
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 06/29/00
Work Order: DFQR4101 Date Extracted: 07/05/00
Dilution factor: 1 Date Analyzed: 07/05/00
Moisture %: NA

QC Batch: 0188232

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	20		U
75-05-8	Acetonitrile	100		U
107-02-8	Acrolein	100		U
107-13-1	Acrylonitrile	100		U
71-43-2	Benzene	5.0		U
75-27-4	Bromodichloromethane	5.0		U
75-25-2	Bromoform	5.0		U
74-83-9	Bromomethane	10		U
75-15-0	Carbon disulfide	5.0		U
56-23-5	Carbon tetrachloride	5.0		U
108-90-7	Chlorobenzene	5.0		U
126-99-8	Chloroprene	5.0		U
124-48-1	Dibromochloromethane	5.0		U
96-12-8	1,2-Dibromo-3-chloropropane	10		U
75-00-3	Chloroethane	10		U
110-75-8	2-Chloroethyl vinyl ether	50		U
67-66-3	Chloroform	5.0		U
74-87-3	Chloromethane	10		U
107-05-1	Allyl chloride	10		U
74-95-3	Dibromomethane	5.0		U
110-57-6	trans-1,4-Dichloro-2-butene	5.0		U
75-71-8	Dichlorodifluoromethane	10		U
75-34-3	1,1-Dichloroethane	5.0		U
107-06-2	1,2-Dichloroethane	5.0		U
75-35-4	1,1-Dichloroethene	5.0		U
156-59-2	cis-1,2-Dichloroethene	2.5		U
156-60-5	trans-1,2-Dichloroethene	2.5		U
540-59-0	1,2-Dichloroethene (total)	5.0		U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP014

Matrix: (soil/water) SOLID Lab Sample ID: A0G060000 232
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 06/29/00
Work Order: DFQE4101 Date Extracted: 07/05/00
Dilution factor: 1 Date Analyzed: 07/05/00
Moisture %: NA

QC Batch: 0188232

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
97-63-2	Ethyl methacrylate	5.0	U
75-69-4	Trichlorofluoromethane	10	U
591-78-6	2-Hexanone	20	U
74-88-4	Iodomethane	5.0	U
78-83-1	Isobutyl alcohol	200	U
126-98-7	Methacrylonitrile	5.0	U
75-09-2	Methylene chloride	2.0	J
80-62-6	Methyl methacrylate	5.0	U
107-12-0	Propionitrile	20	U
100-42-5	Styrene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	5.0	U
78-93-3	2-Butanone (MEK)	20	U
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SOLID

Lab Sample ID: AOG060000 232

Method: SWS46 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFQE4101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/05/00

Moisture %: NA

QC Batch: 0188232

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	20		U

FORM I

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G050000

WO #: DFP5H102

BATCH: 0187197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	50	46	93	10 - 273	
Bromomethane	50	68	136	10 - 242	
Vinyl chloride	50	50	101	41 - 138	
Chloroethane	50	68	136*	82 - 114	a
Methylene chloride	50	47	94	10 - 221	
Acetone	50	83	167*	80 - 120	a
Carbon disulfide	50	49	98	81 - 125	
1,1-Dichloroethene	50	50	99	55 - 142	
1,1-Dichloroethane	50	46	93	59 - 155	
1,2-Dichloroethene (total)	100	92	92	50 - 150	
Chloroform	50	46	92	77 - 126	
1,2-Dichloroethane	50	43	87	76 - 127	
2-Butanone (MEK)	50	62	125	20 - 155	
1,1,1-Trichloroethane	50	44	88	52 - 162	
Carbon tetrachloride	50	44	87	66 - 141	
Bromodichloromethane	50	45	90	35 - 155	
1,2-Dichloropropane	50	47	94	10 - 210	
cis-1,3-Dichloropropene	50	46	92	10 - 227	
Trichloroethene	50	51	102	70 - 131	
Dibromochloromethane	50	46	92	53 - 149	
1,1,2-Trichloroethane	50	45	90	52 - 150	
Benzene	50	47	94	75 - 129	
trans-1,3-Dichloropropene	50	44	88	17 - 183	
Bromoform	50	46	93	45 - 169	
4-Methyl-2-pentanone (MIB)	50	44	87*	90 - 125	a
2-Hexanone	50	57	114	87 - 129	
Tetrachloroethene	50	49	98	68 - 136	
1,1,2,2-Tetrachloroethane	50	43	85	46 - 157	
Toluene	50	43	86	71 - 130	
Chlorobenzene	50	48	96	75 - 127	
Ethylbenzene	50	47	93	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G050000

WO #: DFP5H102

BATCH: 0187197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Styrene	50	47	93	79 - 100	
Xylenes (total)	150	140	92	83 - 129	
cis-1,2-Dichloroethene	50	46	93	50 - 150	
trans-1,2-Dichloroethene	50	45	91	54 - 156	
n-Hexane	50	46	93*	98 - 117	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 36 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G060000

WO #: DFOE4102

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Benzene	50	47	94	75 - 129	
trans-1,3-Dichloropropene	50	43	86	17 - 183	
Bromoform	50	50	101	45 - 169	
4-Methyl-2-pentanone (MIB)	50	43	86*	90 - 125	a
2-Hexanone	50	46	92	87 - 129	
Tetrachloroethene	50	50	100	68 - 136	
1,1,2,2-Tetrachloroethane	50	43	86	46 - 157	
Toluene	50	43	85	71 - 130	
Chlorobenzene	50	48	96	75 - 127	
Ethylbenzene	50	48	96	37 - 162	
Styrene	50	46	92	79 - 100	
Xylenes (total)	150	140	93	83 - 129	
cis-1,2-Dichloroethene	50	47	94	50 - 150	
trans-1,2-Dichloroethene	50	46	92	54 - 156	
n-Hexane	50	46	92*	98 - 117	a
Chloromethane	50	46	92	10 - 273	
Bromomethane	50	68	136	10 - 242	
Vinyl chloride	50	48	96	41 - 138	
Chloroethane	50	66	131*	82 - 114	a
Methylene chloride	50	48	95	10 - 221	
Acetone	50	71	143*	80 - 120	a
Carbon disulfide	50	49	98	81 - 125	
1,1-Dichloroethene	50	50	100	55 - 142	
1,1-Dichloroethane	50	47	95	59 - 155	
2-Butanone (MEK)	50	51	101	20 - 155	
1,1,1-Trichloroethane	50	45	91	52 - 162	
Carbon tetrachloride	50	46	92	66 - 141	
1,2-Dichloroethene (total)	100	93	93	50 - 150	
Chloroform	50	47	94	77 - 126	
1,2-Dichloroethane	50	45	90	76 - 127	
Bromodichloromethane	50	47	93	35 - 155	

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SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G060000

WO #: DFQE4102

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	* REC	QC LIMITS REC	QUAL
1,2-Dichloropropane	50	46	92	10 - 210	
cis-1,3-Dichloropropene	50	46	92	10 - 227	
Trichloroethene	50	52	104	70 - 131	
Dibromochloromethane	50	48	96	53 - 149	
1,1,2-Trichloroethane	50	45	91	52 - 150	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QRESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F290203

WO #: DFHA912V

BATCH: 0187197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS ‡ REC	LIMITS REC	QUAL
1,1-Dichloroethene	69	ND	69	100	43 - 147	
Chloromethane	69	ND	64	93	10 - 273	
Bromomethane	69	ND	67	97	10 - 242	
Vinyl chloride	69	ND	69	100	29 - 150	
Chloroethane	69	ND	88	128*	82 - 114	a
Methylene chloride	69	ND	65	95	10 - 221	
Acetone	69	ND	110	153*	80 - 120	a
Carbon disulfide	69	ND	58	82	81 - 125	
1,1-Dichloroethane	69	ND	64	93	33 - 137	
1,2-Dichloroethane (total)	140	ND	130	91	50 - 150	
Chloroform	69	ND	63	92	52 - 140	
1,2-Dichloroethane	69	ND	58	85	44 - 145	
2-Butanone (MEK)	69	ND	78	113	10 - 187	
1,1,1-Trichloroethane	69	ND	59	85	52 - 162	
Carbon tetrachloride	69	ND	53	76	39 - 149	
Bromodichloromethane	69	ND	57	83	35 - 155	
1,2-Dichloropropane	69	ND	62	90	10 - 210	
cis-1,3-Dichloropropene	69	ND	45	65	10 - 227	
Trichloroethene	69	ND	66	95	46 - 143	
Dibromochloromethane	69	ND	61	89	53 - 149	
1,1,2-Trichloroethane	69	ND	66	95	52 - 150	
Benzene	69	ND	63	91	55 - 138	
trans-1,3-Dichloropropene	69	ND	50	72	17 - 183	
Bromoform	69	ND	57	82	45 - 169	
4-Methyl-2-pentanone (MIB)	69	ND	58	85*	90 - 125	a
2-Hexanone	69	ND	73	106	87 - 129	
Tetrachloroethene	69	ND	66	95	39 - 154	
1,1,2,2-Tetrachloroethane	69	ND	74	107	46 - 157	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F290203

WO #: DFHA912V

BATCH: 0187197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS ‡ REC	LIMITS REC	QUAL
Toluene	69	ND	62	91	46 - 147	
Chlorobenzene	69	ND	61	88	49 - 139	
Ethylbenzene	69	ND	59	85	37 - 162	
Styrene	69	ND	53	77*	79 - 110	a
Xylenes (total)	210	ND	170	82*	83 - 129	a
cis-1,2-Dichloroethene	69	ND	64	93	50 - 150	
trans-1,2-Dichloroethene	69	ND	61	89	54 - 156	
n-Hexane	69	ND	50	73	66 - 110	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 5 out of 36 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: AOF290203

WO #: DFHA912W

BATCH: 0187197

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
1,1-Dichloroethene	68	62	92	8.7	27	43 - 147	
Chloromethane	68	59	86	7.1	18	10 - 273	
Bromomethane	68	69	102	4.8	11	10 - 242	
Vinyl chloride	68	63	93	7.8	43	29 - 150	
Chloroethane	68	85	125*	2.4	11	82 - 114	a
Methylene chloride	68	60	88	7.0	22	10 - 221	
Acetone	68	86	126*	19	18	80 - 120	a p
Carbon disulfide	68	53	78*	6.4	19	81 - 125	a
1,1-Dichloroethane	68	58	86	7.6	14	33 - 137	
1,2-Dichloroethene (total)	140	110	84	8.6	50	50 - 150	
Chloroform	68	57	85	8.2	17	52 - 140	
1,2-Dichloroethane	68	54	79	6.3	41	44 - 145	
2-Butanone (MEK)	68	66	98	15	47	10 - 187	
1,1,1-Trichloroethane	68	52	76	11	12	52 - 162	
Carbon tetrachloride	68	48	71	6.8	55	39 - 149	
Bromodichloromethane	68	54	79	4.3	21	35 - 155	
1,2-Dichloropropane	68	56	82	8.7	13	10 - 210	
cis-1,3-Dichloropropene	68	44	66	0.27	14	10 - 227	
Trichloroethene	68	59	86	9.5	23	46 - 143	
Dibromochloromethane	68	52	77	14	16	53 - 149	
1,1,2-Trichloroethane	68	55	82	15	19	52 - 150	
Benzene	68	58	85	6.5	20	55 - 138	
trans-1,3-Dichloropropene	68	44	66	8.9	14	17 - 183	
Bromoform	68	50	74	11	22	45 - 169	
4-Methyl-2-pentanone (MIB)	68	51	75*	12	12	90 - 125	a
2-Hexanone	68	59	88	19	17	87 - 129	p
Tetrachloroethene	68	51	76	23	22	39 - 154	p
1,1,2,2-Tetrachloroethane	68	50	74	37	24	46 - 157	p

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F290203

WO #: DFHAS12W

BATCH: 0187197

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
Toluene	68	51	75	19	24	46 - 147	
Chlorobenzene	68	51	75	16	22	49 - 139	
Ethylbenzene	68	49	73	16	14	37 - 162	p
Styrene	68	46	67*	14	10	79 - 110	a p
Xylenes (total)	200	140	71*	15	10	83 - 129	a p
cis-1,2-Dichloroethene	68	57	84	10	50	50 - 150	
trans-1,2-Dichloroethene	68	56	83	6.7	10	54 - 156	
n-Hexane	68	45	67	8.8	20	66 - 110	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 7 out of 36 outside limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF12X

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS ‡ REC	LIMITS REC	QUAL
1,1-Dichloroethene	53	ND	56	106	43 - 147	
Chloromethane	53	ND	46	87	10 - 273	
Bromomethane	53	ND	66	124	10 - 242	
Vinyl chloride	53	ND	51	96	29 - 150	
Chloroethane	53	ND	67	127*	82 - 114	a
Methylene chloride	53	ND	50	91	10 - 221	
Acetone	53	3.2	69	124*	80 - 120	a
Carbon disulfide	53	ND	52	97	81 - 125	
1,1-Dichloroethane	53	ND	48	90	33 - 137	
1,2-Dichloroethene (total)	110	ND	98	92	50 - 150	
Chloroform	53	ND	49	92	52 - 140	
1,2-Dichloroethane	53	ND	45	85	44 - 145	
2-Butanone (MEK)	53	ND	49	92	10 - 187	
1,1,1-Trichloroethane	53	ND	48	90	52 - 162	
Carbon tetrachloride	53	ND	48	90	39 - 149	
Bromodichloromethane	53	ND	48	91	35 - 155	
1,2-Dichloropropane	53	ND	45	86	10 - 210	
cis-1,3-Dichloropropene	53	ND	46	86	10 - 227	
Trichloroethene	53	ND	54	101	46 - 143	
Dibromochloromethane	53	ND	48	90	53 - 149	
1,1,2-Trichloroethane	53	ND	47	88	52 - 150	
Benzene	53	ND	49	92	55 - 138	
trans-1,3-Dichloropropene	53	ND	45	84	17 - 183	
Bromoform	53	ND	46	87	45 - 169	
4-Methyl-2-pentanone (MIB)	53	ND	43	81*	90 - 125	a
2-Hexanone	53	ND	48	89	87 - 129	
Tetrachloroethene	53	ND	53	100	39 - 154	
1,1,2,2-Tetrachloroethane	53	ND	50	94	46 - 157	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF12X

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS * REC	LIMITS REC	QUAL
Toluene	53	ND	48	90	46 - 147	
Chlorobenzene	53	ND	49	92	49 - 139	
Ethylbenzene	53	ND	49	92	37 - 162	
Styrene	53	ND	46	87	79 - 110	
Xylenes (total)	160	ND	140	90	83 - 129	
cis-1,2-Dichloroethene	53	ND	50	93	50 - 150	
trans-1,2-Dichloroethene	53	ND	48	91	54 - 156	
n-Hexane	53	ND	40	74	66 - 110	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 3 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF130

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS		QUAL	
			‡ REC	‡ RPD	RPD	REC		
Chloroethane	45	49	110	14	*	11	82 - 114	p
Methylene chloride	45	40	86	5.2		22	10 - 221	
Acetone	45	65	137*	10		18	80 - 120	a
Carbon disulfide	45	40	88	9.4		19	81 - 125	
1,1-Dichloroethane	45	38	84	7.4		14	33 - 137	
1,2-Dichloroethene (total)	90	76	84	9.0		50	50 - 150	
Chloroform	45	39	86	7.1		17	52 - 140	
1,2-Dichloroethane	45	38	84	0.87		41	44 - 145	
2-Butanone (MEK)	45	46	102	11		47	10 - 187	
1,1,1-Trichloroethane	45	38	85	5.5		12	52 - 162	
Carbon tetrachloride	45	37	82	9.4		55	39 - 149	
Bromodichloromethane	45	38	85	6.4		21	35 - 155	
1,2-Dichloropropane	45	37	82	4.7		13	10 - 210	
cis-1,3-Dichloropropene	45	37	83	3.7		14	10 - 227	
Trichloroethene	45	42	94	6.7		23	46 - 143	
Dibromochloromethane	45	41	90	0.050		16	53 - 149	
1,1,2-Trichloroethane	45	40	89	0.95		19	52 - 150	
Benzene	45	38	85	7.8		20	55 - 138	
trans-1,3-Dichloropropene	45	37	82	2.7		14	17 - 183	
Bromoform	45	42	93	7.2		22	45 - 169	
4-Methyl-2-pentanone (MIB)	45	39	87*	7.3		12	90 - 125	a
2-Hexanone	45	44	98	9.5		17	87 - 129	
Tetrachloroethene	45	42	94	6.6		22	39 - 154	
1,1,2,2-Tetrachloroethane	45	42	94	0.30		24	46 - 157	
Toluene	45	38	83	7.9		24	46 - 147	
Chlorobenzene	45	41	91	1.5		22	49 - 139	
Ethylbenzene	45	39	87	5.8		14	37 - 162	
Styrene	45	38	84	3.1		10	79 - 110	

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SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF130

BATCH: 0188232

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			‡ REC	‡ RPD	RPD	REC	
Xylenes (total)	140	120	85	5.7	10	83 - 129	
cis-1,2-Dichloroethene	45	39	86	8.7	50	50 - 150	
trans-1,2-Dichloroethene	45	37	83	9.3	10	54 - 156	
n-Hexane	45	33	73	1.3	20	66 - 110	
1,1-Dichloroethene	45	42	94	12	27	43 - 147	
Chloromethane	45	36	81	7.1	18	10 - 273	
Bromomethane	45	53	118	5.3	11	10 - 242	
Vinyl chloride	45	39	86	11	43	29 - 150	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 36 outside limits

Spike Recovery: 2 out of 36 outside limits

COMMENTS:

FORM III

CLIENT CTO 091 NS Mayport		JOB NUMBER 0123	
SUBJECT Volatile		MPT-64-SU-01-07	
BASED ON Methylene Chloride		DRAWING NUMBER	
BY JW	CHECKED BY	APPROVED BY	DATE 9-25-06

$$\begin{aligned}
 & \frac{(\text{Area})(\text{Conc. IS})(\text{DF})}{(\text{Area IS})(\overline{\text{RRF}}_{\text{IC}})(\text{Sample Ext})(\%S)} \\
 & = \frac{(5319)(250_{\text{ng}})(1.22)}{(816796)(0.21986)(5_{\text{g}})(0.70)} \\
 & = 2.58 \text{ ng/kg}
 \end{aligned}$$

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFL4J102

Date Extracted: 07/04/00

Dilution factor: 1.22

Date Analyzed: 07/04/00

Moisture ‡:30

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-01-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	35		U
75-05-8	Acetonitrile	170		U
107-02-8	Acrolein	170		U
107-13-1	Acrylonitrile	170		U
71-43-2	Benzene	8.7		U
75-27-4	Bromodichloromethane	8.7		U
75-25-2	Bromoform	8.7		U
74-83-9	Bromomethane	17		U
75-15-0	Carbon disulfide	8.7		U
56-23-5	Carbon tetrachloride	8.7		U
108-90-7	Chlorobenzene	8.7		U
126-99-8	Chloroprene	8.7		U
124-48-1	Dibromochloromethane	8.7		U
96-12-8	1,2-Dibromo-3-chloropropane	17		U
75-00-3	Chloroethane	17		U
110-75-8	2-Chloroethyl vinyl ether	87		U
67-66-3	Chloroform	8.7		U
74-87-3	Chloromethane	17		U
107-05-1	Allyl chloride	17		U
74-95-3	Dibromomethane	8.7		U
110-57-6	trans-1,4-Dichloro-2-butene	8.7		U
75-71-8	Dichlorodifluoromethane	17		U
75-34-3	1,1-Dichloroethane	8.7		U
107-06-2	1,2-Dichloroethane	8.7		U
75-35-4	1,1-Dichloroethene	8.7		U
156-59-2	cis-1,2-Dichloroethene	4.3		U
156-60-5	trans-1,2-Dichloroethene	4.3		U
540-59-0	1,2-Dichloroethene (total)	8.7		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFL4J102

Date Extracted: 07/04/00

Dilution factor: 1.22

Date Analyzed: 07/04/00

Moisture %: 30

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-01-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	8.7	U
10061-01-5	cis-1,3-Dichloropropene	8.7	U
10061-02-6	trans-1,3-Dichloropropene	8.7	U
100-41-4	Ethylbenzene	8.7	U
97-63-2	Ethyl methacrylate	8.7	U
75-69-4	Trichlorofluoromethane	17	U
591-78-6	2-Hexanone	35	U
74-88-4	Iodomethane	8.7	U
78-83-1	Isobutyl alcohol	350	U
126-98-7	Methacrylonitrile	8.7	U
75-09-2	Methylene chloride	2.6	J
80-62-6	Methyl methacrylate	8.7	U
107-12-0	Propionitrile	35	U
100-42-5	Styrene	8.7	U
630-20-6	1,1,1,2-Tetrachloroethane	8.7	U
79-34-5	1,1,2,2-Tetrachloroethane	8.7	U
127-18-4	Tetrachloroethene	8.7	U
108-88-3	Toluene	8.7	U
71-55-6	1,1,1-Trichloroethane	8.7	U
79-00-5	1,1,2-Trichloroethane	8.7	U
79-01-6	Trichloroethene	8.7	U
96-18-4	1,2,3-Trichloropropane	8.7	U
108-05-4	Vinyl acetate	17	U
75-01-4	Vinyl chloride	17	U
1330-20-7	Xylenes (total)	8.7	U
106-93-4	1,2-Dibromoethane (EDB)	8.7	U
78-93-3	2-Butanone (MEK)	35	U
108-10-1	4-Methyl-2-pentanone (MIBK)	35	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/28/00

Work Order: DFL4J102

Date Extracted: 07/04/00

Dilution factor: 1.22

Date Analyzed: 07/04/00

Moisture %: 30

QC Batch: 0187197

Client Sample Id: MPT-G4-SU-01-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	35	U

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/KG)
15 Acetone	43				Compound Not Detected.		
54 Freon-113	151				Compound Not Detected.		
56 Iodomethane	142				Compound Not Detected.		
18 Carbon Disulfide	76				Compound Not Detected.		
55 Acetonitrile	41				Compound Not Detected.		
17 Methylene Chloride	84	3.334	3.333	(0.626)	5319	7.40480	1.815
19 Acrylonitrile	53				Compound Not Detected.		
78 Methyl tert-butyl ether	73				Compound Not Detected.		
84 Hexane	57				Compound Not Detected.		
21 Vinyl acetate	43				Compound Not Detected.		
22 1,1-Dichloroethane	63				Compound Not Detected.		
23 2-Butanone	43				Compound Not Detected.		
20 trans-1,2-Dichloroethene	96				Compound Not Detected.		
24 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 25 1,2-Dichloroethene (total)	96				Compound Not Detected.		
86 2,2-Dichloropropane	77				Compound Not Detected.		
111 Bromochloromethane	128				Compound Not Detected.		
79 Tetrahydrofuran	42				Compound Not Detected.		
26 Chloroform	83				Compound Not Detected.		
27 1,1,1-Trichloroethane	97				Compound Not Detected.		
87 1,1-Dichloropropene	75				Compound Not Detected.		
28 Carbon Tetrachloride	117				Compound Not Detected.		
29 1,2-Dichloroethane	62				Compound Not Detected.		
30 Benzene	78				Compound Not Detected.		
31 Trichloroethene	130				Compound Not Detected.		
32 1,2-Dichloropropane	63				Compound Not Detected.		
63 1,4-Dioxane	88				Compound Not Detected.		
64 Dibromomethane	93				Compound Not Detected.		
33 Bromodichloromethane	83				Compound Not Detected.		
34 2-Chloroethyl vinyl ether	63				Compound Not Detected.		
36 cis-1,3-Dichloropropene	75				Compound Not Detected.		
35 4-Methyl-2-pentanone	43				Compound Not Detected.		
37 Toluene	91				Compound Not Detected.		
38 trans-1,3-Dichloropropene	75				Compound Not Detected.		
65 Ethyl Methacrylate	69				Compound Not Detected.		
40 1,1,2-Trichloroethane	97				Compound Not Detected.		
88 1,3-Dichloropropane	76				Compound Not Detected.		
41 Tetrachloroethene	164				Compound Not Detected.		
39 2-Hexanone	43				Compound Not Detected.		
42 Dibromochloromethane	129				Compound Not Detected.		
66 1,2-Dibromoethane	107				Compound Not Detected.		
43 Chlorobenzene	112				Compound Not Detected.		
44 Ethylbenzene	106				Compound Not Detected.		
45 m + p-Xylene	106				Compound Not Detected.		
46 Xylene-o	106				Compound Not Detected.		
M 47 Xylenes (total)	106				Compound Not Detected.		
48 Styrene	104				Compound Not Detected.		

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3ux9.i/N00704A.b/ux93316.d
 Lab Smp Id: DFL4J102 Client Smp ID: MPT-G4-SU-07
 Inj Date : 04-JUL-2000 17:11
 Operator : 01819 Inst ID: a3ux9.i
 Smp Info : DFL4J102,,4.08G/5ML
 Misc Info : UX9,N00701A,N8260SUX9,01819
 Comment :
 Method : /chem/can/msv/a3ux9.i/N00704A.b/N8260SUX9-3.m
 Meth Date : 05-Jul-2000 10:53 kardohes Quant Type: ISTD
 Cal Date : 28-JUN-2000 08:30 Cal File: ux93154.d
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+A9+.sub
 Target Version: 3.50
 Processing Host: hpuxcs3

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	4.08000	Sample Volume
Va	100.00000	Amount of extract

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene		96	5.322	5.321	(1.000)	816796	250.000	
* 2 Chlorobenzene-d5		117	7.997	7.995	(1.000)	609905	250.000	
* 3 1,4-Dichlorobenzene-d4		152	10.233	10.232	(1.000)	293377	250.000	
\$ 4 1,2-Dichloroethane-d4		65	5.050	5.037	(0.949)	182475	253.771	62.199
\$ 5 Toluene-d8		98	6.683	6.682	(0.836)	762102	291.526	71.452
\$ 6 Bromofluorobenzene		95	9.097	9.096	(1.138)	270258	272.444	66.775
\$ 7 Dibromofluoromethane		113	4.766	4.753	(0.896)	161259	292.773	71.758
8 Dichlorodifluoromethane		85	Compound Not Detected.					
9 Chloromethane		50	Compound Not Detected.					
10 Vinyl Chloride		62	Compound Not Detected.					
11 Bromomethane		94	Compound Not Detected.					
12 Chloroethane		64	Compound Not Detected.					
13 Trichlorofluoromethane		101	Compound Not Detected.					
14 Acrolein		56	Compound Not Detected.					
16 1,1-Dichloroethene		96	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/KG)
49 Bromoform	173				Compound Not Detected.		
89 Isopropylbenzene	105				Compound Not Detected.		
50 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
90 Bromobenzene	156				Compound Not Detected.		
68 1,2,3-Trichloropropane	75				Compound Not Detected.		
69 1,4-Dichloro-2-butene	53				Compound Not Detected.		
92 n-Propylbenzene	120				Compound Not Detected.		
91 2-Chlorotoluene	126				Compound Not Detected.		
94 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
93 4-Chlorotoluene	126				Compound Not Detected.		
95 tert-Butylbenzene	119				Compound Not Detected.		
96 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
97 sec-Butylbenzene	105				Compound Not Detected.		
51 1,3-Dichlorobenzene	146				Compound Not Detected.		
52 1,4-Dichlorobenzene	146				Compound Not Detected.		
53 1,2-Dichlorobenzene	146				Compound Not Detected.		
98 4-Isopropyltoluene	119				Compound Not Detected.		
99 n-Butylbenzene	91				Compound Not Detected.		
100 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
102 Hexachlorobutadiene	225				Compound Not Detected.		
101 Naphthalene	128				Compound Not Detected.		
103 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
82 tert-Butyl Alcohol	59				Compound Not Detected.		
57 3-Chloropropene	76				Compound Not Detected.		
58 2-Chloro-1,3-butadiene	53				Compound Not Detected.		
59 Propionitrile	54				Compound Not Detected.		
60 Methacrylonitrile	41				Compound Not Detected.		
61 Isobutanol	41				Compound Not Detected.		
62 Methyl Methacrylate	41				Compound Not Detected.		
67 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
72 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.		
74 n-Butanol	56				Compound Not Detected.		
75 Ethyl Acetate	43				Compound Not Detected.		
76 Cyclohexanone	55				Compound Not Detected.		
77 Ethyl Ether	59				Compound Not Detected.		
80 Dichlorofluoromethane	67				Compound Not Detected.		
81 2-Nitropropane	41				Compound Not Detected.		
85 Isopropyl Ether	87				Compound Not Detected.		
138 Methyl Acetate	43				Compound Not Detected.		
139 Methylcyclohexane	83				Compound Not Detected.		
83 Cyclohexane	56				Compound Not Detected.		
137 1,3,5-Trichlorobenzene	180				Compound Not Detected.		
110 3,3,5-Trimethylcyclohexanone	83				Compound Not Detected.		

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux9.i/N00628A.b/ux93156.d
 Level 2: /chem/can/msv/a3ux9.i/N00628A.b/ux93155.d
 Level 3: /chem/can/msv/a3ux9.i/N00628A.b/ux93154.d
 Level 4: /chem/can/msv/a3ux9.i/N00628A.b/ux93153.d
 Level 5: /chem/can/msv/a3ux9.i/N00628A.b/ux93152.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.07864	0.09830	0.10897	0.10800	0.10891	0.10057	12.978
9 Chloromethane	0.32706	0.33354	0.33788	0.33882	0.33351	0.33416	1.393
10 Vinyl Chloride	0.22064	0.23157	0.24113	0.23584	0.23124	0.23208	3.252
11 Bromomethane	0.10009	0.08949	0.07487	0.05596	0.04982	0.07405	28.895
12 Chloroethane	0.12920	0.12376	0.10666	0.07759	0.06321	0.10008	28.773
13 Trichlorofluoromethane	0.19273	0.21057	0.21870	0.20975	0.17552	0.20146	8.591
14 Acrolein	0.03865	0.03776	0.03681	0.03603	0.03360	0.03657	5.280
15 Acetone	0.16808	0.13135	0.12082	0.11672	0.13411	0.13422	15.091
16 1,1-Dichloroethene	0.17468	0.16902	0.18015	0.17611	0.17778	0.17555	2.380
17 Methylene Chloride	0.25318	0.21504	0.21403	0.20981	0.20724	0.21986	8.593
18 Carbon Disulfide	0.60137	0.56446	0.60115	0.60069	0.60237	0.59401	2.783
19 Acrylonitrile	0.15005	0.14885	0.14505	0.14374	0.16348	0.15023	5.224
20 trans-1,2-Dichloroethene	0.21494	0.20350	0.21075	0.20910	0.20219	0.20810	2.531
21 Vinyl acetate	0.65049	0.68327	0.67342	0.68893	0.73617	0.68646	4.578
22 1,1-Dichloroethane	0.45761	0.44011	0.45045	0.44749	0.43969	0.44707	1.680
23 2-Butanone	0.23383	0.22991	0.21528	0.21182	0.25282	0.22873	7.166
24 cis-1,2-dichloroethene	0.23283	0.22160	0.22400	0.21560	0.21349	0.22150	3.450
M 25 1,2-Dichloroethene (total)	0.22389	0.21255	0.21738	0.21235	0.20784	0.21480	2.839
26 Chloroform	0.32608	0.31315	0.32158	0.31308	0.31263	0.31730	1.944
27 1,1,1-Trichloroethane	0.25913	0.24314	0.25725	0.26262	0.26108	0.25664	3.046
28 Carbon Tetrachloride	0.20785	0.21038	0.22609	0.22796	0.23182	0.22082	4.946
29 1,2-Dichloroethane	0.33635	0.32546	0.32748	0.31874	0.32251	0.32611	2.024
30 Benzene	0.93459	0.86517	0.91778	0.89237	0.86668	0.89532	3.436
31 Trichloroethene	0.22072	0.21165	0.22141	0.22248	0.22253	0.21976	2.090
32 1,2-Dichloropropane	0.26994	0.27334	0.27753	0.27126	0.26342	0.27110	1.905
33 Bromodichloromethane	0.22863	0.21931	0.23511	0.23578	0.23884	0.23154	3.360

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
34 2-Chloroethyl vinyl ether	0.14000	0.15257	0.15439	0.15680	0.16887	0.15453	6.677
35 4-Methyl-2-pentanone	0.35652	0.38552	0.38096	0.37767	0.45063	0.39026	9.106
36 cis-1,3-Dichloropropene	0.34051	0.33931	0.35554	0.34927	0.35451	0.34783	2.191
37 Toluene	1.37785	1.32397	1.32515	1.30843	1.28225	1.32353	2.641
38 trans-1,3-Dichloropropene	0.37454	0.41946	0.42192	0.42882	0.43666	0.41628	5.830
39 2-Hexanone	0.32991	0.38341	0.37151	0.37064	0.44979	0.38105	11.397
40 1,1,2-Trichloroethane	0.25022	0.25232	0.25008	0.24177	0.24711	0.24830	1.650
41 Tetrachloroethane	0.21502	0.21350	0.21545	0.20981	0.20703	0.21216	1.711
42 Dibromochloromethane	0.21000	0.22594	0.22941	0.23992	0.25354	0.23176	7.003
43 Chlorobenzene	0.90840	0.89916	0.90650	0.89895	0.88064	0.89873	1.221
44 Ethylbenzene	0.50866	0.50210	0.50361	0.49807	0.48794	0.50007	1.554
45 m + p-Xylene	0.70441	0.62371	0.62580	0.60655	0.59118	0.63033	6.938
46 Xylene-o	0.62480	0.60135	0.60142	0.59168	0.57664	0.59918	2.927
M 47 Xylenes (total)	0.67788	0.61626	0.61767	0.60160	0.58633	0.61995	5.612
48 Styrene	0.97363	0.98457	1.02371	1.01539	0.99724	0.99891	2.084
49 Bromoform	0.10455	0.12139	0.12652	0.12925	0.14945	0.12623	12.785
50 1,1,2,2-Tetrachloroethane	0.70209	0.70675	0.72312	0.69135	0.75306	0.71527	3.359
51 1,3-Dichlorobenzene	1.41018	1.27161	1.32482	1.29781	1.27219	1.31532	4.362
52 1,4-Dichlorobenzene	1.52027	1.29485	1.35301	1.30516	1.32659	1.35998	6.790
53 1,2-Dichlorobenzene	1.38961	1.22303	1.27608	1.22466	1.25687	1.27405	5.366
54 Freon-113	0.12569	0.13091	0.12833	0.14180	0.13924	0.13319	5.253
55 Acetonitrile	0.04712	0.04969	0.04716	0.04757	0.05362	0.04903	5.656
56 Iodomethane	0.28187	0.28642	0.29312	0.29073	0.29397	0.28922	1.746
57 3-Chloropropene	0.10737	0.11156	0.10975	0.11360	0.11383	0.11122	2.443
58 2-Chloro-1,3-butadiene	0.54219	0.57641	0.58472	0.59927	0.60446	0.58141	4.235
59 Propionitrile	0.05785	0.06249	0.06022	0.06410	0.06843	0.06262	6.411
60 Methacrylonitrile	0.27041	0.27031	0.26853	0.27736	0.29071	0.27546	3.328
61 Isobutanol	0.01377	0.01547	0.01539	0.01718	0.01867	0.01610	11.671
62 Methyl Methacrylate	0.35113	0.37764	0.36957	0.40172	0.41617	0.38325	6.748
63 1,4-Dioxane	0.00233	0.00266	0.00252	0.00255	0.00301	0.00261	9.507 <-
64 Dibromomethane	0.10516	0.10875	0.10781	0.10604	0.11037	0.10762	1.940
65 Ethyl Methacrylate	0.35238	0.41188	0.41150	0.41518	0.44144	0.40648	8.047
66 1,2-Dibromoethane	0.25278	0.26364	0.26098	0.25517	0.26882	0.26028	2.483

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	% RSD	
	Level 1	Level 2	Level 3	Level 4	Level 5			
67 1,1,1,2-Tetrachloroethane	0.25163	0.25911	0.25735	0.27604	0.27573	0.26397	4.251	
68 1,2,3-Trichloropropane	0.91820	0.91981	0.92649	0.93333	1.01468	0.94250	4.328	
69 1,4-Dichloro-2-butene	0.35431	0.32830	0.34362	0.34440	0.39274	0.35267	6.877	
70 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++	<-
71 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++	<-
72 1,2-Dibromo-3-chloropropane	0.11816	0.12669	0.13137	0.14551	0.15803	0.13595	11.644	
73 Ethanol	++++	++++	++++	++++	++++	++++	++++	<-
74 n-Butanol	0.01003	0.01178	0.01237	0.01403	0.01565	0.01277	16.847	
75 Ethyl Acetate	0.45322	0.46028	0.44671	0.48155	0.51368	0.47109	5.768	
76 Cyclohexanone	0.03840	0.04242	0.04219	0.04690	0.05108	0.04420	11.048	
77 Ethyl Ether	0.30300	0.30790	0.29616	0.30911	0.30462	0.30416	1.676	
78 Methyl tert-butyl ether	0.61204	0.61383	0.60971	0.59847	0.61837	0.61048	1.217	
79 Tetrahydrofuran	0.12657	0.13399	0.12317	0.12351	0.15048	0.13154	8.700	
80 Dichlorofluoromethane	0.30350	0.33178	0.34464	0.35176	0.34647	0.33563	5.781	
81 2-Nitropropane	0.05959	0.06270	0.06506	0.07554	0.08696	0.06997	16.048	
82 tert-Butyl Alcohol	0.03457	0.03676	0.03362	0.03511	0.04619	0.03725	13.754	
83 Cyclohexane	0.58184	0.57686	0.60907	0.61006	0.60764	0.59709	2.732	
84 Hexane	0.40601	0.40452	0.41043	0.41587	0.41801	0.41097	1.440	
85 Isopropyl Ether	1.02365	1.04444	1.02170	1.02356	0.99063	1.02080	1.888	
86 2,2-Dichloropropane	0.23895	0.23696	0.24692	0.25215	0.25384	0.24577	3.094	
87 1,1-Dichloropropene	0.28213	0.25980	0.27436	0.27468	0.26712	0.27162	3.120	
88 1,3-Dichloropropane	0.49001	0.47240	0.46910	0.45217	0.45387	0.46751	3.304	
89 Isopropylbenzene	1.46001	1.46603	1.48430	1.48753	1.48973	1.47752	0.917	
90 Bromobenzene	0.72693	0.64993	0.66206	0.65774	0.64817	0.66897	4.917	
91 2-Chlorotoluene	0.76148	0.71478	0.76515	0.75965	0.73835	0.74788	2.843	
92 n-Propylbenzene	0.99489	0.88612	0.93604	0.94278	0.92569	0.93711	4.168	
93 4-Chlorotoluene	0.82326	0.73514	0.78221	0.76269	0.76550	0.77376	4.190	
94 1,3,5-Trimethylbenzene	2.76974	2.56874	2.75693	2.75113	2.70005	2.70932	3.061	
95 tert-Butylbenzene	2.57860	2.39281	2.43554	2.48104	2.69802	2.51720	4.862	
96 1,2,4-Trimethylbenzene	2.70360	2.64162	2.77348	2.79111	2.76021	2.73400	2.237	
97 sec-Butylbenzene	3.55814	3.25752	3.57861	3.50951	3.49468	3.47969	3.703	
98 4-Isopropyltoluene	2.91014	2.70727	2.87396	2.88384	2.85876	2.84679	2.817	
99 n-Butylbenzene	2.38998	2.39648	2.54283	2.56823	2.56242	2.49199	3.639	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	0.80861	0.80220	0.79085	0.79327	0.83119	0.80523	2.007
101 Naphthalene	2.39095	2.38793	2.37756	2.24658	2.47650	2.37590	3.472
102 Hexachlorobutadiene	0.34898	0.35341	0.36856	0.36435	0.36704	0.36047	2.425
103 1,2,3-Trichlorobenzene	0.76773	0.77271	0.75454	0.72372	0.74977	0.75369	2.546
104 Isopropyl Alcohol	++++	++++	++++	++++	++++	++++	++++ <-
105 N-Propanol	++++	++++	++++	++++	++++	++++	++++ <-
106 Isopropyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
107 N-Propyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
108 N-Butyl acetate	++++	++++	++++	++++	++++	++++	++++ <-
109 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++ <-
110 3,3,5-Trimethylcyclohexanone	0.16209	0.18263	0.15887	0.18542	0.17131	0.17206	6.901
111 Bromochloromethane	0.09967	0.10235	0.10668	0.10266	0.10494	0.10326	2.589
112 Paraldehyde	++++	++++	++++	++++	++++	++++	++++ <-
135 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++ <-
136 Chloropicrin	++++	++++	++++	++++	++++	++++	++++ <-
137 1,3,5-Trichlorobenzene	0.92817	0.88722	0.91437	0.88668	0.92518	0.90832	2.221
138 Methyl Acetate	0.35838	0.36233	0.35243	0.35115	0.41015	0.36689	6.706
139 Methylcyclohexane	0.41323	0.39833	0.41412	0.40945	0.40945	0.40891	1.539
\$ 4 1,2-Dichloroethane-d4	0.21710	0.21893	0.21845	0.21262	0.23332	0.22008	3.547
\$ 5 Toluene-d8	1.08815	1.06991	1.08222	1.07088	1.04660	1.07155	1.487
\$ 6 Bromofluorobenzene	0.41703	0.40687	0.40896	0.39835	0.40185	0.40661	1.761
\$ 7 Dibromofluoromethane	0.16532	0.16485	0.16904	0.17258	0.17113	0.16859	2.040

SDG NARRATIVE
MP014

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

Recoveries of 2,4-Dinitrotoluene were out high in the method spike. Since there were no hits detected in any of the associated samples, no corrective action was necessary.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 6DF0706D

DFTPP Injection Date: 07/06/00

Instrument ID: A4HP6

DFTPP Injection Time: 0744

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.8
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Mass 69 relative abundance	78.4
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	4.7
441	Present, but less than mass 443	7.3
442	Greater than 40.0% of mass 198	48.6
443	17.0 - 23.0% of mass 442	9.3 (19.1)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0706	07/06/00	0802
02	SSTD004	SSTD004	6SL0706	07/06/00	0901
03	SSTD010	SSTD010	6SML0706	07/06/00	0939
04	SSTD024	SSTD024	6SMH0706	07/06/00	1017
05	SSTD032	SSTD032	6SH0706	07/06/00	1054
06	SSTD040	SSTD040	6SHH0706	07/06/00	1132
07					
08					
09					
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22					

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 6DF0708D

DFTPP Injection Date: 07/08/00

Instrument ID: A4HP6

DFTPP Injection Time: 1943

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	66.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	52.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	6.3
442	Greater than 40.0% of mass 198	42.4
443	17.0 - 23.0% of mass 442	8.2 (19.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD004	ASTD004	6AL0708	07/08/00	2001
02	ASTD010	ASTD010	6AML0708	07/08/00	2038
03	ASTD016	ASTD016	6AM0708	07/08/00	2116
04	ASTD024	ASTD024	6AMH0708	07/08/00	2153
05	ASTD032	ASTD032	6AH0708	07/08/00	2230
06	ASTD040	ASTD040	6AHH0708	07/08/00	2308
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AL0708.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AML0708.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AM0708.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AMH0708.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AH0708.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AHH0708.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.64659	0.79016	0.75239	0.82999	0.86209	1.05669	0.82298	16.605
7 N-Nitrosomorpholine	1.19769	1.10715	1.24748	1.20768	1.22338	1.27820	1.21026	4.814
8 Ethyl methanesulfonate	2.04468	1.88761	2.07854	2.04831	2.02054	2.05882	2.02308	3.411
9 Pyridine	1.59151	1.84119	2.05722	1.70961	1.84064	1.94952	1.83162	9.054
10 N-Nitrosodimethylamine	1.45459	1.56024	1.58897	1.50257	1.63662	1.59917	1.55703	4.318
11 Ethyl methacrylate	1.90349	2.43027	2.04420	1.71958	2.22416	2.26260	2.09738	12.384
12 3-Chloropropionitrile	0.82784	0.93586	0.93627	0.89338	0.91595	0.87513	0.89741	4.644
13 Malononitrile	2.24459	2.30399	2.20850	2.18657	2.22916	2.09215	2.21083	3.188
14 2-Picoline	2.01979	2.04954	2.25732	2.43586	2.38600	2.61161	2.29335	10.053
15 N-Nitrosomethylethylamine	0.99413	0.98039	1.11086	0.99170	1.08530	0.87913	1.00692	8.235
16 Methyl methanesulfonate	1.96267	1.77509	1.81597	1.88888	1.82508	1.86175	1.85491	3.542
18 1,3-Dichloro-2-propanol	2.66466	2.62030	2.79011	2.89982	2.80207	2.89753	2.77908	4.183
19 N-Nitrosodiethylamine	0.91567	0.86228	0.95091	0.96413	0.94465	0.95615	0.93230	4.087
21 Aniline	2.88276	3.05380	3.08148	3.12588	3.28019	3.10523	3.08655	4.132
22 Phenol	2.69855	2.74194	2.73872	2.72707	2.89400	2.72332	2.75393	2.553
23 bis(2-Chloroethyl)ether	1.89760	1.88616	1.86573	1.86170	1.96770	1.84552	1.88740	2.302
24 2-Chlorophenol	1.27223	1.30509	1.27882	1.31895	1.40979	1.32802	1.31882	3.764
25 Pentachloroethane	0.60161	0.61821	0.65141	0.69641	0.69641	0.75371	0.66963	8.476
26 1,3-Dichlorobenzene	1.48782	1.52837	1.48077	1.54198	1.63383	1.59709	1.54498	3.914
27 1,4-Dichlorobenzene	1.47785	1.55826	1.51905	1.53218	1.65041	1.61378	1.55859	4.084
28 1,2-Dichlorobenzene	1.34420	1.40197	1.40313	1.42624	1.55797	1.52036	1.44231	5.591
29 Benzyl Alcohol	1.07521	1.12748	1.19118	1.24466	1.40474	1.29841	1.22361	9.750
30 2-Methylphenol	1.48040	1.58582	1.55740	1.60837	1.70750	1.57665	1.58602	4.661
31 bis(2-Chloroisopropyl)ether	1.43727	1.43955	1.52058	1.36365	1.41737	1.29505	1.41224	5.414
32 N-Nitroso-di-n-propylamine	2.00722	1.95264	2.06072	1.89014	1.98593	1.81254	1.95153	4.543

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	3.05502	3.24135	3.28378	3.42218	3.76637	3.49458	3.37721	7.232
192 4-Methylphenol	1.57463	1.65553	1.72637	1.81381	2.05887	1.91793	1.79119	9.916
193 3-Methylphenol	1.79455	1.75115	1.97844	1.91840	2.00698	2.04472	1.91571	6.206
34 Hexachloroethane	0.73140	0.76096	0.77432	0.74510	0.79217	0.76973	0.76228	2.841
35 Nitrobenzene	0.79718	0.79699	0.81044	0.76976	0.81537	0.80421	0.79899	2.009
36 N-Nitrosopyrrolidine	0.89305	0.85119	0.96199	0.92735	0.93331	0.95873	0.92094	4.594
37 Acetophenone	2.66019	2.50343	2.82974	2.84495	2.84581	2.92026	2.76739	5.612
39 o-Toluidine	2.84006	2.63085	2.97870	3.09241	3.17816	3.25524	2.99590	7.723
40 N-Nitrosopiperidine	0.19718	0.20790	0.21785	0.22278	0.21994	0.22693	0.21543	5.094
41 Isophorone	1.28863	1.27657	1.37284	1.26168	1.34070	1.27643	1.30281	3.366
42 2-Nitrophenol	0.16609	0.17591	0.17350	0.18711	0.21313	0.20993	0.18761	10.523
43 2,4-Dimethylphenol	0.48970	0.50744	0.52001	0.51208	0.56245	0.54490	0.52276	5.072
44 bis(2-Chloroethoxy)methane	0.65297	0.65835	0.64051	0.66000	0.71871	0.68779	0.66972	4.268
45 O,O,O-Triethyl phosphorothioa	0.22004	0.22576	0.24799	0.25934	0.26635	0.27869	0.24970	9.247
46 2,4-Toluenediamena	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.38071	0.38705	0.38992	0.39574	0.45436	0.46258	0.41173	8.895
48 2,4-Dichlorophenol	0.29988	0.31450	0.31754	0.32464	0.35941	0.35063	0.32777	6.947
49 Benzoic Acid	+++++	0.07375	0.12265	0.12511	0.13112	0.12407	0.11534	20.350 <-
50 1,2,4-Trichlorobenzene	0.34252	0.35095	0.36332	0.36390	0.40365	0.40175	0.37102	6.961
51 Naphthalene	1.03898	1.06586	1.07747	1.09049	1.21424	1.19054	1.11293	6.446
52 4-Chloroaniline	0.38579	0.42000	0.42123	0.44167	0.49381	0.47538	0.43965	9.007
53 a,a-Dimethyl-phenethylamine	0.44656	0.92684	0.50660	0.83938	0.81903	0.83734	0.72929	27.451
54 2,6-Dichlorophenol	0.28612	0.29342	0.34207	0.35122	0.35722	0.36596	0.33267	10.282
55 Hexachloropropene	0.21866	0.23425	0.25545	0.31618	0.32109	0.33907	0.28078	18.119
56 Hexachlorobutadiene	0.25425	0.25774	0.26883	0.28149	0.32590	0.33180	0.28667	11.890
57 1,2,3-Trichlorobenzene	0.35139	0.35312	0.36942	0.38286	0.43753	0.43721	0.38859	10.165
58 N-Nitrosodi-n-butylamine	0.45269	0.46304	0.48853	0.49381	0.49234	0.51646	0.48448	4.759
59 4-Chloro-3-Methylphenol	0.40172	0.42526	0.44983	0.43759	0.47578	0.45455	0.44079	5.805
60 p-Phenylene diamine	0.19525	0.27370	0.21982	0.38487	0.39665	0.42509	0.31590	31.264
61 Safrole	0.30982	0.30831	0.34040	0.34769	0.36065	0.37569	0.34043	7.962
62 2-Methylnaphthalene	0.68610	0.69722	0.71760	0.73540	0.83297	0.79793	0.74454	7.862
63 1-Methylnaphthalene	0.68321	0.68862	0.70810	0.71938	0.81330	0.78133	0.73232	7.235
64 Hexachlorocyclopentadiene	0.27815	0.32774	0.40150	0.42574	0.50433	0.56231	0.41663	25.470

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.59161	0.59227	0.68610	0.74049	0.79098	0.80587	0.70123	13.478
66 2,4,6-Trichlorophenol	0.35274	0.36587	0.38182	0.39933	0.43752	0.44242	0.39662	9.345
67 2,4,5-Trichlorophenol	0.34818	0.36918	0.37975	0.40128	0.44780	0.44939	0.39926	10.488
68 1,2,3,5-Tetrachlorobenzene	0.60535	0.61080	0.64135	0.67246	0.77539	0.80218	0.68459	12.362
69 1,4-Dinitrobenzene	0.11837	0.13350	0.16115	0.17466	0.18041	0.18305	0.15852	16.895
70 2-Chloronaphthalene	1.07395	1.10645	1.17692	1.25393	1.44477	1.47140	1.25457	13.517
71 Isosafrole 1	0.13939	0.14292	0.15369	0.15726	0.15707	0.15980	0.15169	5.578
M 188 Isosafrole, Total	1.07128	1.11383	1.29761	1.36962	1.47906	1.51239	1.30730	14.050
72 Isosafrole 2	0.93189	0.97090	1.14392	1.21236	1.32199	1.35259	1.15561	15.187
73 2-Nitroaniline	0.53222	0.58373	0.61730	0.62652	0.66504	0.66701	0.61530	8.343
74 1,2,3,4-Tetrachlorobenzene	0.56209	0.55558	0.56909	0.59572	0.67059	0.68050	0.60560	9.241
75 1,4-Naphthoquinone	0.34566	0.37181	0.41221	0.43779	0.44014	0.44917	0.40946	10.256
76 Dimethylphthalate	1.29578	1.31863	1.30018	1.35293	1.38962	1.41283	1.34499	3.609
77 m-Dinitrobenzene	0.15172	0.15629	0.17630	0.18604	0.18999	0.19184	0.17536	9.952
78 2,6-Dinitrotoluene	0.21517	0.24235	0.23980	0.25415	0.27465	0.27938	0.25092	9.529
79 Acenaphthylene	1.70448	1.74493	1.77316	1.90433	2.07874	2.11023	1.88598	9.286
80 1,2-Dinitrobenzene	0.11266	0.11914	0.12414	0.13657	0.14113	0.14557	0.12987	10.111
81 3-Nitroaniline	0.20581	0.21213	0.20353	0.24313	0.26876	0.26018	0.23226	12.420
82 Acenaphthene	1.09354	1.11301	1.13011	1.19670	1.31134	1.31560	1.19338	8.320
83 2,4-Dinitrophenol	+++++	0.05822	0.07811	0.09952	0.11723	0.11878	0.09437	27.613 <-
84 Pentachlorobenzene	0.47187	0.49569	0.58090	0.61018	0.66213	0.68106	0.58364	14.658
85 4-Nitrophenol	+++++	0.22575	0.27172	0.28784	0.29779	0.31359	0.27934	12.028 <-
86 Dibenzofuran	1.50506	1.54429	1.55249	1.65984	1.83602	1.84572	1.65724	9.127
87 2,4-Dinitrotoluene	0.28347	0.31753	0.33598	0.35624	0.38184	0.39006	0.34419	11.717
88 2,3,4,6-Tetrachlorophenol	0.21658	0.22567	0.28662	0.29693	0.31729	0.33379	0.27948	17.224
89 1-Naphthylamine	0.75187	0.87239	0.99556	1.06481	1.08624	1.19264	0.99392	15.997
90 Zinophos	0.43940	0.44687	0.45251	0.48082	0.49562	0.49142	0.46777	5.218
91 2,3,5,6-Tetrachlorophenol	0.26236	0.29596	0.31927	0.34062	0.38888	0.39400	0.33351	15.552
92 2-Naphthylamine	0.79986	0.85025	0.80202	0.92768	0.94416	1.01605	0.89000	9.755
93 Diethylphthalate	1.29141	1.28070	1.32376	1.31581	1.35282	1.38181	1.32439	2.860
94 Fluorene	1.26782	1.26851	1.31876	1.39561	1.56245	1.57168	1.39747	9.977
95 4-Chlorophenyl-phenylether	0.66088	0.65864	0.70470	0.71426	0.77555	0.80100	0.71917	8.148
96 4-Nitroaniline	0.17614	0.15687	0.18554	0.22835	0.24129	0.24312	0.20522	18.027

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.24407	0.23829	0.27573	0.29250	0.29405	0.30959	0.27571	10.470
98 4,6-Dinitro-2-methylphenol	++++	0.08183	0.09434	0.11335	0.13009	0.12764	0.10945	19.181|←
99 N-Nitrosodiphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
100 1,2-Diphenylhydrazine	1.66387	1.64154	1.74647	1.57690	1.66750	1.63413	1.65507	3.344
101 Diphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
102 Tetraethyl dithiopyrophosphat	0.10840	0.12096	0.13251	0.14311	0.15585	0.15200	0.13547	13.606
103 Diallylate 1	1.05539	1.08962	1.13781	1.20528	1.23637	1.23284	1.15955	6.633
M 189 Diallylate, Total	4.70416	4.28222	4.67869	4.51110	4.42999	4.54799	4.52569	3.485
104 Phorate	0.15485	0.16645	0.19263	0.21007	0.23435	0.23484	0.19886	16.988
105 1,3,5-Trinitrobenzene	0.04561	0.04556	0.06795	0.07470	0.08278	0.08952	0.06769	27.489
106 4-Bromophenyl-phenylether	0.23198	0.23739	0.24787	0.25148	0.29320	0.28697	0.25815	9.990
107 Hexachlorobenzene	0.21056	0.21545	0.23609	0.24014	0.29819	0.29119	0.24860	15.101
108 Phenacetin	0.39381	0.42738	0.48650	0.52136	0.53897	0.55442	0.48707	13.200
109 Diallylate 2	0.16514	0.16925	0.17386	0.17293	0.17291	0.16908	0.17053	1.949
110 Dimethoate	0.40988	0.42393	0.45037	0.48079	0.46945	0.47181	0.45104	6.337
111 Pentachlorophenol	++++	0.09410	0.11460	0.12867	0.15659	0.15488	0.12977	20.581|←
112 Pentachloronitrobenzene	0.13908	0.13953	0.17200	0.18850	0.20585	0.21436	0.17655	18.313
113 4-Aminobiphenyl	0.50521	0.51154	0.71130	0.82007	0.94799	1.00195	0.74968	28.351
114 Pronamide	0.37523	0.38877	0.42833	0.45514	0.47206	0.48538	0.43415	10.335
115 Phenanthrene	1.12594	1.15503	1.19453	1.26294	1.47200	1.40596	1.26940	11.085
116 Anthracene	1.07069	1.09777	1.18165	1.18893	1.34998	1.32605	1.20251	9.553
117 Dinoseb	0.09725	0.09705	0.15594	0.17497	0.19788	0.20891	0.15533	31.325
118 Disulfoton	0.65325	0.65920	0.67635	0.70456	0.74153	0.72957	0.69408	5.320
119 Carbazole	0.88856	0.89240	0.87562	0.95072	1.09881	1.07156	0.96295	10.232
120 Di-n-Butylphthalate	1.39373	1.35904	1.40316	1.40402	1.58188	1.53891	1.44679	6.258
121 4-Nitroquinoline 1-oxide	0.03168	0.03669	0.06933	0.07702	0.09293	0.09987	0.06792	41.745|←
122 Methapyrilene	0.40822	0.47124	0.39003	0.45314	0.40540	0.42458	0.42544	7.297
123 Fluoranthene	1.22952	1.25569	1.31321	1.38272	1.63510	1.59412	1.40173	12.384
124 Benzidine	0.20435	0.21532	0.19464	0.24426	0.31543	0.32231	0.24938	22.607
125 Pyrene	1.56315	1.52547	1.30753	1.31840	1.19860	1.17099	1.34735	12.148
126 Aramite 1	0.08145	0.08164	0.08225	0.08824	0.08894	0.08957	0.08535	4.615
M 191 Aramite, Total	0.57691	0.51050	0.63107	0.57120	0.55569	0.58753	0.57215	6.904
127 Aramite 2	0.10220	0.11763	0.11409	0.12222	0.12506	0.12385	0.11751	7.278

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28356	0.30639	0.31473	0.34571	0.36354	0.37222	0.33102	10.548
129 p-Chlorobenzilate	0.61239	0.65119	0.66264	0.72461	0.75211	0.77515	0.69635	9.160
130 Pamphur	0.50949	0.51233	0.35483	0.30627	0.20226	0.17982	0.34417	41.968
131 Butylbenzylphthalate	0.67287	0.65599	0.55957	0.53098	0.47461	0.45661	0.55844	16.169
132 3,3'-Dimethylbenzidine	0.42544	0.39316	0.39310	0.50697	0.53320	0.53654	0.46474	14.728
133 3,3'-Dimethoxybenzidine	0.17508	0.18540	0.18782	0.21812	0.26257	0.28681	0.21930	20.922
134 2-Acetylaminofluorene	0.38638	0.39809	0.46729	0.50115	0.51734	0.55310	0.47056	14.187
135 3,3'-Dichlorobenzidine	0.37064	0.38759	0.40643	0.42570	0.47111	0.45169	0.41886	9.130
136 Benzo(a)Anthracene	1.31246	1.33710	1.32155	1.30776	1.31852	1.27603	1.31224	1.952
137 Chrysene	1.14364	1.14690	1.05616	1.01452	0.98933	0.92503	1.04593	8.406
138 4,4'-Methylene bis(o-chloroan	0.22299	0.21598	0.20779	0.21046	0.21939	0.20818	0.21413	2.943
139 bis(2-ethylhexyl)Phthalate	0.95889	0.92656	0.83147	0.74230	0.69316	0.66307	0.80257	15.332
140 Di-n-octylphthalate	1.83595	1.93623	1.90235	1.91054	2.09598	2.05058	1.95527	5.026
141 Benzo(b)fluoranthene	1.31786	1.40315	1.39812	1.50974	1.64736	1.61696	1.48220	8.875
142 Benzo(k)fluoranthene	1.24452	1.37650	1.40958	1.47502	1.73473	1.66760	1.48466	12.460
143 7,12-dimethylbenz(a)anthracen	0.57147	0.81368	0.82348	0.97019	1.07802	1.16770	0.90409	23.693
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.11718	1.20758	1.21735	1.27984	1.45590	1.38814	1.27767	9.793
148 3-Methylcholanthrene	0.70876	0.73653	0.79566	0.91659	0.99864	1.05313	0.86822	16.417
149 Indeno(1,2,3-cd)pyrene	0.87147	0.94466	0.94966	0.99531	1.12292	1.06732	0.99189	9.172
150 Dibenz(a,h)anthracene	0.83834	0.92320	0.95730	0.96714	1.12652	1.05577	0.97805	10.342
151 Benzo(g,h,i)perylene	0.92145	0.96064	0.98151	0.97578	1.10265	1.02616	0.99470	6.311
199 3-Picoline	1.74899	1.80612	1.97366	2.08895	2.29477	2.22596	2.02308	10.918
200 N,N-Dimethylacetamide	1.01001	1.03036	1.18630	1.17980	1.18447	1.21397	1.13415	7.875
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.88459	1.07395	1.27556	1.38892	1.43425	1.16413	1.20356	17.143

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11415	0.12030	0.12808	0.12272	0.12792	0.12310	0.12271	4.238
211 1,1'-Biphenyl	1.45983	1.52918	1.56424	1.73025	2.00058	2.02416	1.71804	14.250
212 Atrazine	0.22873	0.23726	0.23464	0.24601	0.26998	0.26203	0.24644	6.630
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 154 Nitrobenzene-d5	0.70648	0.71811	0.76715	0.72382	0.77007	0.75326	0.73982	3.668
\$ 155 2-Fluorobiphenyl	1.30504	1.30532	1.34161	1.40416	1.55826	1.57393	1.41472	8.681
\$ 156 Terphenyl-d14	0.97987	0.96425	0.86447	0.88080	0.82963	0.81718	0.88937	7.671
\$ 157 Phenol-d5	2.17540	2.27055	2.19865	2.24717	2.38514	2.23686	2.25230	3.265
\$ 158 2-Fluorophenol	1.32202	1.55630	1.51420	1.47374	1.54337	1.52647	1.48935	5.826
\$ 159 2,4,6-Tribromophenol	0.12158	0.12655	0.14359	0.15801	0.18314	0.19188	0.15413	18.834
\$ 186 2-Chlorophenol-d4	1.15418	1.19147	1.19461	1.21906	1.29538	1.23361	1.21472	3.947
\$ 187 1,2-Dichlorobenzene-d4	0.88915	0.91767	0.96644	0.97969	1.12123	1.11060	0.99746	9.771

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 6DF0713B

DFTPP Injection Date: 07/13/00

Instrument ID: A4HP6

DFTPP Injection Time: 1854

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	76.6
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	55.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.0% of mass 198	4.2
441	Present, but less than mass 443	6.4
442	Greater than 40.0% of mass 198	40.7
443	17.0 - 23.0% of mass 442	7.4 (18.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SMO713A	07/13/00	1912
02	ASTD016	ASTD016	6AMO713A	07/13/00	1949
03	DFPJEBLK	DFPJE101	DFPJE101	07/13/00	2026
04	DFPJECHK	DFPJE102	DFPJE102	07/13/00	2103
05	MPT-G4-SU-14	DFMOP10W	DFMOP10W	07/13/00	2253
06	MPT-G4-SU-15	DFMOQ10W	DFMOQ10W	07/13/00	2330
07	MPT-G4-SU-16	DFMOR10W	DFMOR10W	07/14/00	0007
08	MPT-G4-SU-13	DFMON10W	DFMON10W	07/14/00	0347
09					
10					
11					
12					
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19					
20					
21					
22					

Handwritten: 7-14-00

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:12
 Lab File ID: 6SM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.83162	1.96212	0.010	7.1	50.0
10 N-Nitrosodimethylamine	1.55703	1.37614	0.010	-11.6	50.0
11 Ethyl methacrylate	2.09738	2.00617	0.010	-4.3	50.0
12 3-Chloropropionitrile	0.89741	0.94314	0.010	5.1	50.0
13 Malononitrile	2.21083	2.28542	0.010	3.4	50.0
209 Benzaldehyde	1.20356	1.28281	0.010	6.6	50.0
21 Aniline	3.08655	3.20374	0.010	3.8	50.0
22 Phenol	2.75393	2.79673	0.010	1.6	20.0
23 bis(2-Chloroethyl) ether	1.88740	1.85758	0.010	-1.6	50.0
24 2-Chlorophenol	1.31882	1.29014	0.010	-2.2	50.0
26 1,3-Dichlorobenzene	1.54498	1.45029	0.010	-6.1	50.0
27 1,4-Dichlorobenzene	1.55859	1.47291	0.010	-5.5	20.0
28 1,2-Dichlorobenzene	1.44231	1.36549	0.010	-5.3	50.0
29 Benzyl Alcohol	1.22361	1.22183	0.010	-0.1	50.0
30 2-Methylphenol	1.58602	1.55996	0.010	-1.6	50.0
31 bis(2-Chloroisopropyl) ether	1.41224	1.54731	0.010	9.6	50.0
37 Acetophenone	2.76739	2.54080	0.010	-8.2	50.0
32 N-Nitroso-di-n-propylamine	1.95153	2.14013	0.050	9.7	50.0
192 4-Methylphenol	1.79119	1.72401	0.010	-3.8	50.0
34 Hexachloroethane	0.76228	0.79857	0.010	4.8	50.0
35 Nitrobenzene	0.79899	0.85887	0.010	7.5	50.0
41 Isophorone	1.30281	1.37916	0.010	5.9	50.0
42 2-Nitrophenol	0.18761	0.18235	0.010	-2.8	20.0
43 2,4-Dimethylphenol	0.52276	0.53462	0.010	2.3	50.0
44 bis(2-Chloroethoxy)methane	0.66972	0.65280	0.010	-2.5	50.0
46 2,4-Toluenediamine	++++	0.00910	0.010	++++	50.0 <-
47 1,3,5-Trichlorobenzene	0.41173	0.39187	0.010	-4.8	50.0
48 2,4-Dichlorophenol	0.32777	0.31597	0.010	-3.6	20.0
49 Benzoic Acid	0.11534	0.15504	0.010	34.4	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.36501	0.010	-1.6	50.0
51 Naphthalene	1.11293	1.08645	0.010	-2.4	50.0
52 4-Chloroaniline	0.43965	0.44864	0.010	2.0	50.0
56 Hexachlorobutadiene	0.28667	0.25752	0.010	-10.2	20.0
210 Caprolactam	0.12271	0.12336	0.010	0.5	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.36356	0.010	-6.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:12
 Lab File ID: 6SM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.44079	0.45875	0.010	4.1	20.0
62 2-Methylnaphthalene	0.74454	0.72496	0.010	-2.6	50.0
63 1-Methylnaphthalene	0.73232	0.70735	0.010	-3.4	50.0
64 Hexachlorocyclopentadiene	0.41663	0.37991	0.050	-8.8	50.0
66 2,4,6-Trichlorophenol	0.39662	0.38961	0.010	-1.8	20.0
67 2,4,5-Trichlorophenol	0.39926	0.38619	0.010	-3.3	50.0
211 1,1'-Biphenyl	1.71804	1.66451	0.010	-3.1	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.65375	0.010	-4.5	50.0
70 2-Chloronaphthalene	1.25457	1.25203	0.010	-0.2	50.0
73 2-Nitroaniline	0.61530	0.74606	0.010	21.3	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.57281	0.010	-5.4	50.0
76 Dimethylphthalate	1.34499	1.27093	0.010	-5.5	50.0
78 2,6-Dinitrotoluene	0.25092	0.26134	0.010	4.2	50.0
79 Acenaphthylene	1.88598	1.84960	0.010	-1.9	50.0
80 1,2-Dinitrobenzene	0.12987	0.13543	0.010	4.3	50.0
81 3-Nitroaniline	0.23226	0.26735	0.010	15.1	50.0
82 Acenaphthene	1.19338	1.17110	0.010	-1.9	20.0
83 2,4-Dinitrophenol	0.09437	0.07039	0.050	-25.4	50.0
85 4-Nitrophenol	0.27934	0.33412	0.050	19.6	50.0
86 Dibenzofuran	1.65724	1.60487	0.010	-3.2	50.0
87 2,4-Dinitrotoluene	0.34419	0.36265	0.010	5.4	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.34219	0.010	2.6	50.0
93 Diethylphthalate	1.32439	1.34508	0.010	1.6	50.0
94 Fluorene	1.39747	1.37428	0.010	-1.7	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.71314	0.010	-0.8	50.0
96 4-Nitroaniline	0.20522	0.26796	0.010	30.6	50.0
98 4,6-Dinitro-2-methylphenol	0.10945	0.09001	0.010	-17.8	50.0
99 N-Nitrosodiphenylamine	0.59293	0.55882	0.010	-5.8	20.0
100 1,2-Diphenylhydrazine	1.65507	1.75092	0.010	5.8	50.0
106 4-Bromophenyl-phenylether	0.25815	0.23582	0.010	-8.6	50.0
107 Hexachlorobenzene	0.24860	0.21315	0.010	-14.3	50.0
212 Atrazine	0.24644	0.24116	0.010	-2.1	50.0
111 Pentachlorophenol	0.12977	0.11458	0.010	-11.7	20.0
115 Phenanthrene	1.26940	1.20147	0.010	-5.4	50.0
116 Anthracene	1.20251	1.22278	0.010	1.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.1 Injection Date: 13-JUL-2000 19:12
 Lab File ID: 6SM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRP	RP16	MIN RRP	%D	MAX %D
119 Carbazole	0.96295	1.02624	0.010	6.6	50.0
120 Di-n-Butylphthalate	1.44679	1.37624	0.010	-4.9	50.0
123 Fluoranthene	1.40173	1.43735	0.010	2.5	20.0
124 Benzidine	0.24938	0.37666	0.010	51.0	50.0
125 Pyrene	1.34735	1.20525	0.010	-10.5	50.0
131 Butylbenzylphthalate	0.55844	0.49482	0.010	-11.4	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.23075	0.010	5.2	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.41990	0.010	0.2	50.0
136 Benzo(a)Anthracene	1.31224	1.25650	0.010	-4.2	50.0
137 Chrysene	1.04593	1.00378	0.010	-4.0	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.20071	0.010	-6.3	50.0
139 bis(2-ethylhexyl)Phthalate	0.80257	0.73196	0.010	-8.8	50.0
140 Di-n-octylphthalate	1.95527	1.85177	0.010	-5.3	20.0
141 Benzo(b)fluoranthene	1.48220	1.43497	0.010	-3.2	50.0
142 Benzo(k)fluoranthene	1.48466	1.47953	0.010	-0.3	50.0
146 Benzo(a)pyrene	1.27767	1.26114	0.010	-1.3	20.0
149 Indeno(1,2,3-cd)pyrene	0.99189	0.95043	0.010	-4.2	50.0
150 Dibenz(a,h)anthracene	0.97805	0.98640	0.010	0.9	50.0
151 Benzo(g,h,i)perylene	0.99470	0.93694	0.010	-5.8	50.0
\$ 154 Nitrobenzene-d5	0.73982	0.83059	0.010	12.3	50.0
\$ 155 2-Fluorobiphenyl	1.41472	1.36277	0.010	-3.7	50.0
\$ 156 Terphenyl-d14	0.88937	0.79501	0.010	-10.6	50.0
\$ 157 Phenol-d5	2.25230	2.25847	0.010	0.3	50.0
\$ 158 2-Fluorophenol	1.48935	1.48911	0.010	-0.0	50.0
\$ 159 2,4,6-Tribromophenol	0.15413	0.14623	0.010	-5.1	50.0
\$ 186 2-Chlorophenol-d4	1.21472	1.17053	0.010	-3.6	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99746	0.94965	0.010	-4.8	50.0
M 195 Cresols, total	3.37721	3.28397	0.010	-2.8	50.0
101 Diphenylamine	0.59293	0.55882	0.010	-5.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:49
 Lab File ID: 6AM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	1.21026	1.20321	0.010	-0.6	50.0
8 Ethyl methanesulfonate	2.02308	1.97743	0.010	-2.3	50.0
14 2-Picoline	2.29335	2.21054	0.010	-3.6	50.0
15 N-Nitrosomethylethylamine	1.00692	0.95021	0.010	-5.6	50.0
16 Methyl methanesulfonate	1.85491	1.74105	0.010	-6.1	50.0
18 1,3-Dichloro-2-propanol	2.77908	2.74524	0.010	-1.2	50.0
19 N-Nitrosodiethylamine	0.93230	0.87915	0.010	-5.7	50.0
25 Pentachloroethane	0.66963	0.63712	0.010	-4.9	50.0
36 N-Nitrosopyrrolidine	0.92094	0.88331	0.010	-4.1	50.0
37 Acetophenone	2.76739	2.57281	0.010	-7.0	50.0
39 o-Toluidine	2.99590	2.77237	0.010	-7.5	50.0
40 N-Nitrosopiperidine	0.21543	0.20187	0.010	-6.3	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.21560	0.010	-13.7	50.0
53 a,a-Dimethyl-phenethylamine	0.72929	0.89957	0.010	23.3	50.0
54 2,6-Dichlorophenol	0.33267	0.29425	0.010	-11.5	50.0
55 Hexachloropropene	0.28078	0.23628	0.010	-15.9	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.46519	0.010	-4.0	50.0
60 p-Phenylene diamine	0.31590	0.32684	0.010	3.5	50.0
61 Safrole	0.34043	0.30816	0.010	-9.5	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.62828	0.010	-10.4	50.0
71 Isosafrole 1	0.15169	0.15018	0.010	-1.0	50.0
M 188 Isosafrole, Total	1.30730	1.20115	0.010	-8.1	50.0
72 Isosafrole 2	1.15561	1.05097	0.010	-9.1	50.0
75 1,4-Naphthoquinone	0.40946	0.39316	0.010	-4.0	50.0
84 Pentachlorobenzene	0.58364	0.52905	0.010	-9.4	50.0
89 1-Naphthylamine	0.99392	1.03514	0.010	4.1	50.0
92 2-Naphthylamine	0.89000	0.96607	0.010	8.5	50.0
90 Zinophos	0.46777	0.48892	0.010	4.5	50.0
102 Tetraethyl dithiopyrophosph	0.13547	0.12421	0.010	-8.3	50.0
103 Diallate 1	1.15955	1.13169	0.010	-2.4	50.0
M 189 Diallate, Total	4.52569	4.72052	0.010	4.3	50.0
109 Diallate 2	0.17053	0.17168	0.010	0.7	50.0
104 Phorate	0.19886	0.17713	0.010	-10.9	50.0
105 1,3,5-Trinitrobenzene	0.06769	0.06059	0.010	-10.5	50.0
108 Phenacetin	0.48707	0.49821	0.010	2.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:49
 Lab File ID: 6AM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN	RD	MAX
110 Dimethoate	0.45104	0.45996	0.010	2.0	50.0
112 Pentachloronitrobenzene	0.17655	0.15414	0.010	-12.7	50.0
113 4-Aminobiphenyl	0.74968	0.63070	0.010	-15.9	50.0
114 Pronamide	0.43415	0.41167	0.010	-5.2	50.0
117 Dinoseb	0.15533	0.09293	0.010	40.2	50.0
118 Disulfoton	0.69408	0.58002	0.010	-7.0	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.04539	0.010	-33.2	50.0
122 Methapyrilene	0.42544	0.49667	0.010	16.7	50.0
126 Aramite 1	0.08535	0.07756	0.010	-9.1	50.0
M 191 Aramite, Total	0.57215	0.59377	0.010	3.8	50.0
127 Aramite 2	0.11751	0.11002	0.010	-6.4	50.0
128 p-Dimethylamino azobenzene	0.33102	0.29474	0.010	-11.0	50.0
129 p-Chlorobenzilate	0.69635	0.63032	0.010	-9.5	50.0
130 Pamphur	0.34417	0.42300	0.010	22.9	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.48826	0.010	5.1	50.0
134 2-Acetylaminofluorene	0.47056	0.43180	0.010	-8.2	50.0
143 7,12-dimethylbenz[a]anthrac	0.90409	0.71144	0.010	-21.3	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.86822	0.64303	0.010	-25.9	50.0
193 3-Methylphenol	1.91571	1.80263	0.010	-5.9	50.0
69 1,4-Dinitrobenzene	0.15852	0.16609	0.010	4.8	50.0
77 m-Dinitrobenzene	0.17536	0.19133	0.010	9.1	50.0
198 1,4-Dioxane	0.82298	0.60766	0.010	-28.2	50.0
88 2,3,4,6-Tetrachlorophenol	0.27948	0.26111	0.010	8.6	50.0
97 5-Nitro-o-toluidine	0.27571	0.30067	0.010	9.1	50.0
199 3-Picoline	2.02308	1.88561	0.010	-6.8	50.0
200 N,N-Dimethylacetamide	1.13415	1.13526	0.010	0.1	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 6DF0708D

DFTPP Injection Date: 07/08/00

Instrument ID: A4HP6

DFTPP Injection Time: 1943

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	66.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	52.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	6.3
442	Greater than 40.0% of mass 198	42.4
443	17.0 - 23.0% of mass 442	8.2 (19.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD004	ASTD004	6AL0708	07/08/00	2001
02	ASTD010	ASTD010	6AML0708	07/08/00	2038
03	ASTD016	ASTD016	6AM0708	07/08/00	2116
04	ASTD024	ASTD024	6AMH0708	07/08/00	2153
05	ASTD032	ASTD032	6AH0708	07/08/00	2230
06	ASTD040	ASTD040	6AHH0708	07/08/00	2308
07					
08					
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17					
18					
19					
20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AL0708.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AML0708.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AM0708.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AMH0708.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AH0708.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AHH0708.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.64659	0.79016	0.75239	0.82999	0.86209	1.05669	0.82298	16.605
7 N-Nitrosomorpholine	1.19769	1.10715	1.24748	1.20768	1.22338	1.27820	1.21026	4.814
8 Ethyl methanesulfonate	2.04468	1.88761	2.07854	2.04831	2.02054	2.05882	2.02308	3.411
9 Pyridine	1.59151	1.84119	2.05722	1.70961	1.84064	1.94952	1.83162	9.054
10 N-Nitrosodimethylamine	1.45459	1.56024	1.58897	1.50257	1.63662	1.59917	1.55703	4.318
11 Ethyl methacrylate	1.90349	2.43027	2.04420	1.71958	2.22416	2.26260	2.09738	12.384
12 3-Chloropropionitrile	0.82784	0.93586	0.93627	0.89338	0.91595	0.87513	0.89741	4.644
13 Malononitrile	2.24459	2.30399	2.20850	2.18657	2.22916	2.09215	2.21083	3.188
14 2-Picoline	2.01979	2.04954	2.25732	2.43586	2.38600	2.61161	2.29335	10.053
15 N-Nitrosomethylethylamine	0.99413	0.98039	1.11086	0.99170	1.08530	0.87913	1.00692	8.235
16 Methyl methanesulfonate	1.96267	1.77509	1.81597	1.88888	1.82508	1.86175	1.85491	3.542
18 1,3-Dichloro-2-propanol	2.66466	2.62030	2.79011	2.89982	2.80207	2.89753	2.77908	4.183
19 N-Nitrosodiethylamine	0.91567	0.86228	0.95091	0.96413	0.94465	0.95615	0.93230	4.087
21 Aniline	2.88276	3.05380	3.08148	3.11588	3.28019	3.10533	3.08655	4.132
22 Phenol	2.69855	2.74194	2.73872	2.72707	2.89400	2.72332	2.75393	2.553
23 bis(2-Chloroethyl)ether	1.89760	1.88616	1.86573	1.86170	1.96770	1.84552	1.88740	2.302
24 2-Chlorophenol	1.27223	1.30509	1.27882	1.31895	1.40979	1.32802	1.31882	3.764
25 Pentachloroethane	0.60161	0.61821	0.65142	0.69641	0.69641	0.75371	0.66963	8.476
26 1,3-Dichlorobenzene	1.48782	1.52837	1.48077	1.54198	1.63383	1.59709	1.54498	3.914
27 1,4-Dichlorobenzene	1.47785	1.55826	1.51905	1.53218	1.65041	1.61378	1.55859	4.084
28 1,2-Dichlorobenzene	1.34420	1.40197	1.40313	1.42624	1.55797	1.52036	1.44231	5.591
29 Benzyl Alcohol	1.07521	1.12748	1.19118	1.24466	1.40474	1.29841	1.22361	9.750
30 2-Methylphenol	1.48040	1.58582	1.55740	1.60837	1.70750	1.57665	1.58602	4.661
31 bis(2-Chloroisopropyl)ether	1.43727	1.43955	1.52058	1.36365	1.41737	1.29505	1.41224	5.414
32 N-Nitroso-di-n-propylamine	2.00722	1.95264	2.06072	1.89014	1.98593	1.81254	1.95153	4.543

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	± RSD
M 195 Cresols, total	3.05502	3.24135	3.28378	3.42218	3.76637	3.49458	3.37721	7.232
192 4-Methylphenol	1.57463	1.65553	1.72637	1.81381	2.05887	1.91793	1.79119	9.916
193 3-Methylphenol	1.79455	1.75115	1.97844	1.91840	2.00698	2.04472	1.91571	6.206
34 Hexachloroethane	0.73140	0.76096	0.77432	0.74510	0.79217	0.76973	0.76228	2.841
35 Nitrobenzene	0.79718	0.79699	0.81044	0.76976	0.81537	0.80421	0.79899	2.009
36 N-Nitrosopyrrolidine	0.89305	0.85119	0.96199	0.92735	0.93331	0.95873	0.92094	4.594
37 Acetophenone	2.66019	2.50343	2.82974	2.84495	2.84581	2.92026	2.76739	5.612
39 o-Toluidine	2.84006	2.63085	2.97870	3.09241	3.17816	3.25524	2.99590	7.723
40 N-Nitrosopiperidine	0.19718	0.20790	0.21785	0.22278	0.21994	0.22693	0.21543	5.094
41 Isophorone	1.28863	1.27657	1.37284	1.26168	1.34070	1.27643	1.30281	3.366
42 2-Nitrophenol	0.16609	0.17591	0.17350	0.18711	0.21313	0.20993	0.18761	10.523
43 2,4-Dimethylphenol	0.48970	0.50744	0.52001	0.51208	0.56245	0.54490	0.52276	5.072
44 bis(2-Chloroethoxy)methane	0.65297	0.65835	0.64051	0.66000	0.71871	0.68779	0.66972	4.268
45 O,O,O-Triethyl phosphorothioa	0.22004	0.22576	0.24799	0.25934	0.26635	0.27869	0.24970	9.247
46 2,4-Toluenediamene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.38071	0.38705	0.38992	0.39574	0.45436	0.46258	0.41173	8.895
48 2,4-Dichlorophenol	0.29988	0.31450	0.31754	0.32464	0.35941	0.35063	0.32777	6.947
49 Benzoic Acid	+++++	0.07375	0.12265	0.12511	0.13112	0.12407	0.11534	20.350 <-
50 1,2,4-Trichlorobenzene	0.34252	0.35095	0.36332	0.36390	0.40365	0.40175	0.37102	6.961
51 Naphthalene	1.03898	1.06586	1.07747	1.09049	1.21424	1.19054	1.11293	6.446
52 4-Chloroaniline	0.38579	0.42000	0.42123	0.44167	0.49381	0.47538	0.43965	9.007
53 a,a-Dimethyl-phenethylamine	0.44656	0.92684	0.50660	0.83938	0.81902	0.83734	0.72929	27.451
54 2,6-Dichlorophenol	0.28612	0.29342	0.34207	0.35122	0.35722	0.36596	0.33267	10.282
55 Hexachloropropene	0.21866	0.23425	0.25545	0.31618	0.32109	0.33907	0.28078	18.119
56 Hexachlorobutadiene	0.25425	0.25774	0.26883	0.28149	0.32590	0.33180	0.28667	11.890
57 1,2,3-Trichlorobenzene	0.35139	0.35312	0.36942	0.38286	0.43753	0.43721	0.38859	10.165
58 N-Nitrosodi-n-butylamine	0.45269	0.46304	0.48853	0.49381	0.49234	0.51646	0.48448	4.759
59 4-Chloro-3-Methylphenol	0.40172	0.42526	0.44983	0.43759	0.47578	0.45455	0.44079	5.805
60 p-Phenylene diamine	0.19525	0.27370	0.21982	0.38487	0.39665	0.42509	0.31590	31.264
61 Safrole	0.30982	0.30831	0.34040	0.34769	0.36065	0.37569	0.34043	7.962
62 2-Methylnaphthalene	0.68610	0.69722	0.71760	0.73540	0.83297	0.79793	0.74454	7.862
63 1-Methylnaphthalene	0.68321	0.68862	0.70810	0.71938	0.81330	0.78133	0.73232	7.235
64 Hexachlorocyclopentadiene	0.27815	0.32774	0.40150	0.42574	0.50433	0.56231	0.41663	25.470

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.59161	0.59227	0.68610	0.74049	0.79098	0.80587	0.70122	13.478
66 2,4,6-Trichlorophenol	0.35274	0.36587	0.38182	0.39933	0.43752	0.44242	0.39662	9.345
67 2,4,5-Trichlorophenol	0.34818	0.36918	0.37975	0.40128	0.44780	0.44939	0.39926	10.488
68 1,2,3,5-Tetrachlorobenzene	0.60535	0.61080	0.64135	0.67246	0.77539	0.80218	0.68459	12.362
69 1,4-Dinitrobenzene	0.11837	0.13350	0.16115	0.17466	0.18041	0.18305	0.15852	16.895
70 2-Chloronaphthalene	1.07395	1.10645	1.17692	1.25393	1.44477	1.47140	1.25457	13.517
71 Isosafrole 1	0.13939	0.14292	0.15369	0.15726	0.15707	0.15980	0.15169	5.578
M 188 Isosafrole, Total	1.07128	1.11383	1.29761	1.36962	1.47906	1.51239	1.30730	14.050
72 Isosafrole 2	0.93189	0.97090	1.14392	1.21236	1.32199	1.35259	1.15561	15.187
73 2-Nitroaniline	0.53222	0.58373	0.61730	0.62652	0.66504	0.66701	0.61530	8.343
74 1,2,3,4-Tetrachlorobenzene	0.56209	0.55558	0.56909	0.59572	0.67059	0.68050	0.60560	9.241
75 1,4-Naphthoquinone	0.34566	0.37181	0.41221	0.43779	0.44014	0.44917	0.40946	10.256
76 Dimethylphthalate	1.29578	1.31863	1.30018	1.35293	1.38962	1.41283	1.34499	3.609
77 m-Dinitrobenzene	0.15172	0.15629	0.17630	0.18604	0.18999	0.19184	0.17536	9.952
78 2,6-Dinitrotoluene	0.21517	0.24235	0.23980	0.25415	0.27465	0.27938	0.25092	9.529
79 Acenaphthylene	1.70448	1.74493	1.77316	1.90433	2.07874	2.11023	1.88598	9.286
80 1,2-Dinitrobenzene	0.11266	0.11914	0.12414	0.13657	0.14113	0.14557	0.12987	10.111
81 3-Nitroaniline	0.20581	0.21213	0.20353	0.24313	0.26876	0.26018	0.23226	12.420
82 Acenaphthene	1.09354	1.11301	1.13011	1.19670	1.31134	1.31560	1.19338	8.320
83 2,4-Dinitrophenol	+++++	0.05822	0.07811	0.09952	0.11723	0.11878	0.09437	27.613<-
84 Pentachlorobenzene	0.47187	0.49569	0.58090	0.61018	0.66213	0.68106	0.58364	14.658
85 4-Nitrophenol	+++++	0.22575	0.27172	0.28784	0.29779	0.31359	0.27934	12.028<-
86 Dibenzofuran	1.50506	1.54429	1.55249	1.65984	1.83602	1.84572	1.65724	9.127
87 2,4-Dinitrotoluene	0.28347	0.31753	0.33598	0.35624	0.38184	0.39006	0.34419	11.717
88 2,3,4,6-Tetrachlorophenol	0.21658	0.22567	0.28662	0.29693	0.31729	0.33379	0.27948	17.224
89 1-Naphthylamine	0.75187	0.87239	0.99556	1.06481	1.08624	1.19264	0.99392	15.997
90 Zinophos	0.43940	0.44687	0.45251	0.48082	0.49562	0.49142	0.46777	5.218
91 2,3,5,6-Tetrachlorophenol	0.26236	0.29596	0.31927	0.34062	0.38888	0.39400	0.33351	15.552
92 2-Naphthylamine	0.79986	0.85025	0.80202	0.92768	0.94416	1.01605	0.89000	9.755
93 Diethylphthalate	1.29141	1.28070	1.32376	1.31581	1.35282	1.38181	1.32439	2.860
94 Fluorene	1.26782	1.26851	1.31876	1.39561	1.56245	1.57168	1.39747	9.977
95 4-Chlorophenyl-phenylether	0.66088	0.65864	0.70470	0.71426	0.77555	0.80100	0.71917	8.148
96 4-Nitroaniline	0.17614	0.15687	0.18554	0.22835	0.24129	0.24312	0.20522	18.027

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.24407	0.23829	0.27573	0.29250	0.29405	0.30959	0.27571	10.470
98 4,6-Dinitro-2-methylphenol	++++	0.08183	0.09434	0.11335	0.13009	0.12764	0.10945	19.181<-
99 N-Nitrosodiphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
100 1,2-Diphenylhydrazine	1.66387	1.64154	1.74647	1.57690	1.66750	1.63413	1.65507	3.344
101 Diphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
102 Tetraethyl dithiopyrophosphat	0.10840	0.12096	0.13251	0.14311	0.15585	0.15200	0.13547	13.606
103 Diallyl 1	1.05539	1.08962	1.13781	1.20528	1.23637	1.23284	1.15955	6.633
M 189 Diallyl, Total	4.70416	4.28222	4.67869	4.51110	4.42999	4.54799	4.52569	3.485
104 Phorate	0.15485	0.16645	0.19263	0.21007	0.23435	0.23484	0.19886	16.988
105 1,3,5-Trinitrobenzene	0.04561	0.04556	0.06795	0.07470	0.08278	0.08952	0.06769	27.489
106 4-Bromophenyl-phenylether	0.23198	0.23739	0.24787	0.25148	0.29320	0.28697	0.25815	9.990
107 Hexachlorobenzene	0.21056	0.21545	0.23609	0.24014	0.29819	0.29119	0.24860	15.101
108 Phenacetin	0.39381	0.42738	0.48650	0.52136	0.53897	0.55442	0.48707	13.200
109 Diallyl 2	0.16514	0.16925	0.17386	0.17293	0.17291	0.16908	0.17053	1.949
110 Dimethoate	0.40988	0.42293	0.45037	0.48079	0.46945	0.47181	0.45104	6.337
111 Pentachlorophenol	++++	0.09410	0.11460	0.12867	0.15659	0.15488	0.12977	20.581<-
112 Pentachloronitrobenzene	0.13908	0.13953	0.17200	0.18850	0.20585	0.21436	0.17655	18.313
113 4-Aminobiphenyl	0.50521	0.51154	0.71130	0.82007	0.94799	1.00195	0.74968	28.351
114 Pronamide	0.37523	0.38877	0.42833	0.45514	0.47206	0.48538	0.43415	10.335
115 Phenanthrene	1.12594	1.15503	1.19453	1.26294	1.47200	1.40596	1.26940	11.085
116 Anthracene	1.07069	1.09777	1.18165	1.18893	1.34998	1.32605	1.20251	9.553
117 Dinoseb	0.09725	0.09705	0.15594	0.17497	0.19788	0.20891	0.15533	31.325
118 Disulfoton	0.65325	0.65920	0.67635	0.70456	0.74153	0.72957	0.69408	5.320
119 Carbazole	0.88856	0.89240	0.87562	0.95072	1.09881	1.07158	0.96295	10.232
120 Di-n-Butylphthalate	1.39373	1.35904	1.40316	1.40402	1.58188	1.53891	1.44679	6.258
121 4-Nitroquinoline 1-oxide	0.03168	0.03669	0.06933	0.07702	0.09293	0.09987	0.06792	41.745
122 Methapyrilene	0.40822	0.47124	0.39003	0.45314	0.40540	0.42458	0.42544	7.297
123 Fluoranthene	1.22952	1.25569	1.31321	1.38272	1.63510	1.59412	1.40173	12.384
124 Benzidine	0.20435	0.21532	0.19464	0.24426	0.31543	0.32231	0.24938	22.607
125 Pyrene	1.56315	1.52547	1.30753	1.31840	1.19860	1.17099	1.34735	12.148
126 Aramite 1	0.08145	0.08164	0.08225	0.08824	0.08894	0.08957	0.08535	4.615
M 191 Aramite, Total	0.57691	0.51050	0.63107	0.57120	0.55569	0.58753	0.57215	6.904
127 Aramite 2	0.10220	0.11763	0.11409	0.12222	0.12506	0.12385	0.11751	7.278

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28356	0.30639	0.31473	0.34571	0.36354	0.37222	0.33102	10.548
129 p-Chlorobenzilate	0.61239	0.65119	0.66264	0.72461	0.75211	0.77515	0.69635	9.160
130 Pamphur	0.50949	0.51233	0.35483	0.30627	0.20226	0.17982	0.34417	41.968
131 Butylbenzylphthalate	0.67287	0.65599	0.55957	0.53098	0.47461	0.45661	0.55844	16.169
132 3,3'-Dimethylbenzidine	0.42544	0.39316	0.39310	0.50697	0.53320	0.53654	0.46474	14.728
133 3,3'-Dimethoxybenzidine	0.17508	0.18540	0.18782	0.21812	0.26257	0.28681	0.31930	20.922
134 2-Acetylaminofluorene	0.38638	0.39809	0.46729	0.50115	0.51734	0.55310	0.47056	14.187
135 3,3'-Dichlorobenzidine	0.37064	0.38759	0.40643	0.42570	0.47111	0.45169	0.41886	9.130
136 Benzo(a)Anthracene	1.31246	1.33710	1.32155	1.30776	1.31852	1.27603	1.31224	1.552
137 Chrysene	1.14364	1.14690	1.05616	1.01452	0.98933	0.92503	1.04593	8.406
138 4,4'-Methylene bis(o-chloroan	0.22299	0.21598	0.20779	0.21046	0.21939	0.20818	0.21413	2.943
139 bis(2-ethylhexyl)Phthalate	0.95889	0.92656	0.83147	0.74230	0.69316	0.66307	0.80257	15.332
140 Di-n-octylphthalate	1.83595	1.93623	1.90235	1.91054	2.09598	2.05058	1.95527	5.026
141 Benzo(b)fluoranthene	1.31786	1.40315	1.39812	1.50974	1.64736	1.61696	1.48220	8.875
142 Benzo(k)fluoranthene	1.24452	1.37650	1.40958	1.47502	1.73473	1.66760	1.48466	12.460
143 7,12-dimethylbenz[a]anthracen	0.57147	0.81368	0.82348	0.97019	1.07802	1.16770	0.90409	23.693
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.11718	1.20758	1.21735	1.27984	1.45590	1.38814	1.27767	9.793
148 1-Methylcholanthrene	0.70876	0.73653	0.79566	0.91659	0.99864	1.05313	0.86822	16.417
149 Indeno(1,2,3-cd)pyrene	0.87147	0.94466	0.94966	0.99531	1.12292	1.06732	0.99189	9.172
150 Dibenz(a,h)anthracene	0.83834	0.92320	0.95730	0.96714	1.12652	1.05577	0.97805	10.342
151 Benzo(g,h,i)perylene	0.92145	0.96064	0.98151	0.97578	1.10265	1.02616	0.99470	6.311
199 3-Picoline	1.74899	1.80612	1.97366	2.08895	2.29477	2.22596	2.02308	10.918
200 N,N-Dimethylacetamide	1.01001	1.03036	1.18630	1.17980	1.18447	1.21397	1.13415	7.875
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.88459	1.07395	1.27556	1.38892	1.43425	1.16413	1.20356	17.143

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11415	0.12030	0.12808	0.12272	0.12792	0.12310	0.12271	4.238
211 1,1'-Biphenyl	1.45983	1.52918	1.56424	1.73025	2.00058	2.02416	1.71804	14.250
212 Atrazine	0.22873	0.23726	0.23464	0.24601	0.26998	0.26203	0.24644	6.630
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 154 Nitrobenzene-d5	0.70648	0.71811	0.76715	0.72382	0.77007	0.75326	0.73982	3.668
\$ 155 2-Fluorobiphenyl	1.30504	1.30532	1.34161	1.40416	1.55826	1.57393	1.41472	8.681
\$ 156 Terphenyl-d14	0.97987	0.96425	0.86447	0.88080	0.82963	0.81718	0.88937	7.671
\$ 157 Phenol-d5	2.17540	2.27055	2.19865	2.24717	2.38514	2.23686	2.25230	3.265
\$ 158 2-Fluorophenol	1.32202	1.55630	1.51420	1.47374	1.54337	1.52647	1.48935	5.826
\$ 159 2,4,6-Tribromophenol	0.12158	0.12655	0.14359	0.15801	0.18314	0.19188	0.15413	18.834
\$ 186 2-Chlorophenol-d4	1.15418	1.19147	1.19461	1.21906	1.29538	1.23361	1.21472	3.947
\$ 187 1,2-Dichlorobenzene-d4	0.88915	0.91767	0.96644	0.97969	1.12123	1.11060	0.99746	9.771

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP014
 Lab File ID: 6DF0709B DFTPP Injection Date: 07/09/00
 Instrument ID: A4HP6 DFTPP Injection Time: 0842

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.6
68	Less than 2.0% of mass 69	1.4 (2.0)1
69	Mass 69 relative abundance	72.2
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	52.1
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.0% of mass 198	4.1
441	Present, but less than mass 443	5.9
442	Greater than 40.0% of mass 198	41.5
443	17.0 - 23.0% of mass 442	7.8 (18.9)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0709	07/09/00	0900
02	ASTD016	ASTD016	6AM0709	07/09/00	0937
03	MPT-G4-SU-12	DFMOK10V	DFMOK10V	07/09/00	1814
04	MPT-G4-SU-11	DFMOJ10W	DFMOJ10W	07/09/00	1851
05	MPT-G4-SU-10	DFMOH10W	DFMOH10W	07/09/00	1927
06	MPT-G4-SU-09	DFMOG10W	DFMOG10W	07/09/00	2004
07	MPT-G4-SU-08	DFMOF10W	DFMOF10W	07/09/00	2041
08					
09					
10					
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21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 09-JUL-2000 09:00
 Lab File ID: 6SM0709.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00709a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	RD	MAX RD
9 Pyridine	1.83162	1.93515	0.010	5.7	50.0
10 N-Nitrosodimethylamine	1.55703	1.59480	0.010	2.4	50.0
11 Ethyl methacrylate	2.09738	2.32505	0.010	10.9	50.0
12 3-Chloropropionitrile	0.89741	0.88816	0.010	-1.0	50.0
13 Malononitrile	2.21083	2.07954	0.010	-5.9	50.0
209 Benzaldehyde	1.20356	1.19242	0.010	-0.9	50.0
21 Aniline	3.08655	3.04577	0.010	-1.3	50.0
22 Phenol	2.75393	2.68691	0.010	-2.4	20.0
23 bis(2-Chloroethyl)ether	1.88740	1.77961	0.010	-5.7	50.0
24 2-Chlorophenol	1.31882	1.26665	0.010	-4.0	50.0
26 1,3-Dichlorobenzene	1.54498	1.45170	0.010	-6.0	50.0
27 1,4-Dichlorobenzene	1.55859	1.49619	0.010	-4.0	20.0
28 1,2-Dichlorobenzene	1.44231	1.37468	0.010	-4.7	50.0
29 Benzyl Alcohol	1.22361	1.19391	0.010	-2.4	50.0
30 2-Methylphenol	1.58602	1.52357	0.010	-3.9	50.0
31 bis(2-Chloroisopropyl)ether	1.41224	1.40083	0.010	-0.8	50.0
37 Acetophenone	2.76739	2.47865	0.010	-10.4	50.0
32 N-Nitroso-di-n-propylamine	1.95153	1.91520	0.050	-1.9	50.0
192 4-Methylphenol	1.79119	1.72026	0.010	-4.0	50.0
34 Hexachloroethane	0.76228	0.76123	0.010	-0.1	50.0
35 Nitrobenzene	0.79899	0.80210	0.010	0.4	50.0
41 Isophorone	1.30281	1.33035	0.010	2.1	50.0
42 2-Nitrophenol	0.18761	0.18775	0.010	0.1	20.0
43 2,4-Dimethylphenol	0.52276	0.51825	0.010	-0.9	50.0
44 bis(2-Chloroethoxy)methane	0.66972	0.63100	0.010	-5.8	50.0
46 2,4-Toluenediamine	++++	0.02249	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.41173	0.39889	0.010	-3.1	50.0
48 2,4-Dichlorophenol	0.32777	0.32187	0.010	-1.8	20.0
49 Benzoic Acid	0.11534	0.11823	0.010	2.5	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.37522	0.010	1.1	50.0
51 Naphthalene	1.11293	1.08866	0.010	-2.2	50.0
52 4-Chloroaniline	0.43965	0.43172	0.010	-1.8	50.0
56 Hexachlorobutadiene	0.28667	0.27206	0.010	-5.1	20.0
210 Caprolactam	0.12271	0.12772	0.010	4.1	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.37704	0.010	-3.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 09-JUL-2000 09:00
 Lab File ID: 6SM0709.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00709a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.44079	0.44472	0.010	0.9	20.0
62 2-Methylnaphthalene	0.74454	0.72952	0.010	-2.0	50.0
63 1-Methylnaphthalene	0.73232	0.70571	0.010	-3.6	50.0
64 Hexachlorocyclopentadiene	0.41663	0.41109	0.050	-1.3	50.0
66 2,4,6-Trichlorophenol	0.39662	0.38187	0.010	-3.7	20.0
67 2,4,5-Trichlorophenol	0.39926	0.39719	0.010	-0.5	50.0
211 1,1'-Biphenyl	1.71804	1.64195	0.010	-4.4	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.65670	0.010	-4.1	50.0
70 2-Chloronaphthalene	1.25457	1.23703	0.010	-1.4	50.0
73 2-Nitroaniline	0.61530	0.64837	0.010	5.4	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.57864	0.010	-4.5	50.0
76 Dimethylphthalate	1.34499	1.31131	0.010	-2.5	50.0
78 2,6-Dinitrotoluene	0.25092	0.26122	0.010	4.1	50.0
79 Acenaphthylene	1.88598	1.83223	0.010	-2.8	50.0
80 1,2-Dinitrobenzene	0.12987	0.13869	0.010	6.8	50.0
81 3-Nitroaniline	0.23226	0.24185	0.010	4.1	50.0
82 Acenaphthene	1.19338	1.15552	0.010	-3.2	20.0
83 2,4-Dinitrophenol	0.09437	0.09502	0.050	0.7	50.0
85 4-Nitrophenol	0.27934	0.29374	0.050	5.2	50.0
86 Dibenzofuran	1.65724	1.61350	0.010	-2.6	50.0
87 2,4-Dinitrotoluene	0.34419	0.36453	0.010	5.9	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.34672	0.010	4.0	50.0
93 Diethylphthalate	1.32439	1.37106	0.010	3.5	50.0
94 Fluorene	1.39747	1.36443	0.010	-2.4	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.72276	0.010	0.5	50.0
96 4-Nitroaniline	0.20522	0.23543	0.010	14.7	50.0
98 4,6-Dinitro-2-methylphenol	0.10945	0.11385	0.010	4.0	50.0
99 N-Nitrosodiphenylamine	0.59293	0.56866	0.010	-4.1	20.0
100 1,2-Diphenylhydrazine	1.65507	1.66521	0.010	0.6	50.0
106 4-Bromophenyl-phenylether	0.25815	0.25100	0.010	-2.8	50.0
107 Hexachlorobenzene	0.24860	0.23311	0.010	-6.2	50.0
212 Atrazine	0.24644	0.25241	0.010	2.4	50.0
111 Pentachlorophenol	0.12977	0.13091	0.010	0.9	20.0
115 Phenanthrene	1.26940	1.24372	0.010	-2.0	50.0
116 Anthracene	1.20251	1.22921	0.010	2.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 09-JUL-2000 09:00
 Lab File ID: 6SM0709.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00709a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
119 Carbazole	0.96295	0.95641	0.010	-0.7	50.0
120 Di-n-Butylphthalate	1.44679	1.43732	0.010	-0.7	50.0
123 Fluoranthene	1.40173	1.39056	0.010	-0.8	20.0
124 Benzidine	0.24938	0.27997	0.010	12.3	50.0
125 Pyrene	1.34735	1.38725	0.010	3.0	50.0
131 Butylbenzylphthalate	0.55844	0.57824	0.010	3.5	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.21508	0.010	-1.9	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.39776	0.010	-5.0	50.0
136 Benzo(a)Anthracene	1.31224	1.28004	0.010	-2.5	50.0
137 Chrysene	1.04593	1.02077	0.010	-2.4	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.19692	0.010	-8.0	50.0
139 bis(2-ethylhexyl)Phthalate	0.80257	0.83573	0.010	4.1	50.0
140 Di-n-octylphthalate	1.95527	2.04752	0.010	4.7	20.0
141 Benzo(b)fluoranthene	1.48220	1.41355	0.010	-4.6	50.0
142 Benzo(k)fluoranthene	1.48466	1.43957	0.010	-3.0	50.0
146 Benzo(a)pyrene	1.27767	1.24653	0.010	-2.4	20.0
149 Indeno(1,2,3-cd)pyrene	0.99189	0.98051	0.010	-1.1	50.0
150 Dibenz(a,h)anthracene	0.97805	0.95685	0.010	-2.2	50.0
151 Benzo(g,h,i)perylene	0.99470	0.97135	0.010	-2.3	50.0
\$ 154 Nitrobenzene-d5	0.73982	0.78170	0.010	5.7	50.0
\$ 155 2-Fluorobiphenyl	1.41472	1.37869	0.010	-2.5	50.0
\$ 156 Terphenyl-d14	0.88937	0.90645	0.010	1.9	50.0
\$ 157 Phenol-d5	2.25230	2.17232	0.010	-3.6	50.0
\$ 158 2-Fluorophenol	1.48935	1.35894	0.010	-8.8	50.0
\$ 159 2,4,6-Tribromophenol	0.15413	0.14969	0.010	-2.9	50.0
\$ 186 2-Chlorophenol-d4	1.21472	1.17950	0.010	-2.9	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99746	0.96839	0.010	-2.9	50.0
M 195 Cresols, total	3.37721	3.24383	0.010	-3.9	50.0
101 Diphenylamine	0.59293	0.56866	0.010	-4.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 09-JUL-2000 09:37
 Lab File ID: 6AM0709.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00709a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.21026	1.24832	0.010	3.1	50.0
8 Ethyl methanesulfonate	2.02308	2.06004	0.010	1.8	50.0
14 2-Picoline	2.29335	2.24559	0.010	-2.1	50.0
15 N-Nitrosomethylethylamine	1.00692	0.84749	0.010	-15.8	50.0
16 Methyl methanesulfonate	1.85491	1.77880	0.010	-4.1	50.0
18 1,3-Dichloro-2-propanol	2.77908	2.79574	0.010	0.6	50.0
19 N-Nitrosodiethylamine	0.93230	0.95379	0.010	2.3	50.0
25 Pentachloroethane	0.66963	0.66736	0.010	-0.3	50.0
36 N-Nitrosopyrrolidine	0.92094	0.98656	0.010	7.1	50.0
37 Acetophenone	2.76739	2.84471	0.010	2.8	50.0
39 o-Toluidine	2.99590	3.06551	0.010	2.3	50.0
40 N-Nitrosopiperidine	0.21543	0.21611	0.010	0.3	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.25239	0.010	1.1	50.0
53 a,a-Dimethyl-phenethylamine	0.72929	0.42233	0.010	-42.1	50.0
54 2,6-Dichlorophenol	0.33267	0.34602	0.010	4.0	50.0
55 Hexachloropropene	0.28078	0.29154	0.010	3.8	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.48127	0.010	-0.7	50.0
60 p-Phenylene diamine	0.31590	0.25919	0.010	-18.0	50.0
61 Safrole	0.34043	0.34580	0.010	1.6	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.68500	0.010	-2.3	50.0
71 Isosafrole 1	0.15169	0.14684	0.010	-3.2	50.0
M 168 Isosafrole, Total	1.30730	1.29393	0.010	-1.0	50.0
72 Isosafrole 2	1.15561	1.14709	0.010	-0.7	50.0
75 1,4-Naphthoquinone	0.40946	0.40808	0.010	-0.3	50.0
84 Pentachlorobenzene	0.58364	0.59051	0.010	1.2	50.0
89 1-Naphthylamine	0.99392	1.00682	0.010	1.3	50.0
92 2-Naphthylamine	0.89000	0.89463	0.010	0.5	50.0
90 Zinophos	0.46777	0.49152	0.010	5.1	50.0
102 Tetraethyl dithiopyrophosph	0.13547	0.13323	0.010	-1.7	50.0
103 Diallylate 1	1.15955	1.08515	0.010	-6.4	50.0
M 189 Diallylate, Total	4.52569	5.20095	0.010	14.9	50.0
109 Diallylate 2	0.17053	0.15793	0.010	-7.4	50.0
104 Phorate	0.19886	0.20011	0.010	0.6	50.0
105 1,3,5-Trinitrobenzene	0.06769	0.07871	0.010	16.3	50.0
108 Phenacetin	0.48707	0.51228	0.010	5.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 09-JUL-2000 09:37
 Lab File ID: 6AM0709.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00709a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.45104	0.43821	0.010	-2.8	50.0
112 Pentachloronitrobenzene	0.17655	0.17596	0.010	-0.3	50.0
113 4-Aminobiphenyl	0.74968	0.76437	0.010	2.0	50.0
114 Pronamide	0.43415	0.42817	0.010	-1.4	50.0
117 Dinoseb	0.15533	0.18020	0.010	16.0	50.0
118 Disulfoton	0.69408	0.66169	0.010	-4.7	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.08194	0.010	20.6	50.0
122 Methapyrilene	0.42544	0.35007	0.010	-17.7	50.0
126 Aramite 1	0.08535	0.08099	0.010	-5.1	50.0
M 191 Aramite, Total	0.57215	0.70836	0.010	23.8	50.0
127 Aramite 2	0.11751	0.11401	0.010	-3.0	50.0
128 p-Dimethylamino azobenzene	0.33102	0.32394	0.010	-2.1	50.0
129 p-Chlorobenzilate	0.69635	0.65049	0.010	-6.6	50.0
130 Famphur	0.34417	0.30972	0.010	-10.0	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.41728	0.010	-10.2	50.0
134 2-Acetylaminofluorene	0.47056	0.48259	0.010	2.6	50.0
143 7,12-dimethylbenz[a]anthrac	0.90409	0.79702	0.010	-11.8	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.86822	0.79902	0.010	-8.0	50.0
193 3-Methylphenol	1.91571	2.00901	0.010	4.9	50.0
69 1,4-Dinitrobenzene	0.15852	0.18157	0.010	14.5	50.0
77 m-Dinitrobenzene	0.17536	0.19998	0.010	14.0	50.0
198 1,4-Dioxane	0.82298	0.77803	0.010	-5.5	50.0
88 2,3,4,6-Tetrachlorophenol	0.27948	0.31158	0.010	11.5	50.0
97 5-Nitro-o-toluidine	0.27571	0.32364	0.010	17.4	50.0
199 3-Picoline	2.02308	1.95942	0.010	-3.1	50.0
200 N,N-Dimethylacetamide	1.13415	1.19298	0.010	5.2	50.0

SD
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 6DF0713B

DFTPP Injection Date: 07/13/00

Instrument ID: A4HP6

DFTPP Injection Time: 1854

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	76.6
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	55.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.0% of mass 198	4.2
441	Present, but less than mass 443	6.4
442	Greater than 40.0% of mass 198	40.7
443	17.0 - 23.0% of mass 442	7.4 (18.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0713A	07/13/00	1912
02	ASTD016	ASTD016	6AM0713A	07/13/00	1949
03	DFPJELK	DFPJE101	DFPJE101	07/13/00	2026
04	DFPJECHK	DFPJE102	DFPJE102	07/13/00	2103
05	MPT-G4-SU-14	DFMOP10W	DFMOP10W	07/13/00	2253
06	MPT-G4-SU-15	DFMOQ10W	DFMOQ10W	07/13/00	2330
07	MPT-G4-SU-16	DFMOR10W	DFMOR10W	07/14/00	0007
08	MPT-G4-SU-13	DFMON10W	DFMON10W	07/14/00	0347
09					
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22					

7-14-00

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:12
 Lab File ID: 6SM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	SD	MAX SD
9 Pyridine	1.83162	1.96212	0.010	7.3	50.0
10 N-Nitrosodimethylamine	1.55703	1.37614	0.010	-11.6	50.0
11 Ethyl methacrylate	2.09738	2.00617	0.010	-4.3	50.0
12 3-Chloropropionitrile	0.89741	0.94314	0.010	5.1	50.0
13 Malononitrile	2.21083	2.28542	0.010	3.4	50.0
209 Benzaldehyde	1.20356	1.28281	0.010	6.6	50.0
21 Aniline	3.08655	3.20374	0.010	3.8	50.0
22 Phenol	2.75393	2.79673	0.010	1.6	20.0
23 bis(2-Chloroethyl)ether	1.88740	1.85758	0.010	-1.6	50.0
24 2-Chlorophenol	1.31882	1.29014	0.010	-2.2	50.0
26 1,3-Dichlorobenzene	1.54498	1.45029	0.010	-6.1	50.0
27 1,4-Dichlorobenzene	1.55859	1.47291	0.010	-5.5	20.0
28 1,2-Dichlorobenzene	1.44231	1.36549	0.010	-5.3	50.0
29 Benzyl Alcohol	1.22361	1.22183	0.010	-0.1	50.0
30 2-Methylphenol	1.58602	1.55996	0.010	-1.6	50.0
31 bis(2-Chloroisopropyl)ether	1.41224	1.54731	0.010	9.6	50.0
37 Acetophenone	2.76739	2.54080	0.020	-8.2	50.0
32 N-Nitroso-di-n-propylamine	1.95153	2.14013	0.050	9.7	50.0
192 4-Methylphenol	1.79119	1.72401	0.010	-3.8	50.0
34 Hexachloroethane	0.76228	0.79857	0.010	4.8	50.0
35 Nitrobenzene	0.79899	0.85887	0.010	7.5	50.0
41 Isophorone	1.30281	1.37916	0.010	5.9	50.0
42 2-Nitrophenol	0.18761	0.18235	0.010	-2.8	20.0
43 2,4-Dimethylphenol	0.52276	0.53462	0.010	2.3	50.0
44 bis(2-Chloroethoxy)methane	0.66972	0.65280	0.010	-2.5	50.0
46 2,4-Toluenediamine	++++	0.00910	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.41173	0.39187	0.010	-4.8	50.0
48 2,4-Dichlorophenol	0.32777	0.31597	0.010	-3.6	20.0
49 Benzoic Acid	0.11534	0.15504	0.010	34.4	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.36501	0.010	-1.6	50.0
51 Naphthalene	1.11293	1.08645	0.010	-2.4	50.0
52 4-Chloroaniline	0.43965	0.44864	0.010	2.0	50.0
56 Hexachlorobutadiene	0.28667	0.25752	0.010	-10.2	20.0
210 Caprolactam	0.12271	0.12336	0.010	0.5	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.36356	0.010	-6.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:12
 Lab File ID: 6SM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.44079	0.45875	0.010	4.1	20.0
62 2-Methylnaphthalene	0.74454	0.72496	0.010	-2.6	50.0
63 1-Methylnaphthalene	0.73232	0.70735	0.010	-3.4	50.0
64 Hexachlorocyclopentadiene	0.41663	0.37991	0.050	-8.8	50.0
66 2,4,6-Trichlorophenol	0.39662	0.38961	0.010	-1.8	20.0
67 2,4,5-Trichlorophenol	0.39926	0.38619	0.010	-3.3	50.0
211 1,1'-Biphenyl	1.71804	1.66451	0.010	-3.1	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.65375	0.010	-4.5	50.0
70 2-Chloronaphthalene	1.25457	1.25203	0.010	-0.2	50.0
73 2-Nitroaniline	0.61530	0.74606	0.010	21.3	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.57281	0.010	-5.4	50.0
76 Dimethylphthalate	1.34499	1.27093	0.010	-5.5	50.0
78 2,6-Dinitrotoluene	0.25092	0.26134	0.010	4.2	50.0
79 Acenaphthylene	1.88598	1.84960	0.010	-1.9	50.0
80 1,2-Dinitrobenzene	0.12987	0.13543	0.010	4.3	50.0
81 3-Nitroaniline	0.23226	0.26735	0.010	15.1	50.0
82 Acenaphthene	1.19338	1.17110	0.010	-1.9	20.0
83 2,4-Dinitrophenol	0.09437	0.07039	0.050	-25.4	50.0
85 4-Nitrophenol	0.27934	0.33412	0.050	19.6	50.0
86 Dibenzofuran	1.65724	1.60487	0.010	-3.2	50.0
87 2,4-Dinitrotoluene	0.34419	0.36265	0.010	5.4	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.34219	0.010	2.6	50.0
93 Diethylphthalate	1.32439	1.34508	0.010	1.6	50.0
94 Fluorene	1.39747	1.37428	0.010	-1.7	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.71314	0.010	-0.8	50.0
96 4-Nitroaniline	0.20522	0.26796	0.010	30.6	50.0
98 4,6-Dinitro-2-methylphenol	0.10945	0.09001	0.010	-17.8	50.0
99 N-Nitrosodiphenylamine	0.59293	0.55882	0.010	-5.8	20.0
100 1,2-Diphenylhydrazine	1.65507	1.75092	0.010	5.8	50.0
106 4-Bromophenyl-phenylether	0.25815	0.23582	0.010	-8.6	50.0
107 Hexachlorobenzene	0.24860	0.21315	0.010	-14.3	50.0
212 Atrazine	0.24644	0.24116	0.010	-2.1	50.0
111 Pentachlorophenol	0.12977	0.11458	0.010	-11.7	20.0
115 Phenanthrene	1.26940	1.20147	0.010	-5.4	50.0
116 Anthracene	1.20251	1.22278	0.010	1.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:12
 Lab File ID: 6SM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRP	RP16	MIN RRP	RD	MAX RD
119 Carbazole	0.96295	1.02624	0.010	6.6	50.0
120 Di-n-Butylphthalate	1.44679	1.37624	0.010	-4.9	50.0
123 Fluoranthene	1.40173	1.43735	0.010	2.5	20.0
124 Benzidine	0.24938	0.37666	0.010	50.0	50.0 <-
125 Pyrene	1.34735	1.20525	0.010	-10.5	50.0
131 Butylbenzylphthalate	0.55844	0.49482	0.010	-11.4	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.23075	0.010	5.2	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.41990	0.010	0.2	50.0
136 Benzo(a)Anthracene	1.31224	1.25650	0.010	-4.2	50.0
137 Chrysene	1.04593	1.00378	0.010	-4.0	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.20071	0.010	-6.3	50.0
139 bis(2-ethylhexyl)Phthalate	0.80257	0.73196	0.010	-8.8	50.0
140 Di-n-octylphthalate	1.95527	1.85177	0.010	-5.3	20.0
141 Benzo(b)fluoranthene	1.48220	1.43497	0.010	-3.2	50.0
142 Benzo(k)fluoranthene	1.48466	1.47953	0.010	-0.3	50.0
146 Benzo(a)pyrene	1.27767	1.26114	0.010	-1.3	20.0
149 Indeno(1,2,3-cd)pyrene	0.99189	0.95043	0.010	-4.2	50.0
150 Dibenz(a,h)anthracene	0.97805	0.98640	0.010	0.9	50.0
151 Benzo(g,h,i)perylene	0.99470	0.93694	0.010	-5.8	50.0
\$ 154 Nitrobenzene-d5	0.73982	0.83059	0.010	12.3	50.0
\$ 155 2-Fluorobiphenyl	1.41472	1.36277	0.010	-3.7	50.0
\$ 156 Terphenyl-d14	0.88937	0.79501	0.010	-10.6	50.0
\$ 157 Phenol-d5	2.25230	2.25847	0.010	0.3	50.0
\$ 158 2-Fluorophenol	1.48935	1.48911	0.010	-0.0	50.0
\$ 159 2,4,6-Tribromophenol	0.15413	0.14623	0.010	-5.1	50.0
\$ 186 2-Chlorophenol-d4	1.21472	1.17053	0.010	-3.6	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99746	0.94965	0.010	-4.8	50.0
M 195 Cresols, total	3.37721	3.28397	0.010	-2.8	50.0
101 Diphenylamine	0.59293	0.55882	0.010	-5.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:49
 Lab File ID: 6AM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.21026	1.20321	0.010	-0.6	50.0
8 Ethyl methanesulfonate	2.02308	1.97743	0.010	-2.3	50.0
14 2-Picoline	2.29335	2.21054	0.010	-3.6	50.0
15 N-Nitrosomethylethylamine	1.00692	0.95021	0.010	-5.6	50.0
16 Methyl methanesulfonate	1.85491	1.74105	0.010	-6.1	50.0
18 1,3-Dichloro-2-propanol	2.77908	2.74524	0.010	-1.2	50.0
19 N-Nitrosodiethylamine	0.93230	0.87915	0.010	-5.7	50.0
25 Pentachloroethane	0.66963	0.63712	0.010	-4.9	50.0
36 N-Nitrosopyrrolidine	0.92094	0.88331	0.010	-4.1	50.0
37 Acetophenone	2.76739	2.57281	0.010	-7.0	50.0
39 o-Toluidine	2.99590	2.77237	0.010	-7.5	50.0
40 N-Nitrosopiperidine	0.21543	0.20187	0.010	-6.3	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.21560	0.010	-13.7	50.0
53 a,a-Dimethyl-phenethylamine	0.72929	0.89957	0.010	23.3	50.0
54 2,6-Dichlorophenol	0.33267	0.29425	0.010	-11.5	50.0
55 Hexachloropropene	0.28078	0.23628	0.010	-15.9	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.46519	0.010	-4.0	50.0
60 p-Phenylene diamine	0.31590	0.32684	0.010	3.5	50.0
61 Safrole	0.34043	0.30816	0.010	-9.5	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.62828	0.010	-10.4	50.0
71 Isosafrole 1	0.15169	0.15018	0.010	-1.0	50.0
M 188 Isosafrole, Total	1.30730	1.20115	0.010	-8.1	50.0
72 Isosafrole 2	1.15561	1.05097	0.010	-9.1	50.0
75 1,4-Naphthoquinone	0.40946	0.39316	0.010	-4.0	50.0
84 Pentachlorobenzene	0.58364	0.52905	0.010	-9.4	50.0
89 1-Naphthylamine	0.99392	1.03514	0.010	4.1	50.0
92 2-Naphthylamine	0.89000	0.96607	0.010	8.5	50.0
90 Zinophos	0.46777	0.48892	0.010	4.5	50.0
102 Tetraethyl dithiopyrophosph	0.13547	0.12421	0.010	-8.3	50.0
103 Diallate 1	1.15955	1.13169	0.010	-2.4	50.0
M 189 Diallate, Total	4.52569	4.72052	0.010	4.3	50.0
109 Diallate 2	0.17053	0.17168	0.010	0.7	50.0
104 Phorate	0.19886	0.17713	0.010	-10.9	50.0
105 1,3,5-Trinitrobenzene	0.06769	0.06059	0.010	-10.5	50.0
108 Phenacetin	0.48707	0.49821	0.010	2.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 13-JUL-2000 19:49
 Lab File ID: 6AM0713A.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00713b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.45104	0.45996	0.010	2.0	50.0
112 Pentachloronitrobenzene	0.17655	0.15414	0.010	-12.7	50.0
113 4-Aminobiphenyl	0.74968	0.63070	0.010	-15.9	50.0
114 Pronamide	0.43415	0.41167	0.010	-5.2	50.0
117 Dinoseb	0.15533	0.09293	0.010	40.2	50.0
118 Disulfoton	0.69408	0.68002	0.010	5.0	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.04539	0.010	-33.2	50.0
122 Methapyrilene	0.42544	0.49662	0.010	16.7	50.0
126 Aramite 1	0.08535	0.07756	0.010	-9.1	50.0
M 191 Aramite, Total	0.57215	0.59377	0.010	3.8	50.0
127 Aramite 2	0.11751	0.11002	0.010	-6.4	50.0
128 p-Dimethylamino azobenzene	0.33102	0.29474	0.010	-11.0	50.0
129 p-Chlorobenzilate	0.69635	0.63032	0.010	-9.5	50.0
130 Famphur	0.34417	0.42300	0.010	22.9	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.48826	0.010	5.1	50.0
134 2-Acetylaminofluorene	0.47056	0.43180	0.010	-8.2	50.0
143 7,12-dimethylbenz[a]anthrac	0.90409	0.71144	0.010	-21.3	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.86822	0.64303	0.010	-25.9	50.0
193 3-Methylphenol	1.91571	1.80263	0.010	-5.9	50.0
69 1,4-Dinitrobenzene	0.15852	0.16609	0.010	4.8	50.0
77 m-Dinitrobenzene	0.17536	0.19133	0.010	9.1	50.0
198 1,4-Dioxane	0.82298	0.60766	0.010	26.2	50.0
88 2,3,4,6-Tetrachlorophenol	0.27948	0.26111	0.010	-6.6	50.0
97 5-Nitro-o-toluidine	0.27571	0.30067	0.010	9.1	50.0
199 3-Picoline	2.02308	1.88561	0.010	-6.8	50.0
200 N,N-Dimethylacetamide	1.13415	1.13526	0.010	0.1	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 9DF0710A

DFTPP Injection Date: 07/10/00

Instrument ID: A4HP9

DFTPP Injection Time: 0832

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.3
68	Less than 2.0% of mass 69	0.6 (1.2)1
69	Mass 69 relative abundance	56.0
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	52.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	59.7
443	17.0 - 23.0% of mass 442	11.7 (19.7)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD002	SSTD002	9AL0710	07/10/00	1130
02	SSTD005	SSTD005	9AML0710	07/10/00	1208
03	SSTD008	SSTD008	9AM0710	07/10/00	1245
04	SSTD012	SSTD012	9AMH0710	07/10/00	1323
05	SSTD016	SSTD016	9AH0710	07/10/00	1401
06	SSTD020	SSTD020	9AHH0710	07/10/00	1439
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08					
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22					

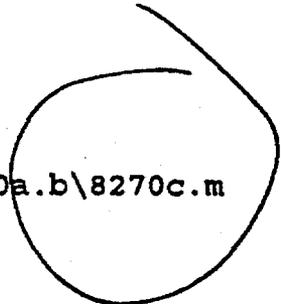
STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-JUN-2000 09:05
 End Cal Date : 10-JUL-2000 14:39
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\8270c.m
 Cal Date : 10-Jul-2000 15:45 gruberj
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\9AL0710.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\9AML0710.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\9AM0710.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\9AMH0710.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\9AH0710.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\9AHH0710.D



Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.93366	0.89733	0.86426	0.88527	0.84569	0.80259	0.87147	5.180
7 N-Nitrosomorpholine	1.04861	1.05866	0.98106	0.96443	0.91806	0.89247	0.97555	7.156
8 Ethyl methanesulfonate	1.56458	1.53870	1.51060	1.55861	1.52269	1.48999	1.53086	1.874
9 Pyridine	1.46603	1.69281	1.74476	1.78295	1.74645	1.99828	1.73855	9.825
10 N-Nitrosodimethylamine	1.25552	1.28355	1.25056	1.27079	1.23612	1.26611	1.26044	1.321
11 Ethyl methacrylate	1.90434	1.85290	1.77839	1.75166	1.64374	1.86175	1.79880	5.257
12 3-Chloropropionitrile	1.08551	1.12136	1.09110	1.11782	1.09495	1.07727	1.09800	1.620
13 Malononitrile	1.93705	2.03864	1.94562	1.95592	1.96618	1.89072	1.95569	2.469
14 2-Picoline	1.89383	1.97355	1.88158	2.03429	1.97801	1.95009	1.95189	2.921
15 N-Nitrosomethylethylamine	0.95192	0.93985	0.95871	1.00613	0.99337	0.97498	0.97083	2.620
16 Methyl methanesulfonate	1.31330	1.30879	1.18838	1.27282	1.22122	1.18968	1.25403	5.149
18 1,3-Dichloro-2-propanol	2.22860	2.18629	2.15218	2.17329	2.09931	2.07017	2.15164	2.707
19 N-Nitrosodiethylamine	0.90832	0.89241	0.86547	0.87384	0.84954	0.82747	0.86952	3.346
21 Aniline	2.26191	2.30714	2.37509	2.54045	2.64258	2.45430	2.43025	5.944
22 Phenol	2.29262	2.43755	2.18459	2.17902	2.11528	2.03806	2.20785	6.364
23 bis(2-Chloroethyl)ether	2.05591	1.94715	1.91590	1.82217	1.69735	1.69734	1.85597	7.746
24 2-Chlorophenol	1.30374	1.26141	1.23594	1.22358	1.22156	1.16114	1.23440	3.836
25 Pentachloroethane	0.62395	0.59998	0.59391	0.60144	0.59081	0.58373	0.59897	2.308
26 1,3-Dichlorobenzene	1.54548	1.45148	1.43075	1.39983	1.37950	1.34522	1.43204	5.201
27 1,4-Dichlorobenzene	2.54665	1.47865	1.43676	1.39609	1.37187	1.33617	1.42920	5.332
28 1,2-Dichlorobenzene	1.41777	1.32598	1.27253	1.25544	1.22104	1.17903	1.27663	6.582
29 Benzyl Alcohol	0.97401	0.98312	0.95718	0.95612	0.96697	0.88587	0.95337	3.605
30 2-Methylphenol	1.51388	1.50026	1.46270	1.46406	1.49594	1.38030	1.47302	3.291
31 bis(2-Chloroisopropyl)ether	2.64293	2.46042	2.64889	2.27002	2.16260	2.11015	2.38250	9.933
32 N-Nitroso-di-n-propylamine	1.60115	1.52173	1.44912	1.44181	1.43049	1.33027	1.46361	6.318

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-JUN-2000 09:05
 End Cal Date : 10-JUL-2000 14:39
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\8270c.m
 Cal Date : 10-Jul-2000 15:45 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.95691	2.91097	2.82177	2.83980	2.84170	2.62705	2.83303	3.997
192 4-Methylphenol	1.44304	1.41071	1.35907	1.35484	1.34576	1.24669	1.36002	4.936
193 3-Methylphenol	1.32482	1.50271	1.45421	1.52131	1.47584	1.45387	1.45546	4.765
34 Hexachloroethane	0.76217	0.73252	0.72721	0.69859	0.68792	0.66412	0.71209	4.953
35 Nitrobenzene	0.65868	0.65011	0.61246	0.58116	0.56795	0.56211	0.60541	6.910
36 N-Nitrosopyrrolidine	0.74504	0.77072	0.74246	0.76012	0.73509	0.72252	0.74599	2.317
37 Acetophenone	2.19036	2.18050	2.09231	2.13652	2.08168	2.01811	2.11658	3.093
39 o-Toluidine	2.02015	2.10787	2.11717	2.16489	2.09757	1.97857	2.08104	3.297
40 N-Nitrosopiperidine	0.21194	0.21088	0.20372	0.21175	0.20677	0.20280	0.20798	1.980
41 Isophorone	1.18030	1.14882	1.11116	1.01404	1.01882	0.96791	1.07351	7.923
42 2-Nitrophenol	0.16840	0.16481	0.16049	0.15632	0.16085	0.15162	0.16041	3.713
43 2,4-Dimethylphenol	0.43228	0.44620	0.42984	0.40939	0.42258	0.40238	0.42378	3.773
44 bis(2-Chloroethoxy)methane	0.65497	0.64984	0.58900	0.58086	0.58063	0.55061	0.60065	6.956
45 O,O,O-Triethyl phosphorothioa	0.21383	0.20469	0.19923	0.20495	0.19877	0.19450	0.20249	3.389
46 2,4-Toluenediamine	++++	++++	++++	++++	++++	++++	++++	++++ <-
47 1,3,5-Trichlorobenzene	0.36386	0.34257	0.32638	0.29725	0.28912	0.28646	0.31666	9.930
48 2,4-Dichlorophenol	0.26433	0.27254	0.26379	0.25784	0.26611	0.24702	0.26195	3.329
49 Benzoic Acid	++++	0.10044	0.11479	0.12113	0.13050	0.12206	0.11778	9.503 <-
50 1,2,4-Trichlorobenzene	0.33396	0.31829	0.31073	0.28382	0.28118	0.27298	0.30016	8.091
51 Naphthalene	1.06549	1.01945	0.97791	0.91553	0.90145	0.88225	0.96035	7.571
52 4-Chloroaniline	0.30833	0.31286	0.30751	0.33161	0.35376	0.32403	0.32302	5.502
53 a,a-Dimethyl-phenethylamine	0.57373	0.93555	1.04402	1.10259	1.08313	1.00187	0.95682	20.589
54 2,6-Dichlorophenol	0.24679	0.26398	0.25271	0.27083	0.25761	0.25615	0.25801	3.278
55 Hexachloropropene	0.18964	0.21320	0.20281	0.22259	0.21552	0.21790	0.21028	5.734
56 Hexachlorobutadiene	0.21968	0.20941	0.19360	0.18654	0.18594	0.18124	0.19607	7.752
57 1,2,3-Trichlorobenzene	0.33411	0.31324	0.30136	0.28078	0.27932	0.27179	0.29677	8.074
58 N-Nitrosodi-n-butylamine	0.37077	0.39268	0.37308	0.37383	0.36223	0.35981	0.37040	2.255
59 4-Chloro-3-Methylphenol	0.32872	0.34997	0.34152	0.33435	0.36031	0.32334	0.33970	4.658
60 p-Phenylene diamine	0.08526	0.11742	0.12465	0.23837	0.26508	0.23234	0.19685	38.200
61 Safrole	0.28888	0.28812	0.27716	0.28362	0.27475	0.27346	0.28100	2.414
62 2-Methylnaphthalene	0.65635	0.63568	0.61352	0.56691	0.59898	0.56273	0.61019	5.658
63 1-Methylnaphthalene	0.68162	0.65538	0.62543	0.59318	0.60302	0.56588	0.62071	6.843
64 Hexachlorocyclopentadiene	0.26690	0.31753	0.32906	0.30360	0.33860	0.31932	0.31240	8.040

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-JUN-2000 09:05
 End Cal Date : 10-JUL-2000 14:39
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\8270c.m
 Cal Date : 10-Jul-2000 15:45 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.58490	0.54080	0.54346	0.55790	0.53606	0.53118	0.54905	3.598
66 2,4,6-Trichlorophenol	0.33549	0.35535	0.34680	0.34281	0.38087	0.34192	0.35054	4.631
67 2,4,5-Trichlorophenol	0.29861	0.34254	0.33415	0.32876	0.35517	0.34024	0.33125	5.751
68 1,2,3,5-Tetrachlorobenzene	0.58582	0.55197	0.53266	0.50944	0.52244	0.50449	0.53447	5.695
69 1,4-Dinitrobenzene	0.12236	0.16354	0.17100	0.18402	0.17292	0.17758	0.16523	13.364
70 2-Chloronaphthalene	1.04232	1.00171	0.98638	0.92891	0.95437	0.92221	0.97265	4.751
71 Isosafrole 1	0.14714	0.14465	0.15080	0.15885	0.15144	0.15186	0.15079	3.216
M 199 Isosafrole, Total	0.98796	0.97559	0.96638	1.01193	0.95737	0.96100	0.98004	2.049
72 Isosafrole 2	0.84082	0.83094	0.83558	0.85308	0.80593	0.80913	0.82925	2.219
73 2-Nitroaniline	0.38910	0.42212	0.40876	0.42868	0.46966	0.42656	0.42415	6.297
74 1,2,3,4-Tetrachlorobenzene	0.53118	0.50954	0.49471	0.48225	0.49206	0.47386	0.49727	4.129
75 1,4-Naphthoquinone	0.28559	0.35449	0.35663	0.38466	0.36457	0.36795	0.35231	9.763
76 Dimethylphthalate	1.29621	1.29594	1.22652	1.20518	1.12285	1.19034	1.22284	5.438
77 m-Dinitrobenzene	0.14372	0.18233	0.18800	0.20045	0.18814	0.18796	0.18277	10.766
78 2,6-Dinitrotoluene	0.24621	0.25575	0.25212	0.24036	0.22508	0.23467	0.24236	4.708
79 Acenaphthylene	1.69319	1.66552	1.57738	1.50924	1.57235	1.49455	1.58877	5.068
80 1,2-Dinitrobenzene	0.12154	0.12696	0.13042	0.11915	0.12717	0.13018	0.12757	2.584
81 3-Nitroaniline	0.19347	0.19617	0.19110	0.20706	0.21190	0.21275	0.19939	6.547
82 Acenaphthene	1.09074	1.06438	1.02512	0.97959	1.02711	0.97717	1.02735	4.395
83 2,4-Dinitrophenol	++++	0.05998	0.07002	0.09768	0.12251	0.09886	0.09982	27.811<-
84 Pentachlorobenzene	0.43586	0.41935	0.42121	0.42977	0.41278	0.41680	0.42329	2.337
85 4-Nitrophenol	0.10938	0.13730	0.16392	0.18238	0.20265	0.17456	0.16153	20.725 SET
86 Dibenzofuran	1.37190	1.34879	1.28698	1.26643	1.34313	1.25939	1.31277	3.634
87 2,4-Dinitrotoluene	0.30223	0.32119	0.31750	0.31933	0.32046	0.32067	0.31690	2.305
88 2,3,4,6-Tetrachlorophenol	0.11691	0.18753	0.19283	0.21859	0.21746	0.23005	0.19506	21.096
89 1-Naphthylamine	0.71477	0.80851	0.84728	0.87195	0.85161	0.85951	0.82560	7.067
90 Zincofos	0.37998	0.32211	0.40005	0.39745	0.38534	0.37906	0.38299	2.293
91 2,3,5,6-Tetrachlorophenol	0.28284	0.25626	0.25242	0.25263	0.28337	0.25667	0.25403	7.572
92 2-Naphthylamine	0.63311	0.75793	0.75869	0.70945	0.71645	0.71395	0.71492	6.406
93 Diethylphthalate	1.25354	1.25952	1.22405	1.15114	1.06367	1.15881	1.18512	6.352
94 Fluorene	1.13733	1.13633	1.09706	1.06997	1.14634	1.06994	1.10933	3.139
95 4-Chlorobiphenyl-phenylether	0.57228	0.56652	0.56158	0.53498	0.56938	0.53088	0.55592	3.273
96 4-Nitroaniline	0.17117	0.15525	0.18857	0.20551	0.22472	0.20339	0.19144	13.167

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-JUN-2000 09:05
 End Cal Date : 10-JUL-2000 14:39
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp9.i\00710a.b\8270c.m
 Cal Date : 10-Jul-2000 15:45 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
97 5-Nitro-o-toluidine	0.19557	0.26698	0.26497	0.27407	0.27054	0.26481	0.25616	11.670
98 4,6-Dinitro-2-methylphenol	0.07826	0.11135	0.11787	0.13003	0.13056	0.12808	0.11602	17.256
99 N-Nitrosodiphenylamine	0.57886	0.58684	0.56368	0.54812	0.49203	0.53038	0.54998	6.364
100 1,2-Diphenylhydrazine	1.32885	1.40607	1.35680	1.27057	1.10785	1.23368	1.29564	8.889
101 Diphenylamine	0.57886	0.58684	0.56368	0.54812	0.49203	0.53038	0.54998	6.364
102 Tetraethyl dithiopyrophosphat	0.12316	0.11782	0.12371	0.12069	0.11762	0.11539	0.11973	2.783
103 Diallate 1	1.20273	1.03291	1.03614	0.95724	0.89504	0.85047	0.99575	12.590
M 103 Diallate, Total	3.74733	3.69140	3.51873	3.29506	3.12571	3.00477	3.39732	8.946
104 Phorate	0.20717	0.19007	0.19739	0.18709	0.17839	0.17638	0.18945	6.179
105 1,3,5-Trinitrobenzene	0.04202	0.07036	0.09182	0.09802	0.09006	0.08864	0.07663	24.135
106 4-Bromophenyl-phenylether	0.21075	0.21110	0.20809	0.19672	0.17777	0.19135	0.19230	6.660
107 Hexachlorobenzene	0.23254	0.23026	0.22194	0.20358	0.21044	0.20040	0.21664	6.322
108 Phenacetin	0.27985	0.41879	0.44878	0.47041	0.46378	0.45036	0.42200	17.031
109 Diallate 2	0.20359	0.18465	0.19599	0.19486	0.18826	0.18425	0.19193	3.941
110 Dimethoate	0.38089	0.45241	0.47789	0.46208	0.45002	0.44936	0.44544	7.502
111 Pentachlorophenol	0.08199	0.11517	0.11940	0.11785	0.12239	0.11649	0.11205	13.320
112 Pentachloronitrobenzene	0.12767	0.12699	0.11142	0.13057	0.12599	0.12763	0.12836	1.661
113 4-Aminobiphenyl	0.44315	0.47066	0.53666	0.57691	0.59753	0.56603	0.53082	11.649
114 Pronamide	0.37111	0.37424	0.39407	0.38212	0.37426	0.37021	0.37767	2.400
115 Phenanthrene	1.18380	1.14418	1.11706	1.04730	0.96841	1.01185	1.07877	7.692
116 Anthracene	1.01921	1.04751	1.05908	0.98196	0.86629	0.94656	0.99510	6.982
117 Dinoseb	++++	0.12036	0.13392	0.16039	0.16800	0.17918	0.15463	15.692 <-
118 Disulfoton	0.71859	0.65104	0.68348	0.62423	0.58912	0.56116	0.63794	9.205
119 Carbazole	0.91631	0.90035	0.84202	0.95749	0.81385	0.85080	0.86347	4.416
120 Di-n-Butylphthalate	1.50912	1.56463	1.47589	1.30620	1.13819	1.23263	1.37211	12.346
121 4-Nitroquinoline 1-oxide	++++	0.03172	0.03609	0.05592	0.05473	0.06395	0.04677	28.558 <-
122 Methapyrilene	0.31161	0.47791	0.46235	0.48559	0.47381	0.38247	0.43229	16.224
123 Fluoranthene	1.23196	1.21501	1.17887	1.11927	1.03326	1.05068	1.13818	7.391
124 Benzidine	0.13381	0.12695	0.16611	0.32538	0.41579	0.38193	0.25808	50.801 <-
125 Pyrene	1.75750	1.80152	1.71031	1.57590	1.55426	1.59362	1.66419	6.338
126 Aramite 1	0.08629	0.09088	0.19502	0.09831	0.10299	0.10202	0.09758	7.633
M 126 Aramite, Total	0.34185	0.48680	0.49330	0.49380	0.49630	0.50257	0.46960	13.059
127 Aramite 2	0.12863	0.12870	0.14744	0.13460	0.14147	0.14135	0.13728	5.521

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-JUN-2000 09:05
 End Cal Date : 10-JUL-2000 14:39
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\8270c.m
 Cal Date : 10-Jul-2000 15:45 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28771	0.30464	0.33592	0.31801	0.32598	0.31899	0.31521	5.375
129 p-Chlorobenzilate	0.73097	0.63237	0.71645	0.63848	0.65852	0.64840	0.67086	6.281
130 Famphur	0.53751	0.54268	0.54389	0.39370	0.36170	0.33387	0.45223	21.999
131 Butylbenzylphthalate	0.72571	0.81879	0.77790	0.73486	0.72754	0.73833	0.75386	4.921
132 3,3'-Dimethylbenzidine	0.21032	0.23927	0.35734	0.32753	0.41691	0.33463	0.31434	24.399
133 3,3'-Dimethoxybenzidine	0.11415	0.09903	0.11472	0.18632	0.21879	0.22560	0.15977	35.762
134 2-Acetylaminofluorene	0.16982	0.34672	0.38962	0.46359	0.44818	0.48714	0.38268	31.426
135 3,3'-Dichlorobenzidine	0.30323	0.32709	0.33870	0.37190	0.43550	0.38043	0.35614	11.447
136 Benzo(a)Anthracene	1.24639	1.29938	1.29714	1.27980	1.30600	1.28748	1.28603	1.672
137 Chrysene	1.25066	1.24642	1.23375	1.16889	1.23203	1.20953	1.22354	2.484
138 4,4'-Methylene bis(o-chlorosa)	0.18977	0.18234	0.19354	0.21312	0.23168	0.21941	0.20498	9.416
139 Bis(2-ethylhexyl)Phthalate	1.06372	1.15747	1.13923	0.97485	0.98602	1.00811	1.05473	7.452
140 Di-n-octylphthalate	1.73745	2.18110	2.11734	1.94389	1.92721	1.93308	1.97385	8.024
141 Benzo(b)fluoranthene	1.26176	1.33823	1.37026	1.27842	1.38835	1.33327	1.32936	3.750
142 Benzo(k)fluoranthene	1.32671	1.36529	1.39030	1.33824	1.31573	1.32309	1.34789	1.876
143 7,12-dimethylbenz(a)anthracen	0.84750	0.77811	0.69031	0.83648	0.85736	0.82031	0.80501	7.788
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachloropheno product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.08713	1.13932	1.15669	1.11567	1.17950	1.12443	1.13375	2.855
148 3-Methylcholanthrene	0.61316	0.70019	0.59301	0.78202	0.76385	0.77100	0.70392	11.842
149 Indeno(1,2,3-cd)pyrene	0.92757	1.00628	1.03490	1.02872	1.10170	1.01411	1.01685	5.506
150 Dibenz(a,h)anthracene	0.75002	0.82089	0.83842	0.85128	0.91022	0.82352	0.83239	6.230
151 Benzo(g,h,i)perylene	0.86069	0.87182	0.87813	0.87495	0.90444	0.83360	0.87065	2.659
199 3-Picoline	1.45339	1.61156	1.55239	1.68733	1.64348	1.59822	1.59098	5.083
200 N,N-Dimethylacetamide	1.37290	1.45899	1.42716	1.48982	1.46465	1.41511	1.43815	2.901
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzocanthiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridino	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.85423	0.95015	1.06793	1.17164	1.18080	1.06896	1.04894	12.125

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 15-JUN-2000 09:05
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00710a.b\8270c.m
 Cal Date : 10-Jul-2000 15:45 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Ceprolactam	0.10350	0.11336	0.12105	0.12354	0.12197	0.12038	0.11730	6.496
211 1,1'-Biphenyl	1.33742	1.27519	1.20090	1.17907	1.19585	1.15716	1.22438	5.575
212 Atrazine	0.23169	0.23360	0.23208	0.21806	0.19403	0.20681	0.21938	7.400
\$ 151 Nitrobenzene-d5	0.65499	0.64161	0.63328	0.58151	0.57909	0.56338	0.60998	6.360
\$ 155 2-Fluorobiphenyl	1.30762	1.26028	1.22360	1.16993	1.21825	1.16213	1.22363	4.490
\$ 156 Terphenyl-d14	1.05899	1.10260	1.04678	0.98640	0.98305	0.98434	1.02703	4.974
\$ 157 Phenol-d5	1.95717	1.99617	1.92190	1.95210	1.94911	1.84741	1.93731	2.565
\$ 159 2-Fluorophenol	1.48864	1.53039	1.53774	1.49540	1.48774	1.48847	1.50473	1.529
\$ 159 2,4,6-Tribromophenol	0.09741	0.10720	0.10897	0.10858	0.11413	0.11024	0.10760	5.170
\$ 186 2-Chlorophenol-d4	1.15528	1.12190	1.10739	1.07288	1.06786	1.01242	1.08962	4.567
\$ 187 1,2-Dichlorobenzene-d4	0.90949	0.83182	0.82336	0.78319	0.77213	0.73788	0.80964	7.391

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP014
 Lab File ID: 9DF0710G DFTPP Injection Date: 07/10/00
 Instrument ID: A4HP9 DFTPP Injection Time: 1511

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.7
68	Less than 2.0% of mass 69	0.9 (1.6)1
69	Mass 69 relative abundance	56.9
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	52.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	9.5
442	Greater than 40.0% of mass 198	55.5
443	17.0 - 23.0% of mass 442	11.9 (21.5)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSID008	SSID008	9SMO710G	07/10/00	1533
02	ASTD008	ASTD008	9AMO710G	07/10/00	1611
03	DFNWWBLK	DFNWW101	DFNWW101	07/10/00	1648
04	DFNWWCHK	DFNWW102	DFNWW102	07/10/00	1726
05	MPT-G4-SU-01	DFL4J10W	DFL4J10W	07/10/00	1803
06	MPT-G4-SU-02	DFM0810W	DFM0810W	07/10/00	1841
07	MPT-G4-SU-03	DFM0910W	DFM0910W	07/10/00	1918
08	MPT-G4-SU-04	DFM0A10W	DFM0A10W	07/10/00	1955
09	MPT-G4-SU-05	DFM0C10W	DFM0C10W	07/10/00	2033
10	MPT-G4-SU-06	DFM0D10W	DFM0D10W	07/10/00	2110
11	MPT-G4-SU-07	DFM0E10W	DFM0E10W	07/10/00	2147
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i
 Lab File ID: 9SM0710G.D
 Analysis Type:
 Lab Sample ID: sstd008
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

Injection Date: 10-JUL-2000 15:33
 Init. Cal. Date(s): ~~15-JUN-2000~~ 10-JUL-2000
 Init. Cal. Times: 09:05 14:39
 Quant Type: ISTD

26-Jun-2000

7-11-00

COMPOUND	RRP	RF16	MIN RRP	%D	MAX %D
9 Pyridine	1.73855	1.83016	0.010	5.3	50.0
10 N-Nitrosodimethylamine	1.26044	1.36197	0.010	8.1	50.0
11 Ethyl methacrylate	1.79880	1.83170	0.010	1.8	50.0
12 3-Chloropropionitrile	1.09800	1.13206	0.010	3.1	50.0
13 Malononitrile	1.95569	1.72311	0.010	-11.9	50.0
21 Aniline	2.43025	2.49417	0.010	2.6	50.0
22 Phenol	2.20785	2.28335	0.010	3.4	20.0
23 bis(2-Chloroethyl) ether	1.85597	1.84620	0.010	-0.5	50.0
24 2-Chlorophenol	1.23440	1.22725	0.010	-0.6	50.0
26 1,3-Dichlorobenzene	1.43204	1.42043	0.010	-0.8	50.0
27 1,4-Dichlorobenzene	1.42820	1.43135	0.010	0.2	20.0
28 1,2-Dichlorobenzene	1.27863	1.28868	0.010	0.8	50.0
29 Benzyl Alcohol	0.95337	0.94981	0.010	-0.4	50.0
30 2-Methylphenol	1.47302	1.43723	0.010	-2.4	50.0
31 bis(2-Chloroisopropyl) ether	2.38250	2.41129	0.010	1.2	50.0
32 N-Nitroso-di-n-propylamine	1.46364	1.41738	0.050	-3.2	50.0
192 4-Methylphenol	1.36002	1.35841	0.010	-0.1	50.0
34 Hexachloroethane	0.71209	0.74151	0.010	4.1	50.0
35 Nitrobenzene	0.60541	0.60167	0.010	-0.6	50.0
41 Isophorone	1.07351	1.09195	0.010	1.7	50.0
42 2-Nitrophenol	0.16041	0.16896	0.010	5.3	20.0
43 2,4-Dimethylphenol	0.42378	0.42656	0.010	0.7	50.0
44 bis(2-Chloroethoxy) methane	0.60065	0.58789	0.010	-2.1	50.0
46 2,4-Toluediamene	+++	0.01005	0.010	+++	50.0
47 1,3,5-Trichlorobenzene	0.31666	0.32417	0.010	2.4	50.0
48 2,4-Dichlorophenol	0.26195	0.26410	0.010	0.8	20.0
49 Benzoic Acid	0.11778	0.07935	0.010	-27.6	50.0
50 1,2,4-Trichlorobenzene	0.30016	0.31022	0.010	3.4	50.0
51 Naphthalene	0.96035	0.97791	0.010	1.8	50.0
52 4-Chloroaniline	0.32302	0.32891	0.010	1.5	50.0
56 Hexachlorobutadiene	0.19607	0.19408	0.010	-1.0	20.0
57 1,2,3-Trichlorobenzene	0.30677	0.30015	0.010	1.1	50.0
59 4-Chloro-3-Methylphenol	0.33970	0.35925	0.010	5.8	20.0
62 2-Methylnaphthalene	0.61019	0.64152	0.010	5.1	50.0
63 1-Methylnaphthalene	0.62974	0.64426	0.010	3.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-JUL-2000 15:33
 Lab File ID: 9SM0710G.D Init. Cal. Date(s): 15-JUN-2000 10-JUL-2000
 Analysis Type: Init. Cal. Times: 09:05 14:39
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
64 Hexachlorocyclopentadiene	0.31240	0.31572	0.050	1.1	50.0
66 2,4,6-Trichlorophenol	0.35054	0.33966	0.010	-3.1	20.0
67 2,4,5-Trichlorophenol	0.33325	0.34151	0.010	2.5	50.0
68 1,2,3,5-Tetrachlorobenzene	0.53447	0.53244	0.010	-0.4	50.0
70 2-Chloronaphthalene	0.97265	0.98806	0.010	1.6	50.0
73 2-Nitroaniline	0.42415	0.44090	0.010	3.9	50.0
74 1,2,3,4-Tetrachlorobenzene	0.49727	0.49288	0.010	-0.9	50.0
76 Dimethylphthalate	1.22284	1.23768	0.010	1.2	50.0
78 2,6-Dinitrotoluene	0.24236	0.26319	0.010	8.6	50.0
79 Acenaphthylene	1.58877	1.60087	0.010	0.8	50.0
80 1,2-Dinitrobenzene	0.12757	0.13720	0.010	7.5	50.0
81 3-Nitroaniline	0.19939	0.22897	0.010	14.8	50.0
82 Acenaphthene	1.02735	1.03655	0.010	0.9	20.0
83 2,4-Dinitrophenol	0.08982	0.07541	0.050	-16.0	50.0
85 4-Nitrophenol	0.16153	0.17236	0.050	6.7	50.0
86 Dibenzofuran	1.31277	1.35954	0.010	3.6	50.0
87 2,4-Dinitrotoluene	0.31690	0.36644	0.010	15.6	50.0
91 2,3,5,6-Tetrachlorophenol	0.25403	0.27060	0.010	6.5	50.0
93 Diethylphthalate	1.18512	1.23722	0.010	4.4	50.0
94 Fluorene	1.10933	1.17754	0.010	6.1	50.0
95 4-Chlorophenyl-phenylether	0.55592	0.58907	0.010	6.0	50.0
96 4-Nitroaniline	0.19144	0.22364	0.010	16.8	50.0
98 4,6-Dinitro-2-methylphenol	0.11602	0.11747	0.010	1.2	50.0
99 N-Nitrosodiphenylamine	0.54928	0.55245	0.010	0.4	20.0
100 1,2-Diphenylhydrazine	1.29564	1.27459	0.010	-1.6	50.0
106 4-Bromophenyl-phenylether	0.19930	0.19990	0.010	0.3	50.0
107 Hexachlorobenzene	0.21664	0.20630	0.010	-4.8	50.0
111 Pentachlorophenol	0.11205	0.10457	0.010	-6.7	20.0
115 Phenanthrene	1.07877	1.12362	0.010	4.2	50.0
116 Anthracene	0.99510	1.09049	0.010	9.6	50.0
117 Carbazole	0.86347	0.98310	0.010	13.9	50.0
120 Di-n-Butylphthalate	1.37211	1.35784	0.010	-1.0	50.0
123 Fluoranthene	1.13818	1.21360	0.010	6.6	20.0
124 Benzidine	0.25868	0.24969	0.010	-3.5	50.0
125 Pyrene	1.66419	1.65931	0.010	-0.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-JUL-2000 15:33
 Lab File ID: 9SM0710G.D Init. Cal. Date(s): 15-JUN-2000 10-JUL-2000
 Analysis Type: Init. Cal. Times: 09:05 14:39
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
131 Butylbenzylphthalate	0.75386	0.75257	0.010	-0.2	50.0
133 3,3'-Dimethoxybenzidine	0.15977	0.15978	0.010	0.0	50.0
135 3,3'-Dichlorobenzidina	0.35614	0.37049	0.010	4.0	50.0
136 Benzo(a)Anthracene	1.28603	1.27859	0.010	-0.6	50.0
137 Chrysen	1.22354	1.17831	0.010	-3.7	50.0
138 4,4'-Methylene bis(o-chloro	0.20498	0.20460	0.010	-0.2	50.0
139 bis(2-ethylhexyl)Phthalate	1.05473	1.06871	0.010	1.3	50.0
140 Di-n-octylphthalate	1.97385	2.01989	0.010	2.3	20.0
141 Benzo(b)fluoranthene	1.32838	1.23439	0.010	-7.1	50.0
142 Benzo(k)fluoranthene	1.34789	1.36212	0.010	1.1	50.0
146 Benzo(a)pyrene	1.13379	1.12681	0.010	-0.6	20.0
149 Indeno(1,2,3-cd)pyrene	1.01885	1.04688	0.010	2.8	50.0
150 Dibenz(a,h)anthracene	0.83239	0.86404	0.010	3.8	50.0
151 Benzo(g,h,i)perylene	0.87065	0.87147	0.010	0.1	50.0
\$ 154 Nitrobenzene-d5	0.60898	0.62853	0.010	3.2	50.0
\$ 155 2-Fluorobiphenyl	1.22363	1.21520	0.010	-0.7	50.0
\$ 156 Terphenyl-d14	1.02703	1.03054	0.010	0.3	50.0
\$ 157 Phenol-d5	1.93731	1.86133	0.010	-3.9	50.0
\$ 158 2-Fluorophenol	1.50473	1.41159	0.010	-6.2	50.0
\$ 159 2,4,6-Tribromophenol	0.10760	0.12231	0.010	13.7	50.0
\$ 186 2-Chlorophenol-d4	1.08962	1.07097	0.010	-1.7	50.0
\$ 187 1,2-Dichlorobenzene-di	0.60964	0.84458	0.010	4.3	50.0
M 195 Cresols, Total	2.83303	2.79564	0.010	-1.3	50.0
101 Diphenylamine	0.51298	0.55245	0.010	0.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i
 Lab File ID: 9AM0710G.D
 Analysis Type:
 Lab Sample ID: astd008
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

Injection Date: 10-JUL-2000 16:11
 Init. Cal. Date(s): ~~15 JUN 2000~~ 10-JUL-2000
 Init. Cal. Times: 09:05 14:39
 Quant Type: ISTD

26-July-2000
97-11-00

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.97555	0.96318	0.010	-1.3	50.0
8 Ethyl methanesulfonate	1.53086	1.38207	0.010	-9.7	50.0
14 2-Picoline	1.95189	1.98837	0.010	1.9	50.0
15 N-Nitrosomethylethylamine	0.97083	0.92673	0.010	-4.5	50.0
16 Methyl methanesulfonate	1.25403	1.21231	0.010	-3.3	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.08532	0.010	-3.1	50.0
19 N-Nitrosodiethylamine	0.86951	0.86057	0.010	-1.0	50.0
25 Pentachloroethane	0.59897	0.56683	0.010	-5.4	50.0
36 N-Nitrosopyrrolidine	0.74599	0.76694	0.010	2.8	50.0
37 Acetophenone	2.11658	2.06449	0.010	-2.5	50.0
39 o-Toluidine	2.08104	2.05554	0.010	-1.2	50.0
40 N-Nitrosopiperidine	0.20798	0.19588	0.010	-5.8	50.0
45 O,O,O-Triethyl phosphorothi	0.20249	0.18542	0.010	-8.4	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.77976	0.010	-18.5	50.0
54 2,6-Dichlorophenol	0.25801	0.23212	0.010	-10.0	50.0
55 Hexachlorocyclopentene	0.21028	0.18897	0.010	-10.1	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.36040	0.010	-2.7	50.0
60 p-Phenylene diamina	0.18885	0.12633	0.010	-33.3	50.0
61 Safrole	0.28100	0.26822	0.010	-4.5	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.48050	0.010	-12.5	50.0
71 Isosafrole 1	0.15079	0.13960	0.010	-7.4	50.0
M 183 Isosafrole, Total	0.98004	0.89234	0.010	-8.9	50.0
72 Isosafrole 2	0.82925	0.75274	0.010	-9.2	50.0
75 1,4-Naphthoquinone	0.35231	0.33443	0.010	-5.1	50.0
84 Pentachlorobenzene	0.42329	0.37517	0.010	-11.4	50.0
89 1-Naphthylamine	0.82560	0.79507	0.010	-3.7	50.0
92 2-Naphthylamine	0.71493	0.63531	0.010	-11.1	50.0
99 Zinophos	0.38899	0.35892	0.010	-7.7	50.0
102 Tetraethyl dithiopyrophosph	0.11973	0.10809	0.010	-9.8	50.0
103 Diallyl 1	0.99575	0.90144	0.010	-9.5	50.0
M 189 Diallyl, Total	3.39732	3.42911	0.010	0.9	50.0
109 Diallyl 2	0.19193	0.16817	0.010	-12.4	50.0
104 Thorate	0.18945	0.17136	0.010	-9.6	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.06495	0.010	-15.5	50.0
108 Phenacetin	0.42200	0.38145	0.010	-9.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-JUL-2000 16:11
 Lab File ID: 9AM0710G.D Init. Cal. Date(s): 15-JUN-2000 10-JUL-2000
 Analysis Type: Init. Cal. Times: 09:05 14:39
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

COMPOUND	RRP	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.44544	0.40231	0.010	-9.7	50.0
112 Pentachloronitrobenzene	0.12838	0.10933	0.010	-14.8	50.0
113 4-Aminobiphenyl	0.53082	0.48117	0.010	-9.4	50.0
114 Pronamide	0.37767	0.33784	0.010	-10.5	50.0
117 Dinoseb	0.15463	0.11450	0.010	26.0	50.0
118 Disulfoton	0.63794	0.57966	0.010	-9.1	50.0
121 4-Nitroquinoline 1-oxide	0.04847	0.02888	0.010	40.4	50.0
122 Methapyrilene	0.43229	0.41801	0.010	-3.3	50.0
126 Aramite 1	0.09758	0.08776	0.010	-10.1	50.0
M 191 Aramite, Total	0.46960	0.49044	0.010	4.4	50.0
127 Aramite 2	0.13728	0.12509	0.010	-8.9	50.0
128 p-Dimethylamino azobenzene	0.31521	0.29301	0.010	-7.0	50.0
129 p-Chlorobenzilate	0.67086	0.58344	0.010	-13.0	50.0
130 Pamphur	0.45223	0.46811	0.010	3.5	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.28608	0.010	-9.0	50.0
134 2-Acetylamino fluorene	0.38268	0.31909	0.010	-16.6	50.0
143 7,12-dimethylbenz[a]anthrac	0.90501	0.78789	0.010	-2.1	50.0
141 Hexachlorophene	++++	++++	0.010	++++	50.0|<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0|<-
148 3-Methylcholanthrene	0.70392	0.70572	0.010	0.3	50.0
193 3-Methylphenol	1.45516	1.32349	0.010	-9.1	50.0
69 1,4-Dinitrobenzene	0.16523	0.11714	0.010	-11.0	50.0
77 m-Dinitrobenzene	0.18177	0.15985	0.010	-12.1	50.0
198 1,4-Dioxane	0.87147	0.80664	0.010	-7.4	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.17816	0.010	-8.7	50.0
97 5-Nitro-o-toluidine	0.25616	0.22792	0.010	-11.0	50.0
199 3-Picoline	1.59098	1.48737	0.010	-6.5	50.0
200 N,N-Dimethylacetamide	1.43815	1.37419	0.010	-4.4	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 9DF0713B

DFTPP Injection Date: 07/13/00

Instrument ID: A4HP9

DFTPP Injection Time: 1000

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.9
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Mass 69 relative abundance	50.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	51.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.7
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than mass 443	10.4
442	Greater than 40.0% of mass 198	63.8
443	17.0 - 23.0% of mass 442	12.3 (19.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	9SML0713	07/13/00	1022
02	SSTD008	SSTD008	9SM0713	07/13/00	1059
03	SSTD002	SSTD002	9SL0713	07/13/00	1136
04	SSTD020	SSTD020	9SHH0713	07/13/00	1213
05	SSTD016	SSTD016	9SH0713	07/13/00	1250
06	SSTD016	SSTD016	9SMH0713	07/13/00	1328
07					
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19					
20					
21					
22					

7/14/00

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 13-JUL-2000 13:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m
 Cal Date : 13-Jul-2000 14:04 gruberj
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\9SL0713.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\9SML0713.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\9SM0713.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\9SMH0713.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\9SH0713.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\9SHH0713.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.93366	0.89733	0.86426	0.88527	0.84569	0.80259	0.87147	5.180
7 N-Nitrosomorpholine	1.04861	1.05866	0.98106	0.96443	0.91806	0.88247	0.97555	7.156
8 Ethyl methanesulfonate	1.56458	1.53870	1.51060	1.55861	1.52269	1.48999	1.53086	1.874
9 Pyridine	1.57932	1.55260	1.51577	1.63479	1.69833	1.66508	1.60765	4.357
10 N-Nitrosodimethylamine	1.06766	1.24963	1.22993	1.15172	1.19916	1.12856	1.17111	5.829
11 Ethyl methacrylate	1.75544	1.75228	1.66472	1.58850	1.64890	1.55826	1.66135	4.906
12 3-Chloropropionitrile	1.05246	1.00592	1.03429	0.98274	1.00968	0.95353	1.00644	3.517
13 Malononitrile	1.75574	1.79714	1.74001	1.69493	1.73358	1.57215	1.71559	4.529
14 2-Picoline	1.89383	1.97355	1.88158	2.03429	1.97802	1.95009	1.95189	2.921
15 N-Nitrosomethylethylamine	0.95192	0.93985	0.95871	1.00613	0.99337	0.97498	0.97083	2.620
16 Methyl methanesulfonate	1.34330	1.30879	1.18838	1.27282	1.22122	1.18968	1.25403	5.149
18 1,3-Dichloro-2-propanol	2.22860	2.18629	2.15218	2.17329	2.09931	2.07017	2.15164	2.707
19 N-Nitrosodiethylamine	0.90832	0.89241	0.86547	0.87384	0.84954	0.82747	0.86951	3.346
21 Aniline	2.30796	2.34408	2.47496	2.46455	2.51184	2.32336	2.40446	3.703
22 Phenol	2.30599	2.28897	2.25702	2.18614	2.23319	2.06379	2.22252	3.984
23 bis(2-Chloroethyl) ether	1.93418	1.80527	1.75400	1.65717	1.68519	1.57999	1.73596	7.173
24 2-Chlorophenol	1.30411	1.27767	1.25487	1.22233	1.26543	1.19185	1.25271	3.205
25 Pentachloroethane	0.62395	0.59998	0.59391	0.60144	0.59081	0.58373	0.59897	2.308
26 1,3-Dichlorobenzene	1.50100	1.49884	1.44384	1.41543	1.47145	1.41097	1.45692	2.731
27 1,4-Dichlorobenzene	1.52669	1.48869	1.46659	1.41679	1.47320	1.40018	1.46202	3.195
28 1,2-Dichlorobenzene	1.39666	1.34731	1.32903	1.27916	1.33217	1.26794	1.32538	3.548
29 Benzyl Alcohol	0.81345	0.85832	0.90129	0.90422	0.93168	0.87921	0.88136	4.705
30 2-Methylphenol	1.44425	1.45177	1.46728	1.42055	1.45894	1.37823	1.43684	2.286
31 bis(2-Chloroisopropyl) ether	2.07684	2.01176	2.15564	1.82681	1.84561	1.71197	1.93810	8.759
32 N-Nitroso-di-n-propylamine	1.54015	1.44986	1.37908	1.33464	1.34848	1.25922	1.38524	7.073

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 13-JUL-2000 13:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\44hp9.i\00713a.b\8270c.m
 Cal Date : 13-Jul-2000 14:04 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.86933	2.86465	2.90514	2.82550	2.88327	2.72303	2.84849	2.351
192 4-Methylphenol	1.42508	1.43288	1.43786	1.40496	1.42433	1.34479	1.41165	2.453
193 3-Methylphenol	1.32482	1.50271	1.45421	1.52131	1.47584	1.45387	1.45546	4.765
34 Hexachloroethane	0.75294	0.72946	0.72669	0.69473	0.72292	0.67997	0.71779	3.654
35 Nitrobenzene	0.61533	0.60971	0.57428	0.56974	0.57362	0.54254	0.58087	4.688
36 N-Nitrosopyrrolidine	0.74504	0.77072	0.74246	0.76012	0.73509	0.72252	0.74599	2.317
37 Acetophenone	2.27663	2.25286	2.23243	2.16865	2.19949	2.07252	2.20043	3.337
39 o-Toluidine	2.02015	2.10787	2.11717	2.16489	2.09757	1.97857	2.08104	3.297
40 N-Nitrosopiperidine	0.21194	0.21088	0.20372	0.21175	0.20677	0.20280	0.20798	1.980
41 Isophorone	1.14891	1.08975	1.06649	1.01445	1.03328	0.97540	1.05472	5.784
42 2-Nitrophenol	0.18128	0.17876	0.17634	0.17689	0.18110	0.17481	0.17820	1.481
43 2,4-Dimethylphenol	0.43376	0.43757	0.42732	0.43022	0.43972	0.42335	0.43199	1.441
44 bis(2-Chloroethoxy)methane	0.62020	0.60686	0.56310	0.57842	0.58370	0.55479	0.58451	4.296
45 O,O,O-Triethyl phosphorothioa	0.21383	0.20469	0.19823	0.20495	0.19877	0.19450	0.20249	3.389
46 2,4-Toluenediamens	++++	++++	++++	++++	++++	++++	++++	++++
47 1,3,5-Trichlorobenzene	0.35880	0.34594	0.33335	0.33111	0.34419	0.32902	0.34040	3.347
48 2,4-Dichlorophenol	0.25118	0.26532	0.26441	0.26707	0.27917	0.27072	0.26631	3.437
49 Benzoic Acid	0.10978	0.17281	0.18549	0.11518	0.14850	0.11851	0.14171	22.738
50 1,2,4-Trichlorobenzene	0.32757	0.31653	0.31883	0.30087	0.31277	0.29984	0.31273	3.440
51 Naphthalene	1.04951	1.02043	0.99856	0.97323	1.00047	0.95527	0.99958	3.344
52 4-Chloroaniline	0.30597	0.30596	0.33819	0.35094	0.35368	0.33332	0.33134	6.361
53 a,a-Dimethyl-phenethylamins	0.57373	0.93555	1.04402	1.10259	1.08313	1.00187	0.95682	20.589
54 2,6-Dichlorophenol	0.24679	0.26398	0.25271	0.27083	0.25761	0.25615	0.25801	3.278
55 Hexachloropropene	0.18964	0.21320	0.20284	0.22259	0.21552	0.21790	0.21028	5.734
56 Hexachlorobutadiene	0.22592	0.22018	0.20359	0.21239	0.21920	0.20900	0.21505	3.816
57 1,2,3-Trichlorobenzene	0.32634	0.31693	0.30884	0.30373	0.31452	0.29916	0.31159	3.140
58 N-Nitrosodi-n-butylamine	0.37077	0.38268	0.37308	0.37383	0.36223	0.35981	0.37040	2.255
59 4-Chloro-3-Methylphenol	0.30034	0.34334	0.34527	0.33985	0.34899	0.33641	0.33570	5.320
60 p-Phenylene diamine	0.08526	0.11742	0.19465	0.23837	0.26508	0.23234	0.18885	38.200
61 Safrole	0.28888	0.28812	0.27716	0.28362	0.27475	0.27348	0.28100	2.414
62 2-Methylnaphthalene	0.65108	0.65005	0.63755	0.63848	0.65041	0.62336	0.64182	1.703
63 1-Methylnaphthalene	0.67754	0.66602	0.64133	0.63865	0.65782	0.63138	0.65212	2.743
64 Hexachlorocyclopentadiene	0.25854	0.31314	0.34254	0.33992	0.35980	0.34918	0.32719	11.316

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 13-JUL-2000 13:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m
 Cal Date : 13-Jul-2000 14:04 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.58490	0.54080	0.54346	0.55790	0.53606	0.53118	0.54905	3.598
66 2,4,6-Trichlorophenol	0.35238	0.36436	0.35550	0.36037	0.38276	0.36992	0.36421	3.026
67 2,4,5-Trichlorophenol	0.31559	0.34092	0.34184	0.33938	0.34327	0.32694	0.33466	3.302
68 1,2,3,5-Tetrachlorobenzene	0.58771	0.56743	0.55496	0.54185	0.57140	0.55468	0.56301	2.844
69 1,4-Dinitrobenzene	0.12236	0.16354	0.17100	0.18402	0.17292	0.17758	0.16523	13.364
70 2-Chloronaphthalene	1.02579	1.01683	1.00481	0.98707	1.01517	0.97756	1.00454	1.862
71 Isosafrole 1	0.14714	0.14465	0.15080	0.15885	0.15144	0.15186	0.15079	3.216
M 188 Isosafrole, Total	0.98796	0.97559	0.98638	1.01193	0.95737	0.96100	0.98004	2.049
72 Isosafrole 2	0.84082	0.83094	0.83558	0.85308	0.80593	0.80913	0.82925	2.219
73 2-Nitroaniline	0.38774	0.40796	0.40514	0.40169	0.39279	0.36831	0.39394	3.728
74 1,2,3,4-Tetrachlorobenzene	0.53600	0.51705	0.50142	0.50042	0.52341	0.50781	0.51435	2.697
75 1,4-Naphthoquinone	0.28559	0.35449	0.35663	0.38466	0.36457	0.36795	0.35231	9.763
76 Dimethylphthalate	1.30954	1.29959	1.19655	1.16112	1.18157	1.15078	1.21652	5.762
77 m-Dinitrobenzene	0.14372	0.18233	0.18800	0.20045	0.18814	0.18796	0.18177	10.766
78 2,6-Dinitrotoluene	0.25741	0.26937	0.26566	0.24686	0.24996	0.24087	0.25502	4.356
79 Acenaphthylene	1.71496	1.68867	1.65547	1.61259	1.68125	1.62565	1.66310	2.357
80 1,3-Dinitrobenzene	0.12174	0.12627	0.12570	0.11841	0.12161	0.11547	0.12153	3.418
81 3-Nitroaniline	0.19563	0.16704	0.18224	0.18468	0.18789	0.17760	0.18251	5.308
82 Acenaphthene	1.07335	1.06293	1.03480	1.01333	1.05568	1.02371	1.04397	2.264
83 2,4-Dinitrophenol	0.06001	0.09870	0.11193	0.10687	0.11200	0.11181	0.10022	20.321
84 Pentachlorobenzene	0.43986	0.41935	0.42121	0.42977	0.41278	0.41680	0.42329	2.337
85 4-Nitrophenol	0.13037	0.17652	0.18961	0.18571	0.17867	0.16900	0.17165	12.507
86 Dibenzofuran	1.36636	1.35132	1.33012	1.31548	1.35117	1.22444	1.32315	3.897
87 2,4-Dinitrotoluene	0.31239	0.33041	0.32790	0.31006	0.31700	0.30100	0.31646	3.525
88 2,3,4,6-Tetrachlorophenol	0.11691	0.18753	0.19983	0.21859	0.21746	0.23005	0.19506	21.096
89 1-Naphthylamine	0.71477	0.80851	0.84726	0.87195	0.85161	0.85951	0.82560	7.067
90 Zinophos	0.37998	0.39211	0.40005	0.39745	0.38534	0.37900	0.38899	2.293
91 2,3,5,6-Tetrachlorophenol	0.24783	0.27548	0.28177	0.27831	0.27403	0.28008	0.27292	4.623
92 2-Naphthylamine	0.63311	0.75788	0.75869	0.70945	0.71646	0.71395	0.71492	6.406
93 Diethylphthalate	1.31249	1.29880	1.22485	1.14531	1.16211	1.11219	1.20929	6.884
94 Fluorene	1.16608	1.16129	1.16882	1.14967	1.12028	1.07795	1.14068	3.110
95 4-Chlorophenyl-phenylether	0.58396	0.58559	0.58909	0.54676	0.55768	0.52862	0.56528	4.385
96 4-Nitroaniline	0.18121	0.16709	0.17399	0.18159	0.18692	0.17936	0.17836	3.876

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
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 Quant Method : ISTD
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m
 Cal Date : 13-Jul-2000 14:04 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	† RSD
97 5-Nitro-o-toluidine	0.19557	0.26698	0.26497	0.27407	0.27054	0.26481	0.25616	11.670
98 4,6-Dinitro-2-methylphenol	0.10846	0.13214	0.13767	0.13882	0.14774	0.14528	0.13502	10.487
99 N-Nitrosodiphenylamine	0.59497	0.56727	0.55919	0.55862	0.57586	0.54858	0.56742	2.875
100 1,2-Diphenylhydrazine	1.34064	1.28187	1.22671	1.20079	1.20774	1.13674	1.23241	5.732
101 Diphenylamine	0.59497	0.56727	0.55919	0.55862	0.57586	0.54858	0.56742	2.875
102 Tetraethyl dithiopyrophosphat	0.12316	0.11782	0.12371	0.12069	0.11762	0.11539	0.11973	2.783
103 Diallate 1	1.20273	1.03291	1.03614	0.95724	0.89504	0.85047	0.99575	12.590
M 189 Diallate, Total	3.74713	3.69140	3.51873	3.29596	3.12571	3.00477	3.39732	8.946
104 Phorate	0.20747	0.19007	0.19730	0.18709	0.17839	0.17638	0.18945	6.179
105 1,3,5-Trinitrobenzene	0.04202	0.07036	0.08189	0.08802	0.09006	0.08864	0.07683	24.135
106 4-Bromophenyl-phenylether	0.22266	0.21982	0.21518	0.21267	0.22212	0.21284	0.21755	2.094
107 Hexachlorobenzene	0.24988	0.23925	0.24260	0.24499	0.24636	0.24085	0.24399	1.594
108 Phenacetin	0.27985	0.41879	0.44878	0.47041	0.46378	0.45038	0.42200	17.031
109 Diallate 2	0.20358	0.18465	0.19599	0.19486	0.18826	0.18425	0.19193	3.941
110 Dimethoate	0.38088	0.45241	0.47789	0.46208	0.45002	0.44938	0.44544	7.502
111 Pentachlorophenol	0.10563	0.12879	0.13458	0.12541	0.14227	0.13833	0.12917	10.114
112 Pentachloronitrobenzene	0.12767	0.12699	0.13142	0.13057	0.12599	0.12763	0.12838	1.661
113 4-Aminobiphenyl	0.44315	0.47066	0.53066	0.57691	0.59753	0.56603	0.53082	11.649
114 Pronamide	0.37111	0.37424	0.39407	0.38212	0.37426	0.37021	0.37767	2.400
115 Phenanthrene	1.15924	1.14013	1.14508	1.15747	1.22295	1.17153	1.16607	2.573
116 Anthracene	1.10542	1.06798	1.10960	1.02470	1.08029	1.02055	1.06809	3.604
117 Dinoseb	++++	0.12036	0.13892	0.16639	0.16800	0.17948	0.15463	15.692<--
118 Disulfoton	0.71869	0.65104	0.68348	0.62423	0.58912	0.56110	0.63794	9.205
119 Carbazole	0.94435	0.79362	0.77141	0.82524	0.88831	0.78756	0.83508	8.104
120 Di-n-Butylphthalate	1.62002	1.55718	1.48527	1.40743	1.46299	1.39076	1.48728	5.922
121 4-Nitroquinoline 1-oxide	++++	0.03172	0.03609	0.05592	0.05473	0.06390	0.04847	28.558<--
122 Methapyrilene	0.31161	0.47791	0.46235	0.48559	0.47381	0.38247	0.43229	16.224
123 Fluoranthene	1.26007	1.21392	1.21572	1.14795	1.24279	1.18210	1.21043	3.358
124 Benzidine	0.29079	0.22978	0.24462	0.25675	0.28895	0.24614	0.25951	9.653
125 Pyrene	1.68513	1.68678	1.57300	1.54634	1.61313	1.52507	1.60491	4.320
126 Aramite 1	0.08629	0.09088	0.10502	0.09831	0.10299	0.10202	0.09758	7.633
M 191 Aramite, Total	0.34485	0.48680	0.49330	0.49380	0.49630	0.50257	0.46960	13.059
127 Aramite 2	0.12863	0.12870	0.14744	0.13609	0.14147	0.14136	0.13728	5.521

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 13-JUL-2000 13:28
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m
 Cal Date : 13-Jul-2000 14:04 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
128 p-Dimethylamino azobenzene	0.28771	0.30464	0.33592	0.31801	0.32598	0.31899	0.31521	5.375
129 p-Chlorobenzilate	0.73097	0.63237	0.71645	0.63848	0.65852	0.64840	0.67086	6.281
130 Famphur	0.53751	0.54268	0.54389	0.39370	0.36170	0.33387	0.45223	21.999
131 Butylbenzylphthalate	0.79242	0.81024	0.73741	0.71925	0.76424	0.70921	0.75546	5.367
132 3,3'-Dimethylbenzidine	0.21032	0.23927	0.35734	0.32753	0.41691	0.33463	0.31434	24.399
133 3,3'-Dimethoxybenzidine	0.24910	0.17467	0.17439	0.21745	0.24157	0.22314	0.21339	15.215
134 2-Acetylaminofluorene	0.16082	0.34672	0.38962	0.46359	0.44818	0.48714	0.38268	31.426
135 3,3'-Dichlorobenzidine	0.39006	0.38030	0.38429	0.39902	0.41785	0.40204	0.39559	3.468
136 Benzo(a)Anthracene	1.28403	1.30044	1.29353	1.25775	1.30143	1.26195	1.28319	1.494
137 Chrysene	1.21586	1.19509	1.19058	1.20387	1.26322	1.20989	1.21308	2.165
138 4,4'-Methylene bis(o-chloroan	0.21094	0.20823	0.20574	0.22170	0.23912	0.21729	0.21717	5.645
139 bis(2-ethylhexyl)Phthalate	1.12976	1.12435	1.06541	1.01075	1.07193	0.99744	1.06661	5.179
140 Di-n-octylphthalate	2.05686	2.08779	1.93979	1.87765	1.95696	1.86152	1.96343	4.698
141 Benzo(b)fluoranthene	1.27454	1.33000	1.24262	1.30179	1.33177	1.28090	1.29360	2.672
142 Benzo(k)fluoranthene	1.26866	1.29253	1.30264	1.25728	1.31509	1.30132	1.28959	1.716
143 7,12-dimethylbenz[a]anthracen	0.84750	0.77811	0.69031	0.83648	0.85736	0.82031	0.80501	7.788
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
146 Benzo(a)pyrene	1.11054	1.12844	1.11431	1.11418	1.14755	1.13169	1.12445	1.260
148 3-Methylcholanthrene	0.61316	0.70049	0.59301	0.78202	0.76385	0.77100	0.70392	11.842
149 Indeno(1,2,3-cd)pyrene	0.91234	0.83059	0.90458	0.94501	0.94212	0.94591	0.91342	4.851
150 Dibenz(a,h)anthracene	0.92055	0.82031	0.92181	0.94850	0.95332	0.93726	0.91696	5.366
151 Benzo(g,h,i)perylene	0.96717	0.83738	0.91413	0.94017	0.94149	0.92738	0.92128	4.854
199 3-Picoline	1.45389	1.61156	1.55239	1.68733	1.64248	1.59822	1.59098	5.083
200 N,N-Dimethylacetamide	1.37290	1.45899	1.42716	1.48982	1.46465	1.41541	1.43815	2.901
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
209 Benzaldehyde	0.74007	0.89219	1.04962	1.11173	1.15932	0.97646	0.98823	15.626

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
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 Quant Method : ISTD
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\ahp9.i\00713a.b\8270c.m
 Cal Date : 13-Jul-2000 14:04 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
210 Caprolactam	0.11940	0.12778	0.13018	0.12050	0.12454	0.12044	0.12381	3.587
211 1,1'-Biphenyl	1.30284	1.28310	1.24307	1.25465	1.30759	1.24864	1.27332	2.225
212 Atrazine	0.25974	0.24186	0.24138	0.23722	0.23874	0.22681	0.24096	4.442
\$ 154 Nitrobenzene-d5	0.62150	0.60846	0.60388	0.57678	0.58420	0.55598	0.59180	4.050
\$ 155 2-Fluorobiphenyl	1.27882	1.25658	1.22200	1.19835	1.24712	1.21557	1.23641	2.402
\$ 156 Terphenyl-d14	1.06059	1.07868	1.01164	0.99558	1.05193	0.98419	1.03043	3.735
\$ 157 Phenol-d5	1.93233	1.91993	1.87340	1.85167	1.90014	1.79015	1.87794	2.780
\$ 158 2-Fluorophenol	1.43912	1.52657	1.52887	1.46554	1.52714	1.45051	1.48962	2.844
\$ 159 2,4,6-Tribromophenol	0.11412	0.12778	0.12895	0.12617	0.12622	0.12420	0.12457	4.311
\$ 186 2-Chlorophenol-d4	1.15156	1.13198	1.12471	1.09515	1.12926	1.06517	1.11630	2.772
\$ 187 1,2-Dichlorobenzene-d4	0.91477	0.88746	0.88196	0.83719	0.87291	0.83007	0.87072	3.678

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP014

Lab File ID: 9DF0713G

DFTPP Injection Date: 07/13/00

Instrument ID: A4HP9

DFTPP Injection Time: 1400

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.3 (0.6)1
69	Mass 69 relative abundance	49.5
70	Less than 2.0% of mass 69	0.4 (0.9)1
127	40.0 - 60.0% of mass 198	50.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than mass 443	10.5
442	Greater than 40.0% of mass 198	66.4
443	17.0 - 23.0% of mass 442	12.4 (18.6)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0713G	07/13/00	1421
02	ASTD008	ASTD008	9AM0713G	07/13/00	1459
03	DFQH4BLK	DFQH4101	DFQH4101	07/13/00	1536
04	MPT-G4-SU-17	DEMOT10W	DEMOT10W	07/13/00	1728
05	MPT-G4-SU-DU	DEMOV10W	DEMOV10W	07/13/00	1806
06					
07					
08					
09					
10					
11					
12					
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20					
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22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 13-JUL-2000 14:21
 Lab File ID: 9SM0713G.D Init. Cal. Date(s): 10-JUL-2000 13-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 13:28
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.60765	1.54927	0.010	-3.6	50.0
10 N-Nitrosodimethylamine	1.17111	1.21781	0.010	4.0	50.0
11 Ethyl methacrylate	1.66138	1.67276	0.010	0.7	50.0
12 3-Chloropropionitrile	1.00644	1.02377	0.010	1.7	50.0
13 Malononitrile	1.71559	1.70051	0.010	-0.9	50.0
209 Benzaldehyde	0.98823	1.03598	0.010	4.8	50.0
21 Aniline	2.40446	2.50073	0.010	4.0	50.0
22 Phenol	2.22252	2.26368	0.010	1.9	20.0
23 bis(2-Chloroethyl) ether	1.73596	1.74728	0.010	0.7	50.0
24 2-Chlorophenol	1.25271	1.24647	0.010	-0.5	50.0
26 1,3-Dichlorobenzene	1.45692	1.41674	0.010	-2.8	50.0
27 1,4-Dichlorobenzene	1.46202	1.44723	0.010	-1.0	20.0
28 1,2-Dichlorobenzene	1.32538	1.31212	0.010	-1.0	50.0
29 Benzyl Alcohol	0.88136	0.90025	0.010	2.1	50.0
30 2-Methylphenol	1.43684	1.45128	0.010	1.0	50.0
31 bis(2-Chloroisopropyl) ether	1.93810	2.11118	0.010	8.9	50.0
37 Acetophenone	2.20043	2.21126	0.010	0.5	50.0
32 N-Nitroso-di-n-propylamine	1.38524	1.37612	0.050	-0.7	50.0
192 4-Methylphenol	1.41165	1.43676	0.010	1.8	50.0
34 Hexachloroethane	0.71779	0.70772	0.010	-1.4	50.0
35 Nitrobenzene	0.58087	0.58325	0.010	0.4	50.0
41 Isophorone	1.05472	1.06986	0.010	1.4	50.0
42 2-Nitrophenol	0.17820	0.17703	0.010	-0.7	20.0
43 2,4-Dimethylphenol	0.43199	0.43272	0.010	0.2	50.0
44 bis(2-Chloroethoxy)methane	0.58451	0.56744	0.010	-2.9	50.0
46 2,4-Toluediamine	++++	0.01593	0.010	+++	50.0 <-
47 1,3,5-Trichlorobenzene	0.34040	0.33790	0.010	-0.7	50.0
48 2,4-Dichlorophenol	0.26631	0.26440	0.010	-0.7	20.0
49 Benzoic Acid	0.14171	0.15882	0.010	12.1	50.0
50 1,2,4-Trichlorobenzene	0.31273	0.31870	0.010	1.9	50.0
51 Naphthalene	0.99958	0.99941	0.010	-0.0	50.0
52 4-Chloroaniline	0.33134	0.34534	0.010	4.2	50.0
56 Hexachlorobutadiene	0.21505	0.20990	0.010	-2.4	20.0
210 Caprolactam	0.12381	0.12884	0.010	4.1	50.0
57 1,2,3-Trichlorobenzene	0.31159	0.30699	0.010	-1.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 13-JUL-2000 14:21
 Lab File ID: 9SM0713G.D Init. Cal. Date(s): 10-JUL-2000 13-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 13:28
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.33570	0.33797	0.010	0.7	20.0
62 2-Methylnaphthalene	0.64182	0.64192	0.010	0.0	50.0
63 1-Methylnaphthalene	0.65212	0.64277	0.010	-1.4	50.0
64 Hexachlorocyclopentadiene	0.32719	0.33549	0.050	2.5	50.0
66 2,4,6-Trichlorophenol	0.36421	0.36076	0.010	-0.9	20.0
67 2,4,5-Trichlorophenol	0.33466	0.32909	0.010	-1.7	50.0
211 1,1'-Biphenyl	1.27332	1.28686	0.010	1.1	50.0
68 1,2,3,5-Tetrachlorobenzene	0.56301	0.57164	0.010	1.5	50.0
70 2-Chloronaphthalene	1.00454	1.02749	0.010	2.3	50.0
73 2-Nitroaniline	0.39394	0.40870	0.010	3.7	50.0
74 1,2,3,4-Tetrachlorobenzene	0.51435	0.51707	0.010	0.5	50.0
76 Dimethylphthalate	1.21652	1.26139	0.010	3.7	50.0
78 2,6-Dinitrotoluene	0.25502	0.26862	0.010	5.3	50.0
79 Acenaphthylene	1.66310	1.66597	0.010	0.2	50.0
80 1,2-Dinitrobenzene	0.12153	0.12845	0.010	5.7	50.0
81 3-Nitroaniline	0.18251	0.18575	0.010	1.8	50.0
82 Acenaphthene	1.04397	1.05226	0.010	0.8	20.0
83 2,4-Dinitrophenol	0.10022	0.09423	0.050	-6.0	50.0
85 4-Nitrophenol	0.17165	0.17756	0.050	3.4	50.0
86 Dibenzofuran	1.32315	1.33976	0.010	1.3	50.0
87 2,4-Dinitrotoluene	0.31646	0.33759	0.010	6.7	50.0
91 2,3,5,6-Tetrachlorophenol	0.27292	0.27464	0.010	0.6	50.0
93 Diethylphthalate	1.20929	1.28152	0.010	6.0	50.0
94 Fluorene	1.14068	1.17676	0.010	3.2	50.0
95 4-Chlorophenyl-phenylether	0.56528	0.59407	0.010	5.1	50.0
96 4-Nitroaniline	0.17836	0.17886	0.010	0.3	50.0
98 4,6-Dinitro-2-methylphenol	0.13502	0.13232	0.010	-2.0	50.0
99 N-Nitrosodiphenylamine	0.56742	0.55496	0.010	-2.2	20.0
100 1,2-Diphenylhydrazine	1.23241	1.23275	0.010	0.0	50.0
106 4-Bromophenyl-phenylether	0.21755	0.21716	0.010	-0.2	50.0
107 Hexachlorobenzene	0.24399	0.23393	0.010	-4.1	50.0
212 Atrazine	0.24096	0.24235	0.010	0.6	50.0
111 Pentachlorophenol	0.12917	0.12676	0.010	-1.9	20.0
115 Phenanthrene	1.16607	1.12706	0.010	-3.3	50.0
116 Anthracene	1.06809	1.09262	0.010	2.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 13-JUL-2000 14:21
 Lab File ID: 9SM0713G.D Init. Cal. Date(s): 10-JUL-2000 13-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 13:28
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.83508	0.82377	0.010	-1.4	50.0
120 Di-n-Butylphthalate	1.48728	1.46640	0.010	-1.4	50.0
123 Fluoranthene	1.21043	1.17902	0.010	-2.6	20.0
124 Benzidine	0.25951	0.30678	0.010	18.2	50.0
125 Pyrene	1.60491	1.62450	0.010	1.2	50.0
131 Butylbenzylphthalate	0.75546	0.76131	0.010	0.8	50.0
133 3,3'-Dimethoxybenzidine	0.21339	0.20914	0.010	-2.0	50.0
135 3,3'-Dichlorobenzidine	0.39559	0.38814	0.010	-1.9	50.0
136 Benzo(a)Anthracene	1.28319	1.28071	0.010	-0.2	50.0
137 Chrysene	1.21308	1.19477	0.010	-1.5	50.0
138 4,4'-Methylene bis(o-chloro	0.21717	0.20974	0.010	-3.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.06661	1.08516	0.010	1.7	50.0
140 Di-n-octylphthalate	1.96343	2.09786	0.010	6.8	20.0
141 Benzo(b)fluoranthene	1.29360	1.30712	0.010	1.0	50.0
142 Benzo(k)fluoranthene	1.28959	1.28930	0.010	-0.0	50.0
146 Benzo(a)pyrene	1.12445	1.14172	0.010	1.5	20.0
149 Indeno(1,2,3-cd)pyrene	0.91342	0.90785	0.010	-0.6	50.0
150 Dibenz(a,h)anthracene	0.91696	0.93573	0.010	2.0	50.0
151 Benzo(g,h,i)perylene	0.92128	0.93027	0.010	1.0	50.0
\$ 154 Nitrobenzene-d5	0.59180	0.60922	0.010	2.9	50.0
\$ 155 2-Fluorobiphenyl	1.23641	1.25479	0.010	1.5	50.0
\$ 156 Terphenyl-d14	1.03043	1.05991	0.010	2.9	50.0
\$ 157 Phenol-d5	1.87794	1.86185	0.010	-0.9	50.0
\$ 158 2-Fluorophenol	1.48962	1.50027	0.010	0.7	50.0
\$ 159 2,4,6-Tribromophenol	0.12457	0.12748	0.010	2.3	50.0
\$ 186 2-Chlorophenol-d4	1.11630	1.10322	0.010	-1.2	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.87072	0.87332	0.010	0.3	50.0
M 195 Cresols, total	2.84849	2.88804	0.010	1.4	50.0
101 Diphenylamine	0.56742	0.55496	0.010	-2.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 13-JUL-2000 14:59
 Lab File ID: 9AM0713G.D Init. Cal. Date(s): 10-JUL-2000 13-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 13:28
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\gcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	0.97555	1.02995	0.010	5.6	50.0
8 Ethyl methanesulfonate	1.53086	1.49021	0.010	-2.7	50.0
14 2-Picoline	1.95189	1.76549	0.010	-9.5	50.0
15 N-Nitrosomethylethylamine	0.97083	0.91905	0.010	-5.3	50.0
16 Methyl methanesulfonate	1.25403	1.19713	0.010	-4.5	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.02343	0.010	-6.0	50.0
19 N-Nitrosodiethylamine	0.86951	0.85412	0.010	-1.8	50.0
25 Pentachloroethane	0.59897	0.60437	0.010	0.9	50.0
36 N-Nitrosopyrrolidine	0.74599	0.81780	0.010	9.6	50.0
37 Acetophenone	2.20043	2.26699	0.010	3.0	50.0
39 o-Toluidine	2.08104	2.32574	0.010	11.8	50.0
40 N-Nitrosopiperidine	0.20798	0.20604	0.010	-0.9	50.0
45 O,O,O-Triethyl phosphorothi	0.20249	0.20784	0.010	2.6	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.92905	0.010	-2.9	50.0
54 2,6-Dichlorophenol	0.25801	0.26998	0.010	4.6	50.0
55 Hexachloropropene	0.21028	0.21462	0.010	2.1	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.36781	0.010	-0.7	50.0
60 p-Phenylene diamine	0.18885	0.10879	0.010	-42.4	50.0
61 Safrole	0.28100	0.28653	0.010	2.0	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.58244	0.010	6.1	50.0
71 Isosafrole 1	0.15079	0.15413	0.010	2.2	50.0
M 188 Isosafrole, Total	0.98004	1.05039	0.010	7.2	50.0
72 Isosafrole 2	0.82925	0.89625	0.010	8.1	50.0
75 1,4-Naphthoquinone	0.35231	0.35116	0.010	-0.3	50.0
84 Pentachlorobenzene	0.42329	0.45841	0.010	8.3	50.0
89 1-Naphthylamine	0.82560	0.75946	0.010	-8.0	50.0
92 2-Naphthylamine	0.71492	0.56252	0.010	-21.3	50.0
90 Zinophos	0.38899	0.40001	0.010	2.8	50.0
102 Tetraethyl dithiopyrophosph	0.11973	0.14333	0.010	19.7	50.0
103 Diallate 1	0.99575	1.07565	0.010	8.0	50.0
M 189 Diallate, Total	3.39732	3.37785	0.010	-0.6	50.0
109 Diallate 2	0.19193	0.19943	0.010	3.9	50.0
104 Phorate	0.18945	0.20425	0.010	7.8	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.08241	0.010	7.3	50.0
108 Phenacetin	0.42200	0.47493	0.010	12.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 13-JUL-2000 14:59
 Lab File ID: 9AM0713G.D Init. Cal. Date(s): 10-JUL-2000 13-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 13:28
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\gcanoh05\dd\chem\MSS\a4hp9.i\00713a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.44544	0.47043	0.010	5.6	50.0
112 Pentachloronitrobenzene	0.12838	0.15039	0.010	17.1	50.0
113 4-Aminobiphenyl	0.53082	0.45627	0.010	-14.0	50.0
114 Pronamide	0.37767	0.43030	0.010	13.9	50.0
117 Dinoseb	0.15463	0.20221	0.010	30.8	50.0
118 Disulfoton	0.63794	0.67556	0.010	8.9	50.0
121 4-Nitroquinoline 1-oxide	0.04847	0.06653	0.010	37.2	50.0
122 Methapyrilene	0.43229	0.38636	0.010	-10.6	50.0
126 Aramite 1	0.09758	0.10129	0.010	3.8	50.0
M 191 Aramite, Total	0.46960	0.48716	0.010	3.7	50.0
127 Aramite 2	0.13728	0.13903	0.010	1.3	50.0
128 p-Dimethylamino azobenzene	0.31521	0.32140	0.010	2.0	50.0
129 p-Chlorobenzilate	0.67086	0.64643	0.010	-3.6	50.0
130 Famphur	0.45223	0.37776	0.010	-15.5	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.40970	0.010	30.3	50.0
134 2-Acetylaminofluorene	0.38268	0.48634	0.010	27.1	50.0
143 7,12-dimethylbenz[a]anthrac	0.80501	0.65641	0.010	-18.5	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <--
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <--
148 3-Methylcholanthrene	0.70392	0.64717	0.010	-8.1	50.0
193 3-Methylphenol	1.45546	1.59295	0.010	9.4	50.0
69 1,4-Dinitrobenzene	0.16523	0.15779	0.010	-4.5	50.0
77 m-Dinitrobenzene	0.18177	0.17312	0.010	-4.8	50.0
198 1,4-Dioxane	0.87147	0.91842	0.010	5.4	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.22376	0.010	14.7	50.0
97 5-Nitro-o-toluidine	0.25616	0.23904	0.010	-6.7	50.0
199 3-Picoline	1.59098	1.47572	0.010	-7.2	50.0
200 N,N-Dimethylacetamide	1.43815	1.39651	0.010	-2.9	50.0

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP014

Lot #: A0F300248

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	91	88	105	92	76	65	00
02	MPT-G4-SU-01-07	85	77	97	81	76	71	00
03	MPT-G4-SU-04-04	86	80	95	78	74	64	00
04	MPT-G4-SU-05-04	88	87	103	89	81	82	00
05	MPT-G4-SU-06-07	75	73	89	73	69	80	00
06	MPT-G4-SU-07-05	82	79	93	82	73	92	00
07	MPT-G4-SU-02-05	79	75	94	76	69	64	00
08	MPT-G4-SU-03-05	80	75	96	76	72	82	00
09	METHOD BLK. DFNWW101	87	81	101	82	75	90	00
10	LCS DFNWW102	84	79	97	84	75	93	00
11	LAB MS/MSD D	23 *	25 *	29 *	24 *	21	26 *	05
12	LAB MS/MSD S	95	93	107	97	82	102	00

OK
95 10/4/04

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = Phenol-d5
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(42-110)
 (43-110)
 (37-137)
 (25-115)
 (11-116)
 (35-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G050000

WO #: DFNWW102

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	1700	1600	94	45- 110	
Acenaphthene	1700	1500	90	44- 108	
2,4-Dinitrotoluene	1700	1900	112*	48- 111	a
Pyrene	1700	1500	92	42- 122	
N-Nitrosodi-n-propylamine	1700	1400	83	38- 110	
1,4-Dichlorobenzene	1700	1500	90	38- 100	
Pentachlorophenol	1700	1100	67	10- 123	
Phenol	1700	1600	94	35- 110	
2-Chlorophenol	1700	1500	90	43- 110	
4-Chloro-3-methylphenol	1700	1600	99	43- 110	
4-Nitrophenol	1700	1700	103	22- 128	
1,2-Dichlorobenzene	1700	1500	90	49- 100	
1,3-Dichlorobenzene	1700	1500	89	47- 96	
2,4,5-Trichlorophenol	1700	1600	97	39- 117	
4-Methylphenol	3300	3000	91	40- 110	
4-Nitroaniline	1700	1800	110	34- 122	
Acenaphthylene	1700	1500	91	48- 107	
Anthracene	1700	1800	105	49- 114	
Benzo (a) anthracene	1700	1500	88	49- 116	
Benzo (a) pyrene	1700	1500	91	46- 109	
Benzo (b) fluoranthene	1700	1400	85	44- 117	
Benzo (ghi) perylene	1700	1600	93	44- 121	
Benzo (k) fluoranthene	1700	1400	87	43- 116	
bis (2-Chloroethoxy) methan	1700	1500	89	42- 109	
bis (2-Chloroethyl) ether	1700	1500	87	45- 100	
2,2'-Oxybis (1-Chloropropa	1700	1500	88	51- 132	
bis (2-Ethylhexyl) phthala	1700	1500	91	44- 125	
2,4,6-Trichlorophenol	1700	1400	87	40- 110	
2,4-Dichlorophenol	1700	1600	93	46- 111	
2,4-Dimethylphenol	1700	1400	85	34- 108	
2,4-Dinitrophenol	1700	1200	70	10- 143	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G050000

WO #: DFNWW102

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	1700	1700	105	50- 122	
2-Chloronaphthalene	1700	1600	98	49- 111	
2-Methylnaphthalene	1700	1600	96	46- 105	
2-Methylphenol	1700	1500	88	41- 102	
2-Nitroaniline	1700	1900	111	45- 123	
2-Nitrophenol	1700	1700	104	43- 110	
3,3'-Dichlorobenzidine	1700	1100	63	15- 80	
3-Nitroaniline	1700	1800	107	26- 119	
4-Bromophenyl phenyl ethe	1700	1500	92	45- 120	
4,6-Dinitro-2-methylpheno	1700	1400	83	25- 137	
4-Chloroaniline	1700	1300	76*	14- 70	a
4-Chlorophenyl phenyl eth	1700	1600	98	47- 120	
Butyl benzyl phthalate	1700	1500	90	46- 111	
Carbazole	1700	1800	108	48- 133	
Chrysene	1700	1500	89	53- 115	
Dibenz (a, h) anthracene	1700	1700	100	49- 119	
Dibenzofuran	1700	1600	98	48- 113	
Diethyl phthalate	1700	1600	95	47- 116	
Dimethyl phthalate	1700	1600	94	48- 118	
Di-n-octyl phthalate	1700	1500	92	40- 121	
Fluoranthene	1700	1700	101	46- 124	
Fluorene	1700	1700	101	48- 114	
Hexachlorobenzene	1700	1400	84	44- 126	
Hexachlorobutadiene	1700	1500	90	36- 110	
Hexachloroethane	1700	1500	92	30- 110	
Isophorone	1700	1400	87	41- 102	
Naphthalene	1700	1600	93	48- 101	
Nitrobenzene	1700	1500	90	35- 112	
N-Nitrosodiphenylamine	1700	1600	96	50- 118	
Phenanthrene	1700	1600	94	50- 117	
Indeno (1, 2, 3-cd) pyrene	1700	1600	96	47- 125	

(Continued on next page)

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G050000

WO #: DFNWW102

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	1700	1500	90	48 - 115	
Hexachlorocyclopentadiene	1700	1300	80	10 - 126	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 64 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G060000

WO #: DFOH4102

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2,4-Trichlorobenzene	1700	1400	81	45- 110	
Acenaphthene	1700	1300	79	44- 108	
2,4-Dinitrotoluene	1700	1700	101	48- 111	
Pyrene	1700	1400	82	42- 122	
N-Nitrosodi-n-propylamine	1700	1200	74	38- 110	
1,4-Dichlorobenzene	1700	1300	78	38- 100	
Pentachlorophenol	1700	980	59	10- 123	
Phenol	1700	1400	84	35- 110	
2-Chlorophenol	1700	1400	82	43- 110	
4-Chloro-3-methylphenol	1700	1500	92	43- 110	
4-Nitrophenol	1700	1800	109	22- 128	
1,2-Dichlorobenzene	1700	1300	77	49- 100	
1,3-Dichlorobenzene	1700	1300	78	47- 96	
2,4,5-Trichlorophenol	1700	1500	91	39- 117	
4-Methylphenol	3300	2800	84	40- 110	
4-Nitroaniline	1700	1600	98	34- 122	
Acenaphthylene	1700	1300	80	48- 107	
Anthracene	1700	1400	86	49- 114	
Benzo(a)anthracene	1700	1300	80	49- 116	
Benzo(a)pyrene	1700	1400	84	46- 109	
Benzo(b)fluoranthene	1700	1400	87	44- 117	
Benzo(ghi)perylene	1700	1500	89	44- 121	
Benzo(k)fluoranthene	1700	1300	77	43- 116	
bis(2-Chloroethoxy)methan	1700	1300	77	42- 109	
bis(2-Chloroethyl) ether	1700	1400	81	45- 100	
2,2'-Oxybis(1-Chloropropa	1700	1400	84	51- 132	
bis(2-Ethylhexyl) phthala	1700	1400	84	44- 125	
2,4,6-Trichlorophenol	1700	1400	82	40- 110	
2,4-Dichlorophenol	1700	1400	86	46- 111	
2,4-Dimethylphenol	1700	1100	64	34- 108	
2,4-Dinitrophenol	1700	1700	101	10- 143	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G060000

WO #: DFQH4102

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,6-Dinitrotoluene	1700	1500	92	50- 122	
2-Chloronaphthalene	1700	1500	88	49- 111	
2-Methylnaphthalene	1700	1400	85	46- 105	
2-Methylphenol	1700	1300	79	41- 102	
2-Nitroaniline	1700	1700	101	45- 123	
2-Nitrophenol	1700	1600	96	43- 110	
3,3'-Dichlorobenzidine	1700	810	49	15- 80	
3-Nitroaniline	1700	1500	90	26- 119	
4,6-Dinitro-2-methylpheno	1700	1500	93	25- 137	
4-Bromophenyl phenyl ethe	1700	1300	78	45- 120	
4-Chloroaniline	1700	1200	74*	14- 70	a
4-Chlorophenyl phenyl eth	1700	1400	86	47- 120	
Butyl benzyl phthalate	1700	1400	86	46- 111	
Carbazole	1700	1400	84	48- 133	
Chrysene	1700	1300	79	53- 115	
Dibenz (a, h) anthracene	1700	1600	93	49- 119	
Dibenzofuran	1700	1400	86	48- 113	
Diethyl phthalate	1700	1400	85	47- 116	
Dimethyl phthalate	1700	1400	84	48- 118	
Di-n-octyl phthalate	1700	1600	95	40- 121	
Fluoranthene	1700	1400	82	46- 124	
Fluorene	1700	1500	88	48- 114	
Hexachlorobenzene	1700	1200	70	44- 126	
Hexachlorobutadiene	1700	1300	76	36- 110	
Hexachloroethane	1700	1400	83	30- 110	
Isophorone	1700	1300	77	41- 102	
Naphthalene	1700	1300	81	48- 101	
Nitrobenzene	1700	1300	80	35- 112	
N-Nitrosodiphenylamine	1700	1400	82	50- 118	
Phenanthrene	1700	1300	80	50- 117	
Indeno (1,2,3-cd) pyrene	1700	1500	90	47- 125	

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SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Lot #: A0G060000

WO #: DFOH4102

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Di-n-butyl phthalate	1700	1300	77	48 - 115	
Hexachlorocyclopentadiene	1700	1100	64	10 - 126	

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: AOF300181

WO #: DFKHF10C

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
2,4-Dinitrotoluene	1800	ND	2300	129	10- 171	
Pyrene	1800	ND	1800	101	10- 218	
N-Nitrosodi-n-propylamine	1800	ND	1700	95	12- 128	
1,4-Dichlorobenzene	1800	ND	1900	105	18- 110	
Pentachlorophenol	1800	ND	980	55	10- 144	
Phenol	1800	ND	1800	101	10- 148	
2-Chlorophenol	1800	ND	1800	100	17- 116	
4-Chloro-3-methylphenol	1800	ND	1900	107	17- 128	
4-Nitrophenol	1800	ND	2000	113	10- 148	
Acenaphthylene	1800	ND	1900	105	35- 111	
Anthracene	1800	ND	2100	117*	35- 115	a
Benzo (a) anthracene	1800	ND	1900	104	30- 122	
Benzo (b) fluoranthene	1800	ND	1700	97	28- 121	
Benzo (k) fluoranthene	1800	ND	1900	103	28- 121	
Benzo (ghi) perylene	1800	ND	2000	110	17- 126	
Benzo (a) pyrene	1800	ND	1900	107	26- 114	
bis (2-Chloroethoxy) methan	1800	ND	1800	100	34- 109	
bis (2-Chloroethyl) ether	1800	ND	1700	97	29- 104	
2,2'-Oxybis (1-Chloropropa	1800	ND	1800	98	36- 135	
bis (2-Ethylhexyl) phthala	1800	180	1900	97	21- 130	
4-Bromophenyl phenyl ethe	1800	ND	1900	104	33- 124	
Butyl benzyl phthalate	1800	ND	1800	102	26- 119	
Carbazole	1800	ND	2200	123	38- 126	
4-Chloroaniline	1800	ND	1300	74*	10- 73	a
2-Chloronaphthalene	1800	ND	2100	116*	37- 114	a
4-Chlorophenyl phenyl eth	1800	ND	2100	114	33- 128	
Chrysene	1800	ND	1800	103	28- 126	
Dibenz (a, h) anthracene	1800	ND	2200	122	26- 123	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DPKHF10C

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,2-Dichlorobenzene	1800	ND	1900	104	32 - 104	
Dibenzofuran	1800	ND	2100	115	36 - 119	
Di-n-butyl phthalate	1800	ND	1800	102	33 - 117	
1,3-Dichlorobenzene	1800	ND	1800	102*	29 - 99	a
3,3'-Dichlorobenzidine	1800	ND	1200	65	10 - 76	
2,4-Dichlorophenol	1800	ND	1900	105	31 - 120	
Diethyl phthalate	1800	ND	2000	112	32 - 118	
2,4-Dimethylphenol	1800	ND	460	26	18 - 118	
Dimethyl phthalate	1800	ND	2000	110	34 - 120	
4,6-Dinitro-2-methylpheno	1800	ND	1700	96	13 - 126	
2,4-Dinitrophenol	1800	ND	1300	71	10 - 141	
Di-n-octyl phthalate	1800	100	2000	103	21 - 130	
2,6-Dinitrotoluene	1800	ND	2200	121	36 - 123	
Fluoranthene	1800	ND	2100	115	24 - 138	
Fluorene	1800	ND	2100	118	32 - 123	
Hexachlorobenzene	1800	ND	1700	95	39 - 127	
Hexachlorobutadiene	1800	ND	1900	104	31 - 110	
Hexachlorocyclopentadiene	1800	ND	430	24	10 - 102	
Hexachloroethane	1800	ND	1900	105	23 - 110	
Indeno (1,2,3-cd)pyrene	1800	ND	1800	98	27 - 123	
Isophorone	1800	ND	1700	97	27 - 107	
2-Methylnaphthalene	1800	ND	2000	112	33 - 112	
2-Methylphenol	1800	ND	1400	80	33 - 113	
4-Methylphenol	3600	ND	3400	94	33 - 118	
Naphthalene	1800	ND	1900	107	34 - 107	
2-Nitroaniline	1800	ND	2300	129*	30 - 124	a
3-Nitroaniline	1800	ND	2100	115*	10 - 105	a
4-Nitroaniline	1800	ND	2300	126*	10 - 105	a

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF10C

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS ‡ REC	LIMITS REC	QUAL
Nitrobenzene	1800	ND	1800	101	33- 112	
2-Nitrophenol	1800	ND	2000	112	29- 112	
N-Nitrosodiphenylamine	1800	ND	1900	105	35- 118	
Phenanthrene	1800	ND	1900	107	32- 126	
2,4,5-Trichlorophenol	1800	ND	2000	109	29- 125	
2,4,6-Trichlorophenol	1800	ND	1700	95	21- 126	
1,2,4-Trichlorobenzene	1800	ND	1900	107	16- 121	
Acenaphthene	1800	ND	1900	105	13- 133	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 7 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF10D

BATCH: 0187123

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS		QUAL	
			% REC	% RPD	RPD	REC		
1,2,4-Trichlorobenzene	1800	510	28	117	*	54	16- 121	p
Acenaphthene	1800	430	24	126	*	44	13- 133	p
2,4-Dinitrotoluene	1800	430	24	138	*	45	10- 171	p
Pyrene	1800	450	25	121	*	66	10- 218	p
N-Nitrosodi-n-propylamine	1800	340	19	134	*	50	12- 128	p
1,4-Dichlorobenzene	1800	350	19	138	*	59	18- 110	p
Pentachlorophenol	1800	0.0	0*	200	*	87	10- 144	a p
Phenol	1800	360	20	135	*	50	10- 148	p
2-Chlorophenol	1800	380	21	131	*	54	17- 116	p
4-Chloro-3-methylphenol	1800	330	18	142	*	55	17- 128	p
4-Nitrophenol	1800		19	141	*	64	10- 148	p
Acenaphthylene	1800	440	25*	124	*	36	35- 111	a p
Anthracene	1800	530	29*	120	*	38	35- 115	a p
Benzo(a)anthracene	1800	510	28*	114	*	35	30- 122	a p
Benzo(b)fluoranthene	1800	490	27*	113	*	38	28- 121	a p
Benzo(k)fluoranthene	1800	500	28	116	*	36	28- 121	p
Benzo(ghi)perylene	1800	480	26	122	*	38	17- 126	p
Benzo(a)pyrene	1800	510	28	116	*	36	26- 114	p
bis(2-Chloroethoxy)methan	1800	320	18*	140	*	40	34- 109	a p
bis(2-Chloroethyl) ether	1800	350	20*	133	*	52	29- 104	a p
2,2'-Oxybis(1-Chloropropa	1800	500	28*	112	*	38	36- 135	a p
bis(2-Ethylhexyl) phthala	1800	550	21	111	*	38	21- 130	p
4-Bromophenyl phenyl ethe	1800	440	24*	124	*	38	33- 124	a p
Butyl benzyl phthalate	1800	500	28	115	*	37	26- 119	p
Carbazole	1800	500	28*	127	*	37	38- 126	a p
4-Chloroaniline	1800	190	10	151	*	67	10- 73	p
2-Chloronaphthalene	1800	450	25*	129	*	36	37- 114	a p
4-Chlorophenyl phenyl eth	1800	470	26*	125	*	36	33- 128	a p

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF10D

BATCH: 0187123

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL	
			% REC	% RPD	RPD	REC		
Chrysene	1800	510	28	114	*	36	28- 126	p
Dibenz (a, h) anthracene	1800	500	28	126	*	37	26- 123	p
Dibenzofuran	1800	470	26*	126	*	36	36- 119	a p
Di-n-butyl phthalate	1800	470	26*	119	*	36	33- 117	a p
1,2-Dichlorobenzene	1800	520	29*	114	*	40	32- 104	a p
1,3-Dichlorobenzene	1800	460	26*	120	*	44	29- 99	a p
3,3'-Dichlorobenzidine	1800	400	22	98	*	79	10- 76	p
2,4-Dichlorophenol	1800	260	14*	152	*	42	31- 120	a p
Diethyl phthalate	1800	470	26*	125	*	36	32- 118	a p
2,4-Dimethylphenol	1800	280	16*	49		56	18- 118	a
Dimethyl phthalate	1800	410	23*	131	*	38	34- 120	a p
4,6-Dinitro-2-methylpheno	1800		9*	163	*	45	13- 126	a p
2,4-Dinitrophenol	1800		6*	166	*	50	10- 141	a p
2,6-Dinitrotoluene	1800	460	25*	131	*	38	36- 123	a p
Di-n-octyl phthalate	1800	570	26	110	*	39	21- 130	p
Fluoranthene	1800	540	30	118	*	42	24- 138	p
Fluorene	1800	510	28*	122	*	37	32- 123	a p
Hexachlorobenzene	1800	430	24*	119	*	29	39- 127	a p
Hexachlorobutadiene	1800	500	28*	116	*	41	31- 110	a p
Hexachlorocyclopentadiene	1800		7*	102	*	90	10- 102	a p
Hexachloroethane	1800	510	28	115	*	40	23- 110	p
Indeno (1,2,3-cd) pyrene	1800	490	27	113	*	41	27- 123	p
Isophorone	1800	340	19*	135	*	37	27- 107	a p
2-Methylnaphthalene	1800	370	21*	138	*	43	33- 112	a p
2-Methylphenol	1800	290	16*	134	*	39	33- 113	a p
4-Methylphenol	3600	630	17*	138	*	34	33- 118	a p
Naphthalene	1800	500	28*	118	*	38	34- 107	a p
2-Nitroaniline	1800	400	22*	141	*	33	30- 124	a p

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0F300181

WO #: DFKHF10D

BATCH: 0187123

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL	
			% REC	% RPD	RPD	REC		
3-Nitroaniline	1800	350	19	143	*	53	10- 105	p
4-Nitroaniline	1800	440	25	135	*	69	10- 105	p
Nitrobenzene	1800	350	20*	135	*	36	33- 112	a p
2-Nitrophenol	1800	360	20*	140	*	39	29- 112	a p
N-Nitrosodiphenylamine	1800	460	26*	121	*	42	35- 118	a p
Phenanthrene	1800	540	30*	112	*	39	32- 126	a p
2,4,5-Trichlorophenol	1800	320	18*	144	*	29	29- 125	a p
2,4,6-Trichlorophenol	1800	310	17*	139	*	60	21- 126	a p

NOTES (S) :

- p Relative percent difference (RPD) is outside stated control limits.
- Results and reporting limits have been adjusted for dry weight.
- a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 63 out of 64 outside limits
 Spike Recovery: 39 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: AOG010118

WO #: DFM3R106

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,2,4-Trichlorobenzene	1900	ND	1500	78	16 - 121	
Acenaphthene	1900	ND	1500	75	13 - 133	
2,4-Dinitrotoluene	1900	ND	1900	95	10 - 171	
Pyrene	1900	ND	1600	84	10 - 218	
N-Nitrosodi-n-propylamine	1900	ND	1500	77	12 - 128	
1,4-Dichlorobenzene	1900	ND	1500	79	18 - 110	
Pentachlorophenol	1900	ND	1300	68	10 - 144	
Phenol	1900	ND	1500	79	10 - 148	
2-Chlorophenol	1900	ND	1500	80	17 - 116	
4-Chloro-3-methylphenol	1900	ND	1300	67	17 - 128	
4-Nitrophenol	1900	ND		4*	10 - 148	a
Acenaphthylene	1900	ND	1500	77	35 - 111	
Anthracene	1900	ND	1600	85	35 - 115	
Benzo(a)anthracene	1900	ND	1500	76	30 - 122	
Benzo(b)fluoranthene	1900	ND	1700	86	28 - 121	
Benzo(k)fluoranthene	1900	ND	1600	80	28 - 121	
Benzo(ghi)perylene	1900	ND	1500	78	17 - 126	
Benzo(a)pyrene	1900	ND	1600	85	26 - 114	
bis(2-Chloroethoxy)methan	1900	ND	1500	76	34 - 109	
bis(2-Chloroethyl) ether	1900	ND	1600	80	29 - 104	
2,2'-Oxybis(1-Chloropropa	1900	ND	1500	78	36 - 135	
bis(2-Ethylhexyl) phtala	1900	ND	1600	84	21 - 130	
4-Bromophenyl phenyl ethe	1900	ND	1500	76	33 - 124	
Butyl benzyl phtalate	1900	ND	1700	87	26 - 119	
Carbazole	1900	ND	1700	86	38 - 126	
4-Chloroaniline	1900	ND	1100	58	10 - 73	
2-Chloronaphthalene	1900	ND	1600	84	37 - 114	
4-Chlorophenyl phenyl eth	1900	ND	1600	82	33 - 128	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: AOG010118

WO #: DFM3R106

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Chrysene	1900	ND	1400	73	28 - 126	
Dibenz (a, h) anthracene	1900	ND	1700	89	26 - 123	
Dibenzofuran	1900	ND	1600	84	36 - 119	
Di-n-butyl phthalate	1900	ND	1500	76	33 - 117	
1,2-Dichlorobenzene	1900	ND	1600	81	32 - 104	
1,3-Dichlorobenzene	1900	ND	1500	77	29 - 99	
3,3'-Dichlorobenzidine	1900	ND	940	48	10 - 76	
2,4-Dichlorophenol	1900	ND	1700	86	31 - 120	
Diethyl phthalate	1900	ND	1600	81	32 - 118	
2,4-Dimethylphenol	1900	ND	750	38	18 - 118	
Dimethyl phthalate	1900	ND	1500	80	34 - 120	
4,6-Dinitro-2-methylpheno	1900	ND	1400	73	13 - 126	
2,4-Dinitrophenol	1900	ND	1500	76	10 - 141	
2,6-Dinitrotoluene	1900	ND	1700	88	36 - 123	
Di-n-octyl phthalate	1900	ND	2100	106	21 - 130	
Fluoranthene	1900	ND	1500	78	24 - 138	
Fluorene	1900	ND	1700	85	32 - 123	
Hexachlorobenzene	1900	ND	1300	69	39 - 127	
Hexachlorobutadiene	1900	ND	1400	73	31 - 110	
Hexachlorocyclopentadiene	1900	ND	530	27	10 - 102	
Hexachloroethane	1900	ND	1400	74	23 - 110	
Indeno (1,2,3-cd)pyrene	1900	ND	1600	83	27 - 123	
Isophorone	1900	ND	1400	74	27 - 107	
2-Methylnaphthalene	1900	ND	1700	86	33 - 112	
2-Methylphenol	1900	ND	1600	80	33 - 113	
4-Methylphenol	3900	ND	3500	91	33 - 118	
Naphthalene	1900	ND	1500	79	34 - 107	
2-Nitroaniline	1900	ND	1800	94	30 - 124	

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SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0G010118

WO #: DFM3R106

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
3-Nitroaniline	1900	ND	1400	72	10 - 105	
4-Nitroaniline	1900	ND	1500	79	10 - 105	
Nitrobenzene	1900	ND	1500	77	33 - 112	
2-Nitrophenol	1900	ND	1800	91	29 - 112	
N-Nitrosodiphenylamine	1900	ND	1600	82	35 - 118	
Phenanthrene	1900	ND	1500	79	32 - 126	
2,4,5-Trichlorophenol	1900	ND	2100	107	29 - 125	
2,4,6-Trichlorophenol	1900	ND	1000	53	21 - 126	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0G010118

WO #: DFM3R107

BATCH: 0188269

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
1,2,4-Trichlorobenzene	1900	1600	82	5.6	54	16- 121	
Acenaphthene	1900	1500	79	4.3	44	13- 133	
2,4-Dinitrotoluene	1900	2000	101	5.7	45	10- 171	
Pyrene	1900	1700	86	2.8	66	10- 218	
N-Nitrosodi-n-propylamine	1900	1600	82	6.4	50	12- 128	
1,4-Dichlorobenzene	1900	1600	81	2.8	59	18- 110	
Pentachlorophenol	1900	1300	66	3.2	87	10- 144	
Phenol	1900	1600	81	3.0	50	10- 148	
2-Chlorophenol	1900	1600	84	5.6	54	17- 116	
4-Chloro-3-methylphenol	1900	1800	91	31	55	17- 128	
4-Nitrophenol	1900		5*	8.6	64	10- 148	a
Acenaphthylene	1900	1600	81	4.8	36	35- 111	
Anthracene	1900	1700	87	2.2	38	35- 115	
Benzo(a)anthracene	1900	1600	80	4.9	35	30- 122	
Benzo(b)fluoranthene	1900	1700	90	3.9	38	28- 121	
Benzo(k)fluoranthene	1900	1700	86	6.8	36	28- 121	
Benzo(ghi)perylene	1900	1800	90	14	38	17- 126	
Benzo(a)pyrene	1900	1700	89	5.1	36	26- 114	
bis(2-Chloroethoxy)methan	1900	1500	79	3.3	40	34- 109	
bis(2-Chloroethyl) ether	1900	1500	79	1.2	52	29- 104	
2,2'-Oxybis(1-Chloropropa	1900	1600	80	2.2	38	36- 135	
bis(2-Ethylhexyl) phthala	1900	1700	87	3.7	38	21- 130	
4-Bromophenyl phenyl ethe	1900	1600	80	5.0	38	33- 124	
Butyl benzyl phthalate	1900	1700	90	3.0	37	26- 119	
Carbazole	1900	1700	88	2.0	37	38- 126	
4-Chloroaniline	1900	1200	61	4.3	67	10- 73	
2-Chloronaphthalene	1900	1700	88	5.1	36	37- 114	
4-Chlorophenyl phenyl eth	1900	1700	86	4.6	36	33- 128	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0G010118

WO #: DFM3R107

BATCH: 0188269

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Chrysene	1900	1500	76	3.8	36	28- 126	
Dibenz (a, h) anthracene	1900	1900	99	11	37	26- 123	
Dibenzofuran	1900	1700	88	4.8	36	36- 119	
Di-n-butyl phthalate	1900	1500	78	2.4	36	33- 117	
1,2-Dichlorobenzene	1900	1600	84	3.6	40	32- 104	
1,3-Dichlorobenzene	1900	1600	80	3.5	44	29- 99	
3,3'-Dichlorobenzidine	1900	910	47	3.4	79	10- 76	
2,4-Dichlorophenol	1900	1800	91	5.3	42	31- 120	
Diethyl phthalate	1900	1600	84	4.3	36	32- 118	
2,4-Dimethylphenol	1900	1300	66	53	56	18- 118	
Dimethyl phthalate	1900	1600	84	5.5	38	34- 120	
4,6-Dinitro-2-methylpheno	1900	1600	81	11	45	13- 126	
2,4-Dinitrophenol	1900	1800	90	16	50	10- 141	
2,6-Dinitrotoluene	1900	1800	93	5.5	38	36- 123	
Di-n-octyl phthalate	1900	2100	108	1.8	39	21- 130	
Fluoranthene	1900	1600	81	4.1	42	24- 138	
Fluorene	1900	1700	89	4.0	37	32- 123	
Hexachlorobenzene	1900	1400	71	3.8	29	39- 127	
Hexachlorobutadiene	1900	1500	77	4.5	41	31- 110	
Hexachlorocyclopentadiene	1900	690	35	26	90	10- 102	
Hexachloroethane	1900	1500	79	6.3	40	23- 110	
Indeno (1,2,3-cd) pyrene	1900	1800	93	11	41	27- 123	
Isophorone	1900	1500	76	3.6	37	27- 107	
2-Methylnaphthalene	1900	1800	92	6.8	43	33- 112	
2-Methylphenol	1900	1600	84	4.4	39	33- 113	
4-Methylphenol	3900	3500	91	0.28	34	33- 118	
Naphthalene	1900	1600	83	5.1	38	34- 107	
2-Nitroaniline	1900	2000	104	10	33	30- 124	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP014

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: A0G010118

WO #: DFM3R107

BATCH: 0188269

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
3-Nitroaniline	1900	1500	78	7.7	53	10 - 105	
4-Nitroaniline	1900	1500	79	0.36	69	10 - 105	
Nitrobenzene	1900	1600	81	5.2	36	33 - 112	
2-Nitrophenol	1900	1900	99	7.9	39	29 - 112	
N-Nitrosodiphenylamine	1900	1700	85	4.7	42	35 - 118	
Phenanthrene	1900	1600	82	4.5	39	32 - 126	
2,4,5-Trichlorophenol	1900	1500	79	30	29	29 - 125	p
2,4,6-Trichlorophenol	1900	1200	60	13	60	21 - 126	

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

s Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 64 outside limits

Spike Recovery: 1 out of 64 outside limits

COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFNWW101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP014

Lab File ID: DFNWW101.

Lot Number: A0F300248

Date Analyzed: 07/10/00

Time Analyzed: 16:48

Matrix: SOLID

Date Extracted:07/05/00

GC Column: DB .625 ID: .32

Extraction Method: 3550B

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DFKHF10A	DFKHF10A.	07/11/00	01:32
02	LAB MS/MSD	DFKHF10C S	DFKHF10C.	07/11/00	02:10
03	LAB MS/MSD	DFKHF10D D	DFKHF10D.	07/11/00	02:48
04	MPT-G4-SU-01-07	DFL4J10W	DFL4J10W.	07/10/00	18:03
05	MPT-G4-SU-04-04	DFM0A10W	DFM0A10W.	07/10/00	19:55
06	MPT-G4-SU-05-04	DFM0C10W	DFM0C10W.	07/10/00	20:33
07	MPT-G4-SU-06-07	DFM0D10W	DFM0D10W.	07/10/00	21:10
08	MPT-G4-SU-07-05	DFM0E10W	DFM0E10W.	07/10/00	21:47
09	MPT-G4-SU-02-05	DFM0810W	DFM0810W.	07/10/00	18:41
10	MPT-G4-SU-03-05	DFM0910W	DFM0910W.	07/10/00	19:18
11	CHECK SAMPLE	DFNWW102 C	DFNWW102.	07/10/00	17:26
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFQH4101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP014

Lab File ID: DFQH4101.

Lot Number: A0G010105

Date Analyzed: 07/13/00

Time Analyzed: 15:36

Matrix: SOLID

Date Extracted:07/07/00

GC Column: DB .625 ID: .32

Extraction Method: 3550B

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-17-08	DFM0T10W	DFM0T10W.	07/13/00	17:28
02	MPT-G4-SU-DU01	DFM0V10W	DFM0V10W.	07/13/00	18:06
03	INTRA-LAB QC	DFM3R105	DFM3R105.	07/13/00	01:01
04	LAB MS/MSD	DFM3R106 S	DFM3R106.	07/13/00	01:38
05	LAB MS/MSD	DFM3R107 D	DFM3R107.	07/13/00	02:15
06	CHECK SAMPLE	DFQH4102 C	DFQH4102.	07/12/00	16:58
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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20					
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22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

CLIENT CTO 091 Mayport		JOB NUMBER MP014	
SUBJECT Semivolative		DRAWING NUMBER MPT-64-SU-04-04	
BASED ON Fluoranthene		DRAWING NUMBER	
BY JWD	CHECKED BY	APPROVED BY	DATE 10-5-00

$$\begin{aligned}
 &= \frac{(\text{Area X Conc. IS})(\text{Final Ext})}{(\text{Area IS})(\overline{RRF}_{IC})(\text{Initial Ext})(\%S)(\text{Vol Inj})} \\
 &= \frac{(413468)(8.0\text{ng})(5000\mu\text{L})}{(916439)(1.07877)(30.2\text{g})(0.80)(2\mu\text{L})} \\
 &= 336.2\text{mg/kg}
 \end{aligned}$$

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFMOA10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	420		U
208-96-8	Acenaphthylene	420		U
98-86-2	Acetophenone	420		U
53-96-3	2-Acetylaminofluorene	4200		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	420		U
120-12-7	Anthracene	420		U
56-55-3	Benzo (a) anthracene	420		U
205-99-2	Benzo (b) fluoranthene	420		U
207-08-9	Benzo (k) fluoranthene	420		U
191-24-2	Benzo (ghi) perylene	420		U
50-32-8	Benzo (a) pyrene	420		U
100-51-6	Benzyl alcohol	420		U
111-91-1	bis (2-Chloroethoxy) methane	420		U
111-44-4	bis (2-Chloroethyl) ether	420		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	420		U
117-81-7	bis (2-Ethylhexyl) phthalate	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
85-68-7	Butyl benzyl phthalate	420		U
106-47-8	4-Chloroaniline	420		U
59-50-7	4-Chloro-3-methylphenol	420		U
91-58-7	2-Chloronaphthalene	420		U
95-57-8	2-Chlorophenol	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
218-01-9	Chrysene	420		U
2303-16-4	Diallate	830		U
53-70-3	Dibenz (a, h) anthracene	420		U
132-64-9	Dibenzofuran	420		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFMOA10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	420		U
95-50-1	1,2-Dichlorobenzene	420		U
541-73-1	1,3-Dichlorobenzene	420		U
106-46-7	1,4-Dichlorobenzene	420		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	420		U
87-65-0	2,6-Dichlorophenol	420		U
84-66-2	Diethyl phthalate	420		U
60-11-7	p-Dimethylaminoazobenzene	830		U
57-97-6	7,12-Dimethylbenz(a)anthracene	830		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	420		U
131-11-3	Dimethyl phthalate	420		U
117-84-0	Di-n-octyl phthalate	420		U
99-65-0	1,3-Dinitrobenzene	420		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	420		U
606-20-2	2,6-Dinitrotoluene	420		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	830		U
123-91-1	1,4-Dioxane	420		U
122-39-4	Diphenylamine	420		U
62-50-0	Ethyl methanesulfonate	420		U
206-44-0	Fluoranthene	330		J
86-73-7	Fluorene	420		U
118-74-1	Hexachlorobenzene	420		U
87-68-3	Hexachlorobutadiene	420		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFM0A10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	420	U
1888-71-7	Hexachloropropene	4200	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
120-58-1	Isosafrole	830	U
91-80-5	Methapyrilene	2000	U
95-53-4	o-Toluidine	830	U
56-49-5	3-Methylcholanthrene	830	U
66-27-3	Methyl methanesulfonate	420	U
91-57-6	2-Methylnaphthalene	420	U
95-48-7	2-Methylphenol	420	U
108-39-4	3-Methylphenol	420	U
106-44-5	4-Methylphenol	420	U
91-20-3	Naphthalene	420	U
130-15-4	1,4-Naphthoquinone	2000	U
134-32-7	1-Naphthylamine	420	U
91-59-8	2-Naphthylamine	420	U
88-74-4	2-Nitroaniline	2000	U
99-09-2	3-Nitroaniline	2000	U
100-01-6	4-Nitroaniline	2000	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	2000	U
56-57-5	4-Nitroquinoline-1-oxide	4200	U
924-16-3	N-Nitrosodi-n-butylamine	420	U
55-18-5	N-Nitrosodiethylamine	420	U
62-75-9	N-Nitrosodimethylamine	420	U
621-64-7	N-Nitrosodi-n-propylamine	420	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFM0A10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	420	U
10595-95-6	N-Nitrosomethylethylamine	420	U
59-89-2	N-Nitrosomorpholine	420	U
100-75-4	N-Nitrosopiperidine	420	U
930-55-2	N-Nitrosopyrrolidine	420	U
99-55-8	5-Nitro-o-toluidine	830	U
608-93-5	Pentachlorobenzene	420	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	830	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
106-50-3	p-Phenylene diamine	4200	U
109-06-8	2-Picoline	830	U
23950-58-5	Pronamide	830	U
129-00-0	Pyrene	220	J
110-86-1	Pyridine	830	U
94-59-7	Safrole	830	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	420	U
510-15-6	Chlorobenzilate	420	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP014

Matrix: (soil/water) SO

Lab Sample ID: A0F300248 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 06/28/00

Work Order: DFMOA10W

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/10/00

Moisture %: 20

QC Batch: 0187123

Client Sample Id: MPT-G4-SU-04-04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		830	U

STL - North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\DFM0A10W.D
 Lab Smp Id: DFM0A10W Client Smp ID: MPT-G4-SU-04-04
 Inj Date : 10-JUL-2000 19:55
 Operator : 001710 Inst ID: a4hp9.i
 Smp Info : dfm0a10w,00710b.b,8270c,4-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m
 Meth Date : 11-Jul-2000 14:05 gruberj Quant Type: ISTD
 Cal Date : 10-JUL-2000 14:39 Cal File: 9AHH0710.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV02

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152	6.948	6.949	(1.000)	295855	8.00000	(Q)
* 2 Naphthalene-d8	136	9.283	9.288	(1.000)	1071182	8.00000	
* 3 Acenaphthene-d10	164	12.755	12.755	(1.000)	615196	8.00000	
* 4 Phenanthrene-d10	188	15.720	15.726	(1.000)	916439	8.00000	
* 5 Chrysene-d12	240	21.057	21.062	(1.000)	738318	8.00000	
* 6 Perylene-d12	264	23.728	23.734	(1.000)	619978	8.00000	
7 N-Nitrosomorpholine	56						Compound Not Detected.
8 Ethyl methanesulfonate	79						Compound Not Detected.
9 Pyridine	79						Compound Not Detected.
10 N-Nitrosodimethylamine	74						Compound Not Detected.
11 Ethyl methacrylate	69						Compound Not Detected.
12 3-Chloropropionitrile	54						Compound Not Detected.
13 Malononitrile	66						Compound Not Detected.

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
14 2-Picoline	93				Compound Not Detected.		
15 N-Nitrosomethylethylamine	88				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
18 1,3-Dichloro-2-propanol	79				Compound Not Detected.		
19 N-Nitrosodiethylamine	102				Compound Not Detected.		
21 Aniline	93				Compound Not Detected.		
22 Phenol	94				Compound Not Detected.		
23 bis(2-Chloroethyl) ether	93				Compound Not Detected.		
24 2-Chlorophenol	128				Compound Not Detected.		
25 Pentachloroethane	167				Compound Not Detected.		
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 bis(2-Chloroisopropyl) ether	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
193 3-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
36 N-Nitrosopyrrolidine	100				Compound Not Detected.		
37 Acetophenone	105				Compound Not Detected.		
39 o-Toluidine	106				Compound Not Detected.		
40 N-Nitrosopiperidina	114				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy) methana	93				Compound Not Detected.		
45 O,O,O-Triethyl phosphorothioa	198				Compound Not Detected.		
46 2,4-Toluenediamene	121				Compound Not Detected.		
47 1,3,5-Trichlorobenzene	180				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
53 a,a-Dimethyl-phenethylamine	58				Compound Not Detected.		
54 2,6-Dichlorophenol	162				Compound Not Detected.		
55 Hexachloropropene	213				Compound Not Detected.		
56 Hexachlorobutadiene	225				Compound Not Detected.		
57 1,2,3-Trichlorobenzene	180				Compound Not Detected.		
58 N-Nitrosodi-n-butylamine	84				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
60 p-Phenylene diamine	108				Compound Not Detected.		
61 Safrole	162				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
63 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	237				Compound Not Detected.		
65 1,2,4,5-Tetrachlorobenzene	216				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
68 1,2,3,5-Tetrachlorobenzene	216				Compound Not Detected.		
69 1,4-Dinitrobenzene	168				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
71 Isosafrole 1	162				Compound Not Detected.		
M 188 Isosafrole, Total	162				Compound Not Detected.		
72 Isosafrole 2	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
74 1,2,3,4-Tetrachlorobenzene	216				Compound Not Detected.		
75 1,4-Naphthoquinone	158				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
77 m-Dinitrobenzene	168				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
80 1,2-Dinitrobenzene	168				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
84 Pentachlorobenzene	250				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
89 1-Naphthylamine	143				Compound Not Detected.		
90 Zinphos	97				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
101 Diphenylamine	169				Compound Not Detected.		
102 Tetraethyl dithiopyrophosphat	202				Compound Not Detected.		
103 Diallate 1	86				Compound Not Detected.		
M 189 Diallate, Total	100				Compound Not Detected.		
104 Phorate	121				Compound Not Detected.		
105 1,3,5-Trinitrobenzene	213				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	284				Compound Not Detected.		
108 Phenacetin	108				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
109 Diallate 2	86				Compound Not Detected.		
110 Dimethoate	87				Compound Not Detected.		
111 Pentachlorophenol	266				Compound Not Detected.		
112 Pentachloronitrobenzene	237				Compound Not Detected.		
113 4-Aminobiphenyl	169				Compound Not Detected.		
114 Pronamide	173				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
117 Dinoseb	211				Compound Not Detected.		
118 Disulfoton	88				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
121 4-Nitroquinoline 1-oxide	190				Compound Not Detected.		
122 Methapyrilene	58				Compound Not Detected.		
123 Fluoranthene	202	18.162	18.167	(1.155)	413468	3.17116	262.51
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202	18.605	18.610	(0.884)	321640	2.09418	173.36
126 Aramite 1	185				Compound Not Detected.		
M 191 Aramite, Total	100				Compound Not Detected.		
127 Aramite 2	185				Compound Not Detected.		
128 p-Dimethylamino azobenzene	225				Compound Not Detected.		
129 p-Chlorobenzilate	139				Compound Not Detected.		
130 Famphur	218				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
132 3,3'-Dimethylbenzidine	212				Compound Not Detected.		
133 3,3'-Dimethoxybenzidine	244				Compound Not Detected.		
134 2-Acetylaminofluorene	181				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
138 4,4'-Methylene bis(o-chloroan	231				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz(a)anthracen	256				Compound Not Detected.		
144 Hexachlorophene	198				Compound Not Detected.		
145 Hexachlorophene product	462				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
148 3-Methylcholanthrene	268				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzena-d5	82	7.980	7.980	(0.860)	1398814	17.1548	1420.1
\$ 155 2-Fluorobiphenyl	172	11.452	11.452	(0.898)	1496961	15.9087	1316.9
\$ 156 Terphenyl-d14	244	19.006	19.011	(0.903)	1809243	19.0880	1580.1
\$ 157 Phenol-d5	99	6.393	6.377	(0.920)	1673219	23.3542	1933.3

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
\$ 158 2-Fluorophenol	112	4.913	4.870	(0.707)	1238593	22.2578	1842.5
\$ 159 2,4,6-Tribromophenol	330	14.353	14.358	(1.125)	159558	19.2825	1596.2
\$ 186 2-Chlorophenol-d4	132	6.580	6.575	(0.947)	1045430	25.9436	2147.6
\$ 187 1,2-Dichlorobenzene-d4	152	7.232	7.226	(1.041)	491011	16.3987	1357.5
97 5-Nitro-o-toluidine	152	Compound Not Detected.					
198 1,4-Dioxane	88	Compound Not Detected.					
199 3-Picoline	93	Compound Not Detected.					
200 N,N-Dimethylacetamide	44	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-JUL-2000 15:33 *26-Jun-2000*
 Lab File ID: 9SM0710G.D Init. Cal. Date(s): ~~15-JUN-2000~~ 10-JUL-2000
 Analysis Type: Init. Cal. Times: 09:05 14:39
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m *7-11-00*

COMPOUND	RRP	RF16	MIN	RD	MAX
9 Pyridine	1.73855	1.83016	0.010	5.3	50.0
10 N-Nitrosodimethylamine	1.26044	1.36197	0.010	8.1	50.0
11 Ethyl methacrylate	1.79880	1.83170	0.010	1.8	50.0
12 3-Chloropropionitrile	1.09800	1.13206	0.010	3.1	50.0
13 Malononitrile	1.95569	1.72311	0.010	-11.9	50.0
21 Aniline	2.43025	2.49417	0.010	2.6	50.0
22 Phenol	2.20785	2.28335	0.010	3.4	20.0
23 bis(2-Chloroethyl) ether	1.85597	1.84620	0.010	-0.5	50.0
24 2-Chlorophenol	1.23440	1.22725	0.010	-0.6	50.0
26 1,3-Dichlorobenzene	1.43204	1.42043	0.010	-0.8	50.0
27 1,4-Dichlorobenzene	1.42820	1.43135	0.010	0.2	20.0
28 1,2-Dichlorobenzene	1.27863	1.28868	0.010	0.8	50.0
29 Benzyl Alcohol	0.95337	0.94981	0.010	-0.4	50.0
30 2-Methylphenol	1.47302	1.43723	0.010	-2.4	50.0
31 bis(3-Chloroisopropyl) ether	2.38250	2.41129	0.010	1.2	50.0
32 N-Nitroso-di-n-propylamine	1.46364	1.41738	0.050	-3.2	50.0
192 4-Methylphenol	1.36002	1.35841	0.010	-0.1	50.0
34 Hexachloroethane	0.71209	0.74151	0.010	4.1	50.0
35 Nitrobenzene	0.60541	0.60167	0.010	-0.6	50.0
41 Isophorone	1.07351	1.09195	0.010	1.7	50.0
42 2-Nitrophenol	0.16041	0.16896	0.010	5.3	20.0
43 2,4-Dimethylphenol	0.42378	0.42656	0.010	0.7	50.0
44 bis(2-Chloroethoxy)methane	0.60065	0.58789	0.010	-2.1	50.0
46 2,4-Tolucenediamene	+++	0.01005	0.010	+++	50.0
47 1,3,5-Trichlorobenzene	0.31666	0.32417	0.010	2.4	50.0
48 2,4-Dichlorophenol	0.26195	0.26410	0.010	0.8	20.0
49 Benzoic Acid	0.11778	0.07935	0.010	-32.6	50.0
50 1,2,4-Trichlorobenzene	0.30016	0.31022	0.010	3.4	50.0
51 Naphthalene	0.96035	0.97791	0.010	1.6	50.0
52 4-Chloroaniline	0.32302	0.32871	0.010	1.5	50.0
56 Hexachlorobutadiene	0.19607	0.19408	0.010	-1.0	20.0
57 1,2,3-Trichlorobenzene	0.29677	0.30015	0.010	1.1	50.0
59 4-Chloro-3-Methylphenol	0.33970	0.35925	0.010	5.8	20.0
62 2-Methylnaphthalene	0.61019	0.64162	0.010	5.1	50.0
63 1-Methylnaphthalene	0.62874	0.64426	0.010	3.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-JUL-2000 15:33
 Lab File ID: 9SM0710G.D Init. Cal. Date(s): 15-JUN-2000 10-JUL-2000
 Analysis Type: Init. Cal. Times: 09:05 14:39
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
64 Hexachlorocyclopentadiene	0.31240	0.31572	0.050	1.1	50.0
66 2,4,6-Trichlorophenol	0.35054	0.33966	0.010	-3.1	20.0
67 2,4,5-Trichlorophenol	0.33325	0.34151	0.010	2.5	50.0
68 1,2,3,5-Tetrachlorobenzene	0.53447	0.53244	0.010	-0.4	50.0
70 2-Chloronaphthalene	0.97265	0.98806	0.010	1.6	50.0
73 2-Nitroaniline	0.42415	0.44090	0.010	3.9	50.0
74 1,2,3,4-Tetrachlorobenzene	0.49727	0.49288	0.010	-0.9	50.0
76 Dimethylphthalate	1.22284	1.23768	0.010	1.2	50.0
78 2,6-Dinitrotoluene	0.24236	0.26319	0.010	8.6	50.0
79 Acenaphthylene	1.58877	1.60087	0.010	0.8	50.0
80 1,2-Dinitrobenzene	0.12757	0.13720	0.010	7.5	50.0
81 3-Nitroaniline	0.19939	0.22887	0.010	14.8	50.0
82 Acenaphthene	1.02735	1.03655	0.010	0.9	20.0
83 2,4-Dinitrophenol	0.08982	0.07541	0.050	-16.0	50.0
85 4-Nitrophenol	0.16153	0.17236	0.050	6.7	50.0
86 Dibenzofuran	1.31277	1.35954	0.010	3.6	50.0
87 2,4-Dinitrotoluene	0.31690	0.36644	0.010	15.6	50.0
91 2,3,5,6-Tetrachlorophenol	0.25403	0.27060	0.010	6.5	50.0
93 Diethylphthalate	1.18512	1.23722	0.010	4.4	50.0
94 Fluorene	1.10933	1.17754	0.010	6.1	50.0
95 4-Chlorophenyl-phenylether	0.55592	0.58907	0.010	6.0	50.0
96 4-Nitroaniline	0.19144	0.22364	0.010	16.8	50.0
98 4,6-Dinitro-2-methylphenol	0.11602	0.11747	0.010	1.2	50.0
99 N-Nitrosodiphenylamine	0.54998	0.55245	0.010	0.4	20.0
100 1,2-Diphenylhydrazine	1.29564	1.27459	0.010	-1.6	50.0
106 4-Bromophenyl-phenylether	0.19930	0.19990	0.010	0.3	50.0
107 Hexachlorobenzene	0.21664	0.20630	0.010	-4.8	50.0
111 Pentachlorophenol	0.11205	0.10457	0.010	-6.7	20.0
115 Phenanthrene	1.07877	1.12362	0.010	4.2	50.0
116 Anthracene	0.99510	1.09019	0.010	9.6	50.0
119 Carbazole	0.86347	0.98310	0.010	13.9	50.0
120 Di-n-Butylphthalate	1.37211	1.35784	0.010	-1.0	50.0
123 Fluoranthene	1.13818	1.21360	0.010	6.6	20.0
124 Benzidine	0.25868	0.24269	0.010	-3.5	50.0
125 Pyrene	1.66419	1.65031	0.010	-0.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-JUL-2000 15:33
 Lab File ID: 9SM0710G.D Init. Cal. Date(s): 15-JUN-2000 10-JUL-2000
 Analysis Type: Init. Cal. Times: 09:05 14:39
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00710b.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
131 Butylbenzylphthalate	0.75386	0.75257	0.010	-0.2	50.0
133 3,3'-Dimethoxybenzidine	0.15977	0.15978	0.010	0.0	50.0
135 3,3'-Dichlorobenzidine	0.35614	0.37049	0.010	4.0	50.0
136 Benzo(a)Anthracene	1.28603	1.27859	0.010	-0.6	50.0
137 Chrysene	1.22354	1.17831	0.010	-3.7	50.0
138 4,4'-Methylene bis(o-chloro	0.20498	0.20460	0.010	-0.2	50.0
139 bis(2-ethylhexyl)Phthalate	1.05473	1.06871	0.010	1.3	50.0
140 Di-n-octylphthalate	1.97385	2.01989	0.010	2.3	20.0
141 Benzo(b)fluoranthene	1.32838	1.23439	0.010	-7.1	50.0
142 Benzo(k)fluoranthene	1.34789	1.36212	0.010	1.1	50.0
146 Benzo(a)pyrene	1.13379	1.12681	0.010	-0.6	20.0
149 Indeno(1,2,3-cd)pyrene	1.01885	1.04688	0.010	2.8	50.0
150 Dibenz(n,h)anthracene	0.83239	0.86404	0.010	3.8	50.0
151 Benzo(g,h,i)perylene	0.87065	0.87147	0.010	0.1	50.0
\$ 153 Nitrobenzene-d5	0.60898	0.62853	0.010	3.2	50.0
\$ 155 2-Fluorobiphenyl	1.22363	1.21520	0.010	-0.7	50.0
\$ 156 Terphenyl-d14	1.02703	1.03054	0.010	0.3	50.0
\$ 157 Phenol-d5	1.93731	1.86133	0.010	-3.9	50.0
\$ 158 2-Fluorophenol	1.50473	1.41159	0.010	-6.2	50.0
\$ 159 2,4,6-Tribromophenol	0.10760	0.12231	0.010	13.7	50.0
\$ 186 2-Chlorophenol-d4	1.08962	1.07097	0.010	-1.7	50.0
\$ 187 1,2-Dichlorobenzene-d1	0.80964	0.84458	0.010	4.3	50.0
M 195 Cresols, total	2.83303	2.79564	0.010	-1.3	50.0
101 Diphenylamine	0.51928	0.55245	0.010	0.4	50.0

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

Affected samples : All

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level (soil)</u>
Aluminum	22.1 ug/L	11.05 mg/kg
Barium ⁽¹⁾	0.082 mg/kg	0.41 mg/kg
Beryllium	1.3 ug/L	0.65 mg/kg
Calcium ⁽¹⁾	46.3 mg/kg	231.5 mg/kg
Chromium	0.12 mg/kg	0.60 mg/kg
Copper	4.6 ug/L	2.3 mg/kg
Lead	2.6 ug/L	1.3 mg/kg
Magnesium ⁽¹⁾	3.9 mg/kg	19.5 mg/kg
Manganese ⁽¹⁾	0.16 mg/kg	0.80 mg/kg
Potassium ⁽¹⁾	5.6 mg/kg	28 mg/kg
Sodium ⁽¹⁾	230 mg/kg	1150 mg/kg
Tin ⁽¹⁾	1.3 mg/kg	6.5 mg/kg
Zinc ⁽¹⁾	0.76 mg/kg	3.8 mg/kg

⁽¹⁾ - Maximum concentration present in a soil preparation blank

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids and dilution factors were taken into consideration in evaluation for blank contamination. Positive results less than the blank action level for beryllium, copper, lead, potassium, sodium, tin and zinc were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as the results reported were either greater than the blank action level or were nondetected, "U".

ICP Interference Results

The interfering analyte calcium was present in sample MPT-G4-SU-19-10 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, chromium, cobalt, nickel, selenium and vanadium in the affected sample. The nondetected results reported for cadmium and selenium were qualified as estimated, "UJ". The positive results reported for chromium, cobalt, nickel and vanadium were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-20-10 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, chromium, cobalt, nickel, selenium and vanadium in the affected sample. The nondetected result reported for selenium was qualified as estimated, "UJ". The positive results reported for cadmium, chromium, cobalt, nickel and vanadium were qualified as estimated, "J".

TO: T. HANSEN
DATE: DECEMBER 6, 2000

- PAGE 3

The interfering analyte calcium was present in sample MPT-G4-SU-23-08 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, lead, nickel and selenium in the affected sample. The nondetected results reported for selenium were qualified as estimated, "UJ". The positive results reported for cadmium, cobalt, lead and nickel were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-35-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, lead, nickel, selenium and zinc in the affected sample. The nondetected results reported for selenium were qualified as estimated, "UJ". The positive results reported for cadmium, cobalt, lead, nickel and zinc were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-24-08 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, nickel, selenium and zinc in the affected sample. The nondetected results reported for cadmium and selenium were qualified as estimated, "UJ". The positive results reported for cobalt, nickel and zinc were qualified as estimated, "J".

The interfering analyte calcium was present in samples MPT-G4-SU-25-05 and MPT-G4-SU-29-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, lead, nickel, selenium and zinc in the affected samples. The nondetected results reported for selenium were qualified as estimated, "UJ". The positive results reported for cadmium, cobalt, lead, nickel and zinc were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-26-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, lead, selenium and zinc in the affected sample. The nondetected results reported for cadmium and selenium were qualified as estimated, "UJ". The positive results reported for cobalt, lead and zinc were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-27-07 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, lead, nickel and selenium in the affected sample. The nondetected results reported for cadmium and selenium were qualified as estimated, "UJ". The positive results reported for cobalt, lead and nickel were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-28-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution.

TO: T. HANSEN
DATE: DECEMBER 6, 2000

– PAGE 4

Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, cobalt, lead, nickel, selenium, vanadium and zinc in the affected sample. The nondetected results reported for cadmium and selenium were qualified as estimated, "UJ". The positive results reported for cobalt, lead, nickel, vanadium and zinc were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-34-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, chromium, cobalt, nickel, selenium and zinc in the affected sample. The nondetected result reported for selenium was qualified as estimated, "UJ". The positive results reported for cadmium, chromium, cobalt, nickel, and zinc were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-G4-SU-DU02 at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, vanadium and zinc were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for cadmium, chromium, cobalt, lead, nickel, selenium, vanadium and zinc in the affected sample. The nondetected result reported for selenium was qualified as estimated, "UJ". The positive results reported for cadmium, chromium, cobalt, lead, nickel, vanadium and zinc were qualified as estimated, "J".

Matrix Spike/Matrix Spike Duplicate Recoveries

The Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Percent Recoveries (%Rs) for aluminum were greater than the 125% quality control limits. Positive results reported for aluminum were qualified as estimated, "J".

The MS/MSD %Rs for manganese were less than 75% quality control limit. Positive results reported for manganese were qualified as estimated, "J".

Field Duplicate Precision

Field duplicate imprecision greater than 50% was noted for aluminum and calcium. The positive results reported for aluminum and calcium were qualified as estimated, "J".

Notes

A continuing calibration verification (CCV) %R was greater than the 110% quality control limits. However, the noncompliant CCV did not bracket samples from this SDG. Therefore, validation action was not required.

A field duplicate summary table is included in Appendix C.

TO: T. HANSEN
DATE: DECEMBER 6, 2000

- PAGE 5

Executive Summary

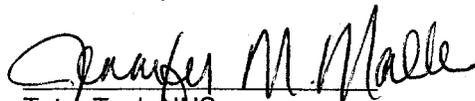
Laboratory Performance: Several analytes were present in the laboratory/preparation blanks.

Other Factors Affecting Data Quality: The interfering analyte calcium was present in several samples. MS/MSD noncompliance was noted for aluminum and manganese. Field duplicate imprecision was noted for aluminum and calcium.

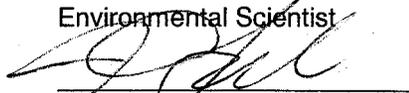
The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist



Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCB D% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = % Solid content is less than 30%

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.4 %	86.5 %	85.8 %	83.2 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1340	J	DG	462	J	DG	867	J	DG	792	J	DG
ANTIMONY	0.4	U		0.36	U		0.36	U		0.37	U	
ARSENIC	1			1.2			0.8			0.91		
BARIUM	3.3			3			4.3			2.5		
BERYLLIUM	0.026	U		0.047	U	A	0.023	U		0.024	U	
CADMIUM	0.038	U		0.035	UJ	K	0.043	J	K	0.036	U	
CALCIUM	21200	J	G	57100	J	G	97800	J	G	27100	J	G
CHROMIUM	3.1			2.2	J	K	4.1	J	K	4.2		
COBALT	0.36			0.16	J	K	0.24	J	K	0.23		
COPPER	0.92	U	A	0.44	U	A	0.74	U	A	0.6	U	A
IRON	1750			669			1200			1060		
LEAD	1.4	U	A	0.93	U	A	1.5	U	A	1.2	U	A
MAGNESIUM	352			320			462			486		
MANGANESE	20.2	J	D	16.5	J	D	20.3	J	D	18.7	J	D
MERCURY	0.021	U		0.019	U		0.019	U		0.02	U	
NICKEL	0.88			0.39	J	K	0.58	J	K	0.57		
POTASSIUM	142			53.4			86.1			100		
SELENIUM	0.63	U		0.57	UJ	K	0.57	UJ	K	0.59	U	
SILVER	0.13	U		0.12	U		0.12	U		0.12	U	
SODIUM	484	U	A	675	U	A	857	U	A	512	U	A
THALLIUM	0.8	U		0.73	U		0.73	U		0.76	U	
TIN	1.4	U	A	1.6	U	A	1.6	U	A	1.3	U	A
VANADIUM	3.1			2.1	J	K	2.8	J	K	2.3		
ZINC	4.0	U	A	2.3	U	A	4.0	U	A	4.3	U	A

CTO091-NS MAYPORT

SOIL DATA
 QUANTERRA
 SDG: MP015

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	81.8 %	91.6 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	911	J	DG	1760	J	DG	837	J	DG	1470	J	DG
ANTIMONY	0.34	U		0.34	U		0.38	U		0.34	U	
ARSENIC	1.3			1.5			1.4			1.5		
BARIUM	3.5			4.4			3.3			6		
BERYLLIUM	0.022	U		0.041	U	A	0.034	U	A	0.031	U	A
CADMIUM	0.033	U		0.042	J	K	0.037	UJ	K	0.076	J	K
CALCIUM	25200	J	G	47600	J	G	36900	J	G	77300	J	G
CHROMIUM	3.1			4.7			2.7			5.1		
COBALT	0.31			0.52	J	K	0.26	J	K	0.42	J	K
COPPER	0.69	U	A	1	U	A	0.44	U	A	4.2		
IRON	1480			2120			1480			1890		
LEAD	1.4	U	A	2.8	J	K	1.2	U	A	6.9	J	K
MAGNESIUM	514			710			328			706		
MANGANESE	22.7	J	D	33	J	D	39.9	J	D	29.5	J	D
MERCURY	0.019	U		0.018	U		0.02	U		0.018	U	
NICKEL	0.57			1	J	K	0.48	J	K	1.2	J	K
POTASSIUM	139			174			94.8			160		
SELENIUM	0.55	U		0.53	UJ	K	0.6	UJ	K	0.54	UJ	K
SILVER	0.11	U		0.11	U		0.12	U		0.11	U	
SODIUM	389	U	A	671	U	A	577	U	A	778	U	A
THALLIUM	0.7	U		0.69	U		0.77	U		0.69	U	
TIN	1.4	U	A	1.7	U	A	1.5	U	A	1.3	U	A
VANADIUM	2.6			4.3			2.5			4.6		
ZINC	7.9			3.7	U	A	14	J	K	16.9	J	K

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	81.6 %	82.2 %	84.1 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	234	J	DG	6620	J	DG	340	J	DG	1080	J	DG
ANTIMONY	0.34	U		0.38	U		0.38	U		0.37	U	
ARSENIC	0.51			0.81			0.53			0.79		
BARIUM	2.6			5.6			5			7.9		
BERYLLIUM	0.022	U		0.35	U	A	0.038	U	A	0.024	U	
CADMIUM	0.033	UJ	K	0.037	UJ	K	0.037	UJ	K	0.14	J	K
CALCIUM	41200	J	G	106000	J	G	164000	J	G	93000	J	G
CHROMIUM	3.7			10.7			1.8			5.4		
COBALT	0.11	J	K	2.4	J	K	0.096	J	K	0.36	J	K
COPPER	0.61	U	A	57.6			0.83	U	A	2	U	A
IRON	509			5480			658			1200		
LEAD	1.6	J	K	9.7	J	K	2.3	J	K	9	J	K
MAGNESIUM	380			1250			1140			678		
MANGANESE	8.5	J	D	58.5	J	D	33.2	J	D	28.1	J	D
MERCURY	0.018	U		0.02	U		0.02	U		0.02	U	
NICKEL	1.8			3.6	J	K	0.45	J	K	1.7	J	K
POTASSIUM	31.2			12.1	U	A	60.9			122		
SELENIUM	0.53	UJ	K	0.6	UJ	K	0.6	UJ	K	0.58	UJ	K
SILVER	0.11	U		2.5			0.12	U		0.12	U	
SODIUM	325	U	A	294	U	A	1710			492	U	A
THALLIUM	0.69	U		0.77	U		0.77	U		0.75	U	
TIN	1.2	U	A	1.5	U	A	1.5	U	A	1.8	U	A
VANADIUM	2			14.2			1.6	J	K	6.5		
ZINC	5.9	J	K	14.3			7.6	J	K	15.8	J	K

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP015

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 UNITS:
 FIELD DUPLICATE OF:

MPT-G4-SU-30-07
 07/06/00
 AOG070231003
 NORMAL
 80.4 %
 MG/KG

MPT-G4-SU-31-08
 07/06/00
 AOG070231004
 NORMAL
 86.6 %
 MG/KG

MPT-G4-SU-32-07
 07/06/00
 AOG070231005
 NORMAL
 85.1 %
 MG/KG

MPT-G4-SU-33-05
 07/06/00
 AOG070231007
 NORMAL
 86.1 %
 MG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	368	J	DG	317	J	DG	2020	J	DG	853	J	DG
ANTIMONY	0.39	U		0.36	U		0.36	U		0.36	U	
ARSENIC	0.53			0.44			1.1			0.95		
BARIUM	1.9			1.8			4.9			2.4		
BERYLLIUM	0.025	U		0.053	U	A	0.061	U	A	0.027	U	A
CADMIUM	0.04			0.042			0.083			0.058		
CALCIUM	4720	J	G	4850	J	G	10500	J	G	22600	J	G
CHROMIUM	2.4			2.4			5.2			2.9		
COBALT	0.18			0.16			0.61			0.27		
COPPER	0.51	U	A	0.82	U	A	1.1	U	A	1.2	U	A
IRON	641			536			2220			1270		
LEAD	0.78	U	A	0.92	U	A	1.7			1.3	U	A
MAGNESIUM	182			131			491			525		
MANGANESE	8.7	J	D	4.7	J	D	22.1	J	D	13.9	J	D
MERCURY	0.021	U		0.019	U		0.02	U		0.019	U	
NICKEL	0.33			0.35			1.2			0.54		
POTASSIUM	42.6			39			170			93.8		
SELENIUM	0.61	U		0.57	U		0.58	U		0.57	U	
SILVER	0.12	U		0.12	U		0.12	U		0.12	U	
SODIUM	288	U	A	256	U	A	252	U	A	343	U	A
THALLIUM	0.78	U		0.73	U		0.74	U		0.73	U	
TIN	1.9	U	A	1.6	U	A	2.1	U	A	1.2	U	A
VANADIUM	1.3			2.4			4.9			2.3		
ZINC	1.7	U	A	3.6	U	A	3.5	U	A	4.0	U	A

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.2 %	89.2 %	85.0 %	83.0 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	707	J	DG	852	J	DG	271	J	DG	671	J	DG
ANTIMONY	0.36	U		0.35	U		0.36	U		0.37	U	
ARSENIC	0.89			0.63			0.8			0.54		
BARIUM	6.1			3.3			3.6			6.8		
BERYLLIUM	0.054	U	A	0.04	U	A	0.023	U		0.033	U	A
CADMIUM	0.27	J	K	0.051	J	K	0.037			0.063	J	K
CALCIUM	103000	J	G	29200	J	G	2810	J	G	83300	J	G
CHROMIUM	4.1	J	K	3.2			2.8			2.6	J	K
COBALT	0.43	J	K	0.33	J	K	0.23			0.17	J	K
COPPER	2.4	U	A	1.2	U	A	0.77	U	A	1.3	U	A
IRON	855			1130			380			874		
LEAD	14.3			2.8	J	K	2.3			1.8	J	K
MAGNESIUM	617			327			54.8			609		
MANGANESE	19.4	J	D	13.1	J	D	6.9	J	D	28.7	J	D
MERCURY	0.019	U		0.0187	U		0.02	U		0.02	U	
NICKEL	2.2	J	K	0.7	J	K	0.3			0.63	J	K
POTASSIUM	57.7			86.5			20	U	A	67.8		
SELENIUM	0.56	UJ	K	0.55	UJ	K	0.57	U		0.59	UJ	K
SILVER	0.12	U		0.11	U		0.12	U		0.12	U	
SODIUM	466	U	A	298	U	A	196	U	A	881	U	A
THALLIUM	0.72	U		0.71	U		0.74	U		0.76	U	
TIN	1.6	U	A	1.2	U	A	1.5	U	A	1.4	U	A
VANADIUM	7.8			3.4			1.7			2.6	J	K
ZINC	23.5	J	K	5.9	J	K	3.6	U	A	8.3	J	K

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP015

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(MG/KG)	0.64	U		0.58	U		0.58	U		0.6	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	82.0 %	91.6 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(MG/KG)	0.56	U		0.54	U		0.61	U		0.55	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(MG/KG)	0.54	U		0.61	U		0.61	U		0.59	U	

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP015

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(MG/KG)	0.62	U		0.58	U		0.59	U		0.58	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	89.0 %	85.0 %	83.0 %
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(MG/KG)	0.57	U		0.56	U		0.59	U		0.6	U	

APPENDIX B
Results as Reported by the Laboratory

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN42 Client ID: MPT-G4-SU-18-08
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 21.59

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.3	25.5	1340	N*	1	ICPST	7/19/00	21:56
Antimony	206.84	0.40	1.3	0.40	U	1	ICPST	7/19/00	21:56
Arsenic	189.04	0.37	1.3	1.0	B	1	ICPST	7/19/00	21:56
Barium	493.41	0.038	25.5	3.3	B	1	ICPST	7/19/00	21:56
Beryllium	313.04	0.026	0.64	0.026	U	1	ICPST	7/19/00	21:56
Cadmium	226.50	0.038	0.26	0.038	U	1	ICPST	7/19/00	21:56
Calcium	317.93	2.9	638	21200		1	ICPST	7/19/00	21:56
Chromium	267.72	0.10	0.64	3.1		1	ICPST	7/19/00	21:56
Cobalt	228.62	0.089	6.4	0.36	B	1	ICPST	7/19/00	21:56
Copper	324.75	0.17	3.2	0.92	B	1	ICPST	7/19/00	21:56
Iron	271.44	1.9	12.8	1750		1	ICPST	7/19/00	21:56
Lead	220.35	0.17	0.38	1.4		1	ICPST	7/19/00	21:56
Magnesium	279.08	1.3	638	352	B	1	ICPST	7/19/00	21:56
Manganese	257.61	0.026	1.9	20.2	N	1	ICPST	7/19/00	21:56
Mercury	253.7	0.021	0.13	0.021	U	1	CVAA	7/17/00	11:26
Nickel	231.60	0.17	5.1	0.88	B	1	ICPST	7/19/00	21:56
Potassium	766.49	2.5	638	142	B	1	ICPST	7/19/00	21:56
Selenium	196.03	0.63	0.64	0.63	U	1	ICPST	7/19/00	21:56
Silver	328.07	0.13	0.64	0.13	U	1	ICPST	7/19/00	21:56
Sodium	330.23	19.8	638	484	B	1	ICPST	7/19/00	21:56
Thallium	190.86	0.80	1.3	0.80	U	1	ICPST	7/19/00	21:56
Tin	189.99	0.36	12.8	1.4	B	1	ICPST	7/19/00	21:56
Vanadium	292.40	0.10	6.4	3.1	B	1	ICPST	7/19/00	21:56

Comments: Lot #: A0G020104 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN42 Client ID: MPT-G4-SU-18-08
Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
Weight: 1.0 Volume: 100 Percent Moisture: 21.59

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.17	2.6	4.0		1	ICPST	7/21/00	19:02

Comments: Lot #: A0G020104 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN43 Client ID: MPT-G4-SU-19-10
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 13.54

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.1	462	N*	1	ICPST	7/19/00	22:06
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	22:06
Arsenic	189.04	0.34	1.2	1.2		1	ICPST	7/19/00	22:06
Barium	493.41	0.035	23.1	3.0	B	1	ICPST	7/19/00	22:06
Beryllium	313.04	0.023	0.58	0.047	B	1	ICPST	7/19/00	22:06
Cadmium	226.50	0.035	0.23	0.035	U	1	ICPST	7/19/00	22:06
Calcium	317.93	2.6	578	57100		1	ICPST	7/19/00	22:06
Chromium	267.72	0.093	0.58	2.2		1	ICPST	7/19/00	22:06
Cobalt	228.62	0.081	5.8	0.16	B	1	ICPST	7/19/00	22:06
Copper	324.75	0.15	2.9	0.44	B	1	ICPST	7/19/00	22:06
Iron	271.44	1.7	11.6	669		1	ICPST	7/19/00	22:06
Lead	220.35	0.15	0.35	0.93		1	ICPST	7/19/00	22:06
Magnesium	279.08	1.2	578	320	B	1	ICPST	7/19/00	22:06
Manganesec	257.61	0.023	1.7	16.5	N	1	ICPST	7/19/00	22:06
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	7/17/00	11:28
Nickel	231.60	0.15	4.6	0.39	B	1	ICPST	7/19/00	22:06
Potassium	766.49	2.3	578	53.4	B	1	ICPST	7/19/00	22:06
Selenium	196.03	0.57	0.58	0.57	U	1	ICPST	7/19/00	22:06
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/19/00	22:06
Sodium	330.23	17.9	578	675		1	ICPST	7/19/00	22:06
Thallium	190.86	0.73	1.2	0.73	U	1	ICPST	7/19/00	22:06
Tin	189.99	0.32	11.6	1.6	B	1	ICPST	7/19/00	22:06
Vanadium	292.40	0.093	5.8	2.1	B	1	ICPST	7/19/00	22:06

Comments: Lot #: A0G020104 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN43 Client ID: MPT-G4-SU-19-10
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 13.54

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.3	2.3	B	1	ICPST	7/21/00	19:12

Comments: Lot #: A0G020104 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN44 Client ID: MPT-G4-SU-20-10
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 14.21

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.3	867	N*	1	ICPST	7/19/00	22:11
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	22:11
Arsenic	189.04	0.34	1.2	0.80	B	1	ICPST	7/19/00	22:11
Barium	493.41	0.035	23.3	4.3	B	1	ICPST	7/19/00	22:11
Beryllium	313.04	0.023	0.58	0.023	U	1	ICPST	7/19/00	22:11
Cadmium	226.50	0.035	0.23	0.043	B	1	ICPST	7/19/00	22:11
Calcium	317.93	13.1	2910	97800		5	ICPST	7/21/00	21:25
Chromium	267.72	0.093	0.58	4.1		1	ICPST	7/19/00	22:11
Cobalt	228.62	0.082	5.8	0.24	B	1	ICPST	7/19/00	22:11
Copper	324.75	0.15	2.9	0.74	B	1	ICPST	7/19/00	22:11
Iron	271.44	1.7	11.7	1200		1	ICPST	7/19/00	22:11
Lead	220.35	0.15	0.35	1.5		1	ICPST	7/19/00	22:11
Magnesium	279.08	1.2	583	462	B	1	ICPST	7/19/00	22:11
Manganese	257.61	0.023	1.8	20.3	N	1	ICPST	7/19/00	22:11
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	7/17/00	11:29
Nickel	231.60	0.15	4.7	0.58	B	1	ICPST	7/19/00	22:11
Potassium	766.49	2.3	583	86.1	B	1	ICPST	7/19/00	22:11
Selenium	196.03	0.57	0.58	0.57	U	1	ICPST	7/19/00	22:11
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/19/00	22:11
Sodium	330.23	18.1	583	857		1	ICPST	7/19/00	22:11
Thallium	190.86	0.73	1.2	0.73	U	1	ICPST	7/19/00	22:11
Tin	189.99	0.33	11.7	1.6	B	1	ICPST	7/19/00	22:11
Vanadium	292.40	0.093	5.8	2.8	B	1	ICPST	7/19/00	22:11

Comments: Lot #: AOG020104 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN44 Client ID: MPT-G4-SU-20-10
Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
Weight: 1.0 Volume: 100 Percent Moisture: 14.21

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.3	4.0		1	ICPST	7/21/00	19:17

Comments: Lot #: A0G020104 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN45 Client ID: MPT-G4-SU-21-07
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 16.76

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	24.0	792	N*	1	ICPST	7/19/00	22:16
Antimony	206.84	0.37	1.2	0.37	U	1	ICPST	7/19/00	22:16
Arsenic	189.04	0.35	1.2	0.91	B	1	ICPST	7/19/00	22:16
Barium	493.41	0.036	24.0	2.5	B	1	ICPST	7/19/00	22:16
Beryllium	313.04	0.024	0.60	0.024	U	1	ICPST	7/19/00	22:16
Cadmium	226.50	0.036	0.24	0.036	U	1	ICPST	7/19/00	22:16
Calcium	317.93	2.7	601	27100		1	ICPST	7/19/00	22:16
Chromium	267.72	0.096	0.60	4.2		1	ICPST	7/19/00	22:16
Cobalt	228.62	0.084	6.0	0.23	B	1	ICPST	7/19/00	22:16
Copper	324.75	0.16	3.0	0.60	B	1	ICPST	7/19/00	22:16
Iron	271.44	1.8	12.0	1060		1	ICPST	7/19/00	22:16
Lead	220.35	0.16	0.36	1.2		1	ICPST	7/19/00	22:16
Magnesium	279.08	1.2	601	486	B	1	ICPST	7/19/00	22:16
Manganese	257.61	0.024	1.8	18.7	N	1	ICPST	7/19/00	22:16
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:30
Nickel	231.60	0.16	4.8	0.57	B	1	ICPST	7/19/00	22:16
Potassium	766.49	2.4	601	100	B	1	ICPST	7/19/00	22:16
Selenium	196.03	0.59	0.60	0.59	U	1	ICPST	7/19/00	22:16
Silver	328.07	0.12	0.60	0.12	U	1	ICPST	7/19/00	22:16
Sodium	330.23	18.6	601	512	B	1	ICPST	7/19/00	22:16
Thallium	190.86	0.76	1.2	0.76	U	1	ICPST	7/19/00	22:16
Tin	189.99	0.34	12.0	1.3	B	1	ICPST	7/19/00	22:16
Vanadium	292.40	0.096	6.0	2.3	B	1	ICPST	7/19/00	22:16

Comments: Lot #: A0G020104 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN45 Client ID: MPT-G4-SU-21-07
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 16.76

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.4	4.3		1	ICPST	7/21/00	19:22

Comments: Lot #: A0G020104 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN46 Client ID: MPT-G4-SU-22-08
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 10.01

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.1	22.2	911	N*	1	ICPST	7/19/00	22:20
Antimony	206.84	0.34	1.1	0.34	U	1	ICPST	7/19/00	22:20
Arsenic	189.04	0.32	1.1	1.3		1	ICPST	7/19/00	22:20
Barium	493.41	0.033	22.2	3.5	B	1	ICPST	7/19/00	22:20
Beryllium	313.04	0.022	0.56	0.022	U	1	ICPST	7/19/00	22:20
Cadmium	226.50	0.033	0.22	0.033	U	1	ICPST	7/19/00	22:20
Calcium	317.93	2.5	556	25200		1	ICPST	7/19/00	22:20
Chromium	267.72	0.089	0.56	3.1		1	ICPST	7/19/00	22:20
Cobalt	228.62	0.078	5.6	0.31	B	1	ICPST	7/19/00	22:20
Copper	324.75	0.14	2.8	0.69	B	1	ICPST	7/19/00	22:20
Iron	271.44	1.7	11.1	1480		1	ICPST	7/19/00	22:20
Lead	220.35	0.14	0.33	1.4		1	ICPST	7/19/00	22:20
Magnesium	279.08	1.1	556	514	B	1	ICPST	7/19/00	22:20
Manganese	257.61	0.022	1.7	22.7	N	1	ICPST	7/19/00	22:20
Mercury	253.7	0.019	0.11	0.019	U	1	CVAA	7/17/00	11:31
Nickel	231.60	0.14	4.4	0.57	B	1	ICPST	7/19/00	22:20
Potassium	766.49	2.2	556	139	B	1	ICPST	7/19/00	22:20
Selenium	196.03	0.55	0.56	0.55	U	1	ICPST	7/19/00	22:20
Silver	328.07	0.11	0.56	0.11	U	1	ICPST	7/19/00	22:20
Sodium	330.23	17.2	556	389	B	1	ICPST	7/19/00	22:20
Thallium	190.86	0.70	1.1	0.70	U	1	ICPST	7/19/00	22:20
Tin	189.99	0.31	11.1	1.4	B	1	ICPST	7/19/00	22:20
Vanadium	292.40	0.089	5.6	2.6	B	1	ICPST	7/19/00	22:20

Comments: Lot #: A0G020104 Sample #: 5

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN46 Client ID: MPT-G4-SU-22-08
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 10.01

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.14	2.2	7.9		1	ICPST	7/21/00	19:40

Comments: Lot #: A0G020104 Sample #: 5

Version 3.63.6 Beta

L North Canton

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN47 Client ID: MPT-G4-SU-23-08
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 8.01

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.1	21.7	1760	N*	1	ICPST	7/19/00	14:34
Antimony	206.84	0.34	1.1	0.34	U	1	ICPST	7/19/00	14:34
Arsenic	189.04	0.32	1.1	1.5		1	ICPST	7/19/00	14:34
Barium	493.41	0.033	21.7	4.4	B	1	ICPST	7/19/00	14:34
Beryllium	313.04	0.022	0.54	0.041	B	1	ICPST	7/19/00	14:34
Cadmium	226.50	0.033	0.22	0.042	B	1	ICPST	7/19/00	14:34
Calcium	317.93	2.4	544	47600		1	ICPST	7/19/00	14:34
Chromium	267.72	0.087	0.54	4.7		1	ICPST	7/19/00	14:34
Cobalt	228.62	0.076	5.4	0.52	B	1	ICPST	7/19/00	14:34
Copper	324.75	0.14	2.7	1.0	B	1	ICPST	7/19/00	14:34
Iron	271.44	1.6	10.9	2120		1	ICPST	7/19/00	14:34
Lead	220.35	0.14	0.33	2.8		1	ICPST	7/19/00	14:34
Magnesium	279.08	1.1	544	710		1	ICPST	7/19/00	14:34
Manganese	257.61	0.022	1.6	33.0	N	1	ICPST	7/19/00	14:34
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	7/17/00	11:32
Nickel	231.60	0.14	4.4	1.0	B	1	ICPST	7/19/00	14:34
Potassium	766.49	2.2	544	174	B	1	ICPST	7/19/00	14:34
Selenium	196.03	0.53	0.54	0.53	U	1	ICPST	7/19/00	14:34
Silver	328.07	0.11	0.54	0.11	U	1	ICPST	7/19/00	14:34
Sodium	330.23	16.9	544	671		1	ICPST	7/19/00	14:34
Thallium	190.86	0.69	1.1	0.69	U	1	ICPST	7/19/00	14:34
Tin	189.99	0.30	10.9	1.7	B	1	ICPST	7/19/00	14:34
Vanadium	292.40	0.087	5.4	4.3	B	1	ICPST	7/19/00	14:34

Comments: Lot #: A0G020104 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFN47 Client ID: MPT-G4-SU-23-08
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 8.01

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.14	2.2	3.7		1	ICPST	7/21/00	19:45

Comments: Lot #: AOG020104 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRAK Client ID: MPT-G4-SU-24-08
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 18.16

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.3	24.4	837	N*	1	ICPST	7/19/00	14:39
Antimony	206.84	0.38	1.2	0.38	U	1	ICPST	7/19/00	14:39
Arsenic	189.04	0.35	1.2	1.4		1	ICPST	7/19/00	14:39
Barium	493.41	0.037	24.4	3.3	B	1	ICPST	7/19/00	14:39
Beryllium	313.04	0.024	0.61	0.034	B	1	ICPST	7/19/00	14:39
Cadmium	226.50	0.037	0.24	0.037	U	1	ICPST	7/19/00	14:39
Calcium	317.93	2.7	611	36900		1	ICPST	7/19/00	14:39
Chromium	267.72	0.098	0.61	2.7		1	ICPST	7/19/00	14:39
Cobalt	228.62	0.086	6.1	0.26	B	1	ICPST	7/19/00	14:39
Copper	324.75	0.16	3.1	0.44	B	1	ICPST	7/19/00	14:39
Iron	271.44	1.8	12.2	1480		1	ICPST	7/19/00	14:39
Lead	220.35	0.16	0.37	1.2		1	ICPST	7/19/00	14:39
Magnesium	279.08	1.3	611	328	B	1	ICPST	7/19/00	14:39
Manganese	257.61	0.024	1.8	39.9	N	1	ICPST	7/19/00	14:39
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:59
Nickel	231.60	0.16	4.9	0.48	B	1	ICPST	7/19/00	14:39
Potassium	766.49	2.4	611	94.8	B	1	ICPST	7/19/00	14:39
Selenium	196.03	0.60	0.61	0.60	U	1	ICPST	7/19/00	14:39
Silver	328.07	0.12	0.61	0.12	U	1	ICPST	7/19/00	14:39
Sodium	330.23	18.9	611	577	B	1	ICPST	7/19/00	14:39
Thallium	190.86	0.77	1.2	0.77	U	1	ICPST	7/19/00	14:39
Tin	189.99	0.34	12.2	1.5	B	1	ICPST	7/19/00	14:39
Vanadium	292.40	0.098	6.1	2.5	B	1	ICPST	7/19/00	14:39

Comments: Lot #: A0G060209 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRAK Client ID: MPT-G4-SU-24-08
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 18.16

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.4	14.0		1	ICPST	7/21/00	19:50

Comments: Lot #: A0G060209 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRAW Client ID: MPT-G4-SU-25-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 8.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.1	21.8	1470	N*	1	ICPST	7/19/00	14:44
Antimony	206.84	0.34	1.1	0.34	U	1	ICPST	7/19/00	14:44
Arsenic	189.04	0.32	1.1	1.5		1	ICPST	7/19/00	14:44
Barium	493.41	0.033	21.8	6.0	B	1	ICPST	7/19/00	14:44
Beryllium	313.04	0.022	0.55	0.031	B	1	ICPST	7/19/00	14:44
Cadmium	226.50	0.033	0.22	0.076	B	1	ICPST	7/19/00	14:44
Calcium	317.93	12.2	2730	77300		5	ICPST	7/21/00	21:30
Chromium	267.72	0.087	0.55	5.1		1	ICPST	7/19/00	14:44
Cobalt	228.62	0.076	5.5	0.42	B	1	ICPST	7/19/00	14:44
Copper	324.75	0.14	2.7	4.2		1	ICPST	7/19/00	14:44
Iron	271.44	1.6	10.9	1890		1	ICPST	7/19/00	14:44
Lead	220.35	0.14	0.33	6.9		1	ICPST	7/19/00	14:44
Magnesium	279.08	1.1	546	706		1	ICPST	7/19/00	14:44
Manganese	257.61	0.022	1.6	29.5	N	1	ICPST	7/19/00	14:44
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	7/17/00	11:36
Nickel	231.60	0.14	4.4	1.2	B	1	ICPST	7/19/00	14:44
Potassium	766.49	2.2	546	160	B	1	ICPST	7/19/00	14:44
Selenium	196.03	0.54	0.55	0.54	U	1	ICPST	7/19/00	14:44
Silver	328.07	0.11	0.55	0.11	U	1	ICPST	7/19/00	14:44
Sodium	330.23	16.9	546	778		1	ICPST	7/19/00	14:44
Thallium	190.86	0.69	1.1	0.69	U	1	ICPST	7/19/00	14:44
Tin	189.99	0.31	10.9	1.3	B	1	ICPST	7/19/00	14:44
Vanadium	292.40	0.087	5.5	4.6	B	1	ICPST	7/19/00	14:44

Comments: Lot #: A0G060209 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRAW Client ID: MPT-G4-SU-25-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 8.4

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.14	2.2	16.9		1	ICPST	7/21/00	19:56

Comments: Lot #: A0G060209 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRAX Client ID: MPT-G4-SU-26-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 8.07

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.1	21.8	234	N*	1	ICPST	7/19/00	14:48
Antimony	206.84	0.34	1.1	0.34	U	1	ICPST	7/19/00	14:48
Arsenic	189.04	0.32	1.1	0.51	B	1	ICPST	7/19/00	14:48
Barium	493.41	0.033	21.8	2.6	B	1	ICPST	7/19/00	14:48
Beryllium	313.04	0.022	0.54	0.022	U	1	ICPST	7/19/00	14:48
Cadmium	226.50	0.033	0.22	0.033	U	1	ICPST	7/19/00	14:48
Calcium	317.93	2.4	544	41200		1	ICPST	7/19/00	14:48
Chromium	267.72	0.087	0.54	3.7		1	ICPST	7/19/00	14:48
Cobalt	228.62	0.076	5.4	0.11	B	1	ICPST	7/19/00	14:48
Copper	324.75	0.14	2.7	0.61	B	1	ICPST	7/19/00	14:48
Iron	271.44	1.6	10.9	509		1	ICPST	7/19/00	14:48
Lead	220.35	0.14	0.33	1.6		1	ICPST	7/19/00	14:48
Magnesium	279.08	1.1	544	380	B	1	ICPST	7/19/00	14:48
Manganese	257.61	0.022	1.6	8.5	N	1	ICPST	7/19/00	14:48
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	7/17/00	11:39
Nickel	231.60	0.14	4.4	1.8	B	1	ICPST	7/19/00	14:48
Potassium	766.49	2.2	544	31.2	B	1	ICPST	7/19/00	14:48
Selenium	196.03	0.53	0.54	0.53	U	1	ICPST	7/19/00	14:48
Silver	328.07	0.11	0.54	0.11	U	1	ICPST	7/19/00	14:48
Sodium	330.23	16.9	544	325	B	1	ICPST	7/19/00	14:48
Thallium	190.86	0.69	1.1	0.69	U	1	ICPST	7/19/00	14:48
Tin	189.99	0.31	10.9	1.2	B	1	ICPST	7/19/00	14:48
Vanadium	292.40	0.087	5.4	2.0	B	1	ICPST	7/19/00	14:48

Comments: Lot #: AOG060209 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRAX Client ID: MPT-G4-SU-26-05
Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
Weight: 1.0 Volume: 100 Percent Moisture: 8.07

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.14	2.2	5.9		1	ICPST	7/21/00	20:01

Comments: Lot #: A0G060209 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRC1 Client ID: MPT-G4-SU-27-07
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 18.43

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.3	24.5	6620	N*	1	ICPST	7/19/00	14:53
Antimony	206.84	0.38	1.2	0.38	U	1	ICPST	7/19/00	14:53
Arsenic	189.04	0.36	1.2	0.81	B	1	ICPST	7/19/00	14:53
Barium	493.41	0.037	24.5	5.6	B	1	ICPST	7/19/00	14:53
Beryllium	313.04	0.025	0.61	0.35	B	1	ICPST	7/19/00	14:53
Cadmium	226.50	0.037	0.25	0.037	U	1	ICPST	7/19/00	14:53
Calcium	317.93	13.7	3070	106000		5	ICPST	7/21/00	21:48
Chromium	267.72	0.098	0.61	10.7		1	ICPST	7/19/00	14:53
Cobalt	228.62	0.086	6.1	2.4	B	1	ICPST	7/19/00	14:53
Copper	324.75	0.16	3.1	57.6		1	ICPST	7/19/00	14:53
Iron	271.44	1.8	12.3	5480		1	ICPST	7/19/00	14:53
Lead	220.35	0.16	0.37	9.7		1	ICPST	7/19/00	14:53
Magnesium	279.08	1.3	613	1250		1	ICPST	7/19/00	14:53
Manganese	257.61	0.025	1.8	58.5	N	1	ICPST	7/19/00	14:53
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:40
Nickel	231.60	0.16	4.9	3.6	B	1	ICPST	7/19/00	14:53
Potassium	766.49	2.4	613	12.1	B	1	ICPST	7/19/00	14:53
Selenium	196.03	0.60	0.61	0.60	U	1	ICPST	7/19/00	14:53
Silver	328.07	0.12	0.61	2.5		1	ICPST	7/19/00	14:53
Sodium	330.23	19.0	613	294	B	1	ICPST	7/19/00	14:53
Thallium	190.86	0.77	1.2	0.77	U	1	ICPST	7/19/00	14:53
Tin	189.99	0.34	12.3	1.5	B	1	ICPST	7/19/00	14:53
Vanadium	292.40	0.098	6.1	14.2		1	ICPST	7/19/00	14:53

Comments: Lot #: A0G060209 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFRC1 Client ID: MPT-G4-SU-27-07
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 18.43

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.5	143		1	ICPST	7/21/00	20:06

Comments: Lot #: A0G060209 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV5X Client ID: MPT-G4-SU-28-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.3	24.3	340	N*	1	ICPST	7/19/00	14:58
Antimony	206.84	0.38	1.2	0.38	U	1	ICPST	7/19/00	14:58
Arsenic	189.04	0.35	1.2	0.53	B	1	ICPST	7/19/00	14:58
Barium	493.41	0.037	24.3	5.0	B	1	ICPST	7/19/00	14:58
Beryllium	313.04	0.024	0.61	0.038	B	1	ICPST	7/19/00	14:58
Cadmium	226.50	0.037	0.24	0.037	U	1	ICPST	7/19/00	14:58
Calcium	317.93	13.6	3040	164000		5	ICPST	7/21/00	21:53
Chromium	267.72	0.097	0.61	1.8		1	ICPST	7/19/00	14:58
Cobalt	228.62	0.085	6.1	0.096	B	1	ICPST	7/19/00	14:58
Copper	324.75	0.16	3.0	0.83	B	1	ICPST	7/19/00	14:58
Iron	271.44	1.8	12.2	658		1	ICPST	7/19/00	14:58
Lead	220.35	0.16	0.37	2.3		1	ICPST	7/19/00	14:58
Magnesium	279.08	1.2	609	1140		1	ICPST	7/19/00	14:58
Manganese	257.61	0.024	1.8	33.2	N	1	ICPST	7/19/00	14:58
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:42
Nickel	231.60	0.16	4.9	0.45	B	1	ICPST	7/19/00	14:58
Potassium	766.49	2.4	609	60.9	B	1	ICPST	7/19/00	14:58
Selenium	196.03	0.60	0.61	0.60	U	1	ICPST	7/19/00	14:58
Silver	328.07	0.12	0.61	0.12	U	1	ICPST	7/19/00	14:58
Sodium	330.23	18.9	609	1710		1	ICPST	7/19/00	14:58
Thallium	190.86	0.77	1.2	0.77	U	1	ICPST	7/19/00	14:58
Tin	189.99	0.34	12.2	1.5	B	1	ICPST	7/19/00	14:58
Vanadium	292.40	0.097	6.1	1.6	B	1	ICPST	7/19/00	14:58

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV5X Client ID: MPT-G4-SU-28-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.4	7.6		1	ICPST	7/21/00	20:11

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV68 Client ID: MPT-G4-SU-29-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 15.89

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.8	1080	N*	1	ICPST	7/19/00	15:14
Antimony	206.84	0.37	1.2	0.37	U	1	ICPST	7/19/00	15:14
Arsenic	189.04	0.35	1.2	0.79	B	1	ICPST	7/19/00	15:14
Barium	493.41	0.036	23.8	7.9	B	1	ICPST	7/19/00	15:14
Beryllium	313.04	0.024	0.59	0.024	U	1	ICPST	7/19/00	15:14
Cadmium	226.50	0.036	0.24	0.14	B	1	ICPST	7/19/00	15:14
Calcium	317.93	13.3	2970	93000		5	ICPST	7/21/00	22:04
Chromium	267.72	0.095	0.59	5.4		1	ICPST	7/19/00	15:14
Cobalt	228.62	0.083	5.9	0.36	B	1	ICPST	7/19/00	15:14
Copper	324.75	0.16	3.0	2.0	B	1	ICPST	7/19/00	15:14
Iron	271.44	1.8	11.9	1200		1	ICPST	7/19/00	15:14
Lead	220.35	0.16	0.36	9.0		1	ICPST	7/19/00	15:14
Magnesium	279.08	1.2	595	678		1	ICPST	7/19/00	15:14
Manganese	257.61	0.024	1.8	28.1	N	1	ICPST	7/19/00	15:14
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:53
Nickel	231.60	0.16	4.8	1.7	B	1	ICPST	7/19/00	15:14
Potassium	766.49	2.4	595	122	B	1	ICPST	7/19/00	15:14
Selenium	196.03	0.58	0.59	0.58	U	1	ICPST	7/19/00	15:14
Silver	328.07	0.12	0.59	0.12	U	1	ICPST	7/19/00	15:14
Sodium	330.23	18.4	595	492	B	1	ICPST	7/19/00	15:14
Thallium	190.86	0.75	1.2	0.75	U	1	ICPST	7/19/00	15:14
Tin	189.99	0.33	11.9	1.8	B	1	ICPST	7/19/00	15:14
Vanadium	292.40	0.095	5.9	6.5		1	ICPST	7/19/00	15:14

Comments: Lot #: A0G070231 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV68 Client ID: MPT-G4-SU-29-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 15.89

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.4	15.8		1	ICPST	7/21/00	20:26

Comments: Lot #: A0G070231 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV69 Client ID: MPT-G4-SU-30-07
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 19.58

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.3	24.9	368	N*	1	ICPST	7/19/00	15:19
Antimony	206.84	0.39	1.2	0.39	U	1	ICPST	7/19/00	15:19
Arsenic	189.04	0.36	1.2	0.53	B	1	ICPST	7/19/00	15:19
Barium	493.41	0.037	24.9	1.9	B	1	ICPST	7/19/00	15:19
Beryllium	313.04	0.025	0.62	0.025	U	1	ICPST	7/19/00	15:19
Cadmium	226.50	0.037	0.25	0.040	B	1	ICPST	7/19/00	15:19
Calcium	317.93	2.8	622	4720		1	ICPST	7/19/00	15:19
Chromium	267.72	0.10	0.62	2.4		1	ICPST	7/19/00	15:19
Cobalt	228.62	0.087	6.2	0.18	B	1	ICPST	7/19/00	15:19
Copper	324.75	0.16	3.1	0.51	B	1	ICPST	7/19/00	15:19
Iron	271.44	1.9	12.4	641		1	ICPST	7/19/00	15:19
Lead	220.35	0.16	0.37	0.78		1	ICPST	7/19/00	15:19
Magnesium	279.08	1.3	622	182	B	1	ICPST	7/19/00	15:19
Manganese	257.61	0.025	1.9	8.7	N	1	ICPST	7/19/00	15:19
Mercury	253.7	0.021	0.12	0.021	U	1	CVAA	7/17/00	11:57
Nickel	231.60	0.16	5.0	0.33	B	1	ICPST	7/19/00	15:19
Potassium	766.49	2.5	622	42.6	B	1	ICPST	7/19/00	15:19
Selenium	196.03	0.61	0.62	0.61	U	1	ICPST	7/19/00	15:19
Silver	328.07	0.12	0.62	0.12	U	1	ICPST	7/19/00	15:19
Sodium	330.23	19.3	622	288	B	1	ICPST	7/19/00	15:19
Thallium	190.86	0.78	1.2	0.78	U	1	ICPST	7/19/00	15:19
Tin	189.99	0.35	12.4	1.9	B	1	ICPST	7/19/00	15:19
Vanadium	292.40	0.10	6.2	1.3	B	1	ICPST	7/19/00	15:19

Comments: Lot #: A0G070231 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV69 Client ID: MPT-G4-SU-30-07
Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
Weight: 1.0 Volume: 100 Percent Moisture: 19.58

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.5	1.7	B	1	ICPST	7/21/00	20:44

Comments: Lot #: A0G070231 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6A Client ID: MPT-G4-SU-31-08
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 13.41

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.1	317	N*	1	ICPST	7/19/00	15:35
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	15:35
Arsenic	189.04	0.34	1.2	0.44	B	1	ICPST	7/19/00	15:35
Barium	493.41	0.035	23.1	1.8	B	1	ICPST	7/19/00	15:35
Beryllium	313.04	0.023	0.58	0.053	B	1	ICPST	7/19/00	15:35
Cadmium	226.50	0.035	0.23	0.042	B	1	ICPST	7/19/00	15:35
Calcium	317.93	2.6	577	4850		1	ICPST	7/19/00	15:35
Chromium	267.72	0.092	0.58	2.4		1	ICPST	7/19/00	15:35
Cobalt	228.62	0.081	5.8	0.16	B	1	ICPST	7/19/00	15:35
Copper	324.75	0.15	2.9	0.82	B	1	ICPST	7/19/00	15:35
Iron	271.44	1.7	11.6	536		1	ICPST	7/19/00	15:35
Lead	220.35	0.15	0.35	0.92		1	ICPST	7/19/00	15:35
Magnesium	279.08	1.2	577	131	B	1	ICPST	7/19/00	15:35
Manganese	257.61	0.023	1.7	4.7	N	1	ICPST	7/19/00	15:35
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	7/17/00	11:47
Nickel	231.60	0.15	4.6	0.35	B	1	ICPST	7/19/00	15:35
Potassium	766.49	2.3	577	39.0	B	1	ICPST	7/19/00	15:35
Selenium	196.03	0.57	0.58	0.57	U	1	ICPST	7/19/00	15:35
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/19/00	15:35
Sodium	330.23	17.9	577	256	B	1	ICPST	7/19/00	15:35
Thallium	190.86	0.73	1.2	0.73	U	1	ICPST	7/19/00	15:35
Tin	189.99	0.32	11.6	1.6	B	1	ICPST	7/19/00	15:35
Vanadium	292.40	0.092	5.8	2.4	B	1	ICPST	7/19/00	15:35

Comments: Lot #: AOG070231 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6A Client ID: MPT-G4-SU-31-08
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 13.41

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.3	3.6		1	ICPST	7/21/00	20:49

Comments: Lot #: A0G070231 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6D Client ID: MPT-G4-SU-32-07
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 14.88

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.5	2020	N*	1	ICPST	7/19/00	15:40
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	15:40
Arsenic	189.04	0.34	1.2	1.1	B	1	ICPST	7/19/00	15:40
Barium	493.41	0.035	23.5	4.9	B	1	ICPST	7/19/00	15:40
Beryllium	313.04	0.024	0.59	0.061	B	1	ICPST	7/19/00	15:40
Cadmium	226.50	0.035	0.24	0.083	B	1	ICPST	7/19/00	15:40
Calcium	317.93	2.6	587	10500		1	ICPST	7/19/00	15:40
Chromium	267.72	0.094	0.59	5.2		1	ICPST	7/19/00	15:40
Cobalt	228.62	0.082	5.9	0.61	B	1	ICPST	7/19/00	15:40
Copper	324.75	0.15	2.9	1.1	B	1	ICPST	7/19/00	15:40
Iron	271.44	1.8	11.8	2220		1	ICPST	7/19/00	15:40
Lead	220.35	0.15	0.35	1.7		1	ICPST	7/19/00	15:40
Magnesium	279.08	1.2	587	491	B	1	ICPST	7/19/00	15:40
Manganese	257.61	0.024	1.8	22.1	N	1	ICPST	7/19/00	15:40
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:48
Nickel	231.60	0.15	4.7	1.2	B	1	ICPST	7/19/00	15:40
Potassium	766.49	2.3	587	170	B	1	ICPST	7/19/00	15:40
Selenium	196.03	0.58	0.59	0.58	U	1	ICPST	7/19/00	15:40
Silver	328.07	0.12	0.59	0.12	U	1	ICPST	7/19/00	15:40
Sodium	330.23	18.2	587	252	B	1	ICPST	7/19/00	15:40
Thallium	190.86	0.74	1.2	0.74	U	1	ICPST	7/19/00	15:40
Tin	189.99	0.33	11.8	2.1	B	1	ICPST	7/19/00	15:40
Vanadium	292.40	0.094	5.9	4.9	B	1	ICPST	7/19/00	15:40

Comments: Lot #: A0G070231 Sample #: 5

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6D Client ID: MPT-G4-SU-32-07
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 14.88

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.4	3.5		1	ICPST	7/21/00	20:54

Comments: Lot #: A0G070231 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6L Client ID: MPT-G4-SU-33-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 13.94

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.2	853	N*	1	ICPST	7/19/00	15:50
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	15:50
Arsenic	189.04	0.34	1.2	0.95	B	1	ICPST	7/19/00	15:50
Barium	493.41	0.035	23.2	2.4	B	1	ICPST	7/19/00	15:50
Beryllium	313.84	0.023	0.58	0.027	B	1	ICPST	7/19/00	15:50
Cadmium	226.50	0.035	0.23	0.058	B	1	ICPST	7/19/00	15:50
Calcium	317.93	2.6	581	22600		1	ICPST	7/19/00	15:50
Chromium	267.72	0.093	0.58	2.9		1	ICPST	7/19/00	15:50
Cobalt	228.62	0.081	5.8	0.27	B	1	ICPST	7/19/00	15:50
Copper	324.75	0.15	2.9	1.2	B	1	ICPST	7/19/00	15:50
Iron	271.44	1.7	11.6	1270		1	ICPST	7/19/00	15:50
Lead	220.35	0.15	0.35	1.3		1	ICPST	7/19/00	15:50
Magnesium	279.08	1.2	581	525	B	1	ICPST	7/19/00	15:50
Manganese	257.61	0.023	1.7	13.9	N	1	ICPST	7/19/00	15:50
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	7/17/00	11:52
Nickel	231.60	0.15	4.7	0.54	B	1	ICPST	7/19/00	15:50
Potassium	766.49	2.3	581	93.8	B	1	ICPST	7/19/00	15:50
Selenium	196.03	0.57	0.58	0.57	U	1	ICPST	7/19/00	15:50
Silver	328.07	0.12	0.58	0.12	U	1	ICPST	7/19/00	15:50
Sodium	330.23	18.0	581	343	B	1	ICPST	7/19/00	15:50
Thallium	190.86	0.73	1.2	0.73	U	1	ICPST	7/19/00	15:50
Tin	189.99	0.33	11.6	1.2	B	1	ICPST	7/19/00	15:50
Vanadium	292.40	0.093	5.8	2.3	B	1	ICPST	7/19/00	15:50

Comments: Lot #: A0G070231 Sample #: 7

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6L Client ID: MPT-G4-SU-33-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 13.94

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.3	4.0		1	ICPST	7/21/00	21:05

Comments: Lot #: A0G070231 Sample #: 7

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWAG Client ID: MPT-G4-SU-34-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 12.77

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	22.9	707	N*	1	ICPST	7/19/00	15:54
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	15:54
Arsenic	189.04	0.33	1.2	0.89	B	1	ICPST	7/19/00	15:54
Barium	493.41	0.034	22.9	6.1	B	1	ICPST	7/19/00	15:54
Beryllium	313.04	0.023	0.57	0.054	B	1	ICPST	7/19/00	15:54
Cadmium	226.50	0.034	0.23	0.27		1	ICPST	7/19/00	15:54
Calcium	317.93	12.8	2870	103000		5	ICPST	7/21/00	22:14
Chromium	267.72	0.092	0.57	4.1		1	ICPST	7/19/00	15:54
Cobalt	228.62	0.080	5.7	0.43	B	1	ICPST	7/19/00	15:54
Copper	324.75	0.15	2.9	2.4	B	1	ICPST	7/19/00	15:54
Iron	271.44	1.7	11.5	855		1	ICPST	7/19/00	15:54
Lead	220.35	0.15	0.34	14.3		1	ICPST	7/19/00	15:54
Magnesium	279.08	1.2	573	617		1	ICPST	7/19/00	15:54
Manganese	257.61	0.023	1.7	19.4	N	1	ICPST	7/19/00	15:54
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	7/17/00	11:58
Nickel	231.60	0.15	4.6	2.2	B	1	ICPST	7/19/00	15:54
Potassium	766.49	2.3	573	57.7	B	1	ICPST	7/19/00	15:54
Selenium	196.03	0.56	0.57	0.56	U	1	ICPST	7/19/00	15:54
Silver	328.07	0.12	0.57	0.12	U	1	ICPST	7/19/00	15:54
Sodium	330.23	17.8	573	466	B	1	ICPST	7/19/00	15:54
Thallium	190.86	0.72	1.2	0.72	U	1	ICPST	7/19/00	15:54
Tin	189.99	0.32	11.5	1.6	B	1	ICPST	7/19/00	15:54
Vanadium	292.40	0.092	5.7	7.8		1	ICPST	7/19/00	15:54

Comments: Lot #: A0G080137 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWAG Client ID: MPT-G4-SU-34-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 12.77

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.3	23.5		1	ICPST	7/21/00	21:10

Comments: Lot #: A0G080137 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWAK Client ID: MPT-G4-SU-35-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 10.8

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	22.4	852	N*	1	ICPST	7/19/00	15:59
Antimony	206.84	0.35	1.1	0.35	U	1	ICPST	7/19/00	15:59
Arsenic	189.04	0.33	1.1	0.63	B	1	ICPST	7/19/00	15:59
Barium	493.41	0.034	22.4	3.3	B	1	ICPST	7/19/00	15:59
Beryllium	313.04	0.022	0.56	0.040	B	1	ICPST	7/19/00	15:59
Cadmium	226.50	0.034	0.22	0.051	B	1	ICPST	7/19/00	15:59
Calcium	317.93	2.5	561	29200		1	ICPST	7/19/00	15:59
Chromium	267.72	0.090	0.56	3.2		1	ICPST	7/19/00	15:59
Cobalt	228.62	0.079	5.6	0.33	B	1	ICPST	7/19/00	15:59
Copper	324.75	0.15	2.8	1.2	B	1	ICPST	7/19/00	15:59
Iron	271.44	1.7	11.2	1130		1	ICPST	7/19/00	15:59
Lead	220.35	0.15	0.34	2.8		1	ICPST	7/19/00	15:59
Magnesium	279.08	1.1	561	327	B	1	ICPST	7/19/00	15:59
Manganese	257.61	0.022	1.7	13.1	N	1	ICPST	7/19/00	15:59
Mercury	253.7	18.7	112	18.7	U	1	CVAA	7/17/00	11:34
Nickel	231.60	0.15	4.5	0.70	B	1	ICPST	7/19/00	15:59
Potassium	766.49	2.2	561	86.5	B	1	ICPST	7/19/00	15:59
Selenium	196.03	0.55	0.56	0.55	U	1	ICPST	7/19/00	15:59
Silver	328.07	0.11	0.56	0.11	U	1	ICPST	7/19/00	15:59
Sodium	330.23	17.4	561	298	B	1	ICPST	7/19/00	15:59
Thallium	190.86	0.71	1.1	0.71	U	1	ICPST	7/19/00	15:59
Tin	189.99	0.31	11.2	1.2	B	1	ICPST	7/19/00	15:59
Vanadium	292.40	0.090	5.6	3.4	B	1	ICPST	7/19/00	15:59

Comments: Lot #: A0G080137 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWAK Client ID: MPT-G4-SU-35-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 10.8

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.2	5.9		1	ICPST	7/21/00	21:15

Comments: Lot #: A0G080137 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWAL Client ID: MPT-G4-SU-37-05
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 14.59

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	23.4	271	N*	1	ICPST	7/19/00	16:04
Antimony	206.84	0.36	1.2	0.36	U	1	ICPST	7/19/00	16:04
Arsenic	189.04	0.34	1.2	0.80	B	1	ICPST	7/19/00	16:04
Barium	493.41	0.035	23.4	3.6	B	1	ICPST	7/19/00	16:04
Beryllium	313.04	0.023	0.59	0.023	U	1	ICPST	7/19/00	16:04
Cadmium	226.50	0.035	0.23	0.037	B	1	ICPST	7/19/00	16:04
Calcium	317.93	2.6	585	2810		1	ICPST	7/19/00	16:04
Chromium	267.72	0.094	0.59	2.8		1	ICPST	7/19/00	16:04
Cobalt	228.62	0.082	5.9	0.23	B	1	ICPST	7/19/00	16:04
Copper	324.75	0.15	2.9	0.77	B	1	ICPST	7/19/00	16:04
Iron	271.44	1.7	11.7	380		1	ICPST	7/19/00	16:04
Lead	220.35	0.15	0.35	2.3		1	ICPST	7/19/00	16:04
Magnesium	279.08	1.2	585	54.8	B	1	ICPST	7/19/00	16:04
Manganese	257.61	0.023	1.8	6.9	N	1	ICPST	7/19/00	16:04
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	12:00
Nickel	231.60	0.15	4.7	0.30	B	1	ICPST	7/19/00	16:04
Potassium	766.49	2.3	585	20.0	B	1	ICPST	7/19/00	16:04
Selenium	196.03	0.57	0.59	0.57	U	1	ICPST	7/19/00	16:04
Silver	328.07	0.12	0.59	0.12	U	1	ICPST	7/19/00	16:04
Sodium	330.23	18.2	585	196	B	1	ICPST	7/19/00	16:04
Thallium	190.86	0.74	1.2	0.74	U	1	ICPST	7/19/00	16:04
Tin	189.99	0.33	11.7	1.5	B	1	ICPST	7/19/00	16:04
Vanadium	292.40	0.094	5.9	1.7	B	1	ICPST	7/19/00	16:04

Comments: Lot #: A0G080137 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWAL Client ID: MPT-G4-SU-37-05
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 14.59

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.15	2.3	3.6		1	ICPST	7/21/00	21:20

Comments: Lot #: A0G080137 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6E Client ID: MPT-G4-SU-DU02
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 16.82

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	1.2	24.0	671	N*	1	ICPST	7/19/00	15:45
Antimony	206.84	0.37	1.2	0.37	U	1	ICPST	7/19/00	15:45
Arsenic	189.04	0.35	1.2	0.54	B	1	ICPST	7/19/00	15:45
Barium	493.41	0.036	24.0	6.8	B	1	ICPST	7/19/00	15:45
Beryllium	313.04	0.024	0.60	0.033	B	1	ICPST	7/19/00	15:45
Cadmium	226.50	0.036	0.24	0.063	B	1	ICPST	7/19/00	15:45
Calcium	317.93	13.5	3010	83300		5	ICPST	7/21/00	22:09
Chromium	267.72	0.096	0.60	2.6		1	ICPST	7/19/00	15:45
Cobalt	228.62	0.084	6.0	0.17	B	1	ICPST	7/19/00	15:45
Copper	324.75	0.16	3.0	1.3	B	1	ICPST	7/19/00	15:45
Iron	271.44	1.8	12.0	874		1	ICPST	7/19/00	15:45
Lead	220.35	0.16	0.36	1.8		1	ICPST	7/19/00	15:45
Magnesium	279.08	1.2	601	609		1	ICPST	7/19/00	15:45
Manganese	257.61	0.024	1.8	28.7	N	1	ICPST	7/19/00	15:45
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/17/00	11:51
Nickel	231.60	0.16	4.8	0.63	B	1	ICPST	7/19/00	15:45
Potassium	766.49	2.4	601	67.8	B	1	ICPST	7/19/00	15:45
Selenium	196.03	0.59	0.60	0.59	U	1	ICPST	7/19/00	15:45
Silver	328.07	0.12	0.60	0.12	U	1	ICPST	7/19/00	15:45
Sodium	330.23	18.6	601	831		1	ICPST	7/19/00	15:45
Thallium	190.86	0.76	1.2	0.76	U	1	ICPST	7/19/00	15:45
Tin	189.99	0.34	12.0	1.4	B	1	ICPST	7/19/00	15:45
Vanadium	292.40	0.096	6.0	2.6	B	1	ICPST	7/19/00	15:45

Comments: Lot #: A0G070231 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFV6E Client ID: MPT-G4-SU-DU02
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 16.82

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.86	0.16	2.4	8.3		1	ICPST	7/21/00	21:00

Comments: Lot #: A0G070231 Sample #: 6

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-18-08

General Chemistry

Lot-Sample #...: A0G020104-001 Work Order #...: DFN42 Matrix.....: SO
Date Sampled...: 06/30/00 07:51 Date Received...: 07/01/00
% Moisture.....: 22

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.64	mg/kg	SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	78.4	10.0	%	MCAWW 160.3 MOD	07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE (S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-19-10

General Chemistry

Lot-Sample #....: A0G020104-002 Work Order #....: DFN43 Matrix.....: SO
Date Sampled....: 06/30/00 09:15 Date Received...: 07/01/00
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	86.5	10.0	%	MCAWW 160.3 MOD	07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-20-10

General Chemistry

Lot-Sample #...: AOG020104-003 Work Order #...: DFN44 Matrix.....: SO
Date Sampled...: 06/30/00 10:45 Date Received...: 07/01/00
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	85.8	10.0	%	MCAWW 160.3 MOD	07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-21-07

General Chemistry

Lot-Sample #....: AOG020104-004 Work Order #....: DFN45 Matrix.....: SO
Date Sampled....: 06/30/00 12:55 Date Received...: 07/01/00
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	83.2	10.0	%	MCAWW 160.3 MOD	07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-22-08

General Chemistry

Lot-Sample #...: AOG020104-005 Work Order #...: DFN46 Matrix.....: SO
Date Sampled...: 06/30/00 13:30 Date Received...: 07/01/00
% Moisture.....: 10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.56	mg/kg	SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	90.0	10.0	%	MCAWW 160.3 MOD	07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-23-08

General Chemistry

Lot-Sample #....: AOG020104-006 Work Order #....: DFN47 Matrix.....: SO
Date Sampled....: 06/30/00 14:00 Date Received...: 07/01/00
% Moisture.....: 8.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.54	mg/kg	SW846 9012A	07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	92.0	10.0	%	MCAHW 160.3 MOD	07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-24-08

General Chemistry

Lot-Sample #....: A0G060209-001 Work Order #....: DFRAX Matrix.....: SO
Date Sampled....: 07/05/00 11:38 Date Received...: 07/06/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>FREP BATCH #</u>
Cyanide, Total	ND	0.61	mg/kg	SW846 9012A	07/17/00	0199462
		Dilution Factor: 1				
Percent Solids	81.8	10.0	%	MCAWW 160.3 MOD	07/13-07/14/00	0195378
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-25-05

General Chemistry

Lot-Sample #....: A0G060209-002 Work Order #....: DFRAW Matrix.....: SO
Date Sampled....: 07/05/00 13:05 Date Received...: 07/06/00
% Moisture.....: 8.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.55	mg/kg	SW846 9012A	07/17/00	0199462
		Dilution Factor: 1				
Percent Solids	91.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/00	0195378
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-26-05

General Chemistry

Lot-Sample #....: AOG060209-003 Work Order #....: DFRAX Matrix.....: SO
Date Sampled....: 07/05/00 14:20 Date Received...: 07/06/00
% Moisture.....: 8.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.54	mg/kg	SW846 9012A	07/17/00	0199466
		Dilution Factor: 1				
Percent Solids	91.9	10.0	%	MCAWW 160.3 MOD	07/13-07/14/00	0195378
		Dilution Factor: 1				

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-27-07

General Chemistry

Lot-Sample #....: AOG060209-004 Work Order #....: DFRC1 Matrix.....: SO
Date Sampled....: 07/05/00 15:50 Date Received...: 07/06/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.61	mg/kg	SW846 9012A	07/18/00	0200357
		Dilution Factor: 1				
Percent Solids	81.6	10.0	%	MCAWW 160.3 MOD	07/13-07/14/00	0195378
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-28-05

General Chemistry

Lot-Sample #...: A0G070231-001 Work Order #...: DFV5X Matrix.....: SO
Date Sampled...: 07/06/00 08:15 Date Received...: 07/07/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.61	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	82.2	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-29-05

General Chemistry

Lot-Sample #....: A0G070231-002 Work Order #....: DFV68 Matrix.....: SO
Date Sampled...: 07/06/00 09:28 Date Received...: 07/07/00
% Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	84.1	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-30-07

General Chemistry

Lot-Sample #...: A0G070231-003 Work Order #...: DFV69 Matrix.....: SO
 Date Sampled...: 07/06/00 11:00 Date Received...: 07/07/00
 % Moisture.....: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.62	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	80.4	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-31-08

General Chemistry

Lot-Sample #...: A0G070231-004 Work Order #...: DfV6A Matrix.....: SO
Date Sampled...: 07/06/00 13:30 Date Received...: 07/07/00
% Moisture.....: 13

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	86.6	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-32-07

General Chemistry

Lot-Sample #....: A0G070231-005 Work Order #....: DFV6D Matrix.....: SO
Date Sampled...: 07/06/00 14:50 Date Received...: 07/07/00
% Moisture.....: 15

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	85.1	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-33-05

General Chemistry

Lot-Sample #....: A0G070231-007 Work Order #....: DFV6L Matrix.....: SO
Date Sampled....: 07/06/00 15:40 Date Received...: 07/07/00
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.58	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	86.1	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-34-05

General Chemistry

Lot-Sample #....: AOG080137-001 Work Order #....: DFWAG Matrix.....: SO
Date Sampled....: 07/07/00 07:50 Date Received...: 07/08/00
% Moisture.....: 13

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.57	mg/kg	SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	87.2	10.0	%	MCAWW 160.3 MOD	07/18-07/19/00	0200133
		Dilution Factor: 1				

NOTE (S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-35-05

General Chemistry

Lot-Sample #....: A0G080137-002 Work Order #....: DFWAK Matrix.....: SO
Date Sampled....: 07/07/00 09:10 Date Received...: 07/08/00
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.56	mg/kg	SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	89.2	10.0	%	MCAW 160.3 MOD	07/18-07/19/00	0200133
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-37-05

General Chemistry

Lot-Sample #...: AOG080137-003 Work Order #...: DFWAL Matrix.....: SO
Date Sampled...: 07/07/00 11:10 Date Received...: 07/08/00
% Moisture.....: 15

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.59	mg/kg	SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	85.4	10.0	%	MCAWW 160.3 MOD	07/18-07/19/00	0200133
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-DU02

General Chemistry

Lot-Sample #....: AOG070231-006
Date Sampled....: 07/06/00
% Moisture.....: 17

Work Order #....: DFV6E
Date Received...: 07/07/00

Matrix.....: SO

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	83.2	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

APPENDIX C
Support Documentation



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson				ADDRESS						
		CARRIER/WAYBILL NUMBER 7923 4956 6382				CITY, STATE						
		Fed Ex 7923 4956 6393 (11)										
STANDARD TAT <input type="checkbox"/>		CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED						
RUSH TAT <input type="checkbox"/>												
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						HCl						
						HNO3						
						NaOH						
						Cyanide						
						TAL Metals+Tin						
						TCL SVOC						
						TCL VOC						
						TYPE OF ANALYSIS						
DATE YEAR	TIME	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	TCL SVOC	TAL Metals+Tin	Cyanide	HNO3	NaOH	COMMENTS	
6/30	1530	MPT-G4-GW-23-08	GW G	7	X	X	X	X			Cool to 4°C	

1. RELINQUISHED BY 		DATE 6.30.00	TIME 1800	1. RECEIVED BY 				DATE 7/1/00	TIME 10/30			
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY				DATE	TIME			
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME			
COMMENTS												

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3/99

FORM NO. TINUS-001



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) <i>[Signature]</i>				FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW			
SAMPLERS (SIGNATURE) <i>Chad Welch</i>				CARRIER/WAYBILL NUMBER 7911 0738 9714 FedEx: 07911 0738 9600				CITY, STATE N. Canton, OH			
STANDARD TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)							
RUSH TAT <input type="checkbox"/>				PRESERVATIVE USED							
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				TICL VOC				HCl			
				TICL SVOC				HNO3			
				TAL Metals + Tin				NaOH			
				Cyanide							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. of CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
7-7	0750	MPT-G4-SU-34-05	S	G	5	X	X	X	X		
	0815	MPT-G4-GW-34-05	GW		7	X	X	X	X		Cool to 4°C
	0910	MPT-G4-SU-35-05	S		5	X	X	X	X		
	0940	MPT-G4-GW-35-05	GW		7	X	X	X	X		
	1110	MPT-G4-SU-36-37-05	S		5	X	X	X	X		
	1135	MPT-G4-GW-37-05	GW		7	X	X	X	X		
	1250	MPT-G4-SU-38-05	S		5	X	X	X	X		
	-	TB070700-	W		2	X			X		
	1325	MPT-G4-GW-38-04	GW		7	X	X	X	X		
	1330	MPT-G4-SU-39-05	S		5	X	X	X	X		
	1425	MPT-G4-GW-39-04	GW		7	X	X	X	X		
	1446	MPT-G4-SU-40-05	S		5	X	X	X	X		
	1525	MPT-G4-GW-40-04	GW		7	X	X	X	X		
1. RELINQUISHED BY <i>[Signature]</i>		DATE	TIME	1. RECEIVED BY		DATE	TIME				
2. RELINQUISHED BY <i>[Signature]</i>		DATE	TIME	2. RECEIVED BY <i>[Signature]</i>		DATE	TIME				
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY <i>[Signature]</i>		DATE	TIME				
COMMENTS 2 Coolers - ID#5: 0000 070700-1 & 070700-2											

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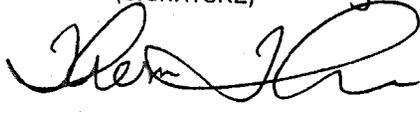
PINK (FILE COPY)



PROJECT NO: N0123		SITE NAME: Mayport Exp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER 7911 0738 9714				CITY, STATE N. Canton, OH					
		Fed Ex: 7911 0738 9600									
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED					
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						HCl - HNO3 NaOH					
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS	
7-7	1015	MPT-G4-SU-36-	S	G	5	TCL VOC	TCL SVOC	TAL Metals + Tin	Cyanide		Cool to 4°C
7-7	1035	MPT-G4-GW-30-	GW	G	7	X	X	X	X		
Empty rows											
1. RELINQUISHED BY			DATE	TIME	1. RECEIVED BY			DATE	TIME		
2. RELINQUISHED BY			DATE	TIME	2. RECEIVED BY			DATE 7/8/00	TIME 1015		
3. RELINQUISHED BY			DATE	TIME	3. RECEIVED BY			DATE	TIME		

COMMENTS 2 Coolers ID#s 070700-1 & 070700-2

PROJECT NO: **N0123** SITE NAME: **Maryport Grp IV**

SAMPLERS (SIGNATURE): 

PROJECT MANAGER AND PHONE NUMBER: **Terry Hansen**

FIELD OPERATIONS LEADER AND PHONE NUMBER: **Tom Thompson (904) 281-0400**

CARRIER/WAYBILL NUMBER: **7908 5834 7777**

FedEx **7923 5025 5016**

LABORATORY NAME AND CONTACT: **Quanterra**

ADDRESS: **4101 Shuffel Dr NW**

CITY, STATE: **N. Canton, OH**

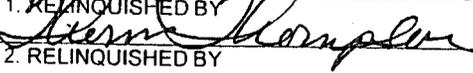
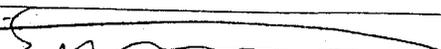
STANDARD TAT RUSH TAT

24 hr. 48 hr. 72 hr. 7 day 14 day

CONTAINER TYPE: **PLASTIC (P) or GLASS (G)**

PRESERVATIVE USED: **HCl - HNO3 NaOH**

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS
						TEL VOC	TEL SVOC	TAL Metals + Ti	Cyanide	
7-6		MPT-G4-SU-27	S	G	5	X	X	X	X	
		MPT-G4-GW-27	GW		7	X	X	X	X	Cool to 4°C
7-6	0815	MPT-G4-SU-28-05	S		5	X	X	X	X	
	0845	MPT-G4-GW-28-05	GW	↓	7	X	X	X	X	
	0928	MPT-G4-SU-29-05	S		5	X	X	X	X	
	1000	MPT-G4-GW-29-05	GW		7	X	X	X	X	
	1100	MPT-G4-SU-30-07	S		5	X	X	X	X	
	1125	MPT-G4-GW-30-07	GW		7	X	X	X	X	
	1330	MPT-G4-SU-31-08	S		5	X	X	X	X	
	1420	MPT-G4-GW-31-09	GW		7	X	X	X	X	
	1450	MPT-G4-SU-32-07	S		5	X	X	X	X	
	1510	MPT-G4-GW-32-07	GW	↓	7	X	X	X	X	
	0800	MPT-G4-SU-DU02	S	↓	5	X	X	X	X	

1. RELINQUISHED BY: 	DATE: 7-6-00	TIME: 1900	1. RECEIVED BY: 	DATE: 7/7/00	TIME: 915
2. RELINQUISHED BY:	DATE:	TIME:	2. RECEIVED BY:	DATE:	TIME:
3. RELINQUISHED BY:	DATE:	TIME:	3. RECEIVED BY:	DATE:	TIME:

COMMENTS: **2 Coolers ID#s 070609-1 & 070609-2. See FedEx Tracking #s above also.**

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

PROJECT NO: N0123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER Terry Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex	CITY, STATE N Canton OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

CONTAINER TYPE
PLASTIC (P) or GLASS (G)
PRESERVATIVE USED

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS
						TCL VOC	TCL SWOC	TAL Metals + Tin	Cyanide	
7-6	0000	MPT-G4-GW-DU02	GW		7	X	X	X	X	Cool to 4°C ↓
	1540	MPT-G4-SU-33-05	S		5	X	X	X	X	
	1610	MPT-G4-GW-33- TB070600	GW W		7	X	X	X	X	

1. RELINQUISHED BY 	DATE 7-6-00	TIME 1700	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY 	DATE 7/7/00	TIME 915
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS



PROJECT NO: NO123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) <i>Steve Thompson</i> <i>Charles Wall</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson				ADDRESS 4101 Shuffel Dr NW							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER Fed Ex 7923 5025 4970				CITY, STATE N. Canton, OH							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)				COMMENTS			
						PRESERVATIVE USED							
						TYPE OF ANALYSIS							
						VOC	SVOC	TAL Metals + Tin	Cyanide	HCl	HNO3	NaOH	
7-5	1138	MPT-G4-SU-24-08	S	G	5	X	X	X	X				Cool to 4°C
7-5	1217	MPT-G4-GW-24-08	GW		7	X	X	X	X				
7-5	1305	MPT-G4-SU-25-05	S		5	X	X	X	X				
7-5	1335	MPT-G4-GW-25-07	GW		7	X	X	X	X				
7-5	1420	MPT-G4-SU-26-05	S		5	X	X	X	X				
7-5	1455	MPT-G4-GW-26-05	GW		7	X	X	X	X				
7-5	1550	MPT-G4-SU-27-07	S		5	X	X	X	X				
7-5	1620	MPT-G4-GW-27-08	GW		7	X	X	X	X				

1. RELINQUISHED BY <i>Charles Wall</i>	DATE 7/5/00	TIME 7:00	1. RECEIVED BY <i>[Signature]</i>	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY <i>[Signature]</i>	DATE 7/6/00	TIME 9:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

MP015

HOLDING TIME
08/09/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	CN	06/30/00	07/13/00	07/13/00	13	0	13
MG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	CN	06/30/00	07/13/00	07/13/00	13	0	13
MG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	CN	06/30/00	07/13/00	07/13/00	13	0	13
MG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	CN	06/30/00	07/13/00	07/13/00	13	0	13
MG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	CN	06/30/00	07/13/00	07/13/00	13	0	13
MG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	CN	06/30/00	07/13/00	07/13/00	13	0	13
MG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	CN	07/05/00	07/17/00	07/17/00	12	0	12
MG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	CN	07/05/00	07/17/00	07/17/00	12	0	12
MG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	CN	07/05/00	07/17/00	07/17/00	12	0	12
MG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	CN	07/05/00	07/18/00	07/18/00	13	0	13
MG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	CN	07/06/00	07/19/00	07/20/00	13	1	14
MG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	HG	06/30/00	07/14/00	07/17/00	14	3	17
MG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	HG	06/30/00	07/14/00	07/17/00	14	3	17
MG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	HG	06/30/00	07/14/00	07/17/00	14	3	17
MG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	HG	06/30/00	07/14/00	07/17/00	14	3	17
MG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	HG	06/30/00	07/14/00	07/17/00	14	3	17

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	HG	06/30/00	07/14/00	07/17/00	14	3	17
MG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	HG	07/05/00	07/14/00	07/17/00	9	3	12
MG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	HG	07/05/00	07/14/00	07/17/00	9	3	12
MG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	HG	07/05/00	07/14/00	07/17/00	9	3	12
MG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	HG	07/05/00	07/14/00	07/17/00	9	3	12
MG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	HG	07/07/00	07/14/00	07/17/00	7	3	10
MG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	HG	07/07/00	07/14/00	07/17/00	7	3	10
MG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	HG	07/07/00	07/14/00	07/17/00	7	3	10
MG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	HG	07/06/00	07/14/00	07/17/00	8	3	11
MG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	M	06/30/00	07/14/00	07/19/00	14	5	19
MG/KG	MPT-G4-SU-18-08RE	A0G020104001	NORMAL	MP015	M	06/30/00	07/21/00	07/21/00	21	0	21
MG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	M	06/30/00	07/14/00	07/19/00	14	5	19
MG/KG	MPT-G4-SU-19-10RE	A0G020104002	NORMAL	MP015	M	06/30/00	07/21/00	07/21/00	21	0	21
MG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	M	06/30/00	07/14/00	07/19/00	14	5	19
MG/KG	MPT-G4-SU-20-10RE	A0G020104003	NORMAL	MP015	M	06/30/00	07/21/00	07/21/00	21	0	21
MG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	M	06/30/00	07/14/00	07/19/00	14	5	19
MG/KG	MPT-G4-SU-21-07RE	A0G020104004	NORMAL	MP015	M	06/30/00	07/21/00	07/21/00	21	0	21
MG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	M	06/30/00	07/14/00	07/19/00	14	5	19
MG/KG	MPT-G4-SU-22-08RE	A0G020104005	NORMAL	MP015	M	06/30/00	07/21/00	07/21/00	21	0	21
MG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	M	06/30/00	07/14/00	07/19/00	14	5	19
MG/KG	MPT-G4-SU-23-08RE	A0G020104006	NORMAL	MP015	M	06/30/00	07/21/00	07/21/00	21	0	21

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	M	07/05/00	07/14/00	07/19/00	9	5	14
MG/KG	MPT-G4-SU-24-08RE	A0G060209001	NORMAL	MP015	M	07/05/00	07/21/00	07/21/00	16	0	16
MG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	M	07/05/00	07/14/00	07/19/00	9	5	14
MG/KG	MPT-G4-SU-25-05RE	A0G060209002	NORMAL	MP015	M	07/05/00	07/21/00	07/21/00	16	0	16
MG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	M	07/05/00	07/14/00	07/19/00	9	5	14
MG/KG	MPT-G4-SU-26-05RE	A0G060209003	NORMAL	MP015	M	07/05/00	07/21/00	07/21/00	16	0	16
MG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	M	07/05/00	07/14/00	07/19/00	9	5	14
MG/KG	MPT-G4-SU-27-07RE	A0G060209004	NORMAL	MP015	M	07/05/00	07/21/00	07/21/00	16	0	16
MG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13
MG/KG	MPT-G4-SU-28-05RE	A0G070231001	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
MG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13
MG/KG	MPT-G4-SU-29-05RE	A0G070231002	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
MG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13
MG/KG	MPT-G4-SU-30-07RE	A0G070231003	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
MG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13
MG/KG	MPT-G4-SU-31-08RE	A0G070231004	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
MG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13
MG/KG	MPT-G4-SU-32-07RE	A0G070231005	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
MG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13
MG/KG	MPT-G4-SU-33-05RE	A0G070231007	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
MG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	M	07/07/00	07/14/00	07/19/00	7	5	12
MG/KG	MPT-G4-SU-34-05RE	A0G080137001	NORMAL	MP015	M	07/07/00	07/21/00	07/21/00	14	0	14
MG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	M	07/07/00	07/14/00	07/19/00	7	5	12
MG/KG	MPT-G4-SU-35-05RE	A0G080137002	NORMAL	MP015	M	07/07/00	07/21/00	07/21/00	14	0	14
MG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	M	07/07/00	07/14/00	07/19/00	7	5	12
MG/KG	MPT-G4-SU-37-05RE	A0G080137003	NORMAL	MP015	M	07/07/00	07/21/00	07/21/00	14	0	14
MG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	M	07/06/00	07/14/00	07/19/00	8	5	13

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-DU02RE	A0G070231006	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
UG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-18-08RE	A0G020104001	NORMAL	MP015	OS	06/30/00	07/17/00	07/19/00	17	2	19
UG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-21-07RE	A0G020104004	NORMAL	MP015	OS	06/30/00	07/17/00	07/19/00	17	2	19
UG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	OS	07/05/00	07/11/00	07/21/00	6	10	16
UG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	OS	07/05/00	07/11/00	07/21/00	6	10	16
UG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	OS	07/05/00	07/11/00	07/21/00	6	10	16
UG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	OS	07/05/00	07/11/00	07/25/00	6	14	20
UG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	OS	07/06/00	07/11/00	07/21/00	5	10	15
UG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	OS	07/06/00	07/11/00	07/21/00	5	10	15
UG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	OS	07/06/00	07/11/00	07/21/00	5	10	15
UG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	OS	07/07/00	07/11/00	07/25/00	4	14	18
UG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	OS	07/07/00	07/11/00	07/25/00	4	14	18
UG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	OS	07/07/00	07/11/00	07/25/00	4	14	18
UG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	OV	07/05/00	07/11/00	07/11/00	6	0	6
UG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	OV	07/05/00	07/11/00	07/11/00	6	0	6
UG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	OV	07/05/00	07/07/00	07/13/00	2	6	8
UG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	OV	07/05/00	07/11/00	07/11/00	6	0	6
UG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	OV	07/06/00	07/07/00	07/14/00	1	7	8
UG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	OV	07/06/00	07/07/00	07/13/00	1	6	7
UG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	OV	07/07/00	07/08/00	07/13/00	1	5	6
UG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	OV	07/07/00	07/14/00	07/14/00	7	0	7
UG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	OV	07/07/00	07/15/00	07/15/00	8	0	8
UG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	OV	07/06/00	07/07/00	07/13/00	1	6	7

SDG NARRATIVE
MP015

The following report contains the analytical results for twenty solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received July 1, 6, 7 and 8, 2000, according to documented sample acceptance procedures.

This SDG consists of four (4) laboratory ID's: A0G020104, A0G060209, A0G070231 and A0G080137.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 0.9, 0.9, 1.0, 1.3, 2.2, 3.4, 2.1 and 2.4° C.

(See STL's Cooler Receipt Form for additional information.)

ANALYTICAL METHODS SUMMARY

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

FIELD DUPLICATE PRECISION

COMPOUND	MPT-G4-SU-28-05	MPT-G4-SU-DU02	RPD
	ug/L	ug/L	%
Aluminum	340	671	65.48
Antimony	0.38	0.37	2.67 ✓
Arsenic	0.53	0.54	1.87 ✓
Barium	5	6.8	30.51 ✓
Beryllium	0.038	0.033	14.08 ✓
Cadmium	0.037	0.063	52.00 ✓
Calcium	164000	83300	65.26 ✓
Chromium	1.8	2.6	36.36 ✓
Cobalt	0.096	0.17	55.64 ✓
Copper	0.83	1.3	44.13 ✓
Iron	658	874	28.20 ✓
Lead	2.3	1.8	24.39 ✓
Magnesium	1140	609	60.72 ✓
Manganese	33.2	28.7	14.54 ✓
Mercury	0.02	0.02	0.00 ✓
Nickel	0.45	0.63	33.33 ✓
Potassium	60.9	67.8	10.72 ✓
Selenium	0.6	0.59	1.68 ✓
Silver	0.12	0.12	0.00 ✓
Sodium	1710	881	63.99 ✓
Thallium	0.77	0.76	1.31 ✓
Tin	1.5	1.4	6.90 ✓
Vanadium	1.6	2.6	47.62 ✓
Zinc	7.6	8.3	8.81 ✓

**SDG NARRATIVE
MP015**

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples MPT-G4-SU-18-08, MPT-G4-SU-19-10, MPT-G4-SU-20-10, MPT-G4-SU-21-07, MPT-G4-SU-22-08 and MPT-G4-SU-23-08 for batch 0195327 were not prepped with the Magnesium Chloride reagent as stated in the SOP.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The Initial Calibration Blank (ICB) for the Total Cyanide analysis associated with batch 0199466 was over the reporting limit for sample MPT-G4-SU-26-05. The prep blank was analyzed immediately afterward as ND. The prep blank showed system cleanliness, so the ICB and prep blank are reported as the same sample. All following Continuing Calibration Blank's were ND. All data is accepted.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G020104

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DG599101 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	A0G130000-327 07/13/00	0195327
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DG3G3101 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A0G120000-344 07/12-07/13/00	0194344
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOG060209

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DGCDR101 0.50	mg/kg	MB Lot-Sample #: AOG170000-462 SW846 9012A	07/17/00	0199462
		Dilution Factor: 1				
Cyanide, Total	ND	Work Order #: DGCE4101 0.50	mg/kg	MB Lot-Sample #: AOG170000-466 SW846 9012A	07/17/00	0199466
		Dilution Factor: 1				
Cyanide, Total	ND	Work Order #: DGE2A101 0.50	mg/kg	MB Lot-Sample #: AOG180000-357 SW846 9012A	07/18/00	0200357
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DG5QG101 10.0	%	MB Lot-Sample #: AOG130000-378 MCAWW 160.3 MOD	07/13-07/14/00	0195378
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0G070231

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DGG43101 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	A0G190000-331 07/19-07/20/00	0201331
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGP99101 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A0G240000-405 07/24-07/25/00	0206405
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G080137

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DGGQQ101 0.50	mg/kg	MB Lot-Sample #: A0G190000-487 SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGD15101 10.0	%	MB Lot-Sample #: A0G180000-133 MCAWW 160.3 MOD	07/18-07/19/00	0200133
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A0G020104

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	108	Work Order #: DG599102 (60 - 113)	LCS Lot-Sample#: A0G130000-327 SW846 9012A	07/13/00	0195327
		Dilution Factor: 1			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: AOG060209

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	92	Work Order #: DGCDR102 (60 - 113)	LCS Lot-Sample#: AOG170000-462 SW846 9012A	07/17/00	0199462
		Dilution Factor: 1			
Cyanide, Total	98	Work Order #: DGCE4102 (60 - 113)	LCS Lot-Sample#: AOG170000-466 SW846 9012A	07/17/00	0199466
		Dilution Factor: 1			
Cyanide, Total	89	Work Order #: DGE2A102 (60 - 113)	LCS Lot-Sample#: AOG180000-357 SW846 9012A	07/18/00	0200357
		Dilution Factor: 1			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A0G070231

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	100	Work Order #: DGG43102 (60 - 113)	LCS Lot-Sample#: A0G190000-331 SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A0G080137

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	98	(60 - 113)	SW846 9012A	07/19-07/21/00	0201487

Work Order #: DGGQQ102 LCS Lot-Sample#: A0G190000-487
Dilution Factor: 1

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A0G020104

Matrix.....: SOLID

Date Sampled....: 07/06/00 10:20 Date Received...: 07/07/00

PARAMETER	PERCENT RECOVERY		RPD		METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	BATCH #
Cyanide, Total			WO#: DFT2T12L-MS/DFT2T12M-MSD		MS Lot-Sample #: A0G070122-001		
	76	(12 - 147)			SW846 9012A	07/13/00	0195327
	100	(12 - 147)	27	(0-99)	SW846 9012A	07/13/00	0195327

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G060209

Matrix.....: SOLID

Date Sampled...: 07/06/00 08:30 Date Received...: 07/07/00

PARAMETER	PERCENT RECOVERY		RPD		METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD	LIMITS		ANALYSIS DATE	BATCH #
Cyanide, Total			WO#: DFR0R121-MS/DFR0R122-MSD			MS Lot-Sample #:	A0G060190-001
	84	(12 - 147)			SW846 9012A	07/17/00	0199462
	87	(12 - 147)	2.7	(0-99)	SW846 9012A	07/17/00	0199462
			Dilution Factor: 1				
Cyanide, Total			WO#: DFTV5126-MS/DFTV5127-MSD			MS Lot-Sample #:	A0G070185-004
	95	(12 - 147)			SW846 9012A	07/18/00	0200357
	86	(12 - 147)	8.9	(0-99)	SW846 9012A	07/18/00	0200357
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G060209

Matrix.....: SO

Date Sampled...: 07/05/00 14:20 Date Received...: 07/06/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#:	DFRAX10X-MS/DFRAX110-MSD	MS Lot-Sample #:	A0G060209-003	
	88	(12 - 147)			SW846 9012A	07/17/00	0199466
	92	(12 - 147)	4.8	(0-99)	SW846 9012A	07/17/00	0199466
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: AOG070231
Date Sampled...: 07/06/00 10:30 Date Received...: 07/07/00

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total		WO#:	DFTXG126-MS/DFTXG127-MSD	MS Lot-Sample #:	AOG070199-004	
	84	(12 - 147)		SW846 9012A	07/19-07/20/00	0201331
	84	(12 - 147)	0.54 (0-99)	SW846 9012A	07/19-07/20/00	0201331
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

SDG NARRATIVE
MP015

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the IDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

For Navy projects, the method blank is to be analyzed whenever associated sample are reanalyzed. For these samples for batch 0196101 which were diluted for Calcium analysis, the blank was not reanalyzed. The blank was placed on an auto sampler and run with the samples, but due to instrument failure (the argon supply ran out), the blank was not analyzed. The Calcium results, which were all dilutions due to over range original results, were consistent with the original analyses. The results are reported.

The solid LCS associated with batch 0196101 was prepared using a routine LCS (approximately 1ml of DI water, spiked, and taken through the solid preparation procedure) rather than the solid LCS material specified in the Navy specific SOP. The LCS passed criteria and the results were not affected. The original data is reported.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 7/19/00 10:20 AM		CCV 7/19/00 11:47 AM		CCV 7/19/00 12:53 PM		CCV 7/19/00 1:58 PM		CCV 7/19/00 2:23 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25349.89	101.4	25238.05	101.0	25000.44	100.0	25030.53	100.1	25248.23	101.0
Antimony	206.838	500.0	513.94	102.8	509.01	101.8	499.89	100.0	477.49	95.5	516.80	103.4
Arsenic	189.042	500.0	509.92	102.0	508.27	101.7	502.19	100.4	485.52	97.1	507.69	101.5
Barium	493.409	2000.0	2073.82	103.7	2060.61	103.0	2031.92	101.6	2003.72	100.2	2045.55	102.3
Beryllium	313.042	2000.0	2102.55	105.1	2105.54	105.3	2078.81	103.9	2116.06	105.8	2108.07	105.4
Cadmium	226.502	500.0	516.41	103.3	509.76	102.0	499.65	99.9	470.28	94.1	523.00	104.6
Calcium	317.933	50000.0	50593.24	101.2	50646.81	101.3	50191.85	100.4	51958.80	103.9	50755.43	101.5
Chromium	267.716	2000.0	2078.25	103.9	2073.15	103.7	2041.97	102.1	2066.48	103.3	2090.92	104.5
Cobalt	228.616	2000.0	2092.76	104.6	2066.05	103.3	2029.63	101.5	1975.63	98.8	2108.67	105.4
Copper	324.753	2000.0	2047.20	102.4	2026.35	101.3	1991.40	99.6	1914.06	95.7	2050.01	102.5
Iron	271.441	25000.0	26010.26	104.0	25851.65	103.4	25465.04	101.9	25031.89	100.1	26259.65	105.0
Lead	220.353	500.0	525.94	105.2	527.37	105.5	519.99	104.0	524.78	105.0	517.10	103.4
Magnesium	279.078	50000.0	51811.52	103.6	51991.61	104.0	51656.94	103.3	53754.21	107.5	51912.19	103.8
Manganese	257.61	2000.0	2087.57	104.4	2074.56	103.7	2039.53	102.0	2024.13	101.2	2097.44	104.9
Nickel	231.604	2000.0	2124.34	106.2	2126.02	106.3	2101.21	105.1	2124.18	106.2	2064.45	103.2
Potassium	766.491	50000.0	51685.60	103.4	52187.48	104.4	51939.43	103.9	55512.99	111.0	50467.17	100.9
Selenium	196.026	500.0	504.48	100.9	492.70	98.5	478.80	95.8	433.59	86.7	515.20	103.0
Silver	328.068	1000.0	1018.48	101.8	1018.81	101.9	1006.04	100.6	1041.77	104.2	1014.57	101.5
Sodium	330.232	50000.0	50257.95	100.5	50624.41	101.2	49896.12	99.8	49863.13	99.7	50089.17	100.2
Thallium	190.864	1000.0	1019.18	101.9	990.10	99.0	958.93	95.9	877.70	87.8	1050.30	105.0
Tin	189.989	5000.0	5063.19	101.3	4910.58	98.2	4785.23	95.7	4280.06	85.6	5188.16	103.8
Vanadium	292.402	2000.0	2048.54	102.4	2027.61	101.4	1989.31	99.5	1888.43	94.4	2060.10	103.0

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10717a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 7/17/00 11:19 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.6	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10718b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 7/18/00 9:21 AM								
			Found	O	Found	O	Found	O	Found	O	
Mercury	253.7	0.6	0.1	U							

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/21/00 3:20 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Calcium	317.933	5000	22.4	U								
Zinc	213.856	20	1.3	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/19/00 9:41 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.3	U								
Antimony	206.838	10	3.1	U								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.3	U								
Beryllium	313.042	5	0.2	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	94.9	B								
Chromium	267.716	5	0.8	U								
Cobalt	228.616	50	-1.3	B								
Copper	324.753	25	1.3	U								
Iron	271.441	100	14.9	U								
Lead	220.353	3	1.6	B								
Magnesium	279.078	5000	10.2	U								
Manganese	257.61	15	0.2	U								
Nickel	231.604	40	-1.4	B								
Potassium	766.491	5000	19.8	U								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	-3.0	B								
Sodium	330.232	5000	-180.0	B								
Thallium	190.864	10	6.3	U								
Tin	189.989	100	2.8	U								
Vanadium	292.402	50	0.8	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10717a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/17/00 11:23 AM	Ck1CCB 7/17/00 11:38 AM	Ck1CCB 7/17/00 11:55 AM	Ck1CCB 7/17/00 12:11 PM				
			Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.6	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10718b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/18/00 9:25 AM		Ck1CCB 7/18/00 9:40 AM		Ck1CCB 7/18/00 9:55 AM		Ck1CCB 7/18/00 10:08 AM		Ck1CCB 7/18/00 10:34 AM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.6	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10718b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/18/00 10:40 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.6	0.1	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/21/00 4:15 PM		CCB 7/21/00 5:24 PM		CCB 7/21/00 6:28 PM		CCB 7/21/00 7:35 PM		CCB 7/21/00 8:39 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Calcium	317.933	5000	43.9	B	51.0	B	36.1	B	23.7	B	42.8	B
Zinc	213.856	20	3.0	B	2.2	B	2.1	B	1.3	U	1.3	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/21/00 9:43 PM		CCB 7/21/00 10:47 PM					
			Found	O	Found	O	Found	O	Found	O
Calcium	317.933	5000	22.4	U	22.4	U				
Zinc	213.856	20	1.3	U	2.0	B				

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/19/00 10:27 AM		CCB 7/19/00 11:54 AM		CCB 7/19/00 1:00 PM		CCB 7/19/00 2:04 PM		CCB 7/19/00 2:29 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	22.1	B	10.3	U	10.3	U	-94.0	B	-17.0	B
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Barium	493.409	200	0.4	B	0.3	B	0.4	B	0.3	U	0.4	B
Beryllium	313.042	5	0.5	B	0.5	B	0.7	B	1.3	B	0.4	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	24.8	B	22.4	U	22.4	U	44.5	B	47.4	B
Chromium	267.716	5	1.0	B	0.8	U	0.8	U	0.8	U	0.8	U
Cobalt	228.616	50	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Copper	324.753	25	-1.3	B	-1.9	B	-2.9	B	-5.4	B	1.3	U
Iron	271.441	100	14.9	U	14.9	U	14.9	U	14.9	U	14.9	U
Lead	220.353	3	1.3	U	2.6	B	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	28.0	B	10.2	B	12.7	B	10.2	U	10.6	B
Manganese	257.61	15	0.4	B	0.4	B	0.6	B	0.4	B	0.5	B
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Potassium	766.491	5000	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U
Silver	328.068	5	1.0	U	1.0	U	-1.3	B	-1.1	B	1.0	U
Sodium	330.232	5000	155.0	U	155.0	U	155.0	U	155.0	U	155.0	U
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
Tin	189.989	100	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
Vanadium	292.402	50	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/19/00 3:30 PM		CCB 7/19/00 4:33 PM		CCB 7/19/00 5:33 PM		CCB 7/19/00 6:36 PM		CCB 7/19/00 7:41 PM	
			Found	O								
Aluminum	308.215	200	-24.0	B	-61.0	B	10.3	U	10.3	U	10.3	U
Antimony	206.838	10	3.1	U								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.5	B	0.5	B	0.5	B	0.6	B	0.6	B
Beryllium	313.042	5	0.6	B	1.1	B	0.5	B	0.5	B	0.5	B
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	83.5	B	85.5	B	29.6	B	25.3	B	24.5	B
Chromium	267.716	5	0.8	U	0.8	B	0.8	U	0.8	U	0.8	U
Cobalt	228.616	50	0.7	U								
Copper	324.753	25	2.3	B	4.6	B	1.3	U	1.3	U	1.3	U
Iron	271.441	100	14.9	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	12.4	B	14.9	B	19.4	B	21.6	B	16.1	B
Manganese	257.61	15	0.6	B	0.7	B	0.8	B	0.8	B	0.6	B
Nickel	231.604	40	1.3	U								
Potassium	766.491	5000	19.8	U								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.0	U								
Sodium	330.232	5000	155.0	U								
Thallium	190.864	10	6.3	U								
Tin	189.989	100	2.8	U								
Vanadium	292.402	50	0.8	U								

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/19/00 8:41 PM		CCB 7/19/00 9:07 PM		CCB 7/19/00 9:40 PM		CCB 7/19/00 10:45 PM			
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	10.3	U	10.3	U	-11.0	B	10.3	U		
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U		
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U		
Barium	493.409	200	0.4	B	0.4	B	0.3	U	0.4	B		
Beryllium	313.042	5	0.4	B	0.4	B	0.3	B	0.4	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U		
Calcium	317.933	5000	-28.0	B	-24.0	B	22.4	U	22.4	U		
Chromium	267.716	5	1.0	B	0.8	U	0.8	U	0.8	U		
Cobalt	228.616	50	0.7	U	0.7	U	-0.8	B	0.7	U		
Copper	324.753	25	1.3	U	1.3	U	1.3	U	1.3	U		
Iron	271.441	100	14.9	U	14.9	U	14.9	U	14.9	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	19.2	B	16.1	B	10.2	U	18.1	B		
Manganese	257.61	15	0.5	B	0.5	B	0.6	B	0.8	B		
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U		
Potassium	766.491	5000	23.5	B	19.8	U	19.8	U	19.8	U		
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U		
Silver	328.068	5	1.0	U	1.0	U	-1.9	B	1.0	U		
Sodium	330.232	5000	158.0	B	155.0	U	-160.0	B	155.0	U		
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U		
Tin	189.989	100	2.8	U	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	50	0.8	U	0.8	U	0.8	U	0.8	U		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DG6R8B

Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101

Weight: 1.0 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	1.0	20.0	1.0	U	1	ICPST	7/19/00	21:45
Antimony	206.838	0.31	1.0	0.31	U	1	ICPST	7/19/00	21:45
Arsenic	189.042	0.29	1.0	0.29	U	1	ICPST	7/19/00	21:45
Barium	493.409	0.030	20.0	0.082	B	1	ICPST	7/19/00	21:45
Beryllium	313.042	0.020	0.50	0.020	U	1	ICPST	7/19/00	21:45
Cadmium	226.502	0.030	0.20	0.030	U	1	ICPST	7/19/00	21:45
Calcium	317.933	2.2	500	46.3	B	1	ICPST	7/19/00	21:45
Chromium	267.716	0.080	0.50	0.12	B	1	ICPST	7/19/00	21:45
Cobalt	228.616	0.070	5.0	0.070	U	1	ICPST	7/19/00	21:45
Copper	324.753	0.13	2.5	0.18	B	1	ICPST	7/19/00	21:45
Iron	271.441	1.5	10.0	1.5	U	1	ICPST	7/19/00	21:45
Lead	220.353	0.13	0.30	0.22	B	1	ICPST	7/19/00	21:45
Magnesium	279.078	1.0	500	3.9	B	1	ICPST	7/19/00	21:45
Manganese	257.61	0.020	1.5	0.16	B	1	ICPST	7/19/00	21:45
Mercury	253.7	0.017	0.10	0.017	U	1	CVAA	7/17/00	11:24
Nickel	231.604	0.13	4.0	0.13	U	1	ICPST	7/19/00	21:45
Potassium	766.491	2.0	500	5.6	B	1	ICPST	7/19/00	21:45
Selenium	196.026	0.49	0.50	0.49	U	1	ICPST	7/19/00	21:45
Silver	328.068	0.10	0.50	0.10	U	1	ICPST	7/19/00	21:45
Sodium	330.232	15.5	500	230	B	1	ICPST	7/19/00	21:45
Thallium	190.864	0.63	1.0	0.63	U	1	ICPST	7/19/00	21:45
Tin	189.989	0.28	10.0	1.3	B	1	ICPST	7/19/00	21:45
Vanadium	292.402	0.080	5.0	0.080	U	1	ICPST	7/19/00	21:45

Comments: Lot #: A0G080137

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DGK9CB

Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112

Weight: 1.0 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Zinc	213.856	0.13	2.0	0.76	B	1	ICPST	7/21/00	18:50

Comments: Lot #: A0G080137

Comparison of ICP Interference Affects
 SDG MP015
 NS Mayport

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-19-10	3	Calcium	461400	1	57100	0.12	1595119951
Cadmium	MPT-G4-SU-19-10	0.035u	Calcium	461400	-2	57100	-0.25	
Chromium	MPT-G4-SU-19-10	2.2	Calcium	461400	-2	57100	-0.25	
Cobalt	MPT-G4-SU-19-10	0.16	Calcium	461400	2	57100	0.25	
Lead	MPT-G4-SU-19-10	0.93x	Calcium	461400	-5	57100	-0.62	
Manganese	MPT-G4-SU-19-10	16.5	Calcium	461400	8	57100	0.99	
Nickel	MPT-G4-SU-19-10	0.39	Calcium	461400	2	57100	0.25	
Selenium	MPT-G4-SU-19-10	0.57u	Calcium	461400	-8	57100	-0.99	
Vanadium	MPT-G4-SU-19-10	2.1	Calcium	461400	-2	57100	-0.25	
Zinc	MPT-G4-SU-19-10	2.3x	Calcium	461400	21	57100	2.60	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-20-10	4.3	Calcium	461400	1	97800	0.21	1595119951
Cadmium	MPT-G4-SU-20-10	0.043	Calcium	461400	-2	97800	-0.42	
Chromium	MPT-G4-SU-20-10	4.1	Calcium	461400	-2	97800	-0.42	
Cobalt	MPT-G4-SU-20-10	0.24	Calcium	461400	2	97800	0.42	
Lead	MPT-G4-SU-20-10	1.5x	Calcium	461400	-5	97800	-1.06	
Manganese	MPT-G4-SU-20-10	20.3	Calcium	461400	8	97800	1.70	
Nickel	MPT-G4-SU-20-10	0.58	Calcium	461400	2	97800	0.42	
Selenium	MPT-G4-SU-20-10	0.57u	Calcium	461400	-8	97800	-1.70	
Vanadium	MPT-G4-SU-20-10	2.8	Calcium	461400	-2	97800	-0.42	
Zinc	MPT-G4-SU-20-10	4x	Calcium	461400	21	97800	4.45	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-23-08	4.4	Calcium	461400	1	47600	0.10	1595119951
Cadmium	MPT-G4-SU-23-08	0.042	Calcium	461400	-2	47600	-0.21	
Chromium	MPT-G4-SU-23-08	4.7	Calcium	461400	-2	47600	-0.21	
Cobalt	MPT-G4-SU-23-08	0.52	Calcium	461400	2	47600	0.21	
Lead	MPT-G4-SU-23-08	2.8	Calcium	461400	-5	47600	-0.52	
Manganese	MPT-G4-SU-23-08	33	Calcium	461400	8	47600	0.83	
Nickel	MPT-G4-SU-23-08	1	Calcium	461400	2	47600	0.21	
Selenium	MPT-G4-SU-23-08	0.53u	Calcium	461400	-8	47600	-0.83	
Vanadium	MPT-G4-SU-23-08	4.3	Calcium	461400	-2	47600	-0.21	
Zinc	MPT-G4-SU-23-08	3.7x	Calcium	461400	21	47600	2.17	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-24-08	3.3	Calcium	461400	1	36900	0.08	151511515
Cadmium	MPT-G4-SU-24-08	0.037u	Calcium	461400	-2	36900	-0.16	
Chromium	MPT-G4-SU-24-08	2.7	Calcium	461400	-2	36900	-0.16	
Cobalt	MPT-G4-SU-24-08	0.26	Calcium	461400	2	36900	0.16	
Lead	MPT-G4-SU-24-08	1.2x	Calcium	461400	-5	36900	-0.40	
Manganese	MPT-G4-SU-24-08	39.9	Calcium	461400	8	36900	0.64	
Nickel	MPT-G4-SU-24-08	0.48	Calcium	461400	2	36900	0.16	
Selenium	MPT-G4-SU-24-08	0.6u	Calcium	461400	-8	36900	-0.64	
Vanadium	MPT-G4-SU-24-08	2.5	Calcium	461400	-2	36900	-0.16	
Zinc	MPT-G4-SU-24-08	14	Calcium	461400	21	36900	1.68	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-25-05	6	Calcium	461400	1	77300	0.17	151511515
Cadmium	MPT-G4-SU-25-05	0.076	Calcium	461400	-2	77300	-0.34	
Chromium	MPT-G4-SU-25-05	5.1	Calcium	461400	-2	77300	-0.34	
Cobalt	MPT-G4-SU-25-05	0.42	Calcium	461400	2	77300	0.34	
Lead	MPT-G4-SU-25-05	6.9	Calcium	461400	-5	77300	-0.84	
Manganese	MPT-G4-SU-25-05	29.5	Calcium	461400	8	77300	1.34	
Nickel	MPT-G4-SU-25-05	1.2	Calcium	461400	2	77300	0.34	
Selenium	MPT-G4-SU-25-05	0.54u	Calcium	461400	-8	77300	-1.34	
Vanadium	MPT-G4-SU-25-05	4.6	Calcium	461400	-2	77300	-0.34	
Zinc	MPT-G4-SU-25-05	16.9	Calcium	461400	21	77300	3.52	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-26-05	2.6	Calcium	461400	1	41200	0.09	151511515
Cadmium	MPT-G4-SU-26-05	0.033u	Calcium	461400	-2	41200	-0.18	
Chromium	MPT-G4-SU-26-05	3.7	Calcium	461400	-2	41200	-0.18	
Cobalt	MPT-G4-SU-26-05	0.11	Calcium	461400	2	41200	0.18	
Lead	MPT-G4-SU-26-05	1.6	Calcium	461400	-5	41200	-0.45	
Manganese	MPT-G4-SU-26-05	8.5	Calcium	461400	8	41200	0.71	
Nickel	MPT-G4-SU-26-05	1.8	Calcium	461400	2	41200	0.18	
Selenium	MPT-G4-SU-26-05	0.53u	Calcium	461400	-8	41200	-0.71	
Vanadium	MPT-G4-SU-26-05	2	Calcium	461400	-2	41200	-0.18	
Zinc	MPT-G4-SU-26-05	5.9	Calcium	461400	21	41200	1.88	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-27-07	5.6	Calcium	461400	1	106000	0.23	1
Cadmium	MPT-G4-SU-27-07	0.037u	Calcium	461400	-2	106000	-0.46	1.5
Chromium	MPT-G4-SU-27-07	10.7	Calcium	461400	-2	106000	-0.46	1.5
Cobalt	MPT-G4-SU-27-07	2.4	Calcium	461400	2	106000	0.46	1.5
Lead	MPT-G4-SU-27-07	9.7	Calcium	461400	-5	106000	-1.15	1.5
Manganese	MPT-G4-SU-27-07	58.5	Calcium	461400	8	106000	1.84	1.5
Nickel	MPT-G4-SU-27-07	3.6	Calcium	461400	2	106000	0.46	1.5
Selenium	MPT-G4-SU-27-07	0.6u	Calcium	461400	-8	106000	-1.84	1.5
Vanadium	MPT-G4-SU-27-07	14.2	Calcium	461400	-2	106000	-0.46	1.5
Zinc	MPT-G4-SU-27-07	143	Calcium	461400	21	106000	4.82	1.5

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-28-05	5	Calcium	461400	1	164000	0.36	1.5
Cadmium	MPT-G4-SU-28-05	0.037u	Calcium	461400	-2	164000	-0.71	1.5
Chromium	MPT-G4-SU-28-05	1.8	Calcium	461400	-2	164000	-0.71	1.5
Cobalt	MPT-G4-SU-28-05	0.096	Calcium	461400	2	164000	0.71	1.5
Lead	MPT-G4-SU-28-05	2.3	Calcium	461400	-5	164000	-1.78	1.5
Manganese	MPT-G4-SU-28-05	33.2	Calcium	461400	8	164000	2.84	1.5
Nickel	MPT-G4-SU-28-05	0.45	Calcium	461400	2	164000	0.71	1.5
Selenium	MPT-G4-SU-28-05	0.6u	Calcium	461400	-8	164000	-2.84	1.5
Vanadium	MPT-G4-SU-28-05	1.6	Calcium	461400	-2	164000	-0.71	1.5
Zinc	MPT-G4-SU-28-05	7.6	Calcium	461400	21	164000	7.46	1.5

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-29-05	7.9	Calcium	461400	1	93000	0.20	1.5
Cadmium	MPT-G4-SU-29-05	0.14	Calcium	461400	-2	93000	-0.40	1.5
Chromium	MPT-G4-SU-29-05	5.4	Calcium	461400	-2	93000	-0.40	1.5
Cobalt	MPT-G4-SU-29-05	0.36	Calcium	461400	2	93000	0.40	1.5
Lead	MPT-G4-SU-29-05	9	Calcium	461400	-5	93000	-1.01	1.5
Manganese	MPT-G4-SU-29-05	28.1	Calcium	461400	8	93000	1.61	1.5
Nickel	MPT-G4-SU-29-05	1.7	Calcium	461400	2	93000	0.40	1.5
Selenium	MPT-G4-SU-29-05	0.58u	Calcium	461400	-8	93000	-1.61	1.5
Vanadium	MPT-G4-SU-29-05	6.5	Calcium	461400	-2	93000	-0.40	1.5
Zinc	MPT-G4-SU-29-05	15.8	Calcium	461400	21	93000	4.23	1.5

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-34-05	6.1	Calcium	461400	1	103000	0.22	1544115315
Cadmium	MPT-G4-SU-34-05	0.27	Calcium	461400	-2	103000	-0.45	
Chromium	MPT-G4-SU-34-05	4.1	Calcium	461400	-2	103000	-0.45	
Cobalt	MPT-G4-SU-34-05	0.43	Calcium	461400	2	103000	0.45	
Lead	MPT-G4-SU-34-05	14.3	Calcium	461400	-5	103000	-1.12	
Manganese	MPT-G4-SU-34-05	19.4	Calcium	461400	8	103000	1.79	
Nickel	MPT-G4-SU-34-05	2.2	Calcium	461400	2	103000	0.45	
Selenium	MPT-G4-SU-34-05	0.56u	Calcium	461400	-8	103000	-1.79	
Vanadium	MPT-G4-SU-34-05	7.8	Calcium	461400	-2	103000	-0.45	
Zinc	MPT-G4-SU-34-05	23.5	Calcium	461400	21	103000	4.69	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-35-05	3.3	Calcium	461400	1	29200	0.06	1544115315
Cadmium	MPT-G4-SU-35-05	0.051	Calcium	461400	-2	29200	-0.13	
Chromium	MPT-G4-SU-35-05	3.2	Calcium	461400	-2	29200	-0.13	
Cobalt	MPT-G4-SU-35-05	0.33	Calcium	461400	2	29200	0.13	
Lead	MPT-G4-SU-35-05	2.8	Calcium	461400	-5	29200	-0.32	
Manganese	MPT-G4-SU-35-05	13.1	Calcium	461400	8	29200	0.51	
Nickel	MPT-G4-SU-35-05	0.7	Calcium	461400	2	29200	0.13	
Selenium	MPT-G4-SU-35-05	0.55u	Calcium	461400	-8	29200	-0.51	
Vanadium	MPT-G4-SU-35-05	3.4	Calcium	461400	-2	29200	-0.13	
Zinc	MPT-G4-SU-35-05	5.9	Calcium	461400	21	29200	1.33	

Affected Analyte	Sample	Reported Result mg/kg	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-G4-SU-DU02	6.8	Calcium	461400	1	83300	0.18	1544115315
Cadmium	MPT-G4-SU-DU02	0.063	Calcium	461400	-2	83300	-0.36	
Chromium	MPT-G4-SU-DU02	2.6	Calcium	461400	-2	83300	-0.36	
Cobalt	MPT-G4-SU-DU02	0.17	Calcium	461400	2	83300	0.36	
Lead	MPT-G4-SU-DU02	1.8	Calcium	461400	-5	83300	-0.90	
Manganese	MPT-G4-SU-DU02	28.7	Calcium	461400	8	83300	1.44	
Nickel	MPT-G4-SU-DU02	0.63	Calcium	461400	2	83300	0.36	
Selenium	MPT-G4-SU-DU02	0.59u	Calcium	461400	-8	83300	-1.44	
Vanadium	MPT-G4-SU-DU02	2.6	Calcium	461400	-2	83300	-0.36	
Zinc	MPT-G4-SU-DU02	8.3	Calcium	461400	21	83300	3.79	

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/19/00 10:08 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	489000					
Antimony	206.838	10		2					
Arsenic	189.042	10		-1					
Barium	493.409	200		1					
Beryllium	313.042	5		0					
Cadmium	226.502	2		-2					
Calcium	317.933		500000	529000					
Chromium	267.716	5		-2					
Cobalt	228.616	50		2					
Copper	324.753	25		1					
Iron	271.441		200000	196000					
Lead	220.353	3		-5					
Magnesium	279.078		500000	493000					
Manganese	257.61	15		8					
Nickel	231.604	40		2					
Potassium	766.491	5000		-5					
Selenium	196.026	5		-8					
Silver	328.068	5		-1					
Sodium	330.232	5000		-8					
Thallium	190.864	10		0					
Tin	189.989	100		0					
Vanadium	292.402	50		-2					

SIL NORTH CANTON
Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/21/00 3:57 PM				
				Found	Found	Found	Found	Found
Calcium	317.933		500000	479000				
Zinc	213.856	20		21				

STL NORTH CANTON

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i50721a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 7/21/00 4:02 PM		Found	Rec	Found	Rec	Found	Rec	Found	Rec
			Found	% Rec								
Calcium	317.933	500000	461400.7	92.3								
Zinc	213.856	1000	1032.2	103.2								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60719a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 7/19/00 10:14 AM		Found	Rec	Found	Rec	Found	Rec	Found	Rec
			Found	Rec								
Aluminum	308.215	500000	482808.3	96.6								
Antimony	206.838	1000	1028.0	102.8								
Arsenic	189.042	1000	989.6	99.0								
Barium	493.409	500	522.8	104.6								
Beryllium	313.042	500	509.7	101.9								
Cadmium	226.502	1000	930.0	93.0								
Calcium	317.933	500000	513591.3	102.7								
Chromium	267.716	500	484.7	96.9								
Cobalt	228.616	500	477.1	95.4								
Copper	324.753	500	514.4	102.9								
Iron	271.441	200000	194504.8	97.3								
Lead	220.353	1000	975.3	97.5								
Magnesium	279.078	500000	488197.2	97.6								
Manganese	257.61	500	512.7	102.5								
Nickel	231.604	1000	968.7	96.9								
Potassium	766.491	10000	11272.4	112.7								
Selenium	196.026	1000	958.3	95.8								
Silver	328.068	1000	1037.2	103.7								
Sodium	330.232	10000	10091.1	100.9								
Thallium	190.864	1000	965.7	96.6								
Tin	189.989	1000	941.3	94.1								
Vanadium	292.402	500	488.4	97.7								

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFV5XS
 Original Sample ID: DFV5X Client ID: MPT-G4-SU-28-05S
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	340		1250	N	243.4	374.2	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Antimony	206.8	0.38	U	52.1		60.849	85.5	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Arsenic	189.0	0.53	B	201		243.4	82.5	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Barium	493.4	5.0	B	218		243.4	87.4	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Beryllium	313.0	0.038	B	5.4		6.0849	88.3	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Cadmium	226.5	0.037	U	5.3		6.0849	87.7	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Calcium	317.9	164000		73000	NC	6084.9		5	1	ICPST	7/21/00	21:53	7/19/00	15:03
Chromium	267.7	1.8		24.7		24.34	94.1	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Cobalt	228.6	0.096	B	53.0		60.849	86.9	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Copper	324.8	0.83	B	29.3		30.425	93.4	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Iron	271.4	658		1110	NC	121.7		1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Lead	220.4	2.3		53.4		60.849	83.9	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Magnesium	279.1	1140		5800		6084.9	76.6	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Manganese	257.6	33.2		74.4	N	60.849	57.7	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Mercury	253.7	0.020	U	0.22		0.2028	110.3	1	1	CVAA	7/17/00	11:42	7/17/00	11:43
Nickel	231.6	0.45	B	52.2		60.849	85.0	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Potassium	766.5	60.9	B	5710		6084.9	92.8	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Selenium	196.0	0.60	U	214		243.4	87.9	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Silver	328.1	0.12	U	6.1		6.0849	100.0	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Sodium	330.2	1710		6360		6084.9	76.4	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Thallium	190.9	0.77	U	226		243.4	92.7	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Tin	190	1.5	B	217		243.4	88.3	1	1	ICPST	7/19/00	14:58	7/19/00	15:03
Vanadium	292.4	1.6	B	57.8		60.849	92.4	1	1	ICPST	7/19/00	14:58	7/19/00	15:03

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFV5XS
 Original Sample ID: DFV5X Client ID: MPT-G4-SU-28-05S
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Zinc	213.9	7.6		62.0		60.849	89.5	1	1	ICPST	7/21/00	20:11	7/21/00	20:16

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DFV5XD
 Original Sample ID: DFV5X Client ID: MPT-G4-SU-28-05D
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	340	N	1620	N*	243.4	527.5	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Antimony	206.8	0.38	U	51.4		60.849	84.5	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Arsenic	189.0	0.53	B	201		243.4	82.3	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Barium	493.4	5.0	B	219		243.4	88.0	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Beryllium	313.0	0.038	B	5.4		6.0849	88.7	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Cadmium	226.5	0.037	U	5.4		6.0849	88.2	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Calcium	317.9	164000		85400	NC	6084.9		5	5	ICPST	7/21/00	21:53	7/21/00	21:59
Chromium	267.7	1.8		25.2		24.34	96.5	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Cobalt	228.6	0.096	B	53.4		60.849	87.6	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Copper	324.8	0.83	B	30.1		30.425	96.2	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Iron	271.4	658		1280	NC	121.7		1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Lead	220.4	2.3		53.3		60.849	83.7	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Magnesium	279.1	1140		5940		6084.9	78.8	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Manganese	257.6	33.2	N	73.9	N	60.849	66.9	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Mercury	253.7	0.020	U	0.21		0.2028	101.5	1	1	CVAA	7/17/00	11:42	7/18/00	10:06
Nickel	231.6	0.45	B	51.7		60.849	84.2	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Potassium	766.5	60.9	B	5810		6084.9	94.5	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Selenium	196.0	0.60	U	216		243.4	88.8	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Silver	328.1	0.12	U	6.2		6.0849	102.2	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Sodium	330.2	1710		6610		6084.9	80.6	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Thallium	190.9	0.77	U	228		243.4	93.8	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Tin	190	1.5	B	218		243.4	88.9	1	1	ICPST	7/19/00	14:58	7/19/00	15:08
Vanadium	292.4	1.6	B	58.7		60.849	93.9	1	1	ICPST	7/19/00	14:58	7/19/00	15:08

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DFV5XD
 Original Sample ID: DFV5X Client ID: MPT-G4-SU-28-05D
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Zinc	213.9	7.6		64.5		60.849	93.6	1	1	ICPST	7/21/00	20:11	7/21/00	20:21

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFV5XD
 Matrix Spike Sample ID: DFV5XS Client ID: MPT-G4-SU-28-05D
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	MS Conc	O	MSD Conc	O	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	1250	N	1620	N*	34.0 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Antimony	206.838	52.1		51.4		1.2 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Arsenic	189.042	201		201		0.2 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Barium	493.409	218		219		0.8 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Beryllium	313.042	5.4		5.4		0.4 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Cadmium	226.502	5.3		5.4		0.6 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Calcium	317.933	73000	NC	85400	NC		1	5	ICPST	7/19/00	15:03	7/21/00	21:59
Chromium	267.716	24.7		25.2		2.4 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Cobalt	228.616	53.0		53.4		0.7 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Copper	324.753	29.3		30.1		3.0 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Iron	271.441	1110	NC	1280	NC		1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Lead	220.353	53.4		53.3		0.2 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Magnesium	279.078	5800		5940		2.8 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Manganese	257.61	74.4	N	73.9	N	1.2 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Mercury	253.7	0.13		0.12		8.3 %	1	1	CVAA	7/17/00	11:43	7/18/00	10:06
Nickel	231.604	52.2		51.7		1.0 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Potassium	766.491	5710		5810		1.8 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Selenium	196.026	214		216		1.0 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Silver	328.068	6.1		6.2		2.2 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Sodium	330.232	6360		6610		5.3 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Thallium	190.864	226		228		1.1 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Tin	189.989	217		218		0.7 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08
Vanadium	292.402	57.8		58.7		1.6 %	1	1	ICPST	7/19/00	15:03	7/19/00	15:08

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated

Form 6 Equivalent

* Duplicate analysis RPD was not within limits

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFV5XD
 Matrix Spike Sample ID: DFV5XS Client ID: MPT-G4-SU-28-05D
 Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112
 Weight: 1.0 Volume: 100 Percent Moisture: 17.83

Element	WL/ Mass	MS Conc	O	MSD Conc	O	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Zinc	213.856	62.0		64.5		5.5 %	1	1	ICPST	7/21/00	20:16	7/21/00	20:21

Comments: Lot #: A0G070231 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DG6R8C

Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101

Weight: 1.0 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	200	180	90.1		80-120	1	ICPST	7/19/00	21:50
Antimony	206.838	50.0	44.2	88.3		80-120	1	ICPST	7/19/00	21:50
Arsenic	189.042	200	166	83.1		80-120	1	ICPST	7/19/00	21:50
Barium	493.409	200	178	88.7		80-120	1	ICPST	7/19/00	21:50
Beryllium	313.042	5.0	4.5	90.3		80-120	1	ICPST	7/19/00	21:50
Cadmium	226.502	5.0	4.5	90.2		80-120	1	ICPST	7/19/00	21:50
Calcium	317.933	5000	4650	93.0		80-120	1	ICPST	7/19/00	21:50
Chromium	267.716	20.0	18.6	93.1		80-120	1	ICPST	7/19/00	21:50
Cobalt	228.616	50.0	44.4	88.9		80-120	1	ICPST	7/19/00	21:50
Copper	324.753	25.0	23.0	91.8		80-120	1	ICPST	7/19/00	21:50
Iron	271.441	100	102	102.2		73-137	1	ICPST	7/19/00	21:50
Lead	220.353	50.0	43.4	86.8		80-120	1	ICPST	7/19/00	21:50
Magnesium	279.078	5000	4520	90.4		80-120	1	ICPST	7/19/00	21:50
Manganese	257.61	50.0	46.0	92.0		80-120	1	ICPST	7/19/00	21:50
Mercury	253.7	0.83	0.90	107.6		52-127	1	CVAA	7/17/00	11:25
Nickel	231.604	50.0	43.7	87.4		80-120	1	ICPST	7/19/00	21:50
Potassium	766.491	5000	4540	90.8		80-120	1	ICPST	7/19/00	21:50
Selenium	196.026	200	179	89.3		80-120	1	ICPST	7/19/00	21:50
Silver	328.068	5.0	5.0	99.8		80-120	1	ICPST	7/19/00	21:50
Sodium	330.232	5000	4880	97.5		80-120	1	ICPST	7/19/00	21:50
Thallium	190.864	200	189	94.3		80-120	1	ICPST	7/19/00	21:50
Tin	189.989	200	182	91.0		80-120	1	ICPST	7/19/00	21:50
Vanadium	292.402	50.0	46.1	92.2		80-120	1	ICPST	7/19/00	21:50

Comments: Lot #: A0G080137

STL North Canton
Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DGK9CC

Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112

Weight: 1.0 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Zinc	213.856	50.0	46.8	93.6		80-120	1	ICPST	7/21/00	18:55

Comments: Lot #: A0G080137

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DFN42L
 Original Sample ID: DFN42 Client ID: MPT-G4-SU-18-08
 Matrix: Soil Units: mg/kg Prep Date: 7/14/00 Prep Batch: 0196101
 Weight: 1.0 Volume: 100 Percent Moisture: 21.59

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	1340	N*	1370		2.4 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Antimony	206.838	0.40	U	2.0	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Arsenic	189.042	1.0	B	1.9	B		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Barium	493.409	3.3	B	3.6	B	7.4 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Beryllium	313.042	0.026	U	0.14	B		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Cadmium	226.502	0.038	U	0.19	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Calcium	317.933	21200		21600		1.5 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Chromium	267.716	3.1		3.4			1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Cobalt	228.616	0.36	B	0.45	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Copper	324.753	0.92	B	1.1	B		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Iron	271.441	1750		1810		3.8 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Lead	220.353	1.4		2.1			1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Magnesium	279.078	352	B	370	B	5.1 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Manganese	257.61	20.2	N	21.5		6.3 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Nickel	231.604	0.88	B	1.3	B		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Potassium	766.491	142	B	134	B	5.6 %	1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Selenium	196.026	0.63	U	3.1	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Silver	328.068	0.13	U	0.64	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Sodium	330.232	484	B	524	B		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Thallium	190.864	0.80	U	4.0	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Tin	189.989	1.4	B	1.8	U		1	5	ICPST	7/19/00	21:56	7/19/00	22:01
Vanadium	292.402	3.1	B	3.2	B		1	5	ICPST	7/19/00	21:56	7/19/00	22:01

Comments: _____
 Version 3.63.6 Beta U Result is less than the IDL Form 9 Equivalent
B Result is between IDL and RL
L Serial dilution percent difference not within limits

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DFN42L

Original Sample ID: DFN42 Client ID: MPT-G4-SU-18-08

Matrix: Soil Units: mg/kg Prep Date: 7/21/00 Prep Batch: 0203112

Weight: 1.0 Volume: 100 Percent Moisture: 21.59

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Zinc	213.856	4.0		7.2	B		1	5	ICPST	7/21/00	19:02	7/21/00	19:07

Comments: _____

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	10.3	4/18/00
Antimony	206.84	10	3.1	4/18/00
Arsenic	189.04	10	2.9	4/18/00
Barium	493.41	200	0.30	4/18/00
Beryllium	313.04	5	0.20	4/18/00
Cadmium	226.50	2	0.30	4/18/00
Calcium	317.93	5000	22.4	4/18/00
Chromium	267.72	5	0.80	4/18/00
Cobalt	228.62	50	0.70	4/18/00
Copper	324.75	25	1.3	4/18/00
Iron	271.44	100	14.9	4/18/00
Lead	220.35	3	1.3	4/18/00
Magnesium	279.08	5000	10.2	4/18/00
Manganese	257.61	15	0.20	4/18/00
Nickel	231.60	40	1.3	4/18/00
Potassium	766.49	5000	19.8	4/18/00
Selenium	196.03	5	4.9	4/18/00
Silver	328.07	5	1.0	4/18/00
Sodium	330.23	5000	155	4/18/00
Thallium	190.86	10	6.3	4/18/00
Tin	189.99	100	2.8	4/18/00
Vanadium	292.40	50	0.80	4/18/00
Zinc	213.86	20	1.3	3/20/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.6	0.10	3/21/00

STL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50721a.arc

Sample Name	Date of Analysis	Time of Analysis
STD1-Blank	7/21/00	3:01 PM
CALSTD	7/21/00	3:06 PM
CAL 2	7/21/00	3:11 PM
ICV	7/21/00	3:15 PM
ICB	7/21/00	3:20 PM
CRI	7/21/00	3:25 PM
ZZZZZZ	7/21/00	3:30 PM
ZZZZZZ	7/21/00	3:39 PM
ICSA	7/21/00	3:57 PM
ICSAB	7/21/00	4:02 PM
CCV	7/21/00	4:08 PM
CCB	7/21/00	4:15 PM
ZZZZZZ	7/21/00	4:20 PM
ZZZZZZ	7/21/00	4:25 PM
ZZZZZZ	7/21/00	4:30 PM
ZZZZZZ	7/21/00	4:35 PM
ZZZZZZ	7/21/00	4:40 PM
ZZZZZZ	7/21/00	4:45 PM
ZZZZZZ	7/21/00	4:50 PM
ZZZZZZ	7/21/00	4:55 PM
ZZZZZZ	7/21/00	5:06 PM
ZZZZZZ	7/21/00	5:11 PM
CCV	7/21/00	5:18 PM
CCB	7/21/00	5:24 PM
ZZZZZZ	7/21/00	5:29 PM
ZZZZZZ	7/21/00	5:34 PM
ZZZZZZ	7/21/00	5:39 PM
ZZZZZZ	7/21/00	5:45 PM
ZZZZZZ	7/21/00	5:50 PM
ZZZZZZ	7/21/00	5:55 PM
ZZZZZZ	7/21/00	6:00 PM
ZZZZZZ	7/21/00	6:05 PM
ZZZZZZ	7/21/00	6:10 PM
ZZZZZZ	7/21/00	6:15 PM
CCV	7/21/00	6:22 PM
CCB	7/21/00	6:28 PM
ZZZZZZ	7/21/00	6:33 PM
ZZZZZZ	7/21/00	6:38 PM
ZZZZZZ	7/21/00	6:43 PM
DGK9CB	7/21/00	6:50 PM
DGK9CC	7/21/00	6:55 PM

STL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50721a.arc

Sample Name	Date of Analysis	Time of Analysis
DFN42	7/21/00	7:02 PM
DFN42L	7/21/00	7:07 PM
DFN43	7/21/00	7:12 PM
DFN44	7/21/00	7:17 PM
DFN45	7/21/00	7:22 PM
CCV	7/21/00	7:29 PM
CCB	7/21/00	7:35 PM
DFN46	7/21/00	7:40 PM
DFN47	7/21/00	7:45 PM
DFRAK	7/21/00	7:50 PM
DFRAW	7/21/00	7:56 PM
DFRAX	7/21/00	8:01 PM
DFRC1	7/21/00	8:06 PM
DFV5X	7/21/00	8:11 PM
DFV5XS	7/21/00	8:16 PM
DFV5XD	7/21/00	8:21 PM
DFV68	7/21/00	8:26 PM
CCV	7/21/00	8:33 PM
CCB	7/21/00	8:39 PM
DFV69	7/21/00	8:44 PM
DFV6A	7/21/00	8:49 PM
DFV6D	7/21/00	8:54 PM
DFV6E	7/21/00	9:00 PM
DFV6L	7/21/00	9:05 PM
DFWAG	7/21/00	9:10 PM
DFWAK	7/21/00	9:15 PM
DFWAL	7/21/00	9:20 PM
DFN44	7/21/00	9:25 PM
DFRAW	7/21/00	9:30 PM
CCV	7/21/00	9:37 PM
CCB	7/21/00	9:43 PM
DFRC1	7/21/00	9:48 PM
DFV5X	7/21/00	9:53 PM
DFV5XD	7/21/00	9:59 PM
DFV68	7/21/00	10:04 PM
DFV6E	7/21/00	10:09 PM
DFWAG	7/21/00	10:14 PM
ZZZZZZ	7/21/00	10:19 PM
ZZZZZZ	7/21/00	10:24 PM
ZZZZZZ	7/21/00	10:29 PM
ZZZZZZ	7/21/00	10:34 PM

SIL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i50721a.arc

Sample Name	Date of Analysis	Time of Analysis
CCV	7/21/00	10:41 PM
CCB	7/21/00	10:47 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60719a.arc

Sample Name	Date of Analysis	Time of Analysis
S0	7/19/00	9:18 AM
CALSTD	7/19/00	9:23 AM
CAL 2	7/19/00	9:28 AM
S100	7/19/00	9:31 AM
ICV	7/19/00	9:34 AM
ICB	7/19/00	9:41 AM
CRI	7/19/00	9:46 AM
ZZZZZZ	7/19/00	9:52 AM
ZZZZZZ	7/19/00	10:01 AM
ICSA	7/19/00	10:08 AM
ICSAB	7/19/00	10:14 AM
CCV	7/19/00	10:20 AM
CCB	7/19/00	10:27 AM
ZZZZZZ	7/19/00	10:32 AM
ZZZZZZ	7/19/00	10:36 AM
ZZZZZZ	7/19/00	10:43 AM
ZZZZZZ	7/19/00	10:48 AM
ZZZZZZ	7/19/00	10:53 AM
ZZZZZZ	7/19/00	11:21 AM
ZZZZZZ	7/19/00	11:28 AM
ZZZZZZ	7/19/00	11:33 AM
ZZZZZZ	7/19/00	11:38 AM
ZZZZZZ	7/19/00	11:42 AM
CCV	7/19/00	11:47 AM
CCB	7/19/00	11:54 AM
ZZZZZZ	7/19/00	11:59 AM
ZZZZZZ	7/19/00	12:03 PM
ZZZZZZ	7/19/00	12:08 PM
ZZZZZZ	7/19/00	12:13 PM
ZZZZZZ	7/19/00	12:20 PM
ZZZZZZ	7/19/00	12:24 PM
ZZZZZZ	7/19/00	12:29 PM
ZZZZZZ	7/19/00	12:36 PM
ZZZZZZ	7/19/00	12:43 PM
ZZZZZZ	7/19/00	12:49 PM
CCV	7/19/00	12:53 PM
CCB	7/19/00	1:00 PM
ZZZZZZ	7/19/00	1:05 PM
ZZZZZZ	7/19/00	1:10 PM
ZZZZZZ	7/19/00	1:17 PM
ZZZZZZ	7/19/00	1:22 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60719a.arc

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/19/00	1:29 PM
ZZZZZZ	7/19/00	1:33 PM
ZZZZZZ	7/19/00	1:38 PM
ZZZZZZ	7/19/00	1:43 PM
ZZZZZZ	7/19/00	1:48 PM
ZZZZZZ	7/19/00	1:53 PM
CCV	7/19/00	1:58 PM
CCB	7/19/00	2:04 PM
CCV	7/19/00	2:23 PM
CCB	7/19/00	2:29 PM
DFN47	7/19/00	2:34 PM
DFRAK	7/19/00	2:39 PM
DFRAW	7/19/00	2:44 PM
DFRAX	7/19/00	2:48 PM
DFRC1	7/19/00	2:53 PM
DFV5X	7/19/00	2:58 PM
DFV5XS	7/19/00	3:03 PM
DFV5XD	7/19/00	3:08 PM
DFV68	7/19/00	3:14 PM
DFV69	7/19/00	3:19 PM
CCV	7/19/00	3:24 PM
CCB	7/19/00	3:30 PM
DFV6A	7/19/00	3:35 PM
DFV6D	7/19/00	3:40 PM
DFV6E	7/19/00	3:45 PM
DFV6L	7/19/00	3:50 PM
DFWAG	7/19/00	3:54 PM
DFWAK	7/19/00	3:59 PM
DFWAL	7/19/00	4:04 PM
ZZZZZZ	7/19/00	4:11 PM
ZZZZZZ	7/19/00	4:15 PM
ZZZZZZ	7/19/00	4:22 PM
CCV	7/19/00	4:27 PM
CCB	7/19/00	4:33 PM
ZZZZZZ	7/19/00	4:38 PM
ZZZZZZ	7/19/00	4:43 PM
ZZZZZZ	7/19/00	4:48 PM
ZZZZZZ	7/19/00	4:53 PM
ZZZZZZ	7/19/00	4:57 PM
ZZZZZZ	7/19/00	5:02 PM
ZZZZZZ	7/19/00	5:07 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: i60719a.arc

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/19/00	5:12 PM
ZZZZZZ	7/19/00	5:17 PM
ZZZZZZ	7/19/00	5:22 PM
CCV	7/19/00	5:26 PM
CCB	7/19/00	5:33 PM
ZZZZZZ	7/19/00	5:38 PM
ZZZZZZ	7/19/00	5:43 PM
ZZZZZZ	7/19/00	5:47 PM
ZZZZZZ	7/19/00	5:52 PM
ZZZZZZ	7/19/00	5:59 PM
ZZZZZZ	7/19/00	6:04 PM
ZZZZZZ	7/19/00	6:08 PM
ZZZZZZ	7/19/00	6:15 PM
ZZZZZZ	7/19/00	6:20 PM
ZZZZZZ	7/19/00	6:25 PM
CCV	7/19/00	6:30 PM
CCB	7/19/00	6:36 PM
ZZZZZZ	7/19/00	6:41 PM
ZZZZZZ	7/19/00	6:46 PM
ZZZZZZ	7/19/00	6:51 PM
ZZZZZZ	7/19/00	6:57 PM
ZZZZZZ	7/19/00	7:02 PM
ZZZZZZ	7/19/00	7:09 PM
ZZZZZZ	7/19/00	7:13 PM
ZZZZZZ	7/19/00	7:18 PM
ZZZZZZ	7/19/00	7:23 PM
ZZZZZZ	7/19/00	7:30 PM
CCV	7/19/00	7:34 PM
CCB	7/19/00	7:41 PM
ZZZZZZ	7/19/00	7:46 PM
ZZZZZZ	7/19/00	7:51 PM
ZZZZZZ	7/19/00	7:56 PM
ZZZZZZ	7/19/00	8:00 PM
ZZZZZZ	7/19/00	8:05 PM
ZZZZZZ	7/19/00	8:10 PM
ZZZZZZ	7/19/00	8:15 PM
ZZZZZZ	7/19/00	8:20 PM
ZZZZZZ	7/19/00	8:24 PM
ZZZZZZ	7/19/00	8:29 PM
CCV	7/19/00	8:34 PM
CCB	7/19/00	8:41 PM

STL NORTH CANTON

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60719a.arc

Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZZ</i>	7/19/00	8:46 PM
<i>ZZZZZZ</i>	7/19/00	8:50 PM
<i>ZZZZZZ</i>	7/19/00	8:55 PM
CCV	7/19/00	9:00 PM
CCB	7/19/00	9:07 PM
CCV	7/19/00	9:34 PM
CCB	7/19/00	9:40 PM
DG6R8B	7/19/00	9:45 PM
DG6R8C	7/19/00	9:50 PM
DFN42	7/19/00	9:56 PM
DFN42L	7/19/00	10:01 PM
DFN43	7/19/00	10:06 PM
DFN44	7/19/00	10:11 PM
DFN45	7/19/00	10:16 PM
DFN46	7/19/00	10:20 PM
<i>ZZZZZZ</i>	7/19/00	10:27 PM
<i>ZZZZZZ</i>	7/19/00	10:32 PM
CCV	7/19/00	10:38 PM
CCB	7/19/00	10:45 PM

STL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10717a.prn

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/17/00	11:09 AM
Std2Rep1	7/17/00	11:11 AM
Std3Rep1	7/17/00	11:12 AM
Std4Rep1	7/17/00	11:13 AM
Std5Rep1	7/17/00	11:15 AM
Std6Rep1	7/17/00	11:16 AM
Ck5ICV	7/17/00	11:17 AM
Ck4ICB	7/17/00	11:19 AM
Ck3CRA	7/17/00	11:20 AM
Ck2CCV	7/17/00	11:21 AM
Ck1CCB	7/17/00	11:23 AM
DG6R8B	7/17/00	11:24 AM
DG6R8C	7/17/00	11:25 AM
DFN42	7/17/00	11:26 AM
DFN43	7/17/00	11:28 AM
DFN44	7/17/00	11:29 AM
DFN45	7/17/00	11:30 AM
DFN46	7/17/00	11:31 AM
DFN47	7/17/00	11:32 AM
DFWAK	7/17/00	11:34 AM
DFRAW	7/17/00	11:36 AM
Ck2CCV	7/17/00	11:37 AM
Ck1CCB	7/17/00	11:38 AM
DFRAX	7/17/00	11:39 AM
DFRC1	7/17/00	11:40 AM
DFV5X	7/17/00	11:42 AM
DFV5XS	7/17/00	11:43 AM
ZZZZZ	7/17/00	11:45 AM
DFV6A	7/17/00	11:47 AM
DFV6D	7/17/00	11:48 AM
DFV6E	7/17/00	11:51 AM
DFV6L	7/17/00	11:52 AM
DFV68	7/17/00	11:53 AM
Ck2CCV	7/17/00	11:54 AM
Ck1CCB	7/17/00	11:55 AM
DFV69	7/17/00	11:57 AM
DFWAG	7/17/00	11:58 AM
DFRAK	7/17/00	11:59 AM
DFWAL	7/17/00	12:00 PM
ZZZZZ	7/17/00	12:01 PM
ZZZZZ	7/17/00	12:03 PM

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: hg10717a.pm

Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZZ</i>	7/17/00	12:04 PM
<i>ZZZZZZ</i>	7/17/00	12:06 PM
<i>ZZZZZZ</i>	7/17/00	12:07 PM
<i>ZZZZZZ</i>	7/17/00	12:08 PM
Ck2CCV	7/17/00	12:10 PM
Ck1CCB	7/17/00	12:11 PM

STL NORTH CANTON

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10718b.prn

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/18/00	9:13 AM
Std2Rep1	7/18/00	9:14 AM
Std3Rep1	7/18/00	9:15 AM
Std4Rep1	7/18/00	9:16 AM
Std5Rep1	7/18/00	9:18 AM
Std6Rep1	7/18/00	9:19 AM
Ck5ICV	7/18/00	9:20 AM
Ck4ICB	7/18/00	9:21 AM
Ck3CRA	7/18/00	9:22 AM
Ck2CCV	7/18/00	9:24 AM
Ck1CCB	7/18/00	9:25 AM
ZZZZZZ	7/18/00	9:27 AM
ZZZZZZ	7/18/00	9:28 AM
ZZZZZZ	7/18/00	9:29 AM
ZZZZZZ	7/18/00	9:30 AM
ZZZZZZ	7/18/00	9:31 AM
ZZZZZZ	7/18/00	9:32 AM
ZZZZZZ	7/18/00	9:34 AM
ZZZZZZ	7/18/00	9:35 AM
ZZZZZZ	7/18/00	9:36 AM
ZZZZZZ	7/18/00	9:37 AM
Ck2CCV	7/18/00	9:39 AM
Ck1CCB	7/18/00	9:40 AM
ZZZZZZ	7/18/00	9:41 AM
ZZZZZZ	7/18/00	9:42 AM
ZZZZZZ	7/18/00	9:44 AM
ZZZZZZ	7/18/00	9:45 AM
ZZZZZZ	7/18/00	9:47 AM
ZZZZZZ	7/18/00	9:48 AM
ZZZZZZ	7/18/00	9:49 AM
ZZZZZZ	7/18/00	9:50 AM
ZZZZZZ	7/18/00	9:51 AM
ZZZZZZ	7/18/00	9:53 AM
Ck2CCV	7/18/00	9:54 AM
Ck1CCB	7/18/00	9:55 AM
ZZZZZZ	7/18/00	9:57 AM
ZZZZZZ	7/18/00	9:59 AM
ZZZZZZ	7/18/00	10:01 AM
ZZZZZZ	7/18/00	10:02 AM
ZZZZZZ	7/18/00	10:03 AM
ZZZZZZ	7/18/00	10:04 AM

STL North Canton
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10718b.prn

Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZZ</i>	7/18/00	10:05 AM
DFV5XD	7/18/00	10:06 AM
Ck2CCV	7/18/00	10:07 AM
Ck1CCB	7/18/00	10:08 AM
Ck2CCV	7/18/00	10:33 AM
Ck1CCB	7/18/00	10:34 AM
<i>ZZZZZZ</i>	7/18/00	10:35 AM
<i>ZZZZZZ</i>	7/18/00	10:36 AM
<i>ZZZZZZ</i>	7/18/00	10:38 AM
Ck2CCV	7/18/00	10:39 AM
Ck1CCB	7/18/00	10:40 AM

Analysis Report

Low	397.5	795.0	397.5	397.5	1590.	397.5	
Elem Units	Sn PPB	Tl PPB	V PPB	Zn PPB	2203/1 PPB	2203/2 PPB	2068/2 PPB
Avg	1821.	1886.	460.8	479.9	446.1	427.8	456.6
SDev	6.	3.	.1	.7	2.5	2.1	.9
%RSD	.3331	.1417	.0238	.1495	.5530	.4824	.2024
#1	1825.	1888.	460.9	480.4	447.9	426.3	457.3
#2	1817.	1884.	460.7	479.4	444.4	429.3	456.0
Errors High	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
Low		2410.	602.5	602.5			
		1590.	397.5	397.5			
Elem Units	2068/1 PPB	1960/1 PPB	1960/2 PPB				
Avg	434.1	1737.	1810.				
SDev	.1	7.	4.				
%RSD	.0121	.4017	.2130				
#1	434.0	1742.	1813.				
#2	434.1	1732.	1807.				
Errors High	NOCHECK	NOCHECK	NOCHECK				
Low							
IntStd Mode	1 Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Elem	Y						
Wavlen	371.030						
Avg	11070						
SDev	26.87006						
%RSD	.2427177						
#1	11052						
#2	11090						

Method: TOTAL Sample Name: DFN42 Operator: MJC
 Run Time: 07/19/00 21:56:49 MPT-64-SU-18-08
 Comment:
 Mode: CONC Corr. Factor: 1

Elem Units	Ag PPB	Al PPB	As PPB	B PPB	Ba PPB	Be PPB	Ca PPB
Avg	-.5480	10480.	8.055	16.97	25.91	.1930	166500.
SDev	.7113	40.	1.147	.37	.21	.0173	413.
%RSD	129.8	.3839	14.23	2.180	.7918	8.964	.2479
#1	-.0450	10500.	7.244	16.71	26.06	.1808	166800.
#2	-1.051	10450.	8.866	17.23	25.77	.2053	166200.
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
Low	2000.	500000.	10000.	50000.	25000.	4000.	600000.
	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.

Analysis Report

07/19/00 10:01:34 PM

page 7

	Cd PPB	Co PPB	Cr PPB	Cu PPB	Fe PPB	K PPB	Mg PPB
Units							
Avg	.1749	2.792	24.54	7.244	13690.	1114.	2758.
SDev	.0052	.063	.09	.481	25.	6.	8.
%RSD	2.970	2.262	.3615	6.646	.1842	.4950	.2812
#1	.1786	2.837	24.60	6.903	13710.	1118.	2764.
#2	.1712	2.747	24.48	7.584	13670.	1110.	2753.

Errors	LC Pass						
High	2500.	50000.	50000.	30000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.

	Mn PPB	Mo PPB	Na3302 PPB	Ni PPB	Pb PPB	Se PPB	Sb PPB
Units							
Avg	158.5	1.764	3792.	6.867	11.03	-.3932	-.2739
SDev	.5	.656	49.	.450	.19	.5501	3.2133
%RSD	.3461	37.22	1.298	6.554	1.735	139.9	1173.
#1	158.9	2.228	3757.	7.185	10.90	-.7822	-2.546
#2	158.1	1.299	3827.	6.549	11.17	-.0042	1.998

Errors	LC Pass						
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.

	Sn PPB	Tl PPB	V PPB	Zn PPB	2203/1 PPB	2203/2 PPB	2068/2 PPB
Units							
Avg	10.74	-3.856	24.08	54.06	12.31	10.39	.4466
SDev	.11	1.311	.01	.20	1.72	1.15	.9850
%RSD	1.008	33.99	.0351	.3758	14.00	11.05	220.6
#1	10.67	-4.783	24.07	54.20	13.53	9.579	1.143
#2	10.82	-2.929	24.08	53.91	11.10	11.20	-.2499

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	25000.	20000.	50000.	10000.			
Low	-1000.	-1000.	-1000.	-1000.			

	2068/1 PPB	1960/1 PPB	1960/2 PPB
Units			
Avg	-.6336	-2.669	.7429
SDev	5.3093	.077	.8633
%RSD	837.9	2.890	116.2
#1	-4.388	-2.614	.1325
#2	3.121	-2.723	1.353

$$11.03 \mu\text{g/L} \left(\frac{1\text{L}}{1000\text{mL}} \right) \left(\frac{100\text{mL}}{1.0\text{g}} \right) \left(\frac{1000\text{g}}{1\text{kg}} \right) \left(\frac{1}{10000} \right) \left(\frac{1}{.784} \right)$$

$$= 1.4 \text{ mg/kg}$$

gmm 9/15/00

Errors	NOCHECK	NOCHECK	NOCHECK
High			
Low			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 07/01/00

Work Order: DFN4210W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 22

QC Batch: 0188270

all SWIT < 10% recovery

Client Sample Id: MPT-G4-SU-18-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q	
		(ug/L or ug/kg)	ug/kg		
83-32-9	Acenaphthene	420			U
208-96-8	Acenaphthylene	420			U
98-86-2	Acetophenone	420			U
53-96-3	2-Acetylaminofluorene	4200			U
92-67-1	4-Aminobiphenyl	2000			U
62-53-3	Aniline	420			U
120-12-7	Anthracene	420			U
56-55-3	Benzo(a)anthracene	420			U
205-99-2	Benzo(b)fluoranthene	420			U
207-08-9	Benzo(k)fluoranthene	420			U
191-24-2	Benzo(ghi)perylene	420			U
50-32-8	Benzo(a)pyrene	420			U
100-51-6	Benzyl alcohol	420			U
111-91-1	bis(2-Chloroethoxy)methane	420			U
111-44-4	bis(2-Chloroethyl) ether	420			U
108-60-1	2,2'-Oxybis(1-Chloropropane)	420			U
117-81-7	bis(2-Ethylhexyl) phthalate	420			U
101-55-3	4-Bromophenyl phenyl ether	420			U
85-68-7	Butyl benzyl phthalate	420			U
106-47-8	4-Chloroaniline	420			U
59-50-7	4-Chloro-3-methylphenol	420			U
91-58-7	2-Chloronaphthalene	420			U
95-57-8	2-Chlorophenol	420			U
7005-72-3	4-Chlorophenyl phenyl ether	420			U
218-01-9	Chrysene	420			U
2303-16-4	Diallate	840			U
53-70-3	Dibenz(a,h)anthracene	420			U
132-64-9	Dibenzofuran	420			U

Date: 11/30/00

An initial calibration RRF fell below the 0.05 quality control limit for isobutyl alcohol on 7/14/00, on instrument A3UX9. Only nondetected results were reported for isobutyl alcohol and these were rejected (UR) in the affected samples.

An initial calibration %RSD exceeded the 30% (but < 50%) quality control limit for bromomethane on 7/14/00, on instrument A3UX9. Only nondetected results were reported for bromomethane, which do not require qualification based on this calibration noncompliance.

A continuing calibration verification RRF fell below the 0.05 quality control limit for isobutyl alcohol on 7/15/00, 09:14, on instrument A3UX9. Only nondetected results were reported for isobutyl alcohol and these were rejected (UR) in the affected samples.

Initial calibration RRFs fell below the 0.05 quality control limit for acrolein, acrylonitrile, acetonitrile, propionitrile and isobutyl alcohol on 7/12/00, on instrument A3I503. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for propionitrile on 7/12/00, 18:46, on instrument A3I503. Only nondetected results were reported for propionitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein, acetonitrile and acrylonitrile on 7/14/00, 08:25, on instrument A3I503. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for propionitrile and isobutyl alcohol on 7/14/00, 08:53, on instrument A3I503. Only nondetected results were reported for propionitrile and isobutyl alcohol and these were rejected (UR) in the affected samples.

Initial calibration RRFs fell below the 0.05 quality control limit for acrolein, acetonitrile, propionitrile, and isobutyl alcohol on 6/23/00, on instrument A3UX8A. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and acetonitrile on 7/14/00, 20:39, on instrument A3UX8A. Only nondetected results were reported for acrolein and acetonitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for acetone, 2-butanone, methyl-tert-butyl-ether (MTBE), chloromethane and dichlorodifluoromethane on 7/14/00, 20:39, on instrument A3UX8A. The positive results reported for acetone and 2-butanone were previously qualified for blank contamination and did not require further qualification. Only nondetected results were reported for methyl-tert-butyl-ether (MTBE), chloromethane and dichlorodifluoromethane and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for isobutyl alcohol on 7/14/00, 21:00, on instrument A3UX8A. In sample MPT-G4-SU-28-05, the nondetected result that was reported for isobutyl alcohol was rejected (UR).

Date: 11/30/00

SVOA

Due to sample matrix effects, the following samples were analyzed at dilutions:

MPT-G4-SU-26-05	10X	MPT-G4-SU-28-05	10X
MPT-G4-SU-31-08	2.5X	MPT-G4-SU-34-05	5X
MPT-G4-SU-DU02	10X		

Samples MPT-G4-SU-18-08 and MPT-G4-SU-21-07 were re-analyzed out of hold time due to low base / neutral and acid surrogate recoveries. Data from the re-analysis was used for these samples. In samples MPT-G4-SU-18-08 and MPT-G4-SU-21-07, Only nondetected results were reported for all analytes and these were qualified as estimated (UJ).

An initial calibration RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/17/00, on instrument A4HP9. Only nondetected results were reported for nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Initial calibration % RSDs exceeded the 30% (and >50%) quality control limit for 2-acetylaminofluorene and p-phenylamine diamine on 7/17/00, on instrument A4HP9. Only nondetected results were reported for 2-acetylaminofluorene and p-phenylamine diamine and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification %D exceeded the 25% quality control limit for bis(2-chloroethyl)ether on 7/21/00, 07:41, on instrument A4HP9. Only nondetected results were reported for bis(2-chloroethyl)ether and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/21/00, 08:18, on instrument A4HP9. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit 4-nitroquinoline-1-oxide, 1,4-dioxane, 3-methylphenol, diallate, o-toluidine, n-nitrosopyrrolidine, n-nitrosomorpholine and pentachloronitrobenzene on 7/21/00, 08:18, on instrument A4HP9. Only nondetected results were reported 1,4-dioxane, 3-methylphenol, diallate, o-toluidine, n-nitrosopyrrolidine, n-nitrosomorpholine and pentachloronitrobenzene and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected result reported for 4-nitroquinoline-1-oxide was previously qualified for the RRF noncompliance above and did not require further qualification.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/24/00, 09:28, on instrument A4HP9. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 1,4-dioxane, diallate, n-nitrosomorpholine and pentachloronitrobenzene on 7/24/00, 09:28, on instrument A4HP9. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

Date: 11/30/00

A continuing calibration verification %D exceeded the 25% quality control limit for pyridine on 7/25/00, 08:57, on instrument A4HP9. Only nondetected results were reported for pyridine and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/25/00, 09:34, on instrument A4HP9. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for diallate, o-toluidine, n-nitrosomorpholine, chlorobenzilate and pentachloronitrobenzene on 7/25/00, 09:34, on instrument A4HP9. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

An initial calibration % RSD exceeded the 30% (but<50%) quality control limit for 4-nitroquinoline-1-oxide on 7/18/00, on instrument A4HP7. Only nondetected results were reported for 4-nitroquinoline-1-oxide, which do not require qualification based on this calibration noncompliance.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on 7/19/00, 15:20, on instrument A4HP7. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 4-nitroquinoline-1-oxide, a,a-dimethyl-phenethylamine, methapyrilene and pentachloronitrobenzene on 7/19/00, 15:20, on instrument A4HP7. Only nondetected results were reported for a,a-dimethyl-phenethylamine, methapyrilene and pentachloronitrobenzene and these were qualified as estimated (UJ) in the affected samples. The nondetected result for 4-nitroquinoline-1-oxide was previously qualified for the RRF noncompliance above and did not require further qualification.

A continuing calibration %D exceeded the 25% quality control limit for 2,4-dinitrophenol on 7/19/00, 15:56, on instrument A4HP7. Only nondetected results were reported for 2,4-dinitrophenol and these were qualified as estimated (UJ) in the affected samples.

An initial calibration % RSD exceeded the 30% (but<50%) quality control limit for p-phenylenediamine, Dinoseb and 4-nitroquinoline-1-oxide on 7/8/00, on instrument A4HP6. Only nondetected results were reported for the aforementioned compounds, which do not require qualification based on this calibration noncompliance.

A continuing calibration %D exceeded the 25% quality control limit for benzo(G,H,I)perylene on 7/14/00, 09:14, on instrument A4HP6. The nondetected result reported for benzo(G,H,I)perylene was qualified as estimated (UJ) in sample MPT-G4-SU-19-10. The positive results reported for benzo(G,H,I)perylene were qualified as estimated (J) in samples MPT-G4-SU-20-10, MPT-G4-SU-22-08 and MPT-G4-SU-23-08.

A continuing calibration %D exceeded the 25% quality control limit for 7,12-dimethylbenz(A)anthracene on 7/14/00, 09:50, on instrument A4HP6. Only nondetected results were reported for 7,12-dimethylbenz(A)anthracene and these were qualified as estimated (UJ) in the affected samples.

Percent recovery of one acid fraction surrogate fell below quality control criteria. No qualifiers were required based on this noncompliance.

Date: 11/30/00

Additional Comments

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

It should be noted that according to the laboratory statement of work (SOW) both the volatile and semivolatile fraction both were to contain 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Since this would create data management problems, the laboratory reported these compounds in the semivolatile fraction only. It was not necessary to qualify any data based on this issue.

The analytical SOW listed pentachloroethane to be analyzed and reported as a volatile compound but the laboratory analyzed and reported this compound as a semivolatile compound. It was not necessary to qualify any data based on this issue.

The laboratory reported allyl chloride, which according to the analytical SOW was not a required volatile target compound. Because allyl chloride is an Appendix IX compound it was determined that this compound should remain in the database.

The laboratory reported Dinoseb, a,a-dimethylphenethylamine, chlorobenzilate, diallate, and N-nitrosopiperidine, which according to the analytical SOW are not required semivolatile target compounds. Because the aforementioned are Appendix IX compounds it was determined that these compounds should remain in the database.

The laboratory did not report hexachlorophene as requested in the analytical SOW. This compound is unstable and could not be analyzed.

EXECUTIVE SUMMARY

Laboratory Performance Issues: On instrument A3UX9, Laboratory Control Sample (LCS) % recoveries of 4-methyl-2-pentanone, chloroethane, acetone, 2-hexanone, styrene, chloroethane and carbon disulfide were outside quality control limits. No qualifiers were assigned on this basis.

LCS % recoveries of acetone, chloroethane, vinyl chloride, carbon disulfide, 4-methyl-2-pentanone, 2-butanone and 2-hexanone were outside quality control limits on instrument A3I503. No qualifiers were assigned on this basis.

LCS % recoveries of acetone and 2-butanone, chloroethane and carbon disulfide were outside quality control limits on instrument A3UX8A. No qualifiers were required on this basis.

Several volatile and semivolatile compounds did not meet initial and continuing calibration acceptance criteria.

Other Factors Affecting Data Quality: For sample MPT-G4-SU-27-07, % recovery of one acid fraction surrogate fell below quality control criteria.

Memo TO: T. Hansen – Page 7

Date: 11/30/00

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator



TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

FIELD DUPLICATES MP015					
FRACTION	COMPOUND	MPT-G4-SU-28-05	MPT-G4-SU-DU02	RPD	
		RESULT (ug/kg)	RESULT (ug/kg)		
Volatile					
	2-butanone	760 J	860 J	-12.3	
	acetone	610 J	230 J	90.5	
	methylene chloride	ND	140 J	NC	
Semivolatile					
	2-methylnaphthalene	ND	440 J	NC	
	anthracene	ND	1100 J	NC	
	bis(2-ethylhexyl)phthalate	1 J	12 J	-169.2	
	phenanthrene	2200 J	4100	-60.3	
	pyrene	1900 J	3000 J	-44.9	
ND - Compound not detected.					
NC - RPD not calculated.					

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,1,1-TRICHLOROETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,1,2,2-TETRACHLOROETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,1,2-TRICHLOROETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,1-DICHLOROETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,1-DICHLOROETHENE	6.2	U		6	U		5.7	U		5.9	U	
1,2,3-TRICHLOROPROPANE	6.2	U		6	U		5.7	U		5.9	U	
1,2-DIBROMO-3-CHLOROPROPANE	12	U		12	U		11	U		12	U	
1,2-DIBROMOETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,2-DICHLOROETHANE	6.2	U		6	U		5.7	U		5.9	U	
1,2-DICHLOROETHENE (TOTAL)	6.2	U		6	U		5.7	U		5.9	U	
1,2-DICHLOROPROPANE	6.2	U		6	U		5.7	U		5.9	U	
2-BUTANONE	25	U		24	U		23	U		24	U	
2-CHLOROETHYL VINYL ETHER	62	U		60	U		57	U		59	U	
2-HEXANONE	25	U		24	U		23	U		24	U	
4-METHYL-2-PENTANONE	25	U		24	U		23	U		24	U	
ACETONE	25	U		24	U		23	U		24	U	
ACETONITRILE	120	UR	C	120	UR	C	110	UR	C	120	UR	C
ACROLEIN	120	UR	C	120	UR	C	110	UR	C	120	UR	C
ACRYLONITRILE	120	U		120	U		110	U		120	U	
ALLYL CHLORIDE	12	U		12	U		11	U		12	U	
BENZENE	6.2	U		6	U		5.7	U		5.9	U	
BROMODICHLOROMETHANE	6.2	U		6	U		5.7	U		5.9	U	
BROMOFORM	6.2	U		6	U		5.7	U		5.9	U	
BROMOMETHANE	12	U		12	U		11	U		12	U	
CARBON DISULFIDE	6.2	U		6	U		5.7	U		5.9	U	
CARBON TETRACHLORIDE	6.2	U		6	U		5.7	U		5.9	U	
CHLOROBENZENE	6.2	U		6	U		5.7	U		5.9	U	
CHLOROETHANE	12	U		12	U		11	U		12	U	
CHLOROFORM	6.2	U		6	U		5.7	U		5.9	U	
CHLOROMETHANE	12	U		12	U		11	U		12	U	
CHLOROPRENE	6.2	U		6	U		5.7	U		5.9	U	
CIS-1,2-DICHLOROETHENE	3.1	U		3	U		2.8	U		2.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	6.2	U		6	U		5.7	U		5.9	U	
DIBROMOCHLOROMETHANE	6.2	U		6	U		5.7	U		5.9	U	
DIBROMOMETHANE	6.2	U		6	U		5.7	U		5.9	U	
DICHLORODIFLUOROMETHANE	12	U		12	U		11	U		12	U	
ETHYL METHACRYLATE	6.2	U		6	U		5.7	U		5.9	U	
ETHYLBENZENE	6.2	U		6	U		5.7	U		5.9	U	
IODOMETHANE	6.2	U		6	U		5.7	U		5.9	U	
ISOBUTYL ALCOHOL	250	UR	C	240	UR	C	230	UR	C	240	UR	C
METHACRYLONITRILE	6.2	UJ	C	6	UJ	C	5.7	UJ	C	5.9	UJ	C
METHYL METHACRYLATE	6.2	UJ	C	6	UJ	C	5.7	UJ	C	5.9	UJ	C
METHYL TERT-BUTYL ETHER	25	U		24	U		23	U		24	U	
METHYLENE CHLORIDE	6.2	U		6	U		5.7	U		5.9	U	
PROPIONITRILE	25	UR	C	24	UR	C	23	UR	C	24	UR	C
STYRENE	6.2	U		6	U		5.7	U		5.9	U	
TETRACHLOROETHENE	6.2	U		6	U		5.7	U		5.9	U	
TOLUENE	6.2	U		6	U		5.7	U		5.9	U	
TRANS-1,2-DICHLOROETHENE	3.1	U		3	U		2.8	U		2.9	U	
TRANS-1,3-DICHLOROPROPENE	6.2	U		6	U		5.7	U		5.9	U	
TRANS-1,4-DICHLORO-2-BUTENE	6.2	U		6	U		5.7	U		5.9	U	
TRICHLOROETHENE	6.2	U		6	U		5.7	U		5.9	U	
TRICHLOROFLUOROMETHANE	12	U		12	U		11	U		12	U	
VINYL ACETATE	12	U		12	U		11	U		12	U	
VINYL CHLORIDE	12	U		12	U		11	U		12	U	
XYLENES, TOTAL	6.2	U		6	U		5.7	U		5.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	82.0 %	91.6 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,1,1-TRICHLOROETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,1,2,2-TETRACHLOROETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,1,2-TRICHLOROETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,1-DICHLOROETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,1-DICHLOROETHENE	5.9	U		5.8	U		6.4	U		4.9	U	
1,2,3-TRICHLOROPROPANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,2-DIBROMO-3-CHLOROPROPANE	12	U		12	U		13	U		9.8	U	
1,2-DIBROMOETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,2-DICHLOROETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
1,2-DICHLOROETHENE (TOTAL)	5.9	U		5.8	U		6.4	U		4.9	U	
1,2-DICHLOROPROPANE	5.9	U		5.8	U		6.4	U		4.9	U	
2-BUTANONE	24	U		23	U		25	U		20	U	
2-CHLOROETHYL VINYL ETHER	59	U		58	U		64	U		49	U	
2-HEXANONE	24	U		23	U		25	U		20	U	
4-METHYL-2-PENTANONE	24	U		23	U		25	U		20	U	
ACETONE	24	U		23	U		25	U	A	20	U	
ACETONITRILE	120	UR	C	120	UR	C	130	U		98	U	
ACROLEIN	120	UR	C	120	UR	C	130	UR	C	98	UR	C
ACRYLONITRILE	120	U		120	U		130	U		98	U	
ALLYL CHLORIDE	12	U		12	U		13	U		9.8	U	
BENZENE	5.9	U		5.8	U		6.4	U		4.9	U	
BROMODICHLOROMETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
BROMOFORM	5.9	U		5.8	U		6.4	U		4.9	U	
BROMOMETHANE	12	U		12	U		13	U		9.8	U	
CARBON DISULFIDE	5.9	U		5.8	U		6.4	U		4.9	U	
CARBON TETRACHLORIDE	5.9	U		5.8	U		6.4	U		4.9	U	
CHLOROBENZENE	5.9	U		5.8	U		6.4	U		4.9	U	
CHLOROETHANE	12	U		12	U		13	U		9.8	U	
CHLOROFORM	5.9	U		5.8	U		6.4	U		4.9	U	
CHLOROMETHANE	12	U		12	U		13	U		9.8	U	
CHLOROPRENE	5.9	U		5.8	U		6.4	U		4.9	U	
CIS-1,2-DICHLOROETHENE	3	U		2.9	U		3.2	U		2.5	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	82.0 %	91.6 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.9	U		5.8	U		6.4	U		4.9	U	
DIBROMOCHLOROMETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
DIBROMOMETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
DICHLORODIFLUOROMETHANE	12	U		12	U		13	U		9.8	U	
ETHYL METHACRYLATE	5.9	U		5.8	U		6.4	U		4.9	U	
ETHYLBENZENE	5.9	U		5.8	U		6.4	U		4.9	U	
IODOMETHANE	5.9	U		5.8	U		6.4	U		4.9	U	
ISOBUTYL ALCOHOL	240	UR	C	230	UR	C	250	UR	C	200	UR	C
METHACRYLONITRILE	5.9	UJ	C	5.8	UJ	C	6.4	U		4.9	U	
METHYL METHACRYLATE	5.9	UJ	C	5.8	UJ	C	6.4	U		4.9	U	
METHYL TERT-BUTYL ETHER	24	U		23	U		25	U		20	U	
METHYLENE CHLORIDE	5.9	U		5.8	U		6.4	U	A	4.9	U	A
PROPIONITRILE	24	UR	C	23	UR	C	25	UJ	C	20	UJ	C
STYRENE	5.9	U		5.8	U		6.4	U		4.9	U	
TETRACHLOROETHENE	5.9	U		5.8	U		6.4	U		4.9	U	
TOLUENE	5.9	U		5.8	U		6.4	U		4.9	U	
TRANS-1,2-DICHLOROETHENE	3	U		2.9	U		3.2	U		2.5	U	
TRANS-1,3-DICHLOROPROPENE	5.9	U		5.8	U		6.4	U		4.9	U	
TRANS-1,4-DICHLORO-2-BUTENE	5.9	U		5.8	U		6.4	U		4.9	U	
TRICHLOROETHENE	5.9	U		5.8	U		6.4	U		4.9	U	
TRICHLOROFUOROMETHANE	12	U		12	U		13	U		9.8	U	
VINYL ACETATE	12	U		12	U		13	U		9.8	U	
VINYL CHLORIDE	12	U		12	U		13	U		9.8	U	
XYLENES, TOTAL	5.9	U		5.8	U		6.4	U		4.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	290	U		5.5	U		270	U		5.8	U	
1,1,1-TRICHLOROETHANE	290	U		5.5	U		270	U		5.8	U	
1,1,2,2-TETRACHLOROETHANE	290	U		5.5	U		270	U		5.8	U	
1,1,2-TRICHLOROETHANE	290	U		5.5	U		270	U		5.8	U	
1,1-DICHLOROETHANE	290	U		5.5	U		270	U		5.8	U	
1,1-DICHLOROETHENE	290	U		5.5	U		270	U		5.8	U	
1,2,3-TRICHLOROPROPANE	290	U		5.5	U		270	U		5.8	U	
1,2-DIBROMO-3-CHLOROPROPANE	570	U		11	U		540	U		12	U	
1,2-DIBROMOETHANE	290	U		5.5	U		270	U		5.8	U	
1,2-DICHLOROETHANE	290	U		5.5	U		270	U		5.8	U	
1,2-DICHLOROETHENE (TOTAL)	290	U		5.5	U		270	U		5.8	U	
1,2-DICHLOROPROPANE	290	U		5.5	U		270	U		5.8	U	
2-BUTANONE	1100	U	A	22	U		1100	U	A	23	U	
2-CHLOROETHYL VINYL ETHER	2900	U		55	U		2700	U		58	U	
2-HEXANONE	1100	U		22	U		1100	U		23	U	
4-METHYL-2-PENTANONE	1100	U		22	U		1100	U		23	U	
ACETONE	1100	U	A	22	U	A	1100	U	A	23	U	A
ACETONITRILE	5700	UR	C	110	U		5400	UR	C	120	U	
ACROLEIN	5700	UR	C	110	UR	C	5400	UR	C	120	UR	C
ACRYLONITRILE	5700	UR	C	110	U		5400	U		120	U	
ALLYL CHLORIDE	570	U		11	U		540	U		12	U	
BENZENE	290	U		5.5	U		270	U		5.8	U	
BROMODICHLOROMETHANE	290	U		5.5	U		270	U		5.8	U	
BROMOFORM	290	U		5.5	U		270	U		5.8	U	
BROMOMETHANE	570	U		11	U		540	U		12	U	
CARBON DISULFIDE	290	U		5.5	U		270	U		5.8	U	
CARBON TETRACHLORIDE	290	U		5.5	U		270	U		5.8	U	
CHLOROBENZENE	290	U		5.5	U		270	U		5.8	U	
CHLOROETHANE	570	U		11	U		540	U		12	U	
CHLOROFORM	290	U		5.5	U		270	U		5.8	U	
CHLOROMETHANE	570	U		11	U		540	UJ	C	12	U	
CHLOROPRENE	290	U		5.5	U		270	U		5.8	U	
CIS-1,2-DICHLOROETHENE	140	U		2.7	U		130	U		2.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	290	U		5.5	U		270	U		5.8	U	
DIBROMOCHLOROMETHANE	290	U		5.5	U		270	U		5.8	U	
DIBROMOMETHANE	290	U		5.5	U		270	U		5.8	U	
DICHLORODIFLUOROMETHANE	570	U		11	U		540	UJ	C	12	U	
ETHYL METHACRYLATE	290	U		5.5	U		270	U		5.8	U	
ETHYLBENZENE	290	U		5.5	U		270	U		5.8	U	
IODOMETHANE	290	U		5.5	U		270	U		5.8	U	
ISOBUTYL ALCOHOL	11000	UR	C	220	UR	C	11000	UR	C	230	UR	C
METHACRYLONITRILE	290	U		5.5	U		270	U		5.8	U	
METHYL METHACRYLATE	290	U		5.5	U		270	U		5.8	U	
METHYL TERT-BUTYL ETHER	1100	U		22	U		1100	UJ	C	23	U	
METHYLENE CHLORIDE	290	U	A	5.5	U	A	270	U		5.8	U	A
PROPIONITRILE	1100	UR	C	22	UJ	C	1100	UR	C	23	UJ	C
STYRENE	290	U		5.5	U		270	U		5.8	U	
TETRACHLOROETHENE	290	U		5.5	U		270	U		5.8	U	
TOLUENE	290	U		5.5	U		270	U		5.8	U	
TRANS-1,2-DICHLOROETHENE	140	U		2.7	U		130	U		2.9	U	
TRANS-1,3-DICHLOROPROPENE	290	U		5.5	U		270	U		5.8	U	
TRANS-1,4-DICHLORO-2-BUTENE	290	U		5.5	U		270	U		5.8	U	
TRICHLOROETHENE	290	U		5.5	U		270	U		5.8	U	
TRICHLOROFLUOROMETHANE	570	U		11	U		540	U		12	U	
VINYL ACETATE	570	U		11	U		540	U		12	U	
VINYL CHLORIDE	570	U		11	U		540	U		12	U	
XYLENES, TOTAL	290	U		5.5	U		270	U		5.8	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,1,1-TRICHLOROETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,1,2,2-TETRACHLOROETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,1,2-TRICHLOROETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,1-DICHLOROETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,1-DICHLOROETHENE	5.9	U		310	U		6.3	U		5.8	U	
1,2,3-TRICHLOROPROPANE	5.9	U		310	U		6.3	U		5.8	U	
1,2-DIBROMO-3-CHLOROPROPANE	12	U		620	U		13	U		12	U	
1,2-DIBROMOETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,2-DICHLOROETHANE	5.9	U		310	U		6.3	U		5.8	U	
1,2-DICHLOROETHENE (TOTAL)	5.9	U		310	U		6.3	U		5.8	U	
1,2-DICHLOROPROPANE	5.9	U		310	U		6.3	U		5.8	U	
2-BUTANONE	24	U		1200	U	A	25	U		23	U	
2-CHLOROETHYL VINYL ETHER	59	U		3100	U		63	U		58	U	
2-HEXANONE	24	U		1200	U		25	U		23	U	
4-METHYL-2-PENTANONE	24	U		1200	U		25	U		23	U	
ACETONE	24	U	A	1200	U		25	U	A	23	U	
ACETONITRILE	120	U		6200	UR	C	130	U		120	U	
ACROLEIN	120	UR	C	6200	UR	C	130	UR	C	120	UR	C
ACRYLONITRILE	120	U		6200	UR	C	130	U		120	U	
ALLYL CHLORIDE	12	U		620	U		13	U		12	U	
BENZENE	5.9	U		310	U		6.3	U		5.8	U	
BROMODICHLOROMETHANE	5.9	U		310	U		6.3	U		5.8	U	
BROMOFORM	5.9	U		310	U		6.3	U		5.8	U	
BROMOMETHANE	12	U		620	U		13	U		12	U	
CARBON DISULFIDE	5.9	U		310	U		6.3	U		5.8	U	
CARBON TETRACHLORIDE	5.9	U		310	U		6.3	U		5.8	U	
CHLOROBENZENE	5.9	U		310	U		6.3	U		5.8	U	
CHLOROETHANE	12	U		620	U		13	U		12	U	
CHLOROFORM	5.9	U		310	U		6.3	U		5.8	U	
CHLOROMETHANE	12	U		620	U		13	U		12	U	
CHLOROPRENE	5.9	U		310	U		6.3	U		5.8	U	
CIS-1,2-DICHLOROETHENE	3	U		150	U		3.2	U		2.9	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.9	U		310	U		6.3	U		5.8	U	
DIBROMOCHLOROMETHANE	5.9	U		310	U		6.3	U		5.8	U	
DIBROMOMETHANE	5.9	U		310	U		6.3	U		5.8	U	
DICHLORODIFLUOROMETHANE	12	U		620	U		13	U		12	U	
ETHYL METHACRYLATE	5.9	U		310	U		6.3	U		5.8	U	
ETHYLBENZENE	5.9	U		310	U		6.3	U		5.8	U	
IODOMETHANE	5.9	U		310	U		6.3	U		5.8	U	
ISOBUTYL ALCOHOL	240	UR	C	12000	UR	C	250	UR	C	230	UR	C
METHACRYLONITRILE	5.9	U		310	U		6.3	U		5.8	U	
METHYL METHACRYLATE	5.9	U		310	U		6.3	U		5.8	U	
METHYL TERT-BUTYL ETHER	24	U		1200	U		25	U		23	U	
METHYLENE CHLORIDE	5.9	U	A	310	U	A	6.3	U	A	5.8	U	A
PROPIONITRILE	24	UJ	C	1200	UR	C	25	UJ	C	23	UJ	C
STYRENE	5.9	U		310	U		6.3	U		5.8	U	
TETRACHLOROETHENE	5.9	U		310	U	A	6.3	U		5.8	U	
TOLUENE	5.9	U		310	U		6.3	U		5.8	U	
TRANS-1,2-DICHLOROETHENE	3	U		150	U		3.2	U		2.9	U	
TRANS-1,3-DICHLOROPROPENE	5.9	U		310	U		6.3	U		5.8	U	
TRANS-1,4-DICHLORO-2-BUTENE	5.9	U		310	U		6.3	U		5.8	U	
TRICHLOROETHENE	5.9	U		310	U		6.3	U		5.8	U	
TRICHLOROFLUOROMETHANE	12	U		620	U		13	U		12	U	
VINYL ACETATE	12	U		620	U		13	U		12	U	
VINYL CHLORIDE	12	U		620	U		13	U		12	U	
XYLENES, TOTAL	5.9	U		310	U		6.3	U		5.8	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	89.0 %	85.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	280	U		5.6	U		6.1	U		260	U	
1,1,1-TRICHLOROETHANE	280	U		5.6	U		6.1	U		260	U	
1,1,2,2-TETRACHLOROETHANE	280	U		5.6	U		6.1	U		260	U	
1,1,2-TRICHLOROETHANE	280	U		5.6	U		6.1	U		260	U	
1,1-DICHLOROETHANE	280	U		5.6	U		6.1	U		260	U	
1,1-DICHLOROETHENE	280	U		5.6	U		6.1	U		260	U	
1,2,3-TRICHLOROPROPANE	280	U		5.6	U		6.1	U		260	U	
1,2-DIBROMO-3-CHLOROPROPANE	550	U		11	U		12	U		520	U	
1,2-DIBROMOETHANE	280	U		5.6	U		6.1	U		260	U	
1,2-DICHLOROETHANE	280	U		5.6	U		6.1	U		260	U	
1,2-DICHLOROETHENE (TOTAL)	280	U		5.6	U		6.1	U		260	U	
1,2-DICHLOROPROPANE	280	U		5.6	U		6.1	U		260	U	
2-BUTANONE	1100	U	A	22	U		24	U		1000	U	A
2-CHLOROETHYL VINYL ETHER	2800	U		56	U		61	U		2600	U	
2-HEXANONE	1100	U		22	U		24	U		1000	U	
4-METHYL-2-PENTANONE	1100	U		22	U		24	U		1000	U	
ACETONE	1100	U	A	22	U		24	U	A	1000	U	A
ACETONITRILE	5500	UR	C	110	UR	C	120	U		5200	UR	C
ACROLEIN	5500	UR	C	110	UR	C	120	U		5200	UR	C
ACRYLONITRILE	5500	UR	C	110	UR	C	120	U		5200	UR	C
ALLYL CHLORIDE	550	U		11	U		12	U		520	U	
BENZENE	280	U		5.6	U		6.1	U		260	U	
BROMODICHLOROMETHANE	280	U		5.6	U		6.1	U		260	U	
BROMOFORM	280	U		5.6	U		6.1	U		260	U	
BROMOMETHANE	550	U		11	U		12	U		520	U	
CARBON DISULFIDE	280	U		5.6	U		6.1	U		260	U	
CARBON TETRACHLORIDE	280	U		5.6	U		6.1	U		260	U	
CHLOROBENZENE	280	U		5.6	U		6.1	U		260	U	
CHLOROETHANE	550	U		11	U		12	U		520	U	
CHLOROFORM	280	U		5.6	U		6.1	U		260	U	
CHLOROMETHANE	550	U		11	U		12	U		520	U	
CHLOROPRENE	280	U		5.6	U		6.1	U		260	U	
CIS-1,2-DICHLOROETHENE	140	U		2.8	U		3	U		130	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	89.0 %	85.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	280	U		5.6	U		6.1	U		260	U	
DIBROMOCHLOROMETHANE	280	U		5.6	U		6.1	U		260	U	
DIBROMOMETHANE	280	U		5.6	U		6.1	U		260	U	
DICHLORODIFLUOROMETHANE	550	U		11	U		12	U		520	U	
ETHYL METHACRYLATE	280	U		5.6	U		6.1	U		260	U	
ETHYLBENZENE	280	U		5.6	U		6.1	U		260	U	
IODOMETHANE	280	U		5.6	U		6.1	U		260	U	
ISOBUTYL ALCOHOL	11000	UR	C	220	UR	C	240	UR	C	10000	UR	C
METHACRYLONITRILE	280	U		5.6	U		6.1	U		260	U	
METHYL METHACRYLATE	280	U		5.6	U		6.1	U		260	U	
METHYL TERT-BUTYL ETHER	1100	U		22	U		24	U		1000	U	
METHYLENE CHLORIDE	280	U	A	5.6	U	A	6.1	U		260	U	A
PROPIONITRILE	1100	UR	C	22	UR	C	24	U		1000	UR	C
STYRENE	280	U		5.6	U		6.1	U		260	U	
TETRACHLOROETHENE	280	U		5.6	U		6.1	U		260	U	
TOLUENE	280	U		5.6	U		6.1	U		260	U	
TRANS-1,2-DICHLOROETHENE	140	U		2.8	U		3	U		130	U	
TRANS-1,3-DICHLOROPROPENE	280	U		5.6	U		6.1	U		260	U	
TRANS-1,4-DICHLORO-2-BUTENE	280	U		5.6	U		6.1	U		260	U	
TRICHLOROETHENE	280	U		5.6	U		6.1	U		260	U	
TRICHLOROFLUOROMETHANE	550	U		11	U		12	U		520	U	
VINYL ACETATE	550	U		11	U		12	U		520	U	
VINYL CHLORIDE	550	U		11	U		12	U		520	U	
XYLENES, TOTAL	280	U		5.6	U		6.1	U		260	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
1,2,4-TRICHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
1,2-DICHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
1,3,5-TRINITROBENZENE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
1,3-DICHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
1,3-DINITROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
1,4-DICHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
1,4-DIOXANE	420	UJ	H	380	U		380	U		400	UJ	H
1,4-NAPHTHOQUINONE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
1-NAPHTHYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
2,2'-OXYBIS(1-CHLOROPROPANE)	420	UJ	H	380	U		380	U		400	UJ	H
2,3,4,6-TETRACHLOROPHENOL	2000	UJ	H	1900	U		1900	U		1900	UJ	H
2,4,5-TRICHLOROPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2,4,6-TRICHLOROPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2,4-DICHLOROPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2,4-DIMETHYLPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2,4-DINITROPHENOL	2000	UJ	HC	1900	U		1900	U		1900	UJ	HC
2,4-DINITROTOLUENE	420	UJ	H	380	U		380	U		400	UJ	H
2,6-DICHLOROPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2,6-DINITROTOLUENE	420	UJ	H	380	U		380	U		400	UJ	H
2-ACETYLAMINOFUORENE	4200	UJ	H	3800	U		3800	U		4000	UJ	H
2-CHLORONAPHTHALENE	420	UJ	H	380	U		380	U		400	UJ	H
2-CHLOROPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2-METHYLNAPHTHALENE	420	UJ	H	380	U		380	U		400	UJ	H
2-METHYLPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2-NAPHTHYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
2-NITROANILINE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
2-NITROPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
2-PICOLINE	840	UJ	H	760	U		770	U		790	UJ	H
3,3'-DICHLOROBENZIDINE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
3,3'-DIMETHYLBENZIDINE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
3-METHYLCHOLANTHRENE	840	UJ	H	760	U		770	U		790	UJ	H
3-METHYLPHENOL	420	UJ	H	380	U		380	U		400	UJ	H

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
4,6-DINITRO-2-METHYLPHENOL	2000	UJ	H	1900	U		1900	U		1900	UJ	H
4-AMINOBIHENYL	2000	UJ	H	1900	U		1900	U		1900	UJ	H
4-BROMOPHENYL PHENYL ETHER	420	UJ	H	380	U		380	U		400	UJ	H
4-CHLORO-3-METHYLPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
4-CHLOROANILINE	420	UJ	H	380	U		380	U		400	UJ	H
4-CHLOROPHENYL PHENYL ETHER	420	UJ	H	380	U		380	U		400	UJ	H
4-METHYLPHENOL	420	UJ	H	380	U		380	U		400	UJ	H
4-NITROANILINE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
4-NITROPHENOL	2000	UJ	H	1900	U		1900	U		1900	UJ	H
4-NITROQUINOLINE-1-OXIDE	4200	UR	C	3800	U		3800	U		4000	UR	CH
5-NITRO-O-TOLUIDINE	840	UJ	H	760	U		770	U		790	UJ	H
7,12-DIMETHYLBENZ(A)ANTHRACENE	840	UJ	H	760	UJ	C	770	UJ	C	790	UJ	H
A,A-DIMETHYLPHENETHYLAMINE	2000	UJ	HC	1900	U		1900	U		1900	UJ	CH
ACENAPHTHENE	420	UJ	H	380	U		380	U		400	UJ	H
ACENAPHTHYLENE	420	UJ	H	380	U		380	U		400	UJ	H
ACETOPHENONE	420	UJ	H	380	U		380	U		400	UJ	H
ANILINE	420	UJ	H	380	U		380	U		400	UJ	H
ANTHRACENE	420	UJ	H	380	U		380	U		400	UJ	H
ARAMITE	840	UJ	H	760	U		770	U		790	UJ	H
BENZO(A)ANTHRACENE	420	UJ	H	380	U		970			400	UJ	H
BENZO(A)PYRENE	420	UJ	H	380	U		790			400	UJ	H
BENZO(B)FLUORANTHENE	420	UJ	H	380	U		1200			400	UJ	H
BENZO(G,H,I)PERYLENE	420	UJ	H	380	UJ	C	270	J	CP	400	UJ	H
BENZO(K)FLUORANTHENE	420	UJ	H	380	U		450			400	UJ	H
BENZYL ALCOHOL	420	UJ	H	380	U		380	U		400	UJ	H
BIS(2-CHLOROETHOXY)METHANE	420	UJ	H	380	U		380	U		400	UJ	H
BIS(2-CHLOROETHYL)ETHER	420	UJ	H	380	U		380	U		400	UJ	H
BIS(2-ETHYLHEXYL)PHTHALATE	420	UJ	H	380	U		380	U		400	UJ	H
BUTYLBENZYL PHTHALATE	420	UJ	H	380	U		380	U		400	UJ	H
CARBAZOLE	420	UJ	H	380	U		380	U		400	UJ	H
CHLOROBENZILATE	420	UJ	H	380	U		380	U		400	UJ	H
CHRYSENE	420	UJ	H	380	U		1100			400	UJ	H

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP015

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	420	UJ	H	380	U		380	U		400	UJ	H
DI-N-OCTYL PHTHALATE	420	UJ	H	380	U		380	U		400	UJ	H
DIALLATE	840	UJ	H	760	U		770	U		790	UJ	H
DIBENZO(A,H)ANTHRACENE	420	UJ	H	380	U		72	J	P	400	UJ	H
DIBENZOFURAN	420	UJ	H	380	U		380	U		400	UJ	H
DIETHYL PHTHALATE	420	UJ	H	380	U		380	U		400	UJ	H
DIMETHYL PHTHALATE	420	UJ	H	380	U		380	U		400	UJ	H
DINOSEB	840	UJ	H	760	U		770	U		790	UJ	H
DIPHENYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
ETHYL METHANESULFONATE	420	UJ	H	380	U		380	U		400	UJ	H
FLUORANTHENE	420	UJ	H	380	U		830			400	UJ	H
FLUORENE	420	UJ	H	380	U		380	U		400	UJ	H
HEXACHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
HEXACHLOROBUTADIENE	420	UJ	H	380	U		380	U		400	UJ	H
HEXACHLOROCYCLOPENTADIENE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
HEXACHLOROETHANE	420	UJ	H	380	U		380	U		400	UJ	H
HEXACHLOROPROPENE	4200	UJ	H	3800	U		3800	U		4000	UJ	H
INDENO(1,2,3-CD)PYRENE	420	UJ	H	380	U		340	J	P	400	UJ	H
ISOPHORONE	420	UJ	H	380	U		380	U		400	UJ	H
ISOSAFROLE	840	UJ	H	760	U		770	U		790	UJ	H
METHAPYRILENE	2000	UJ	HC	1900	U		1900	U		1900	UJ	CH
METHYL METHANESULFONATE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSO-DI-N-BUTYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSO-DI-N-PROPYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSODIETHYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSODIMETHYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSODIPHENYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSOMETHYLETHYLAMINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSOMORPHOLINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSOPIPERIDINE	420	UJ	H	380	U		380	U		400	UJ	H
N-NITROSOPIRROLIDINE	420	UJ	H	380	U		380	U		400	UJ	H
NAPHTHALENE	420	UJ	H	380	U		380	U		400	UJ	H
NITROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-18-08	MPT-G4-SU-19-10	MPT-G4-SU-20-10	MPT-G4-SU-21-07
SAMPLE DATE:	06/30/00	06/30/00	06/30/00	06/30/00
LABORATORY ID:	A0G020104001	A0G020104002	A0G020104003	A0G020104004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	78.0 %	86.0 %	86.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	840	UJ	H	760	U		770	U		790	UJ	H
P-DIMETHYLAMINOAZOBENZENE	840	UJ	H	760	U		770	U		790	UJ	H
P-PHENYLENEDIAMINE	4200	UJ	H	3800	U		3800	U		4000	UJ	H
PENTACHLOROBENZENE	420	UJ	H	380	U		380	U		400	UJ	H
PENTACHLOROETHANE	2000	UJ	H	1900	U		1900	U		1900	UJ	H
PENTACHLORONITROBENZENE	2000	UJ	HC	1900	U		1900	U		1900	UJ	CH
PENTACHLOROPHENOL	2000	UJ	H	1900	U		1900	U		1900	UJ	H
PHENACETIN	840	UJ	H	760	U		770	U		790	UJ	H
PHENANTHRENE	420	UJ	H	380	U		52	J	P	400	UJ	H
PHENOL	420	UJ	H	380	U		380	U		400	UJ	H
PRONAMIDE	840	UJ	H	760	U		770	U		790	UJ	H
PYRENE	420	UJ	H	380	U		1200			400	UJ	H
PYRIDINE	840	UJ	H	760	U		770	U		790	UJ	H
SAFROLE	840	UJ	H	760	U		770	U		790	UJ	H

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	82.0 %	91.6 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	370	U		360	U		400	U		360	U	
1,2,4-TRICHLORO BENZENE	370	U		360	U		400	U		360	U	
1,2-DICHLORO BENZENE	370	U		360	U		400	U		360	U	
1,3,5-TRINITRO BENZENE	1800	U		1700	U		2000	U		1700	U	
1,3-DICHLORO BENZENE	370	U		360	U		400	U		360	U	
1,3-DINITRO BENZENE	370	U		360	U		400	U		360	U	
1,4-DICHLORO BENZENE	370	U		360	U		400	U		360	U	
1,4-DIOXANE	370	U		360	U		400	UJ	C	360	UJ	C
1,4-NAPHTHOQUINONE	1800	U		1700	U		2000	U		1700	U	
1-NAPHTHYLAMINE	370	U		360	U		400	U		360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	370	U		360	U		400	U		360	U	
2,3,4,6-TETRACHLOROPHENOL	1800	U		1700	U		2000	U		1700	U	
2,4,5-TRICHLOROPHENOL	370	U		360	U		400	U		360	U	
2,4,6-TRICHLOROPHENOL	370	U		360	U		400	U		360	U	
2,4-DICHLOROPHENOL	370	U		360	U		400	U		360	U	
2,4-DIMETHYLPHENOL	370	U		360	U		400	U		360	U	
2,4-DINITROPHENOL	1800	U		1700	U		2000	U		1700	U	
2,4-DINITROTOLUENE	370	U		360	U		400	U		360	U	
2,6-DICHLOROPHENOL	370	U		360	U		400	U		360	U	
2,6-DINITROTOLUENE	370	U		360	U		400	U		360	U	
2-ACETYLAMINOFUORENE	3700	U		3600	U		4000	U		3600	U	
2-CHLORONAPHTHALENE	370	U		360	U		400	U		360	U	
2-CHLOROPHENOL	370	U		360	U		400	U		360	U	
2-METHYLNAPHTHALENE	370	U		360	U		400	U		360	U	
2-METHYLPHENOL	370	U		360	U		400	U		360	U	
2-NAPHTHYLAMINE	370	U		360	U		400	U		360	U	
2-NITROANILINE	1800	U		1700	U		2000	U		1700	U	
2-NITROPHENOL	370	U		360	U		400	U		360	U	
2-PICOLINE	730	U		720	U		810	U		720	U	
3,3'-DICHLOROBENZIDINE	1800	U		1700	U		2000	U		1700	U	
3,3'-DIMETHYLBENZIDINE	1800	U		1700	U		2000	U		1700	U	
3-METHYLCHOLANTHRENE	730	U		720	U		810	U		720	U	
3-METHYLPHENOL	370	U		360	U		400	UJ	C	360	UJ	C

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	82.0 %	91.6 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	1800	U		1700	U		2000	U		1700	U	
4,6-DINITRO-2-METHYLPHENOL	1800	U		1700	U		2000	U		1700	U	
4-AMINOBIPHENYL	1800	U		1700	U		2000	U		1700	U	
4-BROMOPHENYL PHENYL ETHER	370	U		360	U		400	U		360	U	
4-CHLORO-3-METHYLPHENOL	370	U		360	U		400	U		360	U	
4-CHLOROANILINE	370	U		360	U		400	U		360	U	
4-CHLOROPHENYL PHENYL ETHER	370	U		360	U		400	U		360	U	
4-METHYLPHENOL	370	U		360	U		400	U		360	U	
4-NITROANILINE	1800	U		1700	U		2000	U		1700	U	
4-NITROPHENOL	1800	U		1700	U		2000	U		1700	U	
4-NITROQUINOLINE-1-OXIDE	3700	U		3600	U		4000	UR	C	3600	UR	C
5-NITRO-O-TOLUIDINE	730	U		720	U		810	U		720	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	730	UJ	C	720	UJ	C	810	U		720	U	
A,A-DIMETHYLPHENETHYLAMINE	1800	U		1700	U		2000	U		1700	U	
ACENAPHTHENE	370	U		360	U		400	U		360	U	
ACENAPHTHYLENE	370	U		360	U		400	U		360	U	
ACETOPHENONE	370	U		360	U		400	U		360	U	
ANILINE	370	U		360	U		400	U		360	U	
ANTHRACENE	370	U		360	U		400	U		360	U	
ARAMITE	730	U		720	U		810	U		720	U	
BENZO(A)ANTHRACENE	170	J	P	220	J	P	400	U		57	J	P
BENZO(A)PYRENE	130	J	P	170	J	P	400	U		68	J	P
BENZO(B)FLUORANTHENE	210	J		270	J	P	400	U		110	J	P
BENZO(G,H,I)PERYLENE	57	J	CP	68	J	CP	400	U		360	U	
BENZO(K)FLUORANTHENE	72	J	P	92	J	P	400	U		360	U	
BENZYL ALCOHOL	370	U		360	U		400	U		360	U	
BIS(2-CHLOROETHOXY)METHANE	370	U		360	U		400	U		360	U	
BIS(2-CHLOROETHYL)ETHER	370	U		360	U		400	UJ	C	360	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	370	U		360	U		400	U		360	U	
BUTYLBENZYL PHTHALATE	370	U		360	U		400	U		360	U	
CARBAZOLE	370	U		360	U		400	U		360	U	
CHLOROBENZILATE	370	U		360	U		400	U		360	U	
CHRYSENE	180	J	P	230	J	P	400	U		61	J	P

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-SU-22-08
06/30/00
A0G020104005
NORMAL
90.0 %
UG/KG

MPT-G4-SU-23-08
06/30/00
A0G020104006
NORMAL
92.0 %
UG/KG

MPT-G4-SU-24-08
07/05/00
A0G060209001
NORMAL
82.0 %
UG/KG

MPT-G4-SU-25-05
07/05/00
A0G060209002
NORMAL
91.6 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	370	U		360	U		400	U		360	U	
DI-N-OCTYL PHTHALATE	370	U		360	U		400	U		360	U	
DIALLATE	730	U		720	U		810	UJ	C	720	UJ	C
DIBENZO(A,H)ANTHRACENE	370	U		360	U		400	U		360	U	
DIBENZOFURAN	370	U		360	U		400	U		360	U	
DIETHYL PHTHALATE	370	U		360	U		400	U		360	U	
DIMETHYL PHTHALATE	370	U		360	U		400	U		360	U	
DINOSEB	730	U		720	U		810	U		720	U	
DIPHENYLAMINE	370	U		360	U		400	U		360	U	
ETHYL METHANESULFONATE	370	U		360	U		400	U		360	U	
FLUORANTHENE	250	J	P	300	J	P	400	U		60	J	P
FLUORENE	370	U		360	U		400	U		360	U	
HEXACHLOROBENZENE	370	U		360	U		400	U		360	U	
HEXACHLOROBUTADIENE	370	U		360	U		400	U		360	U	
HEXACHLOROCYCLOPENTADIENE	1800	U		1700	U		2000	U		1700	U	
HEXACHLOROETHANE	370	U		360	U		400	U		360	U	
HEXACHLOROPROPENE	3700	U		3600	U		4000	U		3600	U	
INDENO(1,2,3-CD)PYRENE	63	J	P	79	J	P	400	U		360	U	
ISOPHORONE	370	U		360	U		400	U		360	U	
ISOSAFROLE	730	U		720	U		810	U		720	U	
METHAPYRILENE	1800	U		1700	U		2000	U		1700	U	
METHYL METHANESULFONATE	370	U		360	U		400	U		360	U	
N-NITROSO-DI-N-BUTYLAMINE	370	U		360	U		400	U		360	U	
N-NITROSO-DI-N-PROPYLAMINE	370	U		360	U		400	U		360	U	
N-NITROSODIETHYLAMINE	370	U		360	U		400	U		360	U	
N-NITROSODIMETHYLAMINE	370	U		360	U		400	U		360	U	
N-NITROSODIPHENYLAMINE	370	U		360	U		400	U		360	U	
N-NITROSOMETHYLETHYLAMINE	370	U		360	U		400	U		360	U	
N-NITROSOMORPHOLINE	370	U		360	U		400	UJ	C	360	UJ	C
N-NITROSOPIPERIDINE	370	U		360	U		400	U		360	U	
N-NITROSOPYRROLIDINE	370	U		360	U		400	UJ	C	360	UJ	C
NAPHTHALENE	370	U		360	U		400	U		360	U	
NITROBENZENE	370	U		360	U		400	U		360	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-22-08	MPT-G4-SU-23-08	MPT-G4-SU-24-08	MPT-G4-SU-25-05
SAMPLE DATE:	06/30/00	06/30/00	07/05/00	07/05/00
LABORATORY ID:	A0G020104005	A0G020104006	A0G060209001	A0G060209002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	90.0 %	92.0 %	82.0 %	91.6 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	730	U		720	U		810	UJ	C	720	UJ	C
P-DIMETHYLAMINOAZOBENZENE	730	U		720	U		810	U		720	U	
P-PHENYLENEDIAMINE	3700	U		3600	U		4000	UJ	C	3600	UJ	C
PENTACHLOROENZENE	370	U		360	U		400	U		360	U	
PENTACHLOROETHANE	1800	U		1700	U		2000	U		1700	U	
PENTACHLORONITROBENZENE	1800	U		1700	U		2000	UJ	C	1700	UJ	C
PENTACHLOROPHENOL	1800	U		1700	U		2000	U		1700	U	
PHENACETIN	730	U		720	U		810	U		720	U	
PHENANTHRENE	370	U		56	J	P	400	U		360	U	
PHENOL	370	U		360	U		400	U		360	U	
PRONAMIDE	730	U		720	U		810	U		720	U	
PYRENE	270	J	P	340	J	P	400	U		68	J	P
PYRIDINE	730	U		720	U		810	U		720	U	
SAFROLE	730	U		720	U		810	U		720	U	

CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	3600	U		400	U		4000	U		390	U	
1,2,4-TRICHLORO BENZENE	3600	U		400	U		4000	U		390	U	
1,2-DICHLORO BENZENE	3600	U		400	U		4000	U		390	U	
1,3,5-TRINITRO BENZENE	17000	U		2000	U		19000	U		1900	U	
1,3-DICHLORO BENZENE	3600	U		400	U		4000	U		390	U	
1,3-DINITRO BENZENE	3600	U		400	U		4000	U		390	U	
1,4-DICHLORO BENZENE	3600	U		400	U		4000	U		390	U	
1,4-DIOXANE	3600	UJ	C	400	U		4000	UJ	C	390	UJ	C
1,4-NAPHTHOQUINONE	17000	U		2000	U		19000	U		1900	U	
1-NAPHTHYLAMINE	3600	U		400	U		4000	U		390	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	3600	U		400	U		4000	U		390	U	
2,3,4,6-TETRACHLOROPHENOL	17000	U		2000	U		19000	U		1900	U	
2,4,5-TRICHLOROPHENOL	3600	U		400	U		4000	U		390	U	
2,4,6-TRICHLOROPHENOL	3600	U		400	U		4000	U		390	U	
2,4-DICHLOROPHENOL	3600	U		400	U		4000	U		390	U	
2,4-DIMETHYLPHENOL	3600	U		400	U		4000	U		390	U	
2,4-DINITROPHENOL	17000	U		2000	U		19000	U		1900	U	
2,4-DINITROTOLUENE	3600	U		400	U		4000	U		390	U	
2,6-DICHLOROPHENOL	3600	U		400	U		4000	U		390	U	
2,6-DINITROTOLUENE	3600	U		400	U		4000	U		390	U	
2-ACETYLAMINOFLUORENE	36000	U		4000	U		40000	U		3900	U	
2-CHLORONAPHTHALENE	3600	U		400	U		4000	U		390	U	
2-CHLOROPHENOL	3600	U		400	U		4000	U		390	U	
2-METHYLNAPHTHALENE	630	J	P	400	U		4000	U		390	U	
2-METHYLPHENOL	3600	U		400	U		4000	U		390	U	
2-NAPHTHYLAMINE	3600	U		400	U		4000	U		390	U	
2-NITROANILINE	17000	U		2000	U		19000	U		1900	U	
2-NITROPHENOL	3600	U		400	U		4000	U		390	U	
2-PICOLINE	7200	U		810	U		8000	U		780	U	
3,3'-DICHLORO BENZIDINE	17000	U		2000	U		19000	U		1900	U	
3,3'-DIMETHYLBENZIDINE	17000	U		2000	U		19000	U		1900	U	
3-METHYLCHOLANTHRENE	7200	U		810	U		8000	U		780	U	
3-METHYLPHENOL	3600	UJ	C	400	U		4000	UJ	C	390	UJ	C

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	17000	U		2000	U		19000	U		1900	U	
4,6-DINITRO-2-METHYLPHENOL	17000	U		2000	U		19000	U		1900	U	
4-AMINOBIPHENYL	17000	U		2000	U		19000	U		1900	U	
4-BROMOPHENYL PHENYL ETHER	3600	U		400	U		4000	U		390	U	
4-CHLORO-3-METHYLPHENOL	3600	U		400	U		4000	U		390	U	
4-CHLOROANILINE	3600	U		400	U		4000	U		390	U	
4-CHLOROPHENYL PHENYL ETHER	3600	U		400	U		4000	U		390	U	
4-METHYLPHENOL	3600	U		400	U		4000	U		390	U	
4-NITROANILINE	17000	U		2000	U		19000	U		1900	U	
4-NITROPHENOL	17000	U		2000	U		19000	U		1900	U	
4-NITROQUINOLINE-1-OXIDE	36000	UR	C	4000	UR	C	40000	UR	C	3900	UR	C
5-NITRO-O-TOLUIDINE	7200	U		810	U		8000	U		780	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	7200	U		810	U		8000	U		780	U	
A,A-DIMETHYLPHENETHYLAMINE	17000	U		2000	U		19000	U		1900	U	
ACENAPHTHENE	3600	U		400	U		4000	U		390	U	
ACENAPHTHYLENE	3600	U		400	U		4000	U		390	U	
ACETOPHENONE	3600	U		400	U		4000	U		390	U	
ANILINE	3600	U		400	U		4000	U		390	U	
ANTHRACENE	3600	U		80	J	P	4000	U		390	U	
ARAMITE	7200	U		810	U		8000	U		780	U	
BENZO(A)ANTHRACENE	3600	U		220	J	P	4000	U		390	U	
BENZO(A)PYRENE	3600	U		160	J	P	4000	U		390	U	
BENZO(B)FLUORANTHENE	3600	U		230	J	P	4000	U		390	U	
BENZO(G,H,I)PERYLENE	3600	U		92	J	P	4000	U		100	J	P
BENZO(K)FLUORANTHENE	3600	U		80	J	P	4000	U		390	U	
BENZYL ALCOHOL	3600	U		400	U		4000	U		390	U	
BIS(2-CHLOROETHOXY)METHANE	3600	U		400	U		4000	U		390	U	
BIS(2-CHLOROETHYL)ETHER	3600	UJ	C	400	U		4000	UJ	C	390	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	3600	U		400	U		1900	J	P	390	U	
BUTYLBENZYL PHTHALATE	3600	U		400	U		4000	U		390	U	
CARBAZOLE	3600	U		400	U		4000	U		390	U	
CHLOROBENZILATE	3600	U		400	UJ	C	4000	U		390	U	
CHRYSENE	3600	U		220	J	P	4000	U		390	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	3600	U		400	U		4000	U		390	U	
DI-N-OCTYL PHTHALATE	3600	U		400	U		4000	U		390	U	
DIALLATE	7200	UJ	C	810	UJ	C	8000	UJ	C	780	UJ	C
DIBENZO(A,H)ANTHRACENE	3600	U		400	U		4000	U		390	U	
DIBENZOFURAN	3600	U		400	U		4000	U		390	U	
DIETHYL PHTHALATE	3600	U		400	U		4000	U		390	U	
DIMETHYL PHTHALATE	3600	U		400	U		4000	U		390	U	
DINOSEB	7200	U		810	UJ	R	8000	U		780	U	
DIPHENYLAMINE	3600	U		400	U		4000	U		390	U	
ETHYL METHANESULFONATE	3600	U		400	U		4000	U		390	U	
FLUORANTHENE	3600	U		740			4000	U		390	U	
FLUORENE	3600	U		400	U		4000	U		390	U	
HEXACHLOROBENZENE	3600	U		400	U		4000	U		390	U	
HEXACHLOROBUTADIENE	3600	U		400	U		4000	U		390	U	
HEXACHLOROCYCLOPENTADIENE	17000	U		2000	U		19000	U		1900	U	
HEXACHLOROETHANE	3600	U		400	U		4000	U		390	U	
HEXACHLOROPROPENE	36000	U		4000	U		40000	U		3900	U	
INDENO(1,2,3-CD)PYRENE	3600	U		88	J	P	4000	U		64	J	P
ISOPHORONE	3600	U		400	U		4000	U		390	U	
ISOSAFROLE	7200	U		810	U		8000	U		780	U	
METHAPYRILENE	17000	U		2000	U		19000	U		1900	U	
METHYL METHANESULFONATE	3600	U		400	U		4000	U		390	U	
N-NITROSO-DI-N-BUTYLAMINE	3600	U		400	U		4000	U		390	U	
N-NITROSO-DI-N-PROPYLAMINE	3600	U		400	U		4000	U		390	U	
N-NITROSODIETHYLAMINE	3600	U		400	U		4000	U		390	U	
N-NITROSODIMETHYLAMINE	3600	U		400	U		4000	U		390	U	
N-NITROSODIPHENYLAMINE	3600	U		400	U		4000	U		390	U	
N-NITROSOMETHYLETHYLAMINE	3600	U		400	U		4000	U		390	U	
N-NITROSOMORPHOLINE	3600	UJ	C	400	UJ	C	4000	UJ	C	390	UJ	C
N-NITROSOPIPERIDINE	3600	U		400	U		4000	U		390	U	
N-NITROSOPYRROLIDINE	3600	UJ	C	400	U		4000	UJ	C	390	UJ	C
NAPHTHALENE	3600	U		400	U		4000	U		390	U	
NITROBENZENE	3600	U		400	U		4000	U		390	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-26-05	MPT-G4-SU-27-07	MPT-G4-SU-28-05	MPT-G4-SU-29-05
SAMPLE DATE:	07/05/00	07/05/00	07/06/00	07/06/00
LABORATORY ID:	A0G060209003	A0G060209004	A0G070231001	A0G070231002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	91.9 %	82.0 %	82.0 %	84.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	7200	UJ	C	810	UJ	C	8000	UJ	C	780	UJ	C
P-DIMETHYLAMINOAZOBENZENE	7200	U		810	U		8000	U		780	U	
P-PHENYLENEDIAMINE	36000	UJ	C	4000	UJ	C	40000	UJ	C	3900	UJ	C
PENTACHLOROENZENE	3600	U		400	U		4000	U		390	U	
PENTACHLOROETHANE	17000	U		2000	U		19000	U		1900	U	
PENTACHLORONITROBENZENE	17000	UJ	C	2000	UJ	C	19000	UJ	C	1900	UJ	C
PENTACHLOROPHENOL	17000	U		2000	U		19000	U		1900	U	
PHENACETIN	7200	U		810	U		8000	U		780	U	
PHENANTHRENE	3600	U		310	J	P	2200	J	P	390	U	
PHENOL	3600	U		400	U		4000	U		390	U	
PRONAMIDE	7200	U		810	U		8000	U		780	U	
PYRENE	3600	U		520			1900	J	P	390	U	
PYRIDINE	7200	U		810	UJ	C	8000	U		780	U	
SAFROLE	7200	U		810	U		8000	U		780	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	410	U		950	U		390	U		380	U	
1,2,4-TRICHLORO BENZENE	410	U		950	U		390	U		380	U	
1,2-DICHLORO BENZENE	410	U		950	U		390	U		380	U	
1,3,5-TRINITRO BENZENE	2000	U		4600	U		1900	U		1900	U	
1,3-DICHLORO BENZENE	410	U		950	U		390	U		380	U	
1,3-DINITRO BENZENE	410	U		950	U		390	U		380	U	
1,4-DICHLORO BENZENE	410	U		950	U		390	U		380	U	
1,4-DIOXANE	410	UJ	C	950	UJ	C	390	UJ	C	380	UJ	C
1,4-NAPHTHOQUINONE	2000	U		4600	U		1900	U		1900	U	
1-NAPHTHYLAMINE	410	U		950	U		390	U		380	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	410	U		950	U		390	U		380	U	
2,3,4,6-TETRACHLOROPHENOL	2000	U		4600	U		1900	U		1900	U	
2,4,5-TRICHLOROPHENOL	410	U		950	U		390	U		380	U	
2,4,6-TRICHLOROPHENOL	410	U		950	U		390	U		380	U	
2,4-DICHLOROPHENOL	410	U		950	U		390	U		380	U	
2,4-DIMETHYLPHENOL	410	U		950	U		390	U		380	U	
2,4-DINITROPHENOL	2000	U		4600	U		1900	U		1900	U	
2,4-DINITROTOLUENE	410	U		950	U		390	U		380	U	
2,6-DICHLOROPHENOL	410	U		950	U		390	U		380	U	
2,6-DINITROTOLUENE	410	U		950	U		390	U		380	U	
2-ACETYLAMINOFUORENE	4100	U		9500	U		3900	U		3800	U	
2-CHLORONAPHTHALENE	410	U		950	U		390	U		380	U	
2-CHLOROPHENOL	410	U		950	U		390	U		380	U	
2-METHYLNAPHTHALENE	410	U		950	U		390	U		380	U	
2-METHYLPHENOL	410	U		950	U		390	U		380	U	
2-NAPHTHYLAMINE	410	U		950	U		390	U		380	U	
2-NITROANILINE	2000	U		4600	U		1900	U		1900	U	
2-NITROPHENOL	410	U		950	U		390	U		380	U	
2-PICOLINE	820	U		1900	U		780	U		770	U	
3,3'-DICHLORO BENZIDINE	2000	U		4600	U		1900	U		1900	U	
3,3'-DIMETHYLBENZIDINE	2000	U		4600	U		1900	U		1900	U	
3-METHYLCHOLANTHRENE	820	U		1900	U		780	U		770	U	
3-METHYLPHENOL	410	UJ	C	950	U		390	U		380	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	2000	U		4600	U		1900	U		1900	U	
4,6-DINITRO-2-METHYLPHENOL	2000	U		4600	U		1900	U		1900	U	
4-AMINOBIHENYL	2000	U		4600	U		1900	U		1900	U	
4-BROMOPHENYL PHENYL ETHER	410	U		950	U		390	U		380	U	
4-CHLORO-3-METHYLPHENOL	410	U		950	U		390	U		380	U	
4-CHLOROANILINE	410	U		950	U		390	U		380	U	
4-CHLOROPHENYL PHENYL ETHER	410	U		950	U		390	U		380	U	
4-METHYLPHENOL	410	U		950	U		390	U		380	U	
4-NITROANILINE	2000	U		4600	U		1900	U		1900	U	
4-NITROPHENOL	2000	U		4600	U		1900	U		1900	U	
4-NITROQUINOLINE-1-OXIDE	4100	UR	C	9500	UR	C	3900	UR	C	3800	UR	C
5-NITRO-O-TOLUIDINE	820	U		1900	U		780	U		770	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	820	U		1900	U		780	U		770	U	
A,A-DIMETHYLPHENETHYLAMINE	2000	U		4600	U		1900	U		1900	U	
ACENAPHTHENE	410	U		950	U		390	U		380	U	
ACENAPHTHYLENE	410	U		950	U		390	U		380	U	
ACETOPHENONE	410	U		950	U		390	U		380	U	
ANILINE	410	U		950	U		390	U		380	U	
ANTHRACENE	410	U		950	U		390	U		380	U	
ARAMITE	820	U		1900	U		780	U		770	U	
BENZO(A)ANTHRACENE	410	U		950	U		390	U		380	U	
BENZO(A)PYRENE	410	U		950	U		390	U		380	U	
BENZO(B)FLUORANTHENE	410	U		950	U		390	U		380	U	
BENZO(G,H,I)PERYLENE	410	U		950	U		390	U		380	U	
BENZO(K)FLUORANTHENE	410	U		950	U		390	U		380	U	
BENZYL ALCOHOL	410	U		950	U		390	U		380	U	
BIS(2-CHLOROETHOXY)METHANE	410	U		950	U		390	U		380	U	
BIS(2-CHLOROETHYL)ETHER	410	UJ	C	950	U		390	U		380	U	
BIS(2-ETHYLHEXYL)PHTHALATE	410	U		950	U		390	U		380	U	
BUTYLBENZYL PHTHALATE	410	U		950	U		390	U		380	U	
CARBAZOLE	410	U		950	U		390	U		380	U	
CHLOROBENZILATE	410	U		950	U		390	U		380	U	
CHRYSENE	410	U		950	U		390	U		380	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	410	U		950	U		390	U		380	U	
DI-N-OCTYL PHTHALATE	410	U		950	U		390	U		380	U	
DIALLATE	820	UJ	C	1900	UJ	C	780	UJ	C	770	UJ	C
DIBENZO(A,H)ANTHRACENE	410	U		950	U		390	U		380	U	
DIBENZOFURAN	410	U		950	U		390	U		380	U	
DIETHYL PHTHALATE	410	U		950	U		390	U		380	U	
DIMETHYL PHTHALATE	410	U		950	U		390	U		380	U	
DINOSEB	820	U		1900	U		780	U		770	U	
DIPHENYLAMINE	410	U		950	U		390	U		380	U	
ETHYL METHANESULFONATE	410	U		950	U		390	U		380	U	
FLUORANTHENE	410	U		950	U		390	U		380	U	
FLUORENE	410	U		950	U		390	U		380	U	
HEXACHLOROBENZENE	410	U		950	U		390	U		380	U	
HEXACHLOROBUTADIENE	410	U		950	U		390	U		380	U	
HEXACHLOROCYCLOPENTADIENE	2000	U		4600	U		1900	U		1900	U	
HEXACHLOROETHANE	410	U		950	U		390	U		380	U	
HEXACHLOROPROPENE	4100	U		9500	U		3900	U		3800	U	
INDENO(1,2,3-CD)PYRENE	410	U		950	U		390	U		380	U	
ISOPHORONE	410	U		950	U		390	U		380	U	
ISOSAFROLE	820	U		1900	U		780	U		770	U	
METHAPYRILENE	2000	U		4600	U		1900	U		1900	U	
METHYL METHANESULFONATE	410	U		950	U		390	U		380	U	
N-NITROSO-DI-N-BUTYLAMINE	410	U		950	U		390	U		380	U	
N-NITROSO-DI-N-PROPYLAMINE	410	U		950	U		390	U		380	U	
N-NITROSODIETHYLAMINE	410	U		950	U		390	U		380	U	
N-NITROSODIMETHYLAMINE	410	U		950	U		390	U		380	U	
N-NITROSODIPHENYLAMINE	410	U		950	U		390	U		380	U	
N-NITROSOMETHYLETHYLAMINE	410	U		950	U		390	U		380	U	
N-NITROSOMORPHOLINE	410	UJ	C	950	UJ	C	390	UJ	C	380	UJ	C
N-NITROSOPIPERIDINE	410	U		950	U		390	U		380	U	
N-NITROSOPYRROLIDINE	410	UJ	C	950	U		390	U		380	U	
NAPHTHALENE	410	U		950	U		390	U		380	U	
NITROBENZENE	410	U		950	U		390	U		380	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-30-07	MPT-G4-SU-31-08	MPT-G4-SU-32-07	MPT-G4-SU-33-05
SAMPLE DATE:	07/06/00	07/06/00	07/06/00	07/06/00
LABORATORY ID:	A0G070231003	A0G070231004	A0G070231005	A0G070231007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	80.0 %	87.0 %	85.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	820	UJ	C	1900	U		780	U		770	U	
P-DIMETHYLAMINOAZOBENZENE	820	U		1900	U		780	U		770	U	
P-PHENYLENEDIAMINE	4100	UJ	C	9500	UJ	C	3900	UJ	C	3800	UJ	C
PENTACHLOROENZENE	410	U		950	U		390	U		380	U	
PENTACHLOROETHANE	2000	U		4600	U		1900	U		1900	U	
PENTACHLORONITROENZENE	2000	UJ	C	4600	UJ	C	1900	UJ	C	1900	UJ	C
PENTACHLOROPHENOL	2000	U		4600	U		1900	U		1900	U	
PHENACETIN	820	U		1900	U		780	U		770	U	
PHENANTHRENE	410	U		950	U		390	U		380	U	
PHENOL	410	U		950	U		390	U		380	U	
PRONAMIDE	820	U		1900	U		780	U		770	U	
PYRENE	410	U		950	U		390	U		380	U	
PYRIDINE	820	U		1900	U		780	U		770	U	
SAFROLE	820	U		1900	U		780	U		770	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	89.0 %	85.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	1900	U		370	U		390	U		4000	U	
1,2,4-TRICHLORO BENZENE	1900	U		370	U		390	U		4000	U	
1,2-DICHLORO BENZENE	1900	U		370	U		390	U		4000	U	
1,3,5-TRINITRO BENZENE	9200	U		1800	U		1900	U		19000	U	
1,3-DICHLORO BENZENE	1900	U		370	U		390	U		4000	U	
1,3-DINITRO BENZENE	1900	U		370	U		390	U		4000	U	
1,4-DICHLORO BENZENE	1900	U		370	U		390	U		4000	U	
1,4-DIOXANE	1900	U		370	U		390	U		4000	UJ	C
1,4-NAPHTHOQUINONE	9200	U		1800	U		1900	U		19000	U	
1-NAPHTHYLAMINE	1900	U		370	U		390	U		4000	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	1900	U		370	U		390	U		4000	U	
2,3,4,6-TETRACHLOROPHENOL	9200	U		1800	U		1900	U		19000	U	
2,4,5-TRICHLOROPHENOL	1900	U		370	U		390	U		4000	U	
2,4,6-TRICHLOROPHENOL	1900	U		370	U		390	U		4000	U	
2,4-DICHLOROPHENOL	1900	U		370	U		390	U		4000	U	
2,4-DIMETHYLPHENOL	1900	U		370	U		390	U		4000	U	
2,4-DINITROPHENOL	9200	U		1800	U		1900	U		19000	U	
2,4-DINITROTOLUENE	1900	U		370	U		390	U		4000	U	
2,6-DICHLOROPHENOL	1900	U		370	U		390	U		4000	U	
2,6-DINITROTOLUENE	1900	U		370	U		390	U		4000	U	
2-ACETYLAMINOFUORENE	19000	U		3700	U		3900	U		40000	U	
2-CHLORONAPHTHALENE	1900	U		370	U		390	U		4000	U	
2-CHLOROPHENOL	1900	U		370	U		390	U		4000	U	
2-METHYLNAPHTHALENE	500	J	P	370	U		390	U		440	J	P
2-METHYLPHENOL	1900	U		370	U		390	U		4000	U	
2-NAPHTHYLAMINE	1900	U		370	U		390	U		4000	U	
2-NITROANILINE	9200	U		1800	U		1900	U		19000	U	
2-NITROPHENOL	1900	U		370	U		390	U		4000	U	
2-PICOLINE	3800	U		740	U		770	U		7900	U	
3,3'-DICHLORO BENZIDINE	9200	U		1800	U		1900	U		19000	U	
3,3'-DIMETHYLBENZIDINE	9200	U		1800	U		1900	U		19000	U	
3-METHYLCHOLANTHRENE	3800	U		740	U		770	U		7900	U	
3-METHYLPHENOL	1900	U		370	U		390	U		4000	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP015

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	89.0 %	85.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	9200	U		1800	U		1900	U		19000	U	
4,6-DINITRO-2-METHYLPHENOL	9200	U		1800	U		1900	U		19000	U	
4-AMINOBIIPHENYL	9200	U		1800	U		1900	U		19000	U	
4-BROMOPHENYL PHENYL ETHER	1900	U		370	U		390	U		4000	U	
4-CHLORO-3-METHYLPHENOL	1900	U		370	U		390	U		4000	U	
4-CHLOROANILINE	1900	U		370	U		390	U		4000	U	
4-CHLOROPHENYL PHENYL ETHER	1900	U		370	U		390	U		4000	U	
4-METHYLPHENOL	1900	U		370	U		390	U		4000	U	
4-NITROANILINE	9200	U		1800	U		1900	U		19000	U	
4-NITROPHENOL	9200	U		1800	U		1900	U		19000	U	
4-NITROQUINOLINE-1-OXIDE	19000	UR	C	3700	UR	C	3900	UR	C	40000	UR	C
5-NITRO-O-TOLUIDINE	3800	U		740	U		770	U		7900	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	3800	U		740	U		770	U		7900	U	
A,A-DIMETHYLPHENETHYLAMINE	9200	U		1800	U		1900	U		19000	U	
ACENAPHTHENE	1900	U		370	U		390	U		2000	J	P
ACENAPHTHYLENE	1900	U		370	U		390	U		4000	U	
ACETOPHENONE	1900	U		370	U		390	U		4000	U	
ANILINE	1900	U		370	U		390	U		4000	U	
ANTHRACENE	1900	U		370	U		390	U		1100	J	P
ARAMITE	3800	U		740	U		770	U		7900	U	
BENZO(A)ANTHRACENE	1900	U		370	U		390	U		4000	U	
BENZO(A)PYRENE	1900	U		370	U		390	U		4000	U	
BENZO(B)FLUORANTHENE	1900	U		370	U		390	U		4000	U	
BENZO(G,H,I)PERYLENE	1900	U		370	U		390	U		4000	U	
BENZO(K)FLUORANTHENE	1900	U		370	U		390	U		4000	U	
BENZYL ALCOHOL	1900	U		370	U		390	U		4000	U	
BIS(2-CHLOROETHOXY)METHANE	1900	U		370	U		390	U		4000	U	
BIS(2-CHLOROETHYL)ETHER	1900	U		370	U		390	U		4000	U	
BIS(2-ETHYLHEXYL)PHTHALATE	1900	U		370	U		390	U		2400	J	P
BUTYLBENZYL PHTHALATE	1900	U		370	U		390	U		4000	U	
CARBAZOLE	1900	U		370	U		390	U		4000	U	
CHLOROBENZILATE	1900	UJ	C	370	UJ	C	390	UJ	C	4000	U	
CHRYSENE	1900	U		370	U		390	U		4000	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP015

SAMPLE NUMBER: MPT-G4-SU-34-05
 SAMPLE DATE: 07/07/00
 LABORATORY ID: AOG080137001
 QC_TYPE: NORMAL
 % SOLIDS: 87.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF:

MPT-G4-SU-35-05
 07/07/00
 AOG080137002
 NORMAL
 89.0 %
 UG/KG

MPT-G4-SU-37-05
 07/07/00
 AOG080137003
 NORMAL
 85.0 %
 UG/KG

MPT-G4-SU-DU02
 07/06/00
 AOG070231006
 NORMAL
 83.0 %
 UG/KG
 MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	1900	U		370	U		390	U		4000	U	
DI-N-OCTYL PHTHALATE	1900	U		370	U		390	U		4000	U	
DIALLATE	3800	UJ	C	740	UJ	C	770	UJ	C	7900	UJ	C
DIBENZO(A,H)ANTHRACENE	1900	U		370	U		390	U		4000	U	
DIBENZOFURAN	1900	U		370	U		390	U		4000	U	
DIETHYL PHTHALATE	1900	U		370	U		390	U		4000	U	
DIMETHYL PHTHALATE	1900	U		370	U		390	U		4000	U	
DINOSEB	3800	U		740	U		770	U		7900	U	
DIPHENYLAMINE	1900	U		370	U		390	U		4000	U	
ETHYL METHANESULFONATE	1900	U		370	U		390	U		4000	U	
FLUORANTHENE	1900	U		370	U		390	U		900	J	P
FLUORENE	400	J	P	370	U		390	U		3700	J	P
HEXACHLOROBENZENE	1900	U		370	U		390	U		4000	U	
HEXACHLOROBUTADIENE	1900	U		370	U		390	U		4000	U	
HEXACHLOROCYCLOPENTADIENE	9200	U		1800	U		1900	U		19000	U	
HEXACHLOROETHANE	1900	U		370	U		390	U		4000	U	
HEXACHLOROPROPENE	19000	U		3700	U		3900	U		40000	U	
INDENO(1,2,3-CD)PYRENE	1900	U		370	U		390	U		4000	U	
ISOPHORONE	1900	U		370	U		390	U		4000	U	
ISOSAFROLE	3800	U		740	U		770	U		7900	U	
METHAPYRILENE	9200	U		1800	U		1900	U		19000	U	
METHYL METHANESULFONATE	1900	U		370	U		390	U		4000	U	
N-NITROSO-DI-N-BUTYLAMINE	1900	U		370	U		390	U		4000	U	
N-NITROSO-DI-N-PROPYLAMINE	1900	U		370	U		390	U		4000	U	
N-NITROSODIETHYLAMINE	1900	U		370	U		390	U		4000	U	
N-NITROSODIMETHYLAMINE	1900	U		370	U		390	U		4000	U	
N-NITROSODIPHENYLAMINE	1900	U		370	U		390	U		4000	U	
N-NITROSOMETHYLETHYLAMINE	1900	U		370	U		390	U		4000	U	
N-NITROSOMORPHOLINE	1900	UJ	C	370	UJ	C	390	UJ	C	4000	UJ	C
N-NITROSOPIPERIDINE	1900	U		370	U		390	U		4000	U	
N-NITROSOPIRROLIDINE	1900	U		370	U		390	U		4000	U	
NAPHTHALENE	1900	U		370	U		390	U		1700	J	P
NITROBENZENE	1900	U		370	U		390	U		4000	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP015**

SAMPLE NUMBER:	MPT-G4-SU-34-05	MPT-G4-SU-35-05	MPT-G4-SU-37-05	MPT-G4-SU-DU02
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/06/00
LABORATORY ID:	A0G080137001	A0G080137002	A0G080137003	A0G070231006
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	87.0 %	89.0 %	85.0 %	83.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				MPT-G4-SU-28-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	3800	UJ	C	740	UJ	C	770	UJ	C	7900	U	
P-DIMETHYLAMINOAZOBENZENE	3800	U		740	U		770	U		7900	U	
P-PHENYLENEDIAMINE	19000	UJ	C	3700	UJ	C	3900	UJ	C	40000	UJ	C
PENTACHLOROBENZENE	1900	U		370	U		390	U		4000	UJ	C
PENTACHLOROETHANE	9200	U		1800	U		1900	U		19000	U	
PENTACHLORONITROBENZENE	9200	UJ	C	1800	UJ	C	1900	UJ	C	19000	U	
PENTACHLOROPHENOL	9200	U		1800	U		1900	U		19000	U	
PHENACETIN	3800	U		740	U		770	U		7900	U	
PHENANTHRENE	680	J	P	370	U		390	U		4100		
PHENOL	1900	U		370	U		390	U		4000	U	
PRONAMIDE	3800	U		740	U		770	U		7900	U	
PYRENE	1900	U		370	U		390	U		3000	J	P
PYRIDINE	3800	UJ	C	740	UJ	C	770	UJ	C	7900	U	
SAFROLE	3800	U		740	U		770	U		7900	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN42102

Date Extracted: 07/05/00

Dilution factor: 0.98

Date Analyzed: 07/05/00

Moisture %: 22

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-18-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	25		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.2		U
75-27-4	Bromodichloromethane	6.2		U
75-25-2	Bromoform	6.2		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.2		U
56-23-5	Carbon tetrachloride	6.2		U
108-90-7	Chlorobenzene	6.2		U
126-99-8	Chloroprene	6.2		U
124-48-1	Dibromochloromethane	6.2		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	62		U
67-66-3	Chloroform	6.2		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.2		U
110-57-6	trans-1,4-Dichloro-2-butene	6.2		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.2		U
107-06-2	1,2-Dichloroethane	6.2		U
75-35-4	1,1-Dichloroethene	6.2		U
156-59-2	cis-1,2-Dichloroethene	3.1		U
156-60-5	trans-1,2-Dichloroethene	3.1		U
540-59-0	1,2-Dichloroethene (total)	6.2		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN42102

Date Extracted: 07/05/00

Dilution factor: 0.98

Date Analyzed: 07/05/00

Moisture %: 22

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-18-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
100-41-4	Ethylbenzene	6.2	U
97-63-2	Ethyl methacrylate	6.2	U
75-69-4	Trichlorofluoromethane	12	U
591-78-6	2-Hexanone	25	U
74-88-4	Iodomethane	6.2	U
78-83-1	Isobutyl alcohol	250	U
126-98-7	Methacrylonitrile	6.2	U
75-09-2	Methylene chloride	6.2	U
80-62-6	Methyl methacrylate	6.2	U
107-12-0	Propionitrile	25	U
100-42-5	Styrene	6.2	U
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
127-18-4	Tetrachloroethene	6.2	U
108-88-3	Toluene	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
79-01-6	Trichloroethene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Xylenes (total)	6.2	U
106-93-4	1,2-Dibromoethane (EDB)	6.2	U
78-93-3	2-Butanone (MEK)	25	U
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN42102

Date Extracted: 07/05/00

Dilution factor: 0.98

Date Analyzed: 07/05/00

Moisture %: 22

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-18-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN43102

Date Extracted: 07/05/00

Dilution factor: 1.03

Date Analyzed: 07/05/00

Moisture %: 14

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone		24	U
75-05-8	Acetonitrile		120	U
107-02-8	Acrolein		120	U
107-13-1	Acrylonitrile		120	U
71-43-2	Benzene		6.0	U
75-27-4	Bromodichloromethane		6.0	U
75-25-2	Bromoform		6.0	U
74-83-9	Bromomethane		12	U
75-15-0	Carbon disulfide		6.0	U
56-23-5	Carbon tetrachloride		6.0	U
108-90-7	Chlorobenzene		6.0	U
126-99-8	Chloroprene		6.0	U
124-48-1	Dibromochloromethane		6.0	U
96-12-8	1,2-Dibromo-3-chloropropane		12	U
75-00-3	Chloroethane		12	U
110-75-8	2-Chloroethyl vinyl ether		60	U
67-66-3	Chloroform		6.0	U
74-87-3	Chloromethane		12	U
107-05-1	Allyl chloride		12	U
74-95-3	Dibromomethane		6.0	U
110-57-6	trans-1,4-Dichloro-2-butene		6.0	U
75-71-8	Dichlorodifluoromethane		12	U
75-34-3	1,1-Dichloroethane		6.0	U
107-06-2	1,2-Dichloroethane		6.0	U
75-35-4	1,1-Dichloroethene		6.0	U
156-59-2	cis-1,2-Dichloroethene		3.0	U
156-60-5	trans-1,2-Dichloroethene		3.0	U
540-59-0	1,2-Dichloroethene (total)		6.0	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN43102

Date Extracted: 07/05/00

Dilution factor: 1.03

Date Analyzed: 07/05/00

Moisture %: 14

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	6.0		U
10061-01-5	cis-1,3-Dichloropropene	6.0		U
10061-02-6	trans-1,3-Dichloropropene	6.0		U
100-41-4	Ethylbenzene	6.0		U
97-63-2	Ethyl methacrylate	6.0		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	6.0		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	6.0		U
75-09-2	Methylene chloride	6.0		U
80-62-6	Methyl methacrylate	6.0		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	6.0		U
630-20-6	1,1,1,2-Tetrachloroethane	6.0		U
79-34-5	1,1,2,2-Tetrachloroethane	6.0		U
127-18-4	Tetrachloroethene	6.0		U
108-88-3	Toluene	6.0		U
71-55-6	1,1,1-Trichloroethane	6.0		U
79-00-5	1,1,2-Trichloroethane	6.0		U
79-01-6	Trichloroethene	6.0		U
96-18-4	1,2,3-Trichloropropane	6.0		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	6.0		U
106-93-4	1,2-Dibromoethane (EDB)	6.0		U
78-93-3	2-Butanone (MEK)	24		U
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN43102

Date Extracted: 07/05/00

Dilution factor: 1.03

Date Analyzed: 07/05/00

Moisture %: 14

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN44102

Date Extracted: 07/05/00

Dilution factor: 0.97

Date Analyzed: 07/05/00

Moisture %: 14

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-20-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone	23		U
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.7		U
75-27-4	Bromodichloromethane	5.7		U
75-25-2	Bromoform	5.7		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.7		U
56-23-5	Carbon tetrachloride	5.7		U
108-90-7	Chlorobenzene	5.7		U
126-99-8	Chloroprene	5.7		U
124-48-1	Dibromochloromethane	5.7		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	57		U
67-66-3	Chloroform	5.7		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.7		U
110-57-6	trans-1,4-Dichloro-2-butene	5.7		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.7		U
107-06-2	1,2-Dichloroethane	5.7		U
75-35-4	1,1-Dichloroethene	5.7		U
156-59-2	cis-1,2-Dichloroethene	2.8		U
156-60-5	trans-1,2-Dichloroethene	2.8		U
540-59-0	1,2-Dichloroethene (total)	5.7		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN44102

Date Extracted: 07/05/00

Dilution factor: 0.97

Date Analyzed: 07/05/00

Moisture %: 14

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-20-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	5.7		U
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SO Lab Sample ID: A0G020104 004
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/01/00
 Work Order: DFN45102 Date Extracted: 07/05/00
 Dilution factor: 0.98 Date Analyzed: 07/05/00
 Moisture %: 17

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-21-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	24	□
75-05-8	Acetonitrile	120	□
107-02-8	Acrolein	120	□
107-13-1	Acrylonitrile	120	□
71-43-2	Benzene	5.9	□
75-27-4	Bromodichloromethane	5.9	□
75-25-2	Bromoform	5.9	□
74-83-9	Bromomethane	12	□
75-15-0	Carbon disulfide	5.9	□
56-23-5	Carbon tetrachloride	5.9	□
108-90-7	Chlorobenzene	5.9	□
126-99-8	Chloroprene	5.9	□
124-48-1	Dibromochloromethane	5.9	□
96-12-8	1,2-Dibromo-3-chloropropane	12	□
75-00-3	Chloroethane	12	□
110-75-8	2-Chloroethyl vinyl ether	59	□
67-66-3	Chloroform	5.9	□
74-87-3	Chloromethane	12	□
107-05-1	Allyl chloride	12	□
74-95-3	Dibromomethane	5.9	□
110-57-6	trans-1,4-Dichloro-2-butene	5.9	□
75-71-8	Dichlorodifluoromethane	12	□
75-34-3	1,1-Dichloroethane	5.9	□
107-06-2	1,2-Dichloroethane	5.9	□
75-35-4	1,1-Dichloroethene	5.9	□
156-59-2	cis-1,2-Dichloroethene	2.9	□
156-60-5	trans-1,2-Dichloroethene	2.9	□
540-59-0	1,2-Dichloroethene (total)	5.9	□

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN45102

Date Extracted: 07/05/00

Dilution factor: 0.98

Date Analyzed: 07/05/00

Moisture %: 17

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-21-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.9		U
10061-01-5	cis-1,3-Dichloropropene	5.9		U
10061-02-6	trans-1,3-Dichloropropene	5.9		U
100-41-4	Ethylbenzene	5.9		U
97-63-2	Ethyl methacrylate	5.9		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	5.9		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	5.9		U
75-09-2	Methylene chloride	5.9		U
80-62-6	Methyl methacrylate	5.9		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	5.9		U
630-20-6	1,1,1,2-Tetrachloroethane	5.9		U
79-34-5	1,1,2,2-Tetrachloroethane	5.9		U
127-18-4	Tetrachloroethene	5.9		U
108-88-3	Toluene	5.9		U
71-55-6	1,1,1-Trichloroethane	5.9		U
79-00-5	1,1,2-Trichloroethane	5.9		U
79-01-6	Trichloroethene	5.9		U
96-18-4	1,2,3-Trichloropropane	5.9		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.9		U
106-93-4	1,2-Dibromoethane (EDB)	5.9		U
78-93-3	2-Butanone (MEK)	24		U
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 004

Method: SWB46 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN45102

Date Extracted: 07/05/00

Dilution factor: 0.98

Date Analyzed: 07/05/00

Moisture %: 17

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-21-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 005

Method: SWB46 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN46102

Date Extracted: 07/05/00

Dilution factor: 1.07

Date Analyzed: 07/05/00

Moisture %: 10

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	24	U
75-05-8	Acetonitrile	120	U
107-02-8	Acrolein	120	U
107-13-1	Acrylonitrile	120	U
71-43-2	Benzene	5.9	U
75-27-4	Bromodichloromethane	5.9	U
75-25-2	Bromoform	5.9	U
74-83-9	Bromomethane	12	U
75-15-0	Carbon disulfide	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
108-90-7	Chlorobenzene	5.9	U
126-99-8	Chloroprene	5.9	U
124-48-1	Dibromochloromethane	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
75-00-3	Chloroethane	12	U
110-75-8	2-Chloroethyl vinyl ether	59	U
67-66-3	Chloroform	5.9	U
74-87-3	Chloromethane	12	U
107-05-1	Allyl chloride	12	U
74-95-3	Dibromomethane	5.9	U
110-57-6	trans-1,4-Dichloro-2-butene	5.9	U
75-71-8	Dichlorodifluoromethane	12	U
75-34-3	1,1-Dichloroethane	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
156-59-2	cis-1,2-Dichloroethene	3.0	U
156-60-5	trans-1,2-Dichloroethene	3.0	U
540-59-0	1,2-Dichloroethene (total)	5.9	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN46102

Date Extracted: 07/05/00

Dilution factor: 1.07

Date Analyzed: 07/05/00

Moisture %: 10

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.9		U
10061-01-5	cis-1,3-Dichloropropene	5.9		U
10061-02-6	trans-1,3-Dichloropropene	5.9		U
100-41-4	Ethylbenzene	5.9		U
97-63-2	Ethyl methacrylate	5.9		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	5.9		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	5.9		U
75-09-2	Methylene chloride	5.9		U
80-62-6	Methyl methacrylate	5.9		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	5.9		U
630-20-6	1,1,1,2-Tetrachloroethane	5.9		U
79-34-5	1,1,2,2-Tetrachloroethane	5.9		U
127-18-4	Tetrachloroethene	5.9		U
108-88-3	Toluene	5.9		U
71-55-6	1,1,1-Trichloroethane	5.9		U
79-00-5	1,1,2-Trichloroethane	5.9		U
79-01-6	Trichloroethene	5.9		U
96-18-4	1,2,3-Trichloropropane	5.9		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.9		U
106-93-4	1,2-Dibromoethane (EDB)	5.9		U
78-93-3	2-Butanone (MEK)	24		U
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN46102

Date Extracted: 07/05/00

Dilution factor: 1.07

Date Analyzed: 07/05/00

Moisture %: 10

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN47102

Date Extracted: 07/05/00

Dilution factor: 1.07

Date Analyzed: 07/05/00

Moisture %: 8.0

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	23	U
75-05-8	Acetonitrile	120	U
107-02-8	Acrolein	120	U
107-13-1	Acrylonitrile	120	U
71-43-2	Benzene	5.8	U
75-27-4	Bromodichloromethane	5.8	U
75-25-2	Bromoform	5.8	U
74-83-9	Bromomethane	12	U
75-15-0	Carbon disulfide	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
108-90-7	Chlorobenzene	5.8	U
126-99-8	Chloroprene	5.8	U
124-48-1	Dibromochloromethane	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
75-00-3	Chloroethane	12	U
110-75-8	2-Chloroethyl vinyl ether	58	U
67-66-3	Chloroform	5.8	U
74-87-3	Chloromethane	12	U
107-05-1	Allyl chloride	12	U
74-95-3	Dibromomethane	5.8	U
110-57-6	trans-1,4-Dichloro-2-butene	5.8	U
75-71-8	Dichlorodifluoromethane	12	U
75-34-3	1,1-Dichloroethane	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
156-59-2	cis-1,2-Dichloroethene	2.9	U
156-60-5	trans-1,2-Dichloroethene	2.9	U
540-59-0	1,2-Dichloroethene (total)	5.8	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN47102

Date Extracted: 07/05/00

Dilution factor: 1.07

Date Analyzed: 07/05/00

Moisture %: 8.0

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.8		Q
10061-01-5	cis-1,3-Dichloropropene	5.8		Q
10061-02-6	trans-1,3-Dichloropropene	5.8		Q
100-41-4	Ethylbenzene	5.8		Q
97-63-2	Ethyl methacrylate	5.8		Q
75-69-4	Trichlorofluoromethane	12		Q
591-78-6	2-Hexanone	23		Q
74-88-4	Iodomethane	5.8		Q
78-83-1	Isobutyl alcohol	230		Q
126-98-7	Methacrylonitrile	5.8		Q
75-09-2	Methylene chloride	5.8		Q
80-62-6	Methyl methacrylate	5.8		Q
107-12-0	Propionitrile	23		Q
100-42-5	Styrene	5.8		Q
630-20-6	1,1,1,2-Tetrachloroethane	5.8		Q
79-34-5	1,1,2,2-Tetrachloroethane	5.8		Q
127-18-4	Tetrachloroethene	5.8		Q
108-88-3	Toluene	5.8		Q
71-55-6	1,1,1-Trichloroethane	5.8		Q
79-00-5	1,1,2-Trichloroethane	5.8		Q
79-01-6	Trichloroethene	5.8		Q
96-18-4	1,2,3-Trichloropropane	5.8		Q
108-05-4	Vinyl acetate	12		Q
75-01-4	Vinyl chloride	12		Q
1330-20-7	Xylenes (total)	5.8		Q
106-93-4	1,2-Dibromoethane (EDB)	5.8		Q
78-93-3	2-Butanone (MSK)	23		Q
108-10-1	4-Methyl-2-pentanone (MIBK)	23		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/01/00

Work Order: DFN47102

Date Extracted: 07/05/00

Dilution factor: 1.07

Date Analyzed: 07/05/00

Moisture %: 8.0

QC Batch: 0188232

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	23	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRAK102

Date Extracted: 07/11/00

Dilution factor: 1.04

Date Analyzed: 07/11/00

Moisture %: 18

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	4.3	J B
75-05-8	Acetonitrile	130	U
107-02-8	Acrolein	130	U
107-13-1	Acrylonitrile	130	U
71-43-2	Benzene	6.4	U
75-27-4	Bromodichloromethane	6.4	U
75-25-2	Bromoform	6.4	U
74-83-9	Bromomethane	13	U
75-15-0	Carbon disulfide	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
108-90-7	Chlorobenzene	6.4	U
126-99-8	Chloroprene	6.4	U
124-48-1	Dibromochloromethane	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
75-00-3	Chloroethane	13	U
110-75-8	2-Chloroethyl vinyl ether	64	U
67-66-3	Chloroform	6.4	U
74-87-3	Chloromethane	13	U
107-05-1	Allyl chloride	13	U
74-95-3	Dibromomethane	6.4	U
110-57-6	trans-1,4-Dichloro-2-butene	6.4	U
75-71-8	Dichlorodifluoromethane	13	U
75-34-3	1,1-Dichloroethane	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
156-59-2	cis-1,2-Dichloroethene	3.2	U
156-60-5	trans-1,2-Dichloroethene	3.2	U
540-59-0	1,2-Dichloroethene (total)	6.4	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRAK102

Date Extracted: 07/11/00

Dilution factor: 1.04

Date Analyzed: 07/11/00

Moisture %: 18

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.4		U
10061-01-5	cis-1,3-Dichloropropene	6.4		U
10061-02-6	trans-1,3-Dichloropropene	6.4		U
100-41-4	Ethylbenzene	6.4		U
97-63-2	Ethyl methacrylate	6.4		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.4		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.4		U
75-09-2	Methylene chloride	6.2		J B
80-62-6	Methyl methacrylate	6.4		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.4		U
630-20-6	1,1,1,2-Tetrachloroethane	6.4		U
79-34-5	1,1,2,2-Tetrachloroethane	6.4		U
127-18-4	Tetrachloroethene	6.4		U
108-88-3	Toluene	6.4		U
71-55-6	1,1,1-Trichloroethane	6.4		U
79-00-5	1,1,2-Trichloroethane	6.4		U
79-01-6	Trichloroethene	6.4		U
96-18-4	1,2,3-Trichloropropane	6.4		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.4		U
106-93-4	1,2-Dibromoethane (EDB)	6.4		U
78-93-3	2-Butanone (MEK)	25		U
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRAK102

Date Extracted: 07/11/00

Dilution factor: 1.04

Date Analyzed: 07/11/00

Moisture %: 18

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRW102

Date Extracted: 07/11/00

Dilution factor: 0.9

Date Analyzed: 07/11/00

Moisture %: 8.4

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-25-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	20		U
75-05-8	Acetonitrile	98		U
107-02-8	Acrolein	98		U
107-13-1	Acrylonitrile	98		U
71-43-2	Benzene	4.9		U
75-27-4	Bromodichloromethane	4.9		U
75-25-2	Bromoform	4.9		U
74-83-9	Bromomethane	9.8		U
75-15-0	Carbon disulfide	4.9		U
56-23-5	Carbon tetrachloride	4.9		U
108-90-7	Chlorobenzene	4.9		U
126-99-8	Chloroprene	4.9		U
124-48-1	Dibromochloromethane	4.9		U
96-12-8	1,2-Dibromo-3-chloropropane	9.8		U
75-00-3	Chloroethane	9.8		U
110-75-8	2-Chloroethyl vinyl ether	49		U
67-66-3	Chloroform	4.9		U
74-87-3	Chloromethane	9.8		U
107-05-1	Allyl chloride	9.8		U
74-95-3	Dibromomethane	4.9		U
110-57-6	trans-1,4-Dichloro-2-butene	4.9		U
75-71-8	Dichlorodifluoromethane	9.8		U
75-34-3	1,1-Dichloroethane	4.9		U
107-06-2	1,2-Dichloroethane	4.9		U
75-35-4	1,1-Dichloroethene	4.9		U
156-59-2	cis-1,2-Dichloroethene	2.5		U
156-60-5	trans-1,2-Dichloroethene	2.5		U
540-59-0	1,2-Dichloroethene (total)	4.9		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG060209 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRAW102

Date Extracted: 07/11/00

Dilution factor: 0.9

Date Analyzed: 07/11/00

Moisture %: 8.4

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-25-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	4.9		U
10061-01-5	cis-1,3-Dichloropropene	4.9		U
10061-02-6	trans-1,3-Dichloropropene	4.9		U
100-41-4	Ethylbenzene	4.9		U
97-63-2	Ethyl methacrylate	4.9		U
75-69-4	Trichlorofluoromethane	9.8		U
591-78-6	2-Hexanone	20		U
74-88-4	Iodomethane	4.9		U
78-83-1	Isobutyl alcohol	200		U
126-98-7	Methacrylonitrile	4.9		U
75-09-2	Methylene chloride	4.2		J B
80-62-6	Methyl methacrylate	4.9		U
107-12-0	Propionitrile	20		U
100-42-5	Styrene	4.9		U
630-20-6	1,1,1,2-Tetrachloroethane	4.9		U
79-34-5	1,1,2,2-Tetrachloroethane	4.9		U
127-18-4	Tetrachloroethene	4.9		U
108-88-3	Toluene	4.9		U
71-55-6	1,1,1-Trichloroethane	4.9		U
79-00-5	1,1,2-Trichloroethane	4.9		U
79-01-6	Trichloroethene	4.9		U
96-18-4	1,2,3-Trichloropropane	4.9		U
108-05-4	Vinyl acetate	9.8		U
75-01-4	Vinyl chloride	9.8		U
1330-20-7	Xylenes (total)	4.9		U
106-93-4	1,2-Dibromoethane (EDB)	4.9		U
78-93-3	2-Butanone (MEK)	20		U
108-10-1	4-Methyl-2-pentanone (MIBK)	20		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG060209 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRW102

Date Extracted: 07/11/00

Dilution factor: 0.9

Date Analyzed: 07/11/00

Moisture %: 8.4

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-25-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	20		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG060209 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.78 / g

Date Received: 07/06/00

Work Order: DPRAX102

Date Extracted: 07/07/00

Dilution factor: 1.05

Date Analyzed: 07/13/00

Moisture %: 8.1

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	240		J B
75-05-8	Acetonitrile	5700		U
107-02-8	Acrolein	5700		U
107-13-1	Acrylonitrile	5700		U
71-43-2	Benzene	290		U
75-27-4	Bromodichloromethane	290		U
75-25-2	Bromoform	290		U
74-83-9	Bromomethane	570		U
75-15-0	Carbon disulfide	290		U
56-23-5	Carbon tetrachloride	290		U
108-90-7	Chlorobenzene	290		U
126-99-8	Chloroprene	290		U
124-48-1	Dibromochloromethane	290		U
96-12-8	1,2-Dibromo-3-chloropropane	570		U
75-00-3	Chloroethane	570		U
110-75-8	2-Chloroethyl vinyl ether	2900		U
67-66-3	Chloroform	290		U
74-87-3	Chloromethane	570		U
107-05-1	Allyl chloride	570		U
74-95-3	Dibromomethane	290		U
110-57-6	trans-1,4-Dichloro-2-butene	290		U
75-71-8	Dichlorodifluoromethane	570		U
75-34-3	1,1-Dichloroethane	290		U
107-06-2	1,2-Dichloroethane	290		U
75-35-4	1,1-Dichloroethene	290		U
156-59-2	cis-1,2-Dichloroethene	140		U
156-60-5	trans-1,2-Dichloroethene	140		U
540-59-0	1,2-Dichloroethene (total)	290		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.78 / g

Date Received: 07/06/00

Work Order: DFRAX102

Date Extracted: 07/07/00

Dilution factor: 1.05

Date Analyzed: 07/13/00

Moisture %: 8.1

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	290		U
10061-01-5	cis-1,3-Dichloropropene	290		U
10061-02-6	trans-1,3-Dichloropropene	290		U
100-41-4	Ethylbenzene	290		U
97-63-2	Ethyl methacrylate	290		U
75-69-4	Trichlorofluoromethane	570		U
591-78-6	2-Hexanone	1100		U
74-88-4	Iodomethane	290		U
78-83-1	Isobutyl alcohol	11000		U
126-98-7	Methacrylonitrile	290		U
75-09-2	Methylene chloride	84		J B
80-62-6	Methyl methacrylate	290		U
107-12-0	Propionitrile	1100		U
100-42-5	Styrene	290		U
630-20-6	1,1,1,2-Tetrachloroethane	290		U
79-34-5	1,1,2,2-Tetrachloroethane	290		U
127-18-4	Tetrachloroethene	290		U
108-88-3	Toluene	290		U
71-55-6	1,1,1-Trichloroethane	290		U
79-00-5	1,1,2-Trichloroethane	290		U
79-01-6	Trichloroethene	290		U
96-18-4	1,2,3-Trichloropropane	290		U
108-05-4	Vinyl acetate	570		U
75-01-4	Vinyl chloride	570		U
1330-20-7	Xylenes (total)	290		U
106-93-4	1,2-Dibromoethane (EDB)	290		U
78-93-3	2-Butanone (MEK)	1000		J B
108-10-1	4-Methyl-2-pentanone (MIBK)	1100		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.78 / g

Date Received: 07/06/00

Work Order: DFRAX102

Date Extracted: 07/07/00

Dilution factor: 1.05

Date Analyzed: 07/13/00

Moisture %: 8.1

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether (MTB)	1100		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRC1102

Date Extracted: 07/11/00

Dilution factor: 0.89

Date Analyzed: 07/11/00

Moisture %: 18

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-27-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	5.7	J B
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
71-43-2	Benzene	5.5	U
75-27-4	Bromodichloromethane	5.5	U
75-25-2	Bromoform	5.5	U
74-83-9	Bromomethane	11	U
75-15-0	Carbon disulfide	5.5	U
56-23-5	Carbon tetrachloride	5.5	U
108-90-7	Chlorobenzene	5.5	U
126-99-8	Chloroprene	5.5	U
124-48-1	Dibromochloromethane	5.5	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
75-00-3	Chloroethane	11	U
110-75-8	2-Chloroethyl vinyl ether	55	U
67-66-3	Chloroform	5.5	U
74-87-3	Chloromethane	11	U
107-05-1	Allyl chloride	11	U
74-95-3	Dibromomethane	5.5	U
110-57-6	trans-1,4-Dichloro-2-butene	5.5	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.5	U
107-06-2	1,2-Dichloroethane	5.5	U
75-35-4	1,1-Dichloroethene	5.5	U
156-59-2	cis-1,2-Dichloroethene	2.7	U
156-60-5	trans-1,2-Dichloroethene	2.7	U
540-59-0	1,2-Dichloroethene (total)	5.5	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRC1102

Date Extracted: 07/11/00

Dilution factor: 0.89

Date Analyzed: 07/11/00

Moisture %: 18

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-27-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.5		U
10061-01-5	cis-1,3-Dichloropropene	5.5		U
10061-02-6	trans-1,3-Dichloropropene	5.5		U
100-41-4	Ethylbenzene	5.5		U
97-63-2	Ethyl methacrylate	5.5		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	22		U
74-88-4	Iodomethane	5.5		U
78-83-1	Isobutyl alcohol	220		U
126-98-7	Methacrylonitrile	5.5		U
75-09-2	Methylene chloride	4.3		J B
80-62-6	Methyl methacrylate	5.5		U
107-12-0	Propionitrile	22		U
100-42-5	Styrene	5.5		U
630-20-6	1,1,1,2-Tetrachloroethane	5.5		U
79-34-5	1,1,2,2-Tetrachloroethane	5.5		U
127-18-4	Tetrachloroethene	5.5		U
108-88-3	Toluene	5.5		U
71-55-6	1,1,1-Trichloroethane	5.5		U
79-00-5	1,1,2-Trichloroethane	5.5		U
79-01-6	Trichloroethene	5.5		U
96-18-4	1,2,3-Trichloropropane	5.5		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.5		U
106-93-4	1,2-Dibromoethane (EDB)	5.5		U
78-93-3	2-Butanone (MEK)	22		U
108-10-1	4-Methyl-2-pentanone (MIBK)	22		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG060209 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/06/00

Work Order: DFRC1102

Date Extracted: 07/11/00

Dilution factor: 0.89

Date Analyzed: 07/11/00

Moisture %: 18

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-27-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
1634-04-4	Methyl tert-butyl ether	22		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG070231 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.68 / g

Date Received: 07/07/00

Work Order: DFV5X102

Date Extracted: 07/07/00

Dilution factor: 0.88

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	610		J B
75-05-8	Acetonitrile	5400		U
107-02-8	Acrolein	5400		U
107-13-1	Acrylonitrile	5400		U
71-43-2	Benzene	270		U
75-27-4	Bromodichloromethane	270		U
75-25-2	Bromoform	270		U
74-83-9	Bromomethane	540		U
75-15-0	Carbon disulfide	270		U
56-23-5	Carbon tetrachloride	270		U
108-90-7	Chlorobenzene	270		U
126-99-8	Chloroprene	270		U
124-48-1	Dibromochloromethane	270		U
96-12-8	1,2-Dibromo-3-chloropropane	540		U
75-00-3	Chloroethane	540		U
110-75-8	2-Chloroethyl vinyl ether	2700		U
67-66-3	Chloroform	270		U
74-87-3	Chloromethane	540		U
107-05-1	Allyl chloride	540		U
74-95-3	Dibromomethane	270		U
110-57-6	trans-1,4-Dichloro-2-butene	270		U
75-71-8	Dichlorodifluoromethane	540		U
75-34-3	1,1-Dichloroethane	270		U
107-06-2	1,2-Dichloroethane	270		U
75-35-4	1,1-Dichloroethene	270		U
156-59-2	cis-1,2-Dichloroethene	130		U
156-60-5	trans-1,2-Dichloroethene	130		U
540-59-0	1,2-Dichloroethene (total)	270		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.68 / g

Date Received: 07/07/00

Work Order: DfV5X102

Date Extracted: 07/07/00

Dilution factor: 0.88

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	270		U
10061-01-5	cis-1,3-Dichloropropene	270		U
10061-02-6	trans-1,3-Dichloropropene	270		U
100-41-4	Ethylbenzene	270		U
97-63-2	Ethyl methacrylate	270		U
75-69-4	Trichlorofluoromethane	540		U
591-78-6	2-Hexanone	1100		U
74-88-4	Iodomethane	270		U
78-83-1	Isobutyl alcohol	11000		U
126-98-7	Methacrylonitrile	270		U
75-09-2	Methylene chloride	270		U
80-62-6	Methyl methacrylate	270		U
107-12-0	Propionitrile	1100		U
100-42-5	Styrene	270		U
630-20-6	1,1,1,2-Tetrachloroethane	270		U
79-34-5	1,1,2,2-Tetrachloroethane	270		U
127-18-4	Tetrachloroethene	270		U
108-88-3	Toluene	270		U
71-55-6	1,1,1-Trichloroethane	270		U
79-00-5	1,1,2-Trichloroethane	270		U
79-01-6	Trichloroethene	270		U
96-18-4	1,2,3-Trichloropropane	270		U
108-05-4	Vinyl acetate	540		U
75-01-4	Vinyl chloride	540		U
1330-20-7	Xylenes (total)	270		U
1634-04-4	Methyl tert-butyl ether	1100		U
106-93-4	1,2-Dibromoethane (EDB)	270		U
78-93-3	2-Butanone (MKG)	760		J B

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.68 / g

Date Received: 07/07/00

Work Order: DFV5X102

Date Extracted: 07/07/00

Dilution factor: 0.88

Date Analyzed: 07/14/00

Moisture %: 18

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	1100		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP015

Matrix: (soil/water) SO

Lab Sample ID:A0G070231 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV68102

Date Extracted:07/11/00

Dilution factor: 0.98

Date Analyzed: 07/11/00

Moisture %:16

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	16		J B
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	5.8		U
75-27-4	Bromodichloromethane	5.8		U
75-25-2	Bromoform	5.8		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	5.8		U
56-23-5	Carbon tetrachloride	5.8		U
108-90-7	Chlorobenzene	5.8		U
126-99-8	Chloroprene	5.8		U
124-48-1	Dibromochloromethane	5.8		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	58		U
67-66-3	Chloroform	5.8		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	5.8		U
110-57-6	trans-1,4-Dichloro-2-butene	5.8		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.8		U
107-06-2	1,2-Dichloroethane	5.8		U
75-35-4	1,1-Dichloroethene	5.8		U
156-59-2	cis-1,2-Dichloroethene	2.9		U
156-60-5	trans-1,2-Dichloroethene	2.9		U
540-59-0	1,2-Dichloroethene (total)	5.8		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV68102

Date Extracted: 07/11/00

Dilution factor: 0.98

Date Analyzed: 07/11/00

Moisture %: 16

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.8		U
10061-01-5	cis-1,3-Dichloropropene	5.8		U
10061-02-6	trans-1,3-Dichloropropene	5.8		U
100-41-4	Ethylbenzene	5.8		U
97-63-2	Ethyl methacrylate	5.8		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.8		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.8		U
75-09-2	Methylene chloride	2.8		J B
80-62-6	Methyl methacrylate	5.8		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.8		U
630-20-6	1,1,1,2-Tetrachloroethane	5.8		U
79-34-5	1,1,2,2-Tetrachloroethane	5.8		U
127-18-4	Tetrachloroethene	5.8		U
108-88-3	Toluene	5.8		U
71-55-6	1,1,1-Trichloroethane	5.8		U
79-00-5	1,1,2-Trichloroethane	5.8		U
79-01-6	Trichloroethene	5.8		U
96-18-4	1,2,3-Trichloropropane	5.8		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.8		U
106-93-4	1,2-Dibromoethane (EDB)	5.8		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV68102

Date Extracted: 07/11/00

Dilution factor: 0.98

Date Analyzed: 07/11/00

Moisture %: 16

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1534-04-4	Methyl tert-butyl ether	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV69102

Date Extracted: 07/11/00

Dilution factor: 0.95

Date Analyzed: 07/11/00

Moisture %: 20

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-30-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	4.3		J B
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	5.9		U
75-27-4	Bromodichloromethane	5.9		U
75-25-2	Bromoform	5.9		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	5.9		U
56-23-5	Carbon tetrachloride	5.9		U
108-90-7	Chlorobenzene	5.9		U
126-99-8	Chloroprene	5.9		U
124-48-1	Dibromochloromethane	5.9		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	59		U
67-66-3	Chloroform	5.9		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	5.9		U
110-57-6	trans-1,4-Dichloro-2-butene	5.9		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.9		U
107-06-2	1,2-Dichloroethane	5.9		U
75-35-4	1,1-Dichloroethene	5.9		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	5.9		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DfV69102

Date Extracted: 07/11/00

Dilution factor: 0.95

Date Analyzed: 07/11/00

Moisture %: 20

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.9		U
10061-01-5	cis-1,3-Dichloropropene	5.9		U
10061-02-6	trans-1,3-Dichloropropene	5.9		U
100-41-4	Ethylbenzene	5.9		U
97-63-2	Ethyl methacrylate	5.9		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	5.9		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	5.9		U
75-09-2	Methylene chloride	3.6		J B
80-62-6	Methyl methacrylate	5.9		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	5.9		U
630-20-6	1,1,1,2-Tetrachloroethane	5.9		U
79-34-5	1,1,2,2-Tetrachloroethane	5.9		U
127-18-4	Tetrachloroethene	5.9		U
108-88-3	Toluene	5.9		U
71-55-6	1,1,1-Trichloroethane	5.9		U
79-00-5	1,1,2-Trichloroethane	5.9		U
79-01-6	Trichloroethene	5.9		U
96-18-4	1,2,3-Trichloropropane	5.9		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.9		U
106-93-4	1,2-Dibromoethane (EDB)	5.9		U
78-93-3	2-Butanone (MEK)	24		U
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV69102

Date Extracted: 07/11/00

Dilution factor: 0.95

Date Analyzed: 07/11/00

Moisture %: 20

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether	24	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.69 / g

Date Received: 07/07/00

Work Order: DFV6A102

Date Extracted: 07/07/00

Dilution factor: 1.07

Date Analyzed: 07/13/00

Moisture %: 13

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-31-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone	1200		U
75-05-8	Acetonitrile	6200		U
107-02-8	Acrolein	6200		U
107-13-1	Acrylonitrile	6200		U
71-43-2	Benzene	310		U
75-27-4	Bromodichloromethane	310		U
75-25-2	Bromoform	310		U
74-83-9	Bromomethane	620		U
75-15-0	Carbon disulfide	310		U
56-23-5	Carbon tetrachloride	310		U
108-90-7	Chlorobenzene	310		U
126-99-8	Chloroprene	310		U
124-48-1	Dibromochloromethane	310		U
96-12-8	1,2-Dibromo-3-chloropropane	620		U
75-00-3	Chloroethane	620		U
110-75-8	2-Chloroethyl vinyl ether	3100		U
67-66-3	Chloroform	310		U
74-87-3	Chloromethane	620		U
107-05-1	Allyl chloride	620		U
74-95-3	Dibromomethane	310		U
110-57-6	trans-1,4-Dichloro-2-butene	310		U
75-71-8	Dichlorodifluoromethane	620		U
75-34-3	1,1-Dichloroethane	310		U
107-06-2	1,2-Dichloroethane	310		U
75-35-4	1,1-Dichloroethene	310		U
156-59-2	cis-1,2-Dichloroethene	150		U
156-60-5	trans-1,2-Dichloroethene	150		U
540-59-0	1,2-Dichloroethene (total)	310		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 4.69 / g

Date Received: 07/07/00

Work Order: DFV6A102

Date Extracted: 07/07/00

Dilution factor: 1.07

Date Analyzed: 07/13/00

Moisture %: 13

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-31-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	310		U
10061-01-5	cis-1,3-Dichloropropene	310		U
10061-02-6	trans-1,3-Dichloropropene	310		U
100-41-4	Ethylbenzene	310		U
97-63-2	Ethyl methacrylate	310		U
75-69-4	Trichlorofluoromethane	620		U
591-78-6	2-Hexanone	1200		U
74-88-4	Iodomethane	310		U
78-83-1	Isobutyl alcohol	12000		U
126-98-7	Methacrylonitrile	310		U
75-09-2	Methylene chloride	80		J B
80-62-6	Methyl methacrylate	310		U
107-12-0	Propionitrile	1200		U
100-42-5	Styrene	310		U
630-20-6	1,1,1,2-Tetrachloroethane	310		U
79-34-5	1,1,2,2-Tetrachloroethane	310		U
127-18-4	Tetrachloroethene	71		J B
108-88-3	Toluene	310		U
71-55-6	1,1,1-Trichloroethane	310		U
79-00-5	1,1,2-Trichloroethane	310		U
79-01-6	Trichloroethene	310		U
96-18-4	1,2,3-Trichloropropane	310		U
108-05-4	Vinyl acetate	620		U
75-01-4	Vinyl chloride	620		U
1330-20-7	Xylenes (total)	310		U
1634-04-4	Methyl tert-butyl ether	1200		U
106-93-4	1,2-Dibromoethane (EDB)	310		U
78-93-3	2-Butanone (MEK)	1200		J B

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DfV6D102

Date Extracted: 07/11/00

Dilution factor: 1.08

Date Analyzed: 07/11/00

Moisture %: 15

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-32-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	3.0		J B
75-05-8	Acetonitrile	130		U
107-02-8	Acrolein	130		U
107-13-1	Acrylonitrile	130		U
71-43-2	Benzene	6.3		U
75-27-4	Bromodichloromethane	6.3		U
75-25-2	Bromoform	6.3		U
74-83-9	Bromomethane	13		U
75-15-0	Carbon disulfide	6.3		U
56-23-5	Carbon tetrachloride	6.3		U
108-90-7	Chlorobenzene	6.3		U
126-99-8	Chloroprene	6.3		U
124-48-1	Dibromochloromethane	6.3		U
96-12-8	1,2-Dibromo-3-chloropropane	13		U
75-00-3	Chloroethane	13		U
110-75-8	2-Chloroethyl vinyl ether	63		U
67-66-3	Chloroform	6.3		U
74-87-3	Chloromethane	13		U
107-05-1	Allyl chloride	13		U
74-95-3	Dibromomethane	6.3		U
110-57-6	trans-1,4-Dichloro-2-butene	6.3		U
75-71-8	Dichlorodifluoromethane	13		U
75-34-3	1,1-Dichloroethane	6.3		U
107-06-2	1,2-Dichloroethane	6.3		U
75-35-4	1,1-Dichloroethene	6.3		U
156-59-2	cis-1,2-Dichloroethene	3.2		U
156-60-5	trans-1,2-Dichloroethene	3.2		U
540-59-0	1,2-Dichloroethene (total)	6.3		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV6D102

Date Extracted: 07/11/00

Dilution factor: 1.08

Date Analyzed: 07/11/00

Moisture %: 15

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	6.3		U
10061-01-5	cis-1,3-Dichloropropene	6.3		U
10061-02-6	trans-1,3-Dichloropropene	6.3		U
100-41-4	Ethylbenzene	6.3		U
97-63-2	Ethyl methacrylate	6.3		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.3		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.3		U
75-09-2	Methylene chloride	3.6		J B
80-62-6	Methyl methacrylate	6.3		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.3		U
630-20-6	1,1,1,2-Tetrachloroethane	6.3		U
79-34-5	1,1,2,2-Tetrachloroethane	6.3		U
127-18-4	Tetrachloroethene	6.3		U
108-88-3	Toluene	6.3		U
71-55-6	1,1,1-Trichloroethane	6.3		U
79-00-5	1,1,2-Trichloroethane	6.3		U
79-01-6	Trichloroethene	6.3		U
96-18-4	1,2,3-Trichloropropane	6.3		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.3		U
106-93-4	1,2-Dibromoethane (EDB)	6.3		U
78-93-3	2-Butanone (MEK)	25		U
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DfV6L102

Date Extracted: 07/11/00

Dilution factor: 0.99

Date Analyzed: 07/11/00

Moisture %: 14

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-33-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone	23		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	5.8		U
75-27-4	Bromodichloromethane	5.8		U
75-25-2	Bromoform	5.8		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	5.8		U
56-23-5	Carbon tetrachloride	5.8		U
108-90-7	Chlorobenzene	5.8		U
126-99-8	Chloroprene	5.8		U
124-48-1	Dibromochloromethane	5.8		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	58		U
67-66-3	Chloroform	5.8		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	5.8		U
110-57-6	trans-1,4-Dichloro-2-butene	5.8		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.8		U
107-06-2	1,2-Dichloroethane	5.8		U
75-35-4	1,1-Dichloroethene	5.8		U
156-59-2	cis-1,2-Dichloroethene	2.9		U
156-60-5	trans-1,2-Dichloroethene	2.9		U
540-59-0	1,2-Dichloroethene (total)	5.8		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DFV6L102

Date Extracted: 07/11/00

Dilution factor: 0.99

Date Analyzed: 07/11/00

Moisture %: 14

QC Batch: 0194148

Client Sample Id: MPT-G4-SU-33-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.8		U
10061-01-5	cis-1,3-Dichloropropene	5.8		U
10061-02-6	trans-1,3-Dichloropropene	5.8		U
100-41-4	Ethylbenzene	5.8		U
97-63-2	Ethyl methacrylate	5.8		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.8		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.8		U
75-09-2	Methylene chloride	3.4		J B
80-62-6	Methyl methacrylate	5.8		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.8		U
630-20-6	1,1,1,2-Tetrachloroethane	5.8		U
79-34-5	1,1,2,2-Tetrachloroethane	5.8		U
127-18-4	Tetrachloroethene	5.8		U
108-88-3	Toluene	5.8		U
71-55-6	1,1,1-Trichloroethane	5.8		U
79-00-5	1,1,2-Trichloroethane	5.8		U
79-01-6	Trichloroethene	5.8		U
96-18-4	1,2,3-Trichloropropane	5.8		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.8		U
106-93-4	1,2-Dibromoethane (EDB)	5.8		U
78-93-3	2-Butanone (MEK)	23		U
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.21 / g

Date Received: 07/08/00

Work Order: DFWAG102

Date Extracted: 07/08/00

Dilution factor: 0.96

Date Analyzed: 07/13/00

Moisture %: 13

QC Batch: 0195360

Client Sample Id: MPT-G4-SU-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	260	J B
75-05-8	Acetonitrile	5500	U
107-02-8	Acrolein	5500	U
107-13-1	Acrylonitrile	5500	U
71-43-2	Benzene	280	U
75-27-4	Bromodichloromethane	280	U
75-25-2	Bromoform	280	U
74-83-9	Bromomethane	550	U
75-15-0	Carbon disulfide	280	U
56-23-5	Carbon tetrachloride	280	U
108-90-7	Chlorobenzene	280	U
126-99-8	Chloroprene	280	U
124-48-1	Dibromochloromethane	280	U
96-12-8	1,2-Dibromo-3-chloropropane	550	U
75-00-3	Chloroethane	550	U
110-75-8	2-Chloroethyl vinyl ether	2800	U
67-66-3	Chloroform	280	U
74-87-3	Chloromethane	550	U
107-05-1	Allyl chloride	550	U
74-95-3	Dibromomethane	280	U
110-57-6	trans-1,4-Dichloro-2-butene	280	U
75-71-8	Dichlorodifluoromethane	550	U
75-34-3	1,1-Dichloroethane	280	U
107-06-2	1,2-Dichloroethane	280	U
75-35-4	1,1-Dichloroethene	280	U
156-59-2	cis-1,2-Dichloroethene	140	U
156-60-5	trans-1,2-Dichloroethene	140	U
540-59-0	1,2-Dichloroethene (total)	280	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG080137 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.21 / g

Date Received: 07/08/00

Work Order: DFWAG102

Date Extracted: 07/08/00

Dilution factor: 0.96

Date Analyzed: 07/13/00

Moisture %: 13

QC Batch: 0195360

Client Sample Id: MPT-G4-SU-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	280		U
10061-01-5	cis-1,3-Dichloropropene	280		U
10061-02-6	trans-1,3-Dichloropropene	280		U
100-41-4	Ethylbenzene	280		U
97-63-2	Ethyl methacrylate	280		U
75-69-4	Trichlorofluoromethane	550		U
591-78-6	2-Hexanone	1100		U
74-88-4	Iodomethane	280		U
78-83-1	Isobutyl alcohol	11000		U
126-98-7	Methacrylonitrile	280		U
75-09-2	Methylene chloride	94		J
80-62-6	Methyl methacrylate	280		U
107-12-0	Propionitrile	1100		U
100-42-5	Styrene	280		U
630-20-6	1,1,1,2-Tetrachloroethane	280		U
79-34-5	1,1,2,2-Tetrachloroethane	280		U
127-18-4	Tetrachloroethene	280		U
108-88-3	Toluene	280		U
71-55-6	1,1,1-Trichloroethane	280		U
79-00-5	1,1,2-Trichloroethane	280		U
79-01-6	Trichloroethene	280		U
96-18-4	1,2,3-Trichloropropane	280		U
108-05-4	Vinyl acetate	550		U
75-01-4	Vinyl chloride	550		U
1330-20-7	Xylenes (total)	280		U
106-93-4	1,2-Dibromoethane (EDB)	280		U
78-93-3	2-Butanone (MEK)	1000		J B
108-10-1	4-Methyl-2-pentanone (MIBK)	1100		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.21 / g

Date Received: 07/08/00

Work Order: DFWAG102

Date Extracted: 07/08/00

Dilution factor: 0.96

Date Analyzed: 07/13/00

Moisture %: 13

QC Batch: 0195360

Client Sample Id: MPT-G4-SU-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether (MTB)	1100		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DFWAK102

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 11

QC Batch: 0199511

Client Sample Id: MPT-G4-SU-35-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	22		Q
75-05-8	Acetonitrile	110		Q
107-02-8	Acrolein	110		Q
107-13-1	Acrylonitrile	110		Q
71-43-2	Benzene	5.6		Q
75-27-4	Bromodichloromethane	5.6		Q
75-25-2	Bromoform	5.6		Q
74-83-9	Bromomethane	11		Q
75-15-0	Carbon disulfide	5.6		Q
56-23-5	Carbon tetrachloride	5.6		Q
108-90-7	Chlorobenzene	5.6		Q
126-99-8	Chloroprene	5.6		Q
124-48-1	Dibromochloromethane	5.6		Q
96-12-8	1,2-Dibromo-3-chloropropane	11		Q
75-00-3	Chloroethane	11		Q
110-75-8	2-Chloroethyl vinyl ether	56		Q
67-66-3	Chloroform	5.6		Q
74-87-3	Chloromethane	11		Q
107-05-1	Allyl chloride	11		Q
74-95-3	Dibromomethane	5.6		Q
110-57-6	trans-1,4-Dichloro-2-butene	5.6		Q
75-71-8	Dichlorodifluoromethane	11		Q
75-34-3	1,1-Dichloroethane	5.6		Q
107-06-2	1,2-Dichloroethane	5.6		Q
75-35-4	1,1-Dichloroethene	5.6		Q
156-59-2	cis-1,2-Dichloroethene	2.8		Q
156-60-5	trans-1,2-Dichloroethene	2.8		Q
540-59-0	1,2-Dichloroethene (total)	5.6		Q

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DFWAK102

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 11

QC Batch: 0199511

Client Sample Id: MPT-G4-SU-35-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.6		U
10061-01-5	cis-1,3-Dichloropropene	5.6		U
10061-02-6	trans-1,3-Dichloropropene	5.6		U
100-41-4	Ethylbenzene	5.6		U
97-63-2	Ethyl methacrylate	5.6		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	22		U
74-88-4	Iodomethane	5.6		U
78-83-1	Isobutyl alcohol	220		U
126-98-7	Methacrylonitrile	5.6		U
75-09-2	Methylene chloride	3.1		J
80-62-6	Methyl methacrylate	5.6		U
107-12-0	Propionitrile	22		U
100-42-5	Styrene	5.6		U
630-20-6	1,1,1,2-Tetrachloroethane	5.6		U
79-34-5	1,1,2,2-Tetrachloroethane	5.6		U
127-18-4	Tetrachloroethene	5.6		U
108-88-3	Toluene	5.6		U
71-55-6	1,1,1-Trichloroethane	5.6		U
79-00-5	1,1,2-Trichloroethane	5.6		U
79-01-6	Trichloroethene	5.6		U
96-18-4	1,2,3-Trichloropropane	5.6		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.6		U
1634-04-4	Methyl tert-butyl ether	22		U
106-93-4	1,2-Dibromoethane (EDB)	5.6		U
78-93-3	2-Butanone (MEK)	22		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG080137 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DFWAK102

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 11

QC Batch: 0199511

Client Sample Id: MPT-G4-SU-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	22	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DFWAL102

Date Extracted: 07/15/00

Dilution factor: 1.04

Date Analyzed: 07/15/00

Moisture %: 15

QC Batch: 0199185

Client Sample Id: MPT-G4-SU-37-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	4.1		J B
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.1		U
75-27-4	Bromodichloromethane	6.1		U
75-25-2	Bromoform	6.1		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.1		U
56-23-5	Carbon tetrachloride	6.1		U
108-90-7	Chlorobenzene	6.1		U
126-99-8	Chloroprene	6.1		U
124-48-1	Dibromochloromethane	6.1		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	61		U
67-66-3	Chloroform	6.1		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.1		U
110-57-6	trans-1,4-Dichloro-2-butene	6.1		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.1		U
107-06-2	1,2-Dichloroethane	6.1		U
75-35-4	1,1-Dichloroethene	6.1		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	6.1		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DFVAL102

Date Extracted: 07/15/00

Dilution factor: 1.04

Date Analyzed: 07/15/00

Moisture %: 15

QC Batch: 0199185

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
100-41-4	Ethylbenzene	6.1	U
97-63-2	Ethyl methacrylate	6.1	U
75-69-4	Trichlorofluoromethane	12	U
591-78-6	2-Hexanone	24	U
74-88-4	Iodomethane	6.1	U
78-83-1	Isobutyl alcohol	240	U
126-98-7	Methacrylonitrile	6.1	U
75-09-2	Methylene chloride	6.1	U
80-62-6	Methyl methacrylate	6.1	U
107-12-0	Propionitrile	24	U
100-42-5	Styrene	6.1	U
630-20-6	1,1,1,2-Tetrachloroethane	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U
127-18-4	Tetrachloroethene	6.1	U
108-88-3	Toluene	6.1	U
71-55-6	1,1,1-Trichloroethane	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
79-01-6	Trichloroethene	6.1	U
96-18-4	1,2,3-Trichloropropane	6.1	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Xylenes (total)	6.1	U
106-93-4	1,2-Dibromoethane (EDB)	6.1	U
78-93-3	2-Butanone (MEK)	24	U
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DFWAL102

Date Extracted: 07/15/00

Dilution factor: 1.04

Date Analyzed: 07/15/00

Moisture %: 15

QC Batch: 0199185

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.81 / g

Date Received: 07/07/00

Work Order: DfV6E102

Date Extracted: 07/07/00

Dilution factor: 0.86

Date Analyzed: 07/13/00

Moisture %: 17

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	230		J B
75-05-8	Acetonitrile	5200		U
107-02-8	Acrolein	5200		U
107-13-1	Acrylonitrile	5200		U
71-43-2	Benzene	260		U
75-27-4	Bromodichloromethane	260		U
75-25-2	Bromoform	260		U
74-83-9	Bromomethane	520		U
75-15-0	Carbon disulfide	260		U
56-23-5	Carbon tetrachloride	260		U
108-90-7	Chlorobenzene	260		U
126-99-8	Chloroprene	260		U
124-48-1	Dibromochloromethane	260		U
96-12-8	1,2-Dibromo-3-chloropropane	520		U
75-00-3	Chloroethane	520		U
110-75-8	2-Chloroethyl vinyl ether	2600		U
67-66-3	Chloroform	260		U
74-87-3	Chloromethane	520		U
107-05-1	Allyl chloride	520		U
74-95-3	Dibromomethane	260		U
110-57-6	trans-1,4-Dichloro-2-butene	260		U
75-71-8	Dichlorodifluoromethane	520		U
75-34-3	1,1-Dichloroethane	260		U
107-06-2	1,2-Dichloroethane	260		U
75-35-4	1,1-Dichloroethene	260		U
156-59-2	cis-1,2-Dichloroethene	130		U
156-60-5	trans-1,2-Dichloroethene	130		U
540-59-0	1,2-Dichloroethene (total)	260		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.81 / g

Date Received: 07/07/00

Work Order: DFV6E102

Date Extracted: 07/07/00

Dilution factor: 0.86

Date Analyzed: 07/13/00

Moisture %: 17

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	260		U
10061-01-5	cis-1,3-Dichloropropene	260		U
10061-02-6	trans-1,3-Dichloropropene	260		U
100-41-4	Ethylbenzene	260		U
97-63-2	Ethyl methacrylate	260		U
75-69-4	Trichlorofluoromethane	520		U
591-78-6	2-Hexanone	1000		U
74-88-4	Iodomethane	260		U
78-83-1	Isobutyl alcohol	10000		U
126-98-7	Methacrylonitrile	260		U
75-09-2	Methylene chloride	140		J B
80-62-6	Methyl methacrylate	260		U
107-12-0	Propionitrile	1000		U
100-42-5	Styrene	260		U
630-20-6	1,1,1,2-Tetrachloroethane	260		U
79-34-5	1,1,2,2-Tetrachloroethane	260		U
127-18-4	Tetrachloroethene	260		U
108-88-3	Toluene	260		U
71-55-6	1,1,1-Trichloroethane	260		U
79-00-5	1,1,2-Trichloroethane	260		U
79-01-6	Trichloroethene	260		U
96-18-4	1,2,3-Trichloropropane	260		U
108-05-4	Vinyl acetate	520		U
75-01-4	Vinyl chloride	520		U
1330-20-7	Xylenes (total)	260		U
1634-04-4	Methyl tert-butyl ether	1000		U
106-93-4	1,2-Dibromoethane (EDB)	260		U
78-93-3	2-Butanone (MEK)	860		J B

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG070231 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5.81 / g

Date Received: 07/07/00

Work Order: DFV6E102

Date Extracted: 07/07/00

Dilution factor: 0.86

Date Analyzed: 07/13/00

Moisture %: 17

QC Batch: 0195367

Client Sample Id: MPT-G4-SU-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1000		U

FORM I

Date: 11/30/00

VOA

Due to the presence of target analytes, soil samples MPT-G4-SU-26-05, MPT-G4-SU-28-05, MPT-G4-SU-31-08, MPT-G4-SU-34-05 and MPT-G4-SU-DU02 were analyzed and reported using the medium level (conc.) method. This accounts for the elevated reporting limits for these samples.

The following compounds were detected in laboratory method blanks. * Denotes medium level method blanks:

<u>Compound</u>	<u>Maximum Concentration (ug/kg)</u>	<u>Blank Action Level (ug/kg)</u>
Acetone	4.4	44
Methylene chloride	4.8	48
*Acetone	580	5800
*Methylene chloride	80	8000
*2-butanone	890	8900
*Tetrachloroethene	35	175

Sample aliquot, % moisture and dilution factors were taken into consideration when applying blank action levels. The symbol * indicates analytes detected in medium level method blanks and only apply to samples analyzed using the medium level method. Positive results reported for the above compounds at concentrations less than action levels were qualified as undetected (U) in the affected samples. Field quality control blanks were not qualified based on method blank contamination.

Initial calibration Relative Response Factors (RRFs) fell below the 0.05 quality control limit for acrolein, acetonitrile and isobutyl alcohol on 6/29/00, on instrument A3UX9. Only nondetected results were reported for acrolein, acetonitrile and isobutyl alcohol and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein, acetonitrile, isobutyl alcohol and propionitrile on 7/5/00, 10:47 and 11:12, on instrument A3UX9. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

Continuing calibration verification %Differences (%Ds) exceeded the 25% quality control limit for methacrylonitrile, isobutyl alcohol and methyl methacrylate on 7/5/00, 11:12, on instrument A3UX9. Only nondetected results were reported for methacrylonitrile and methyl methacrylate and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected result reported for isobutyl alcohol was previously qualified for the above RRF noncompliance and did not require further qualification.

Initial calibration RRFs fell below the 0.05 quality control limit for acrolein and isobutyl alcohol on 7/8/00, on instrument A3UX9. Only nondetected results were reported for acrolein and isobutyl alcohol and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein and isobutyl alcohol on 7/11/00, 08:27 and 08:2, on instrument A3UX9. Only nondetected results were reported for acrolein and isobutyl alcohol and these were rejected (UR) in the affected samples.

A continuing calibration verification %D exceeded the 25% quality control limit for propionitrile on 7/11/00, 08:21, on instrument A3UX9. Only nondetected results were reported for propionitrile and these were qualified as estimated (UJ) in the affected samples.

STL Cooler Receipt Form/Narrative North Canton Facility

Client: YETRA TSCH Project: _____ Quote#: _____
 Cooler Received on: 7/7/00 Opened on: 7/7/00 by: _____
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: See BACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location overlid
 - Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt See any °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
 Concerning: _____

MACRO | **MACRO**

CHAIN OF CUSTODY	
SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____ _____

SAMPLE CONDITION	
SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

SAMPLE PRESERVATION	
SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

NCM	
SR4A	NCM has been generated. Refer to Clouseau for details

Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativ\stl\cooler_stl.doc

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 07/01/00

Work Order: DFN4210W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 22

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-18-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	420	U
1888-71-7	Hexachloropropene	4200	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
120-58-1	Isosafrole	840	U
91-80-5	Methapyrilene	2000	U
95-53-4	o-Toluidine	840	U
56-49-5	3-Methylcholanthrene	840	U
66-27-3	Methyl methanesulfonate	420	U
91-57-6	2-Methylnaphthalene	420	U
95-48-7	2-Methylphenol	420	U
108-39-4	3-Methylphenol	420	U
106-44-5	4-Methylphenol	420	U
91-20-3	Naphthalene	420	U
130-15-4	1,4-Naphthoquinone	2000	U
134-32-7	1-Naphthylamine	420	U
91-59-8	2-Naphthylamine	420	U
88-74-4	2-Nitroaniline	2000	U
99-09-2	3-Nitroaniline	2000	U
100-01-6	4-Nitroaniline	2000	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	2000	U
56-57-5	4-Nitroquinoline-1-oxide	4200	U
924-16-3	N-Nitrosodi-n-butylamine	420	U
55-18-5	N-Nitrosodiethylamine	420	U
62-75-9	N-Nitrosodimethylamine	420	U
621-64-7	N-Nitrosodi-n-propylamine	420	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 07/01/00

Work Order: DFN4210W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 22

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-18-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	420		U
10595-95-6	N-Nitrosomethylethylamine	420		U
59-89-2	N-Nitrosomorpholine	420		U
100-75-4	N-Nitrosopiperidine	420		U
930-55-2	N-Nitrosopyrrolidine	420		U
99-55-8	5-Nitro-o-toluidine	840		U
608-93-5	Pentachlorobenzene	420		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	840		U
85-01-8	Phenanthrene	420		U
108-95-2	Phenol	420		U
106-50-3	p-Phenylene diamine	4200		U
109-06-8	2-Picoline	840		U
23950-58-5	Pronamide	840		U
129-00-0	Pyrene	420		U
110-86-1	Pyridine	840		U
94-59-7	Safrole	840		U
95-94-3	1,2,4,5-Tetrachlorobenzene	420		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	420		U
95-95-4	2,4,5-Trichlorophenol	420		U
88-06-2	2,4,6-Trichlorophenol	420		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	420		U
510-15-6	Chlorobenzilate	420		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 07/01/00

Work Order: DFN4210W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 22

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-18-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		840	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4220W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 22

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-18-08 -RE 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	420		U
208-96-8	Acenaphthylene	420		U
98-86-2	Acetophenone	420		U
53-96-3	2-Acetylaminofluorene	4200		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	420		U
120-12-7	Anthracene	420		U
56-55-3	Benzo (a) anthracene	420		U
205-99-2	Benzo (b) fluoranthene	420		U
207-08-9	Benzo (k) fluoranthene	420		U
191-24-2	Benzo (ghi) perylene	420		U
50-32-8	Benzo (a) pyrene	420		U
100-51-6	Benzyl alcohol	420		U
111-91-1	bis (2-Chloroethoxy) methane	420		U
111-44-4	bis (2-Chloroethyl) ether	420		U
108-60-1	2, 2'-Oxybis (1-Chloropropane)	420		U
117-81-7	bis (2-Ethylhexyl) phthalate	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
85-68-7	Butyl benzyl phthalate	420		U
106-47-8	4-Chloroaniline	420		U
59-50-7	4-Chloro-3-methylphenol	420		U
91-58-7	2-Chloronaphthalene	420		U
95-57-8	2-Chlorophenol	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
218-01-9	Chrysene	420		U
2303-16-4	Diallate	840		U
53-70-3	Dibenz (a, h) anthracene	420		U
132-64-9	Dibenzofuran	420		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4220W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 22

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-18-08 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	420	U
95-50-1	1,2-Dichlorobenzene	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	420	U
87-65-0	2,6-Dichlorophenol	420	U
84-66-2	Diethyl phthalate	420	U
60-11-7	p-Dimethylaminoazobenzene	840	U
57-97-6	7,12-Dimethylbenz(a)anthracene	840	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	420	U
131-11-3	Dimethyl phthalate	420	U
117-84-0	Di-n-octyl phthalate	420	U
99-65-0	1,3-Dinitrobenzene	420	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	840	U
123-91-1	1,4-Dioxane	420	U
122-39-4	Diphenylamine	420	U
62-50-0	Ethyl methanesulfonate	420	U
206-44-0	Fluoranthene	420	U
86-73-7	Fluorene	420	U
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U
77-47-4	Hexachlorocyclopentadiene	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4220W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 22

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-18-08 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	420		U
1888-71-7	Hexachloropropene	4200		U
193-39-5	Indeno(1,2,3-cd)pyrene	420		U
78-59-1	Isophorone	420		U
120-58-1	Isosafrole	840		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	840		U
56-49-5	3-Methylcholanthrene	840		U
66-27-3	Methyl methanesulfonate	420		U
91-57-6	2-Methylnaphthalene	420		U
95-48-7	2-Methylphenol	420		U
108-39-4	3-Methylphenol	420		U
106-44-5	4-Methylphenol	420		U
91-20-3	Naphthalene	420		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	420		U
91-59-8	2-Naphthylamine	420		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	420		U
88-75-5	2-Nitrophenol	420		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4200		U
924-16-3	N-Nitrosodi-n-butylamine	420		U
55-18-5	N-Nitrosodiethylamine	420		U
62-75-9	N-Nitrosodimethylamine	420		U
621-64-7	N-Nitrosodi-n-propylamine	420		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4220W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 22

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-18-08 -RE 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	420		U
10595-95-6	N-Nitrosomethylethylamine	420		U
59-89-2	N-Nitrosomorpholine	420		U
100-75-4	N-Nitrosopiperidine	420		U
930-55-2	N-Nitrosopyrrolidine	420		U
99-55-8	5-Nitro-o-toluidine	840		U
608-93-5	Pentachlorobenzene	420		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	840		U
85-01-8	Phenanthrene	420		U
108-95-2	Phenol	420		U
106-50-3	p-Phenylene diamine	4200		U
109-06-8	2-Picoline	840		U
23950-58-5	Pronamide	840		U
129-00-0	Pyrene	420		U
110-86-1	Pyridine	840		U
94-59-7	Safrole	840		U
95-94-3	1,2,4,5-Tetrachlorobenzene	420		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	420		U
95-95-4	2,4,5-Trichlorophenol	420		U
88-06-2	2,4,6-Trichlorophenol	420		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	420		U
510-15-6	Chlorobenzilate	420		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4220W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 22

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-18-08 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		840	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/01/00

Work Order: DFN4310W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	380		U
205-99-2	Benzo(b)fluoranthene	380		U
207-08-9	Benzo(k)fluoranthene	380		U
191-24-2	Benzo(ghi)perylene	380		U
50-32-8	Benzo(a)pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	760		U
53-70-3	Dibenz(a,h)anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/01/00

Work Order: DFN4310W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	380	U
87-65-0	2,6-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U
60-11-7	p-Dimethylaminoazobenzene	760	U
57-97-6	7,12-Dimethylbenz(a)anthracene	760	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
99-65-0	1,3-Dinitrobenzene	380	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	760	U
123-91-1	1,4-Dioxane	380	U
122-39-4	Diphenylamine	380	U
62-50-0	Ethyl methanesulfonate	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/01/00

Work Order: DFN4310W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	380		U
1888-71-7	Hexachloropropene	3800		U
193-39-5	Indeno(1,2,3-cd)pyrene	380		U
78-59-1	Isophorone	380		U
120-58-1	Isosafrole	760		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	760		U
56-49-5	3-Methylcholanthrene	760		U
66-27-3	Methyl methanesulfonate	380		U
91-57-6	2-Methylnaphthalene	380		U
95-48-7	2-Methylphenol	380		U
108-39-4	3-Methylphenol	380		U
106-44-5	4-Methylphenol	380		U
91-20-3	Naphthalene	380		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	380		U
91-59-8	2-Naphthylamine	380		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	380		U
88-75-5	2-Nitrophenol	380		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3800		U
924-16-3	N-Nitrosodi-n-butylamine	380		U
55-18-5	N-Nitrosodiethylamine	380		U
62-75-9	N-Nitrosodimethylamine	380		U
621-64-7	N-Nitrosodi-n-propylamine	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/01/00

Work Order: DFN4310W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-19-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	380		U
10595-95-6	N-Nitrosomethylethylamine	380		U
59-89-2	N-Nitrosomorpholine	380		U
100-75-4	N-Nitrosopiperidine	380		U
930-55-2	N-Nitrosopyrrolidine	380		U
99-55-8	5-Nitro-o-toluidine	760		U
608-93-5	Pentachlorobenzene	380		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	760		U
85-01-8	Phenanthrene	380		U
108-95-2	Phenol	380		U
106-50-3	p-Phenylene diamine	3800		U
109-06-8	2-Picoline	760		U
23950-58-5	Pronamide	760		U
129-00-0	Pyrene	380		U
110-86-1	Pyridine	760		U
94-59-7	Safrole	760		U
95-94-3	1,2,4,5-Tetrachlorobenzene	380		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	380		U
95-95-4	2,4,5-Trichlorophenol	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	380		U
510-15-6	Chlorobenzilate	380		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/01/00

Work Order: DFN4310W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-19-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	760		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4410W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-20-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	970		
205-99-2	Benzo(b)fluoranthene	1200		
207-08-9	Benzo(k)fluoranthene	450		
191-24-2	Benzo(ghi)perylene	270		J
50-32-8	Benzo(a)pyrene	790		
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	1100		
2303-16-4	Diallate	770		U
53-70-3	Dibenz(a,h)anthracene	72		J
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4410W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-20-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	380		U
95-50-1	1,2-Dichlorobenzene	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	380		U
87-65-0	2,6-Dichlorophenol	380		U
84-66-2	Diethyl phthalate	380		U
60-11-7	p-Dimethylaminoazobenzene	770		U
57-97-6	7,12-Dimethylbenz(a)anthracene	770		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	380		U
131-11-3	Dimethyl phthalate	380		U
117-84-0	Di-n-octyl phthalate	380		U
99-65-0	1,3-Dinitrobenzene	380		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770		U
123-91-1	1,4-Dioxane	380		U
122-39-4	Diphenylamine	380		U
62-50-0	Ethyl methanesulfonate	380		U
206-44-0	Fluoranthene	830		
86-73-7	Fluorene	380		U
118-74-1	Hexachlorobenzene	380		U
87-68-3	Hexachlorobutadiene	380		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4410W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-20-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	380	U
1888-71-7	Hexachloropropene	3800	U
193-39-5	Indeno (1,2,3-cd)pyrene	340	J
78-59-1	Isophorone	380	U
120-58-1	Isosafrole	770	U
91-80-5	Methapyrilene	1900	U
95-53-4	o-Toluidine	770	U
56-49-5	3-Methylcholanthrene	770	U
66-27-3	Methyl methanesulfonate	380	U
91-57-6	2-Methylnaphthalene	380	U
95-48-7	2-Methylphenol	380	U
108-39-4	3-Methylphenol	380	U
106-44-5	4-Methylphenol	380	U
91-20-3	Naphthalene	380	U
130-15-4	1,4-Naphthoquinone	1900	U
134-32-7	1-Naphthylamine	380	U
91-59-8	2-Naphthylamine	380	U
88-74-4	2-Nitroaniline	1900	U
99-09-2	3-Nitroaniline	1900	U
100-01-6	4-Nitroaniline	1900	U
98-95-3	Nitrobenzene	380	U
88-75-5	2-Nitrophenol	380	U
100-02-7	4-Nitrophenol	1900	U
56-57-5	4-Nitroquinoline-1-oxide	3800	U
924-16-3	N-Nitrosodi-n-butylamine	380	U
55-18-5	N-Nitrosodiethylamine	380	U
62-75-9	N-Nitrosodimethylamine	380	U
621-64-7	N-Nitrosodi-n-propylamine	380	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4410W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-20-10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	380		U
10595-95-6	N-Nitrosomethylethylamine	380		U
59-89-2	N-Nitrosomorpholine	380		U
100-75-4	N-Nitrosopiperidine	380		U
930-55-2	N-Nitrosopyrrolidine	380		U
99-55-8	5-Nitro-o-toluidine	770		U
608-93-5	Pentachlorobenzene	380		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	770		U
85-01-8	Phenanthrene	52		J
108-95-2	Phenol	380		U
106-50-3	p-Phenylene diamine	3800		U
109-06-8	2-Picoline	770		U
23950-58-5	Pronamide	770		U
129-00-0	Pyrene	1200		
110-86-1	Pyridine	770		U
94-59-7	Safrole	770		U
95-94-3	1,2,4,5-Tetrachlorobenzene	380		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	380		U
95-95-4	2,4,5-Trichlorophenol	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	380		U
510-15-6	Chlorobenzilate	380		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4410W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 14

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-20-10

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	770		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SO Lab Sample ID: A0G020104 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g Date Received: 07/01/00
 Work Order: DFN4510W Date Extracted: 07/07/00
 Dilution factor: 1 Date Analyzed: 07/14/00
 Moisture %: 17

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-21-07

*All base/neutral soil < 10%
 Acid soil < 10% rec.*

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
83-32-9	Acenaphthene	400	U
208-96-8	Acenaphthylene	400	U
98-86-2	Acetophenone	400	U
53-96-3	2-Acetylaminofluorene	4000	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	400	U
120-12-7	Anthracene	400	U
56-55-3	Benzo(a)anthracene	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
191-24-2	Benzo(ghi)perylene	400	U
50-32-8	Benzo(a)pyrene	400	U
100-51-6	Benzyl alcohol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
111-44-4	bis(2-Chloroethyl) ether	400	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	400	U
117-81-7	bis(2-Ethylhexyl) phthalate	400	U
101-55-3	4-Bromophenyl phenyl ether	400	U
85-68-7	Butyl benzyl phthalate	400	U
106-47-8	4-Chloroaniline	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-58-7	2-Chloronaphthalene	400	U
95-57-8	2-Chlorophenol	400	U
7005-72-3	4-Chlorophenyl phenyl ether	400	U
218-01-9	Chrysene	400	U
2303-16-4	Diallate	790	U
53-70-3	Dibenz(a,h)anthracene	400	U
132-64-9	Dibenzofuran	400	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP015

Matrix: (soil/water) SO

Lab Sample ID:A0G020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4510W

Date Extracted:07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:17

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-21-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	400		U
95-50-1	1,2-Dichlorobenzene	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	400		U
87-65-0	2,6-Dichlorophenol	400		U
84-66-2	Diethyl phthalate	400		U
60-11-7	p-Dimethylaminoazobenzene	790		U
57-97-6	7,12-Dimethylbenz(a)anthrace	790		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	400		U
131-11-3	Dimethyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
99-65-0	1,3-Dinitrobenzene	400		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
88-85-7	2-sec-Butyl-4,6-dinitropheno	790		U
123-91-1	1,4-Dioxane	400		U
122-39-4	Diphenylamine	400		U
62-50-0	Ethyl methanesulfonate	400		U
206-44-0	Fluoranthene	400		U
86-73-7	Fluorene	400		U
118-74-1	Hexachlorobenzene	400		U
87-68-3	Hexachlorobutadiene	400		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4510W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 17

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-21-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	400		U
1888-71-7	Hexachloropropene	4000		U
193-39-5	Indeno(1,2,3-cd)pyrene	400		U
78-59-1	Isophorone	400		U
120-58-1	Isosafrole	790		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	790		U
56-49-5	3-Methylcholanthrene	790		U
66-27-3	Methyl methanesulfonate	400		U
91-57-6	2-Methylnaphthalene	400		U
95-48-7	2-Methylphenol	400		U
108-39-4	3-Methylphenol	400		U
106-44-5	4-Methylphenol	400		U
91-20-3	Naphthalene	400		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	400		U
91-59-8	2-Naphthylamine	400		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	400		U
88-75-5	2-Nitrophenol	400		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	4000		U
924-16-3	N-Nitrosodi-n-butylamine	400		U
55-18-5	N-Nitrosodiethylamine	400		U
62-75-9	N-Nitrosodimethylamine	400		U
621-64-7	N-Nitrosodi-n-propylamine	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4510W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 17

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-21-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	790		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	790		U
85-01-8	Phenanthrene	400		U
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	790		U
23950-58-5	Pronamide	790		U
129-00-0	Pyrene	400		U
110-86-1	Pyridine	790		U
94-59-7	Safrole	790		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 07/01/00

Work Order: DFN4510W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 17

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-21-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite		790	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 07/01/00

Work Order: DFN4520W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 17

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-21-07 -RE 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
98-86-2	Acetophenone	400		U
53-96-3	2-Acetylaminofluorene	4000		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	400		U
120-12-7	Anthracene	400		U
56-55-3	Benzo (a) anthracene	400		U
205-99-2	Benzo (b) fluoranthene	400		U
207-08-9	Benzo (k) fluoranthene	400		U
191-24-2	Benzo (ghi) perylene	400		U
50-32-8	Benzo (a) pyrene	400		U
100-51-6	Benzyl alcohol	400		U
111-91-1	bis(2-Chloroethoxy)methane	400		U
111-44-4	bis(2-Chloroethyl) ether	400		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	400		U
117-81-7	bis(2-Ethylhexyl) phthalate	400		U
101-55-3	4-Bromophenyl phenyl ether	400		U
85-68-7	Butyl benzyl phthalate	400		U
106-47-8	4-Chloroaniline	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-58-7	2-Chloronaphthalene	400		U
95-57-8	2-Chlorophenol	400		U
7005-72-3	4-Chlorophenyl phenyl ether	400		U
218-01-9	Chrysene	400		U
2303-16-4	Diallate	790		U
53-70-3	Dibenz (a, h) anthracene	400		U
132-64-9	Dibenzofuran	400		U

J - H

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 07/01/00

Work Order: DFN4520W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 17

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-21-07 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	400	U
95-50-1	1,2-Dichlorobenzene	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	400	U
87-65-0	2,6-Dichlorophenol	400	U
84-66-2	Diethyl phthalate	400	U
60-11-7	p-Dimethylaminoazobenzene	790	U
57-97-6	7,12-Dimethylbenz(a)anthrace	790	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	400	U
131-11-3	Dimethyl phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
99-65-0	1,3-Dinitrobenzene	400	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	790	U
123-91-1	1,4-Dioxane	400	U
122-39-4	Diphenylamine	400	U
62-50-0	Ethyl methanesulfonate	400	U
206-44-0	Fluoranthene	400	U
86-73-7	Fluorene	400	U
118-74-1	Hexachlorobenzene	400	U
87-68-3	Hexachlorobutadiene	400	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 07/01/00

Work Order: DFN4520W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 17

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-21-07 -RE 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	400		U
1888-71-7	Hexachloropropene	4000		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	400		U
78-59-1	Isophorone	400		U
120-58-1	Isosafrole	790		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	790		U
56-49-5	3-Methylcholanthrene	790		U
66-27-3	Methyl methanesulfonate	400		U
91-57-6	2-Methylnaphthalene	400		U
95-48-7	2-Methylphenol	400		U
108-39-4	3-Methylphenol	400		U
106-44-5	4-Methylphenol	400		U
91-20-3	Naphthalene	400		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	400		U
91-59-8	2-Naphthylamine	400		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	400		U
88-75-5	2-Nitrophenol	400		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	4000		U
924-16-3	N-Nitrosodi-n-butylamine	400		U
55-18-5	N-Nitrosodiethylamine	400		U
62-75-9	N-Nitrosodimethylamine	400		U
621-64-7	N-Nitrosodi-n-propylamine	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 07/01/00

Work Order: DFN4520W

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: 17

QC Batch: 0197094

Client Sample Id: MPT-G4-SU-21-07 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	400	U
10595-95-6	N-Nitrosomethylethylamine	400	U
59-89-2	N-Nitrosomorpholine	400	U
100-75-4	N-Nitrosopiperidine	400	U
930-55-2	N-Nitrosopyrrolidine	400	U
99-55-8	5-Nitro-o-toluidine	790	U
608-93-5	Pentachlorobenzene	400	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	790	U
85-01-8	Phenanthrene	400	U
108-95-2	Phenol	400	U
106-50-3	p-Phenylene diamine	4000	U
109-06-8	2-Picoline	790	U
23950-58-5	Pronamide	790	U
129-00-0	Pyrene	400	U
110-86-1	Pyridine	790	U
94-59-7	Safrole	790	U
95-94-3	1,2,4,5-Tetrachlorobenzene	400	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	400	U
510-15-6	Chlorobenzilate	400	U
122-09-8	a, a-Dimethylphenethylamine	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DFN4610W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 10

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo (a) anthracene	170		J
205-99-2	Benzo (b) fluoranthene	210		J
207-08-9	Benzo (k) fluoranthene	72		J
191-24-2	Benzo (ghi) perylene	57		J
50-32-8	Benzo (a) pyrene	130		J
100-51-6	Benzyl alcohol	370		U
111-91-1	bis (2-Chloroethoxy) methane	370		U
111-44-4	bis (2-Chloroethyl) ether	370		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	370		U
117-81-7	bis (2-Ethylhexyl) phthalate	370		U
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	180		J
2303-16-4	Diallate	730		U
53-70-3	Dibenz (a, h) anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DFN4610W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 10

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	370		U
95-50-1	1,2-Dichlorobenzene	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
91-94-1	3,3'-Dichlorobenzidine	1800		U
120-83-2	2,4-Dichlorophenol	370		U
87-65-0	2,6-Dichlorophenol	370		U
84-66-2	Diethyl phthalate	370		U
60-11-7	p-Dimethylaminoazobenzene	730		U
57-97-6	7,12-Dimethylbenz(a)anthracene	730		U
119-93-7	3,3'-Dimethylbenzidine	1800		U
105-67-9	2,4-Dimethylphenol	370		U
131-11-3	Dimethyl phthalate	370		U
117-84-0	Di-n-octyl phthalate	370		U
99-65-0	1,3-Dinitrobenzene	370		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
51-28-5	2,4-Dinitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	370		U
606-20-2	2,6-Dinitrotoluene	370		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	730		U
123-91-1	1,4-Dioxane	370		U
122-39-4	Diphenylamine	370		U
62-50-0	Ethyl methanesulfonate	370		U
206-44-0	Fluoranthene	250		J
86-73-7	Fluorene	370		U
118-74-1	Hexachlorobenzene	370		U
87-68-3	Hexachlorobutadiene	370		U
77-47-4	Hexachlorocyclopentadiene	1800		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP015

Matrix: (soil/water) SO

Lab Sample ID:A0G020104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DFN4610W

Date Extracted:07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %:10

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	370	U
1888-71-7	Hexachloropropene	3700	U
193-39-5	Indeno (1,2,3-cd)pyrene	63	J
78-59-1	Isophorone	370	U
120-58-1	Isosafrole	730	U
91-80-5	Methapyrilene	1800	U
95-53-4	o-Toluidine	730	U
56-49-5	3-Methylcholanthrene	730	U
66-27-3	Methyl methanesulfonate	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
108-39-4	3-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
130-15-4	1,4-Naphthoquinone	1800	U
134-32-7	1-Naphthylamine	370	U
91-59-8	2-Naphthylamine	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
56-57-5	4-Nitroquinoline-1-oxide	3700	U
924-16-3	N-Nitrosodi-n-butylamine	370	U
55-18-5	N-Nitrosodiethylamine	370	U
62-75-9	N-Nitrosodimethylamine	370	U
621-64-7	N-Nitrosodi-n-propylamine	370	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DFN4610W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 10

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-22-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	370		U
10595-95-6	N-Nitrosomethylethylamine	370		U
59-89-2	N-Nitrosomorpholine	370		U
100-75-4	N-Nitrosopiperidine	370		U
930-55-2	N-Nitrosopyrrolidine	370		U
99-55-8	5-Nitro-o-toluidine	730		U
608-93-5	Pentachlorobenzene	370		U
76-01-7	Pentachloroethane	1800		U
82-68-8	Pentachloronitrobenzene	1800		U
87-86-5	Pentachlorophenol	1800		U
62-44-2	Phenacetin	730		U
85-01-8	Phenanthrene	370		U
108-95-2	Phenol	370		U
106-50-3	p-Phenylene diamine	3700		U
109-06-8	2-Picoline	730		U
23950-58-5	Pronamide	730		U
129-00-0	Pyrene	270		J
110-86-1	Pyridine	730		U
94-59-7	Safrole	730		U
95-94-3	1,2,4,5-Tetrachlorobenzene	370		U
58-90-2	2,3,4,6-Tetrachlorophenol	1800		U
120-82-1	1,2,4-Trichlorobenzene	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
99-35-4	1,3,5-Trinitrobenzene	1800		U
86-74-8	Carbazole	370		U
510-15-6	Chlorobenzilate	370		U
122-09-8	a, a-Dimethylphenethylamine	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DFN4610W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 10

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-22-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	730		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/01/00

Work Order: DFN4710W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 8.0

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-23-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo (a) anthracene	220		J
205-99-2	Benzo (b) fluoranthene	270		J
207-08-9	Benzo (k) fluoranthene	92		J
191-24-2	Benzo (ghi) perylene	68		J
50-32-8	Benzo (a) pyrene	170		J
100-51-6	Benzyl alcohol	360		U
111-91-1	bis (2-Chloroethoxy) methane	360		U
111-44-4	bis (2-Chloroethyl) ether	360		U
108-60-1	2, 2'-Oxybis (1-Chloropropane)	360		U
117-81-7	bis (2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	230		J
2303-16-4	Diallate	720		U
53-70-3	Dibenz (a, h) anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/01/00

Work Order: DFN4710W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 8.0

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
84-74-2	Di-n-butyl phthalate	360	U
95-50-1	1,2-Dichlorobenzene	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
120-83-2	2,4-Dichlorophenol	360	U
87-65-0	2,6-Dichlorophenol	360	U
84-66-2	Diethyl phthalate	360	U
60-11-7	p-Dimethylaminoazobenzene	720	U
57-97-6	7,12-Dimethylbenz(a)anthracene	720	U
119-93-7	3,3'-Dimethylbenzidine	1700	U
105-67-9	2,4-Dimethylphenol	360	U
131-11-3	Dimethyl phthalate	360	U
117-84-0	Di-n-octyl phthalate	360	U
99-65-0	1,3-Dinitrobenzene	360	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	720	U
123-91-1	1,4-Dioxane	360	U
122-39-4	Diphenylamine	360	U
62-50-0	Ethyl methanesulfonate	360	U
206-44-0	Fluoranthene	300	J
86-73-7	Fluorene	360	U
118-74-1	Hexachlorobenzene	360	U
87-68-3	Hexachlorobutadiene	360	U
77-47-4	Hexachlorocyclopentadiene	1700	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/01/00

Work Order: DFN4710W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 8.0

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	360		U
1888-71-7	Hexachloropropene	3600		U
193-39-5	Indeno (1,2,3-cd) pyrene	79		J
78-59-1	Isophorone	360		U
120-58-1	Isosafrole	720		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	720		U
56-49-5	3-Methylcholanthrene	720		U
66-27-3	Methyl methanesulfonate	360		U
91-57-6	2-Methylnaphthalene	360		U
95-48-7	2-Methylphenol	360		U
108-39-4	3-Methylphenol	360		U
106-44-5	4-Methylphenol	360		U
91-20-3	Naphthalene	360		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	360		U
91-59-8	2-Naphthylamine	360		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	360		U
88-75-5	2-Nitrophenol	360		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3600		U
924-16-3	N-Nitrosodi-n-butylamine	360		U
55-18-5	N-Nitrosodiethylamine	360		U
62-75-9	N-Nitrosodimethylamine	360		U
621-64-7	N-Nitrosodi-n-propylamine	360		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/01/00

Work Order: DFN4710W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 8.0

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	360	U
10595-95-6	N-Nitrosomethylethylamine	360	U
59-89-2	N-Nitrosomorpholine	360	U
100-75-4	N-Nitrosopiperidine	360	U
930-55-2	N-Nitrosopyrrolidine	360	U
99-55-8	5-Nitro-o-toluidine	720	U
608-93-5	Pentachlorobenzene	360	U
76-01-7	Pentachloroethane	1700	U
82-68-8	Pentachloronitrobenzene	1700	U
87-86-5	Pentachlorophenol	1700	U
62-44-2	Phenacetin	720	U
85-01-8	Phenanthrene	56	J
108-95-2	Phenol	360	U
106-50-3	p-Phenylene diamine	3600	U
109-06-8	2-Picoline	720	U
23950-58-5	Pronamide	720	U
129-00-0	Pyrene	340	J
110-86-1	Pyridine	720	U
94-59-7	Safrole	720	U
95-94-3	1,2,4,5-Tetrachlorobenzene	360	U
58-90-2	2,3,4,6-Tetrachlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
99-35-4	1,3,5-Trinitrobenzene	1700	U
86-74-8	Carbazole	360	U
510-15-6	Chlorobenzilate	360	U
122-09-8	a,a-Dimethylphenethylamine	1700	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG020104 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/01/00

Work Order: DFN4710W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 8.0

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-23-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	720		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 07/06/00

Work Order: DFRAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
98-86-2	Acetophenone	400		U
53-96-3	2-Acetylaminofluorene	4000		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	400		U
120-12-7	Anthracene	400		U
56-55-3	Benzo(a)anthracene	400		U
205-99-2	Benzo(b)fluoranthene	400		U
207-08-9	Benzo(k)fluoranthene	400		U
191-24-2	Benzo(ghi)perylene	400		U
50-32-8	Benzo(a)pyrene	400		U
100-51-6	Benzyl alcohol	400		U
111-91-1	bis(2-Chloroethoxy)methane	400		U
111-44-4	bis(2-Chloroethyl) ether	400		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	400		U
117-81-7	bis(2-Ethylhexyl) phthalate	400		U
101-55-3	4-Bromophenyl phenyl ether	400		U
85-68-7	Butyl benzyl phthalate	400		U
106-47-8	4-Chloroaniline	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-58-7	2-Chloronaphthalene	400		U
95-57-8	2-Chlorophenol	400		U
7005-72-3	4-Chlorophenyl phenyl ether	400		U
218-01-9	Chrysene	400		U
2303-16-4	Diallate	810		U
53-70-3	Dibenz(a,h)anthracene	400		U
132-64-9	Dibenzofuran	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 07/06/00

Work Order: DFRAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	400		U
95-50-1	1,2-Dichlorobenzene	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	400		U
87-65-0	2,6-Dichlorophenol	400		U
84-66-2	Diethyl phthalate	400		U
60-11-7	p-Dimethylaminoazobenzene	810		U
57-97-6	7,12-Dimethylbenz(a)anthracene	810		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	400		U
131-11-3	Dimethyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
99-65-0	1,3-Dinitrobenzene	400		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	810		U
123-91-1	1,4-Dioxane	400		U
122-39-4	Diphenylamine	400		U
62-50-0	Ethyl methanesulfonate	400		U
206-44-0	Fluoranthene	400		U
86-73-7	Fluorene	400		U
118-74-1	Hexachlorobenzene	400		U
87-68-3	Hexachlorobutadiene	400		U
77-47-4	Hexachlorocyclopentadiene	2000		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 B270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 07/06/00

Work Order: DFRK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-24-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	400	U
1888-71-7	Hexachloropropene	4000	U
193-39-5	Indeno (1,2,3-cd) pyrene	400	U
78-59-1	Isophorone	400	U
120-58-1	Isosafrole	810	U
91-80-5	Methapyrilene	2000	U
95-53-4	o-Toluidine	810	U
56-49-5	3-Methylcholanthrene	810	U
66-27-3	Methyl methanesulfonate	400	U
91-57-6	2-Methylnaphthalene	400	U
95-48-7	2-Methylphenol	400	U
108-39-4	3-Methylphenol	400	U
106-44-5	4-Methylphenol	400	U
91-20-3	Naphthalene	400	U
130-15-4	1,4-Naphthoquinone	2000	U
134-32-7	1-Naphthylamine	400	U
91-59-8	2-Naphthylamine	400	U
88-74-4	2-Nitroaniline	2000	U
99-09-2	3-Nitroaniline	2000	U
100-01-6	4-Nitroaniline	2000	U
98-95-3	Nitrobenzene	400	U
88-75-5	2-Nitrophenol	400	U
100-02-7	4-Nitrophenol	2000	U
56-57-5	4-Nitroquinoline-1-oxide	4000	U
924-16-3	N-Nitrosodi-n-butylamine	400	U
55-18-5	N-Nitrosodiethylamine	400	U
62-75-9	N-Nitrosodimethylamine	400	U
621-64-7	N-Nitrosodi-n-propylamine	400	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 07/06/00

Work Order: DFRK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	810		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	810		U
85-01-8	Phenanthrene	400		U
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	810		U
23950-58-5	Pronamide	810		U
129-00-0	Pyrene	400		U
110-86-1	Pyridine	810		U
94-59-7	Safrole	810		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.04 / g

Date Received: 07/06/00

Work Order: DFRAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-24-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite		810	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/06/00

Work Order: DFRW10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 8.4

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-25-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo(a)anthracene	57		J
205-99-2	Benzo(b)fluoranthene	110		J
207-08-9	Benzo(k)fluoranthene	360		U
191-24-2	Benzo(ghi)perylene	360		U
50-32-8	Benzo(a)pyrene	68		J
100-51-6	Benzyl alcohol	360		U
111-91-1	bis(2-Chloroethoxy)methane	360		U
111-44-4	bis(2-Chloroethyl) ether	360		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	360		U
117-81-7	bis(2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	61		J
2303-16-4	Diallate	720		U
53-70-3	Dibenz(a,h)anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/06/00

Work Order: DFRW10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 8.4

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-25-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	360		U
95-50-1	1,2-Dichlorobenzene	360		U
541-73-1	1,3-Dichlorobenzene	360		U
106-46-7	1,4-Dichlorobenzene	360		U
91-94-1	3,3'-Dichlorobenzidine	1700		U
120-83-2	2,4-Dichlorophenol	360		U
87-65-0	2,6-Dichlorophenol	360		U
84-66-2	Diethyl phthalate	360		U
60-11-7	p-Dimethylaminoazobenzene	720		U
57-97-6	7,12-Dimethylbenz(a)anthracene	720		U
119-93-7	3,3'-Dimethylbenzidine	1700		U
105-67-9	2,4-Dimethylphenol	360		U
131-11-3	Dimethyl phthalate	360		U
117-84-0	Di-n-octyl phthalate	360		U
99-65-0	1,3-Dinitrobenzene	360		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
51-28-5	2,4-Dinitrophenol	1700		U
121-14-2	2,4-Dinitrotoluene	360		U
606-20-2	2,6-Dinitrotoluene	360		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	720		U
123-91-1	1,4-Dioxane	360		U
122-39-4	Diphenylamine	360		U
62-50-0	Ethyl methanesulfonate	360		U
206-44-0	Fluoranthene	60		J
86-73-7	Fluorene	360		U
118-74-1	Hexachlorobenzene	360		U
87-68-3	Hexachlorobutadiene	360		U
77-47-4	Hexachlorocyclopentadiene	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/06/00

Work Order: DFRAW10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 8.4

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-25-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	360		U
1888-71-7	Hexachloropropene	3600		U
193-39-5	Indeno(1,2,3-cd)pyrene	360		U
78-59-1	Isophorone	360		U
120-58-1	Isosafrole	720		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	720		U
56-49-5	3-Methylcholanthrene	720		U
66-27-3	Methyl methanesulfonate	360		U
91-57-6	2-Methylnaphthalene	360		U
95-48-7	2-Methylphenol	360		U
108-39-4	3-Methylphenol	360		U
106-44-5	4-Methylphenol	360		U
91-20-3	Naphthalene	360		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	360		U
91-59-8	2-Naphthylamine	360		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	360		U
88-75-5	2-Nitrophenol	360		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3600		U
924-16-3	N-Nitrosodi-n-butylamine	360		U
55-18-5	N-Nitrosodiethylamine	360		U
62-75-9	N-Nitrosodimethylamine	360		U
621-64-7	N-Nitrosodi-n-propylamine	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/06/00

Work Order: DFRAW10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 8.4

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-25-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	360		U
10595-95-6	N-Nitrosomethylethylamine	360		U
59-89-2	N-Nitrosomorpholine	360		U
100-75-4	N-Nitrosopiperidine	360		U
930-55-2	N-Nitrosopyrrolidine	360		U
99-55-8	5-Nitro-o-toluidine	720		U
608-93-5	Pentachlorobenzene	360		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	720		U
85-01-8	Phenanthrene	360		U
108-95-2	Phenol	360		U
106-50-3	p-Phenylene diamine	3600		U
109-06-8	2-Picoline	720		U
23950-58-5	Pronamide	720		U
129-00-0	Pyrene	68		J
110-86-1	Pyridine	720		U
94-59-7	Safrole	720		U
95-94-3	1,2,4,5-Tetrachlorobenzene	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	360		U
95-95-4	2,4,5-Trichlorophenol	360		U
88-06-2	2,4,6-Trichlorophenol	360		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	360		U
510-15-6	Chlorobenzilate	360		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/06/00

Work Order: DFRW10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 8.4

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-25-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	720		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/06/00

Work Order: DFRAX10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 8.1

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	3600		U
208-96-8	Acenaphthylene	3600		U
98-86-2	Acetophenone	3600		U
53-96-3	2-Acetylaminofluorene	36000		U
92-67-1	4-Aminobiphenyl	17000		U
62-53-3	Aniline	3600		U
120-12-7	Anthracene	3600		U
56-55-3	Benzo(a)anthracene	3600		U
205-99-2	Benzo(b)fluoranthene	3600		U
207-08-9	Benzo(k)fluoranthene	3600		U
191-24-2	Benzo(ghi)perylene	3600		U
50-32-8	Benzo(a)pyrene	3600		U
100-51-6	Benzyl alcohol	3600		U
111-91-1	bis(2-Chloroethoxy)methane	3600		U
111-44-4	bis(2-Chloroethyl) ether	3600		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3600		U
117-81-7	bis(2-Ethylhexyl) phthalate	3600		U
101-55-3	4-Bromophenyl phenyl ether	3600		U
85-68-7	Butyl benzyl phthalate	3600		U
106-47-8	4-Chloroaniline	3600		U
59-50-7	4-Chloro-3-methylphenol	3600		U
91-58-7	2-Chloronaphthalene	3600		U
95-57-8	2-Chlorophenol	3600		U
7005-72-3	4-Chlorophenyl phenyl ether	3600		U
218-01-9	Chrysene	3600		U
2303-16-4	Diallate	7200		U
53-70-3	Dibenz(a,h)anthracene	3600		U
132-64-9	Dibenzofuran	3600		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/06/00

Work Order: DFRAX10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 8.1

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	3600		U
95-50-1	1,2-Dichlorobenzene	3600		U
541-73-1	1,3-Dichlorobenzene	3600		U
106-46-7	1,4-Dichlorobenzene	3600		U
91-94-1	3,3'-Dichlorobenzidine	17000		U
120-83-2	2,4-Dichlorophenol	3600		U
87-65-0	2,6-Dichlorophenol	3600		U
84-66-2	Diethyl phthalate	3600		U
60-11-7	p-Dimethylaminoazobenzene	7200		U
57-97-6	7,12-Dimethylbenz(a)anthracene	7200		U
119-93-7	3,3'-Dimethylbenzidine	17000		U
105-67-9	2,4-Dimethylphenol	3600		U
131-11-3	Dimethyl phthalate	3600		U
117-84-0	Di-n-octyl phthalate	3600		U
99-65-0	1,3-Dinitrobenzene	3600		U
534-52-1	4,6-Dinitro-2-methylphenol	17000		U
51-28-5	2,4-Dinitrophenol	17000		U
121-14-2	2,4-Dinitrotoluene	3600		U
606-20-2	2,6-Dinitrotoluene	3600		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	7200		U
123-91-1	1,4-Dioxane	3600		U
122-39-4	Diphenylamine	3600		U
62-50-0	Ethyl methanesulfonate	3600		U
206-44-0	Fluoranthene	3600		U
86-73-7	Fluorene	3600		U
118-74-1	Hexachlorobenzene	3600		U
87-68-3	Hexachlorobutadiene	3600		U
77-47-4	Hexachlorocyclopentadiene	17000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/06/00

Work Order: DFRAX10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 8.1

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	3600		U
1888-71-7	Hexachloropropene	36000		U
193-39-5	Indeno(1,2,3-cd)pyrene	3600		U
78-59-1	Isophorone	3600		U
120-58-1	Isosafrole	7200		U
91-80-5	Methapyrilene	17000		U
95-53-4	o-Toluidine	7200		U
56-49-5	3-Methylcholanthrene	7200		U
66-27-3	Methyl methanesulfonate	3600		U
91-57-6	2-Methylnaphthalene	630	J	
95-48-7	2-Methylphenol	3600		U
108-39-4	3-Methylphenol	3600		U
106-44-5	4-Methylphenol	3600		U
91-20-3	Naphthalene	3600		U
130-15-4	1,4-Naphthoquinone	17000		U
134-32-7	1-Naphthylamine	3600		U
91-59-8	2-Naphthylamine	3600		U
88-74-4	2-Nitroaniline	17000		U
99-09-2	3-Nitroaniline	17000		U
100-01-6	4-Nitroaniline	17000		U
98-95-3	Nitrobenzene	3600		U
88-75-5	2-Nitrophenol	3600		U
100-02-7	4-Nitrophenol	17000		U
56-57-5	4-Nitroquinoline-1-oxide	36000		U
924-16-3	N-Nitrosodi-n-butylamine	3600		U
55-18-5	N-Nitrosodiethylamine	3600		U
62-75-9	N-Nitrosodimethylamine	3600		U
621-64-7	N-Nitrosodi-n-propylamine	3600		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/06/00

Work Order: DFRAX10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 8.1

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-26-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	3600		U
10595-95-6	N-Nitrosomethylethylamine	3600		U
59-89-2	N-Nitrosomorpholine	3600		U
100-75-4	N-Nitrosopiperidine	3600		U
930-55-2	N-Nitrosopyrrolidine	3600		U
99-55-8	5-Nitro-o-toluidine	7200		U
608-93-5	Pentachlorobenzene	3600		U
76-01-7	Pentachloroethane	17000		U
82-68-8	Pentachloronitrobenzene	17000		U
87-86-5	Pentachlorophenol	17000		U
62-44-2	Phenacetin	7200		U
85-01-8	Phenanthrene	3600		U
108-95-2	Phenol	3600		U
106-50-3	p-Phenylene diamine	36000		U
109-06-8	2-Picoline	7200		U
23950-58-5	Pronamide	7200		U
129-00-0	Pyrene	3600		U
110-86-1	Pyridine	7200		U
94-59-7	Safrole	7200		U
95-94-3	1,2,4,5-Tetrachlorobenzene	3600		U
58-90-2	2,3,4,6-Tetrachlorophenol	17000		U
120-82-1	1,2,4-Trichlorobenzene	3600		U
95-95-4	2,4,5-Trichlorophenol	3600		U
88-06-2	2,4,6-Trichlorophenol	3600		U
99-35-4	1,3,5-Trinitrobenzene	17000		U
86-74-8	Carbazole	3600		U
510-15-6	Chlorobenzilate	3600		U
122-09-8	a,a-Dimethylphenethylamine	17000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG060209 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/06/00

Work Order: DFRAX10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 8.1

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-26-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	7200	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG060209 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/06/00

Work Order: DFRC110W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-27-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
98-86-2	Acetophenone	400		U
53-96-3	2-Acetylaminofluorene	4000		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	400		U
120-12-7	Anthracene	80		J
56-55-3	Benzo (a) anthracene	220		J
205-99-2	Benzo (b) fluoranthene	230		J
207-08-9	Benzo (k) fluoranthene	80		J
191-24-2	Benzo (ghi) perylene	92		J
50-32-8	Benzo (a) pyrene	160		J
100-51-6	Benzyl alcohol	400		U
111-91-1	bis (2-Chloroethoxy) methane	400		U
111-44-4	bis (2-Chloroethyl) ether	400		U
108-60-1	2, 2'-Oxybis (1-Chloropropane)	400		U
117-81-7	bis (2-Ethylhexyl) phthalate	400		U
101-55-3	4-Bromophenyl phenyl ether	400		U
85-68-7	Butyl benzyl phthalate	400		U
106-47-8	4-Chloroaniline	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-58-7	2-Chloronaphthalene	400		U
95-57-8	2-Chlorophenol	400		U
7005-72-3	4-Chlorophenyl phenyl ether	400		U
218-01-9	Chrysene	220		J
2303-16-4	Diallate	810		U
53-70-3	Dibenz (a, h) anthracene	400		U
132-64-9	Dibenzofuran	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/06/00

Work Order: DFRC110W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-27-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	400		U
95-50-1	1,2-Dichlorobenzene	400		U
541-73-1	1,3-Dichlorobenzene	400		U
106-46-7	1,4-Dichlorobenzene	400		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	400		U
87-65-0	2,6-Dichlorophenol	400		U
84-66-2	Diethyl phthalate	400		U
60-11-7	p-Dimethylaminoazobenzene	810		U
57-97-6	7,12-Dimethylbenz(a)anthracene	810		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	400		U
131-11-3	Dimethyl phthalate	400		U
117-84-0	Di-n-octyl phthalate	400		U
99-65-0	1,3-Dinitrobenzene	400		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	400		U
606-20-2	2,6-Dinitrotoluene	400		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	810		U
123-91-1	1,4-Dioxane	400		U
122-39-4	Diphenylamine	400		U
62-50-0	Ethyl methanesulfonate	400		U
206-44-0	Fluoranthene	740		
86-73-7	Fluorene	400		U
118-74-1	Hexachlorobenzene	400		U
87-68-3	Hexachlorobutadiene	400		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SO Lab Sample ID: A0G060209 004
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g Date Received: 07/06/00
 Work Order: DFRC110W Date Extracted: 07/11/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-27-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	400		U
1888-71-7	Hexachloropropene	4000		U
193-39-5	Indeno(1,2,3-cd)pyrene	88		J
78-59-1	Isophorone	400		U
120-58-1	Isosafrole	810		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	810		U
56-49-5	3-Methylcholanthrene	810		U
66-27-3	Methyl methanesulfonate	400		U
91-57-6	2-Methylnaphthalene	400		U
95-48-7	2-Methylphenol	400		U
108-39-4	3-Methylphenol	400		U
106-44-5	4-Methylphenol	400		U
91-20-3	Naphthalene	400		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	400		U
91-59-8	2-Naphthylamine	400		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	400		U
88-75-5	2-Nitrophenol	400		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4000		U
924-16-3	N-Nitrosodi-n-butylamine	400		U
55-18-5	N-Nitrosodiethylamine	400		U
62-75-9	N-Nitrosodimethylamine	400		U
621-64-7	N-Nitrosodi-n-propylamine	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/06/00

Work Order: DFRC110W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-27-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	810		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	810		U
85-01-8	Phenanthrene	310		J
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	810		U
23950-58-5	Pronamide	810		U
129-00-0	Pyrene	520		
110-86-1	Pyridine	810		U
94-59-7	Safrole	810		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G060209 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/06/00

Work Order: DFRC110W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-27-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite		810	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV5X10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	4000		U
208-96-8	Acenaphthylene	4000		U
98-86-2	Acetophenone	4000		U
53-96-3	2-Acetylaminofluorene	40000		U
92-67-1	4-Aminobiphenyl	19000		U
62-53-3	Aniline	4000		U
120-12-7	Anthracene	4000		U
56-55-3	Benzo (a) anthracene	4000		U
205-99-2	Benzo (b) fluoranthene	4000		U
207-08-9	Benzo (k) fluoranthene	4000		U
191-24-2	Benzo (ghi) perylene	4000		U
50-32-8	Benzo (a) pyrene	4000		U
100-51-6	Benzyl alcohol	4000		U
111-91-1	bis (2-Chloroethoxy) methane	4000		U
111-44-4	bis (2-Chloroethyl) ether	4000		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	4000		U
117-81-7	bis (2-Ethylhexyl) phthalate	1900		J
101-55-3	4-Bromophenyl phenyl ether	4000		U
85-68-7	Butyl benzyl phthalate	4000		U
106-47-8	4-Chloroaniline	4000		U
59-50-7	4-Chloro-3-methylphenol	4000		U
91-58-7	2-Chloronaphthalene	4000		U
95-57-8	2-Chlorophenol	4000		U
7005-72-3	4-Chlorophenyl phenyl ether	4000		U
218-01-9	Chrysene	4000		U
2303-16-4	Diallate	8000		U
53-70-3	Dibenz (a, h) anthracene	4000		U
132-64-9	Dibenzofuran	4000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV5X10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	4000		U
95-50-1	1,2-Dichlorobenzene	4000		U
541-73-1	1,3-Dichlorobenzene	4000		U
106-46-7	1,4-Dichlorobenzene	4000		U
91-94-1	3,3'-Dichlorobenzidine	19000		U
120-83-2	2,4-Dichlorophenol	4000		U
87-65-0	2,6-Dichlorophenol	4000		U
84-66-2	Diethyl phthalate	4000		U
60-11-7	p-Dimethylaminoazobenzene	8000		U
57-97-6	7,12-Dimethylbenz(a)anthrace	8000		U
119-93-7	3,3'-Dimethylbenzidine	19000		U
105-67-9	2,4-Dimethylphenol	4000		U
131-11-3	Dimethyl phthalate	4000		U
117-84-0	Di-n-octyl phthalate	4000		U
99-65-0	1,3-Dinitrobenzene	4000		U
534-52-1	4,6-Dinitro-2-methylphenol	19000		U
51-28-5	2,4-Dinitrophenol	19000		U
121-14-2	2,4-Dinitrotoluene	4000		U
606-20-2	2,6-Dinitrotoluene	4000		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	8000		U
123-91-1	1,4-Dioxane	4000		U
122-39-4	Diphenylamine	4000		U
62-50-0	Ethyl methanesulfonate	4000		U
206-44-0	Fluoranthene	4000		U
86-73-7	Fluorene	4000		U
118-74-1	Hexachlorobenzene	4000		U
87-68-3	Hexachlorobutadiene	4000		U
77-47-4	Hexachlorocyclopentadiene	19000		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP015

Matrix: (soil/water) SO

Lab Sample ID:A0G070231 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DfV5X10W

Date Extracted:07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %:18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	4000	U
1888-71-7	Hexachloropropene	40000	U
193-39-5	Indeno(1,2,3-cd)pyrene	4000	U
78-59-1	Isophorone	4000	U
120-58-1	Isosafrole	8000	U
91-80-5	Methapyrilene	19000	U
95-53-4	o-Toluidine	8000	U
56-49-5	3-Methylcholanthrene	8000	U
66-27-3	Methyl methanesulfonate	4000	U
91-57-6	2-Methylnaphthalene	4000	U
95-48-7	2-Methylphenol	4000	U
108-39-4	3-Methylphenol	4000	U
106-44-5	4-Methylphenol	4000	U
91-20-3	Naphthalene	4000	U
130-15-4	1,4-Naphthoquinone	19000	U
134-32-7	1-Naphthylamine	4000	U
91-59-8	2-Naphthylamine	4000	U
88-74-4	2-Nitroaniline	19000	U
99-09-2	3-Nitroaniline	19000	U
100-01-6	4-Nitroaniline	19000	U
98-95-3	Nitrobenzene	4000	U
88-75-5	2-Nitrophenol	4000	U
100-02-7	4-Nitrophenol	19000	U
56-57-5	4-Nitroquinoline-1-oxide	40000	U
924-16-3	N-Nitrosodi-n-butylamine	4000	U
55-18-5	N-Nitrosodiethylamine	4000	U
62-75-9	N-Nitrosodimethylamine	4000	U
621-64-7	N-Nitrosodi-n-propylamine	4000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV5X10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-28-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	4000		U
10595-95-6	N-Nitrosomethylethylamine	4000		U
59-89-2	N-Nitrosomorpholine	4000		U
100-75-4	N-Nitrosopiperidine	4000		U
930-55-2	N-Nitrosopyrrolidine	4000		U
99-55-8	5-Nitro-o-toluidine	8000		U
608-93-5	Pentachlorobenzene	4000		U
76-01-7	Pentachloroethane	19000		U
82-68-8	Pentachloronitrobenzene	19000		U
87-86-5	Pentachlorophenol	19000		U
62-44-2	Phenacetin	8000		U
85-01-8	Phenanthrene	2200		J
108-95-2	Phenol	4000		U
106-50-3	p-Phenylene diamine	40000		U
109-06-8	2-Picoline	8000		U
23950-58-5	Pronamide	8000		U
129-00-0	Pyrene	1900		J
110-86-1	Pyridine	8000		U
94-59-7	Safrole	8000		U
95-94-3	1,2,4,5-Tetrachlorobenzene	4000		U
58-90-2	2,3,4,6-Tetrachlorophenol	19000		U
120-82-1	1,2,4-Trichlorobenzene	4000		U
95-95-4	2,4,5-Trichlorophenol	4000		U
88-06-2	2,4,6-Trichlorophenol	4000		U
99-35-4	1,3,5-Trinitrobenzene	19000		U
86-74-8	Carbazole	4000		U
510-15-6	Chlorobenzilate	4000		U
122-09-8	a,a-Dimethylphenethylamine	19000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV5X10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-28-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	8000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG070231 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/07/00

Work Order: DfV6810W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	Q
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benzo(a)anthracene	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
191-24-2	Benzo(ghi)perylene	100	J
50-32-8	Benzo(a)pyrene	390	U
100-51-6	Benzyl alcohol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	390	U
2303-16-4	Diallate	780	U
53-70-3	Dibenz(a,h)anthracene	390	U
132-64-9	Dibenzofuran	390	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/07/00

Work Order: DFV6810W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz(a)anthracene	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	780	U
123-91-1	1,4-Dioxane	390	U
122-39-4	Diphenylamine	390	U
62-50-0	Ethyl methanesulfonate	390	U
206-44-0	Fluoranthene	390	U
86-73-7	Fluorene	390	U
118-74-1	Hexachlorobenzene	390	U
87-68-3	Hexachlorobutadiene	390	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/07/00

Work Order: DFV6810W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-29-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	390		U
1888-71-7	Hexachloropropene	3900		U
193-39-5	Indeno(1,2,3-cd)pyrene	64		J
78-59-1	Isophorone	390		U
120-58-1	Isosafrole	780		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	780		U
56-49-5	3-Methylcholanthrene	780		U
66-27-3	Methyl methanesulfonate	390		U
91-57-6	2-Methylnaphthalene	390		U
95-48-7	2-Methylphenol	390		U
108-39-4	3-Methylphenol	390		U
106-44-5	4-Methylphenol	390		U
91-20-3	Naphthalene	390		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	390		U
91-59-8	2-Naphthylamine	390		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	390		U
88-75-5	2-Nitrophenol	390		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3900		U
924-16-3	N-Nitrosodi-n-butylamine	390		U
55-18-5	N-Nitrosodiethylamine	390		U
62-75-9	N-Nitrosodimethylamine	390		U
621-64-7	N-Nitrosodi-n-propylamine	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/07/00

Work Order: DFV6810W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	390		U
10595-95-6	N-Nitrosomethylethylamine	390		U
59-89-2	N-Nitrosomorpholine	390		U
100-75-4	N-Nitrosopiperidine	390		U
930-55-2	N-Nitrosopyrrolidine	390		U
99-55-8	5-Nitro-o-toluidine	780		U
608-93-5	Pentachlorobenzene	390		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	780		U
85-01-8	Phenanthrene	390		U
108-95-2	Phenol	390		U
106-50-3	p-Phenylene diamine	3900		U
109-06-8	2-Picoline	780		U
23950-58-5	Pronamide	780		U
129-00-0	Pyrene	390		U
110-86-1	Pyridine	780		U
94-59-7	Safrole	780		U
95-94-3	1,2,4,5-Tetrachlorobenzene	390		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	390		U
95-95-4	2,4,5-Trichlorophenol	390		U
88-06-2	2,4,6-Trichlorophenol	390		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	390		U
510-15-6	Chlorobenzilate	390		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 07/07/00

Work Order: DFV6810W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-29-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	780		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/07/00

Work Order: DfV6910W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
83-32-9	Acenaphthene	410	U
208-96-8	Acenaphthylene	410	U
98-86-2	Acetophenone	410	U
53-96-3	2-Acetylaminofluorene	4100	U
92-67-1	4-Aminobiphenyl	2000	U
62-53-3	Aniline	410	U
120-12-7	Anthracene	410	U
56-55-3	Benzo(a)anthracene	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
191-24-2	Benzo(ghi)perylene	410	U
50-32-8	Benzo(a)pyrene	410	U
100-51-6	Benzyl alcohol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
111-44-4	bis(2-Chloroethyl) ether	410	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410	U
117-81-7	bis(2-Ethylhexyl) phthalate	410	U
101-55-3	4-Bromophenyl phenyl ether	410	U
85-68-7	Butyl benzyl phthalate	410	U
106-47-8	4-Chloroaniline	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-58-7	2-Chloronaphthalene	410	U
95-57-8	2-Chlorophenol	410	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U
218-01-9	Chrysene	410	U
2303-16-4	Diallate	820	U
53-70-3	Dibenz(a,h)anthracene	410	U
132-64-9	Dibenzofuran	410	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/07/00

Work Order: DFV6910W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-30-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	410		U
95-50-1	1,2-Dichlorobenzene	410		U
541-73-1	1,3-Dichlorobenzene	410		U
106-46-7	1,4-Dichlorobenzene	410		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	410		U
87-65-0	2,6-Dichlorophenol	410		U
84-66-2	Diethyl phthalate	410		U
60-11-7	p-Dimethylaminoazobenzene	820		U
57-97-6	7,12-Dimethylbenz(a)anthracene	820		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	410		U
131-11-3	Dimethyl phthalate	410		U
117-84-0	Di-n-octyl phthalate	410		U
99-65-0	1,3-Dinitrobenzene	410		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	410		U
606-20-2	2,6-Dinitrotoluene	410		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	820		U
123-91-1	1,4-Dioxane	410		U
122-39-4	Diphenylamine	410		U
62-50-0	Ethyl methanesulfonate	410		U
206-44-0	Fluoranthene	410		U
86-73-7	Fluorene	410		U
118-74-1	Hexachlorobenzene	410		U
87-68-3	Hexachlorobutadiene	410		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/07/00

Work Order: DFV6910W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	410		U
1888-71-7	Hexachloropropene	4100		U
193-39-5	Indeno (1,2,3-cd)pyrene	410		U
78-59-1	Isophorone	410		U
120-58-1	Isosafrole	820		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	820		U
56-49-5	3-Methylcholanthrene	820		U
66-27-3	Methyl methanesulfonate	410		U
91-57-6	2-Methylnaphthalene	410		U
95-48-7	2-Methylphenol	410		U
108-39-4	3-Methylphenol	410		U
106-44-5	4-Methylphenol	410		U
91-20-3	Naphthalene	410		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	410		U
91-59-8	2-Naphthylamine	410		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	410		U
88-75-5	2-Nitrophenol	410		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4100		U
924-16-3	N-Nitrosodi-n-butylamine	410		U
55-18-5	N-Nitrosodiethylamine	410		U
62-75-9	N-Nitrosodimethylamine	410		U
621-64-7	N-Nitrosodi-n-propylamine	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/07/00

Work Order: DFV6910W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	410		U
10595-95-6	N-Nitrosomethylethylamine	410		U
59-89-2	N-Nitrosomorpholine	410		U
100-75-4	N-Nitrosopiperidine	410		U
930-55-2	N-Nitrosopyrrolidine	410		U
99-55-8	5-Nitro-o-toluidine	820		U
608-93-5	Pentachlorobenzene	410		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	820		U
85-01-8	Phenanthrene	410		U
108-95-2	Phenol	410		U
106-50-3	p-Phenylene diamine	4100		U
109-06-8	2-Picoline	820		U
23950-58-5	Pronamide	820		U
129-00-0	Pyrene	410		U
110-86-1	Pyridine	820		U
94-59-7	Safrole	820		U
95-94-3	1,2,4,5-Tetrachlorobenzene	410		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	410		U
95-95-4	2,4,5-Trichlorophenol	410		U
88-06-2	2,4,6-Trichlorophenol	410		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	410		U
510-15-6	Chlorobenzilate	410		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample Wt/Vol: 30 / g

Date Received: 07/07/00

Work Order: DFV6910W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-30-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	820		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV6A10W

Date Extracted: 07/11/00

Dilution factor: 2.5

Date Analyzed: 07/24/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-31-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	950		U
208-96-8	Acenaphthylene	950		U
98-86-2	Acetophenone	950		U
53-96-3	2-Acetylaminofluorene	9500		U
92-67-1	4-Aminobiphenyl	4600		U
62-53-3	Aniline	950		U
120-12-7	Anthracene	950		U
56-55-3	Benzo(a)anthracene	950		U
205-99-2	Benzo(b)fluoranthene	950		U
207-08-9	Benzo(k)fluoranthene	950		U
191-24-2	Benzo(ghi)perylene	950		U
50-32-8	Benzo(a)pyrene	950		U
100-51-6	Benzyl alcohol	950		U
111-91-1	bis(2-Chloroethoxy)methane	950		U
111-44-4	bis(2-Chloroethyl) ether	950		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	950		U
117-81-7	bis(2-Ethylhexyl) phthalate	950		U
101-55-3	4-Bromophenyl phenyl ether	950		U
85-68-7	Butyl benzyl phthalate	950		U
106-47-8	4-Chloroaniline	950		U
59-50-7	4-Chloro-3-methylphenol	950		U
91-58-7	2-Chloronaphthalene	950		U
95-57-8	2-Chlorophenol	950		U
7005-72-3	4-Chlorophenyl phenyl ether	950		U
218-01-9	Chrysene	950		U
2303-16-4	Diallate	1900		U
53-70-3	Dibenz(a,h)anthracene	950		U
132-64-9	Dibenzofuran	950		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV6A10W

Date Extracted: 07/11/00

Dilution factor: 2.5

Date Analyzed: 07/24/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-31-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	950		U
95-50-1	1,2-Dichlorobenzene	950		U
541-73-1	1,3-Dichlorobenzene	950		U
106-46-7	1,4-Dichlorobenzene	950		U
91-94-1	3,3'-Dichlorobenzidine	4600		U
120-83-2	2,4-Dichlorophenol	950		U
87-65-0	2,6-Dichlorophenol	950		U
84-66-2	Diethyl phthalate	950		U
60-11-7	p-Dimethylaminoazobenzene	1900		U
57-97-6	7,12-Dimethylbenz(a)anthrace	1900		U
119-93-7	3,3'-Dimethylbenzidine	4600		U
105-67-9	2,4-Dimethylphenol	950		U
131-11-3	Dimethyl phthalate	950		U
117-84-0	Di-n-octyl phthalate	950		U
99-65-0	1,3-Dinitrobenzene	950		U
534-52-1	4,6-Dinitro-2-methylphenol	4600		U
51-28-5	2,4-Dinitrophenol	4600		U
121-14-2	2,4-Dinitrotoluene	950		U
606-20-2	2,6-Dinitrotoluene	950		U
88-85-7	2-sec-Butyl-4,6-dinitropheno	1900		U
123-91-1	1,4-Dioxane	950		U
122-39-4	Diphenylamine	950		U
62-50-0	Ethyl methanesulfonate	950		U
206-44-0	Fluoranthene	950		U
86-73-7	Fluorene	950		U
118-74-1	Hexachlorobenzene	950		U
87-68-3	Hexachlorobutadiene	950		U
77-47-4	Hexachlorocyclopentadiene	4600		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DfV6A10W

Date Extracted: 07/11/00

Dilution factor: 2.5

Date Analyzed: 07/24/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-31-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	950	U
1888-71-7	Hexachloropropene	9500	U
193-39-5	Indeno (1,2,3-cd) pyrene	950	U
78-59-1	Isophorone	950	U
120-58-1	Isosafrole	1900	U
91-80-5	Methapyrilene	4600	U
95-53-4	o-Toluidine	1900	U
56-49-5	3-Methylcholanthrene	1900	U
66-27-3	Methyl methanesulfonate	950	U
91-57-6	2-Methylnaphthalene	950	U
95-48-7	2-Methylphenol	950	U
108-39-4	3-Methylphenol	950	U
106-44-5	4-Methylphenol	950	U
91-20-3	Naphthalene	950	U
130-15-4	1,4-Naphthoquinone	4600	U
134-32-7	1-Naphthylamine	950	U
91-59-8	2-Naphthylamine	950	U
88-74-4	2-Nitroaniline	4600	U
99-09-2	3-Nitroaniline	4600	U
100-01-6	4-Nitroaniline	4600	U
98-95-3	Nitrobenzene	950	U
88-75-5	2-Nitrophenol	950	U
100-02-7	4-Nitrophenol	4600	U
56-57-5	4-Nitroquinoline-1-oxide	9500	U
924-16-3	N-Nitrosodi-n-butylamine	950	U
55-18-5	N-Nitrosodiethylamine	950	U
62-75-9	N-Nitrosodimethylamine	950	U
621-64-7	N-Nitrosodi-n-propylamine	950	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG070231 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV6A10W

Date Extracted: 07/11/00

Dilution factor: 2.5

Date Analyzed: 07/24/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-31-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	950		U
10595-95-6	N-Nitrosomethylethylamine	950		U
59-89-2	N-Nitrosomorpholine	950		U
100-75-4	N-Nitrosopiperidine	950		U
930-55-2	N-Nitrosopyrrolidine	950		U
99-55-8	5-Nitro-o-toluidine	1900		U
608-93-5	Pentachlorobenzene	950		U
76-01-7	Pentachloroethane	4600		U
82-68-8	Pentachloronitrobenzene	4600		U
87-86-5	Pentachlorophenol	4600		U
62-44-2	Phenacetin	1900		U
85-01-8	Phenanthrene	950		U
108-95-2	Phenol	950		U
106-50-3	p-Phenylene diamine	9500		U
109-06-8	2-Picoline	1900		U
23950-58-5	Pronamide	1900		U
129-00-0	Pyrene	950		U
110-86-1	Pyridine	1900		U
94-59-7	Safrole	1900		U
95-94-3	1,2,4,5-Tetrachlorobenzene	950		U
58-90-2	2,3,4,6-Tetrachlorophenol	4600		U
120-82-1	1,2,4-Trichlorobenzene	950		U
95-95-4	2,4,5-Trichlorophenol	950		U
88-06-2	2,4,6-Trichlorophenol	950		U
99-35-4	1,3,5-Trinitrobenzene	4600		U
86-74-8	Carbazole	950		U
510-15-6	Chlorobenzilate	950		U
122-09-8	a,a-Dimethylphenethylamine	4600		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 07/07/00

Work Order: DFV6A10W

Date Extracted: 07/11/00

Dilution factor: 2.5

Date Analyzed: 07/24/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-31-08

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/07/00

Work Order: DFV6D10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-32-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
98-86-2	Acetophenone	390		U
53-96-3	2-Acetylaminofluorene	3900		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo (a) anthracene	390		U
205-99-2	Benzo (b) fluoranthene	390		U
207-08-9	Benzo (k) fluoranthene	390		U
191-24-2	Benzo (ghi) perylene	390		U
50-32-8	Benzo (a) pyrene	390		U
100-51-6	Benzyl alcohol	390		U
111-91-1	bis(2-Chloroethoxy)methane	390		U
111-44-4	bis(2-Chloroethyl) ether	390		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390		U
117-81-7	bis(2-Ethylhexyl) phthalate	390		U
101-55-3	4-Bromophenyl phenyl ether	390		U
85-68-7	Butyl benzyl phthalate	390		U
106-47-8	4-Chloroaniline	390		U
59-50-7	4-Chloro-3-methylphenol	390		U
91-58-7	2-Chloronaphthalene	390		U
95-57-8	2-Chlorophenol	390		U
7005-72-3	4-Chlorophenyl phenyl ether	390		U
218-01-9	Chrysene	390		U
2303-16-4	Diallate	780		U
53-70-3	Dibenz (a, h) anthracene	390		U
132-64-9	Dibenzofuran	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/07/00

Work Order: DFV6D10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	390		U
95-50-1	1,2-Dichlorobenzene	390		U
541-73-1	1,3-Dichlorobenzene	390		U
106-46-7	1,4-Dichlorobenzene	390		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	390		U
87-65-0	2,6-Dichlorophenol	390		U
84-66-2	Diethyl phthalate	390		U
60-11-7	p-Dimethylaminoazobenzene	780		U
57-97-6	7,12-Dimethylbenz(a)anthracene	780		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	390		U
131-11-3	Dimethyl phthalate	390		U
117-84-0	Di-n-octyl phthalate	390		U
99-65-0	1,3-Dinitrobenzene	390		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	390		U
606-20-2	2,6-Dinitrotoluene	390		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	780		U
123-91-1	1,4-Dioxane	390		U
122-39-4	Diphenylamine	390		U
62-50-0	Ethyl methanesulfonate	390		U
206-44-0	Fluoranthene	390		U
86-73-7	Fluorene	390		U
118-74-1	Hexachlorobenzene	390		U
87-68-3	Hexachlorobutadiene	390		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/07/00

Work Order: DFV6D10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-32-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	390		U
1888-71-7	Hexachloropropene	3900		U
193-39-5	Indeno (1,2,3-cd)pyrene	390		U
78-59-1	Isophorone	390		U
120-58-1	Isosafrole	780		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	780		U
56-49-5	3-Methylcholanthrene	780		U
66-27-3	Methyl methanesulfonate	390		U
91-57-6	2-Methylnaphthalene	390		U
95-48-7	2-Methylphenol	390		U
108-39-4	3-Methylphenol	390		U
106-44-5	4-Methylphenol	390		U
91-20-3	Naphthalene	390		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	390		U
91-59-8	2-Naphthylamine	390		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	390		U
88-75-5	2-Nitrophenol	390		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3900		U
924-16-3	N-Nitrosodi-n-butylamine	390		U
55-18-5	N-Nitrosodiethylamine	390		U
62-75-9	N-Nitrosodimethylamine	390		U
621-64-7	N-Nitrosodi-n-propylamine	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG070231 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/07/00

Work Order: DFV6D10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-32-07

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	390		U
10595-95-6	N-Nitrosomethylethylamine	390		U
59-89-2	N-Nitrosomorpholine	390		U
100-75-4	N-Nitrosopiperidine	390		U
930-55-2	N-Nitrosopyrrolidine	390		U
99-55-8	5-Nitro-o-toluidine	780		U
608-93-5	Pentachlorobenzene	390		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	780		U
85-01-8	Phenanthrene	390		U
108-95-2	Phenol	390		U
106-50-3	p-Phenylene diamine	3900		U
109-06-8	2-Picoline	780		U
23950-58-5	Pronamide	780		U
129-00-0	Pyrene	390		U
110-86-1	Pyridine	780		U
94-59-7	Safrole	780		U
95-94-3	1,2,4,5-Tetrachlorobenzene	390		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	390		U
95-95-4	2,4,5-Trichlorophenol	390		U
88-06-2	2,4,6-Trichlorophenol	390		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	390		U
510-15-6	Chlorobenzilate	390		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/07/00

Work Order: DFV6D10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-32-07

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		780	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 07/07/00

Work Order: DFV6L10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 14

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-33-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo (a) anthracene	380		U
205-99-2	Benzo (b) fluoranthene	380		U
207-08-9	Benzo (k) fluoranthene	380		U
191-24-2	Benzo (ghi) perylene	380		U
50-32-8	Benzo (a) pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis (2-Chloroethoxy) methane	380		U
111-44-4	bis (2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	380		U
117-81-7	bis (2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	770		U
53-70-3	Dibenz (a, h) anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 07/07/00

Work Order: DfV6L10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 14

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-33-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	380		U
95-50-1	1,2-Dichlorobenzene	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	380		U
87-65-0	2,6-Dichlorophenol	380		U
84-66-2	Diethyl phthalate	380		U
60-11-7	p-Dimethylaminoazobenzene	770		U
57-97-6	7,12-Dimethylbenz (a) anthrace	770		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	380		U
131-11-3	Dimethyl phthalate	380		U
117-84-0	Di-n-octyl phthalate	380		U
99-65-0	1,3-Dinitrobenzene	380		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
88-85-7	2-sec-Butyl-4,6-dinitropheno	770		U
123-91-1	1,4-Dioxane	380		U
122-39-4	Diphenylamine	380		U
62-50-0	Ethyl methanesulfonate	380		U
206-44-0	Fluoranthene	380		U
86-73-7	Fluorene	380		U
118-74-1	Hexachlorobenzene	380		U
87-68-3	Hexachlorobutadiene	380		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 07/07/00

Work Order: DFV6L10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 14

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-33-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	Q	
67-72-1	Hexachloroethane	380		U
1888-71-7	Hexachloropropene	3800		U
193-39-5	Indeno (1,2,3-cd) pyrene	380		U
78-59-1	Isophorone	380		U
120-58-1	Isosafrole	770		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	770		U
56-49-5	3-Methylcholanthrene	770		U
66-27-3	Methyl methanesulfonate	380		U
91-57-6	2-Methylnaphthalene	380		U
95-48-7	2-Methylphenol	380		U
108-39-4	3-Methylphenol	380		U
106-44-5	4-Methylphenol	380		U
91-20-3	Naphthalene	380		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	380		U
91-59-8	2-Naphthylamine	380		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	380		U
88-75-5	2-Nitrophenol	380		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3800		U
924-16-3	N-Nitrosodi-n-butylamine	380		U
55-18-5	N-Nitrosodiethylamine	380		U
62-75-9	N-Nitrosodimethylamine	380		U
621-64-7	N-Nitrosodi-n-propylamine	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 07/07/00

Work Order: DfV6L10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 14

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-33-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	380	U
10595-95-6	N-Nitrosomethylethylamine	380	U
59-89-2	N-Nitrosomorpholine	380	U
100-75-4	N-Nitrosopiperidine	380	U
930-55-2	N-Nitrosopyrrolidine	380	U
99-55-8	5-Nitro-o-toluidine	770	U
608-93-5	Pentachlorobenzene	380	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	770	U
85-01-8	Phenanthrene	380	U
108-95-2	Phenol	380	U
106-50-3	p-Phenylene diamine	3800	U
109-06-8	2-Picoline	770	U
23950-58-5	Pronamide	770	U
129-00-0	Pyrene	380	U
110-86-1	Pyridine	770	U
94-59-7	Safrole	770	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	380	U
510-15-6	Chlorobenzilate	380	U
122-09-8	a,a-Dimethylphenethylamine	1900	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP015

Matrix: (soil/water) SO

Lab Sample ID:A0G070231 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 07/07/00

Work Order: DFV6L10W

Date Extracted:07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %:14

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-33-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	770		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/08/00

Work Order: DFWAG10W

Date Extracted: 07/11/00

Dilution factor: 5

Date Analyzed: 07/25/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	1900		U
208-96-8	Acenaphthylene	1900		U
98-86-2	Acetophenone	1900		U
53-96-3	2-Acetylaminofluorene	19000		U
92-67-1	4-Aminobiphenyl	9200		U
62-53-3	Aniline	1900		U
120-12-7	Anthracene	1900		U
56-55-3	Benzo (a) anthracene	1900		U
205-99-2	Benzo (b) fluoranthene	1900		U
207-08-9	Benzo (k) fluoranthene	1900		U
191-24-2	Benzo (ghi) perylene	1900		U
50-32-8	Benzo (a) pyrene	1900		U
100-51-6	Benzyl alcohol	1900		U
111-91-1	bis (2-Chloroethoxy) methane	1900		U
111-44-4	bis (2-Chloroethyl) ether	1900		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	1900		U
117-81-7	bis (2-Ethylhexyl) phthalate	1900		U
101-55-3	4-Bromophenyl phenyl ether	1900		U
85-68-7	Butyl benzyl phthalate	1900		U
106-47-8	4-Chloroaniline	1900		U
59-50-7	4-Chloro-3-methylphenol	1900		U
91-58-7	2-Chloronaphthalene	1900		U
95-57-8	2-Chlorophenol	1900		U
7005-72-3	4-Chlorophenyl phenyl ether	1900		U
218-01-9	Chrysene	1900		U
2303-16-4	Diallate	3800		U
53-70-3	Dibenz (a, h) anthracene	1900		U
132-64-9	Dibenzofuran	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/08/00

Work Order: DFWAG10W

Date Extracted: 07/11/00

Dilution factor: 5

Date Analyzed: 07/25/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	1900		U
95-50-1	1,2-Dichlorobenzene	1900		U
541-73-1	1,3-Dichlorobenzene	1900		U
106-46-7	1,4-Dichlorobenzene	1900		U
91-94-1	3,3'-Dichlorobenzidine	9200		U
120-83-2	2,4-Dichlorophenol	1900		U
87-65-0	2,6-Dichlorophenol	1900		U
84-66-2	Diethyl phthalate	1900		U
60-11-7	p-Dimethylaminoazobenzene	3800		U
57-97-6	7,12-Dimethylbenz(a)anthracene	3800		U
119-93-7	3,3'-Dimethylbenzidine	9200		U
105-67-9	2,4-Dimethylphenol	1900		U
131-11-3	Dimethyl phthalate	1900		U
117-84-0	Di-n-octyl phthalate	1900		U
99-65-0	1,3-Dinitrobenzene	1900		U
534-52-1	4,6-Dinitro-2-methylphenol	9200		U
51-28-5	2,4-Dinitrophenol	9200		U
121-14-2	2,4-Dinitrotoluene	1900		U
606-20-2	2,6-Dinitrotoluene	1900		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	3800		U
123-91-1	1,4-Dioxane	1900		U
122-39-4	Diphenylamine	1900		U
62-50-0	Ethyl methanesulfonate	1900		U
206-44-0	Fluoranthene	1900		U
86-73-7	Fluorene	400		J
118-74-1	Hexachlorobenzene	1900		U
87-68-3	Hexachlorobutadiene	1900		U
77-47-4	Hexachlorocyclopentadiene	9200		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG080137 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/08/00

Work Order: DFWAG10W

Date Extracted: 07/11/00

Dilution factor: 5

Date Analyzed: 07/25/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	1900		U
1888-71-7	Hexachloropropene	19000		U
193-39-5	Indeno(1,2,3-cd)pyrene	1900		U
78-59-1	Isophorone	1900		U
120-58-1	Isosafrole	3800		U
91-80-5	Methapyrilene	9200		U
95-53-4	o-Toluidine	3800		U
56-49-5	3-Methylcholanthrene	3800		U
66-27-3	Methyl methanesulfonate	1900		U
91-57-6	2-Methylnaphthalene	500		J
95-48-7	2-Methylphenol	1900		U
108-39-4	3-Methylphenol	1900		U
106-44-5	4-Methylphenol	1900		U
91-20-3	Naphthalene	1900		U
130-15-4	1,4-Naphthoquinone	9200		U
134-32-7	1-Naphthylamine	1900		U
91-59-8	2-Naphthylamine	1900		U
88-74-4	2-Nitroaniline	9200		U
99-09-2	3-Nitroaniline	9200		U
100-01-6	4-Nitroaniline	9200		U
98-95-3	Nitrobenzene	1900		U
88-75-5	2-Nitrophenol	1900		U
100-02-7	4-Nitrophenol	9200		U
56-57-5	4-Nitroquinoline-1-oxide	19000		U
924-16-3	N-Nitrosodi-n-butylamine	1900		U
55-18-5	N-Nitrosodiethylamine	1900		U
62-75-9	N-Nitrosodimethylamine	1900		U
621-64-7	N-Nitrosodi-n-propylamine	1900		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/08/00

Work Order: DFWAG10W

Date Extracted: 07/11/00

Dilution factor: 5

Date Analyzed: 07/25/00

Moisture #: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-34-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	1900		U
10595-95-6	N-Nitrosomethylethylamine	1900		U
59-89-2	N-Nitrosomorpholine	1900		U
100-75-4	N-Nitrosopiperidine	1900		U
930-55-2	N-Nitrosopyrrolidine	1900		U
99-55-8	5-Nitro-o-toluidine	3800		U
608-93-5	Pentachlorobenzene	1900		U
76-01-7	Pentachloroethane	9200		U
82-68-8	Pentachloronitrobenzene	9200		U
87-86-5	Pentachlorophenol	9200		U
62-44-2	Phenacetin	3800		U
85-01-8	Phenanthrene	680		J
108-95-2	Phenol	1900		U
106-50-3	p-Phenylene diamine	19000		U
109-06-8	2-Picoline	3800		U
23950-58-5	Pronamide	3800		U
129-00-0	Pyrene	1900		U
110-86-1	Pyridine	3800		U
94-59-7	Safrole	3800		U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		U
58-90-2	2,3,4,6-Tetrachlorophenol	9200		U
120-82-1	1,2,4-Trichlorobenzene	1900		U
95-95-4	2,4,5-Trichlorophenol	1900		U
88-06-2	2,4,6-Trichlorophenol	1900		U
99-35-4	1,3,5-Trinitrobenzene	9200		U
86-74-8	Carbazole	1900		U
510-15-6	Chlorobenzilate	1900		U
122-09-8	a,a-Dimethylphenethylamine	9200		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG080137 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/08/00

Work Order: DFWAG10W

Date Extracted: 07/11/00

Dilution factor: 5

Date Analyzed: 07/25/00

Moisture %: 13

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-34-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		3800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/08/00

Work Order: DFWAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 11

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-35-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo (a) anthracene	370		U
205-99-2	Benzo (b) fluoranthene	370		U
207-08-9	Benzo (k) fluoranthene	370		U
191-24-2	Benzo (ghi) perylene	370		U
50-32-8	Benzo (a) pyrene	370		U
100-51-6	Benzyl alcohol	370		U
111-91-1	bis (2-Chloroethoxy) methane	370		U
111-44-4	bis (2-Chloroethyl) ether	370		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	370		U
117-81-7	bis (2-Ethylhexyl) phthalate	370		U
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	370		U
2303-16-4	Diallate	740		U
53-70-3	Dibenz (a, h) anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/08/00

Work Order: DFWAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 11

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-35-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	370		U
95-50-1	1,2-Dichlorobenzene	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
91-94-1	3,3'-Dichlorobenzidine	1800		U
120-83-2	2,4-Dichlorophenol	370		U
87-65-0	2,6-Dichlorophenol	370		U
84-66-2	Diethyl phthalate	370		U
60-11-7	p-Dimethylaminoazobenzene	740		U
57-97-6	7,12-Dimethylbenz(a)anthracene	740		U
119-93-7	3,3'-Dimethylbenzidine	1800		U
105-67-9	2,4-Dimethylphenol	370		U
131-11-3	Dimethyl phthalate	370		U
117-84-0	Di-n-octyl phthalate	370		U
99-65-0	1,3-Dinitrobenzene	370		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
51-28-5	2,4-Dinitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	370		U
606-20-2	2,6-Dinitrotoluene	370		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	740		U
123-91-1	1,4-Dioxane	370		U
122-39-4	Diphenylamine	370		U
62-50-0	Ethyl methanesulfonate	370		U
206-44-0	Fluoranthene	370		U
86-73-7	Fluorene	370		U
118-74-1	Hexachlorobenzene	370		U
87-68-3	Hexachlorobutadiene	370		U
77-47-4	Hexachlorocyclopentadiene	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/08/00

Work Order: DFWAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 11

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-35-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	370		U
1888-71-7	Hexachloropropene	3700		U
193-39-5	Indeno(1,2,3-cd)pyrene	370		U
78-59-1	Isophorone	370		U
120-58-1	Isosafrole	740		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	740		U
56-49-5	3-Methylcholanthrene	740		U
66-27-3	Methyl methanesulfonate	370		U
91-57-6	2-Methylnaphthalene	370		U
95-48-7	2-Methylphenol	370		U
108-39-4	3-Methylphenol	370		U
106-44-5	4-Methylphenol	370		U
91-20-3	Naphthalene	370		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	370		U
91-59-8	2-Naphthylamine	370		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	370		U
88-75-5	2-Nitrophenol	370		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3700		U
924-16-3	N-Nitrosodi-n-butylamine	370		U
55-18-5	N-Nitrosodiethylamine	370		U
62-75-9	N-Nitrosodimethylamine	370		U
621-64-7	N-Nitrosodi-n-propylamine	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/08/00

Work Order: DFWAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 11

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	370	U
10595-95-6	N-Nitrosomethylethylamine	370	U
59-89-2	N-Nitrosomorpholine	370	U
100-75-4	N-Nitrosopiperidine	370	U
930-55-2	N-Nitrosopyrrolidine	370	U
99-55-8	5-Nitro-o-toluidine	740	U
608-93-5	Pentachlorobenzene	370	U
76-01-7	Pentachloroethane	1800	U
82-68-8	Pentachloronitrobenzene	1800	U
87-86-5	Pentachlorophenol	1800	U
62-44-2	Phenacetin	740	U
85-01-8	Phenanthrene	370	U
108-95-2	Phenol	370	U
106-50-3	p-Phenylene diamine	3700	U
109-06-8	2-Picoline	740	U
23950-58-5	Pronamide	740	U
129-00-0	Pyrene	370	U
110-86-1	Pyridine	740	U
94-59-7	Safrole	740	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
99-35-4	1,3,5-Trinitrobenzene	1800	U
86-74-8	Carbazole	370	U
510-15-6	Chlorobenzilate	370	U
122-09-8	a,a-Dimethylphenethylamine	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/08/00

Work Order: DFWAK10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 11

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-35-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	740		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SO Lab Sample ID: A0G080137 003
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g Date Received: 07/08/00
 Work Order: DFWAL10W Date Extracted: 07/11/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	390	U
208-96-8	Acenaphthylene	390	U
98-86-2	Acetophenone	390	U
53-96-3	2-Acetylaminofluorene	3900	U
92-67-1	4-Aminobiphenyl	1900	U
62-53-3	Aniline	390	U
120-12-7	Anthracene	390	U
56-55-3	Benzo(a)anthracene	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
191-24-2	Benzo(ghi)perylene	390	U
50-32-8	Benzo(a)pyrene	390	U
100-51-6	Benzyl alcohol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
111-44-4	bis(2-Chloroethyl) ether	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
117-81-7	bis(2-Ethylhexyl) phthalate	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
85-68-7	Butyl benzyl phthalate	390	U
106-47-8	4-Chloroaniline	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-58-7	2-Chloronaphthalene	390	U
95-57-8	2-Chlorophenol	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
218-01-9	Chrysene	390	U
2303-16-4	Diallate	770	U
53-70-3	Dibenz(a,h)anthracene	390	U
132-64-9	Dibenzofuran	390	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 07/08/00

Work Order: DFWAL10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
60-11-7	p-Dimethylaminoazobenzene	770	U
57-97-6	7,12-Dimethylbenz (a) anthrace	770	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770	U
123-91-1	1,4-Dioxane	390	U
122-39-4	Diphenylamine	390	U
62-50-0	Ethyl methanesulfonate	390	U
206-44-0	Fluoranthene	390	U
86-73-7	Fluorene	390	U
118-74-1	Hexachlorobenzene	390	U
87-68-3	Hexachlorobutadiene	390	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 07/08/00

Work Order: DFWAL10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	390		U
1888-71-7	Hexachloropropene	3900		U
193-39-5	Indeno(1,2,3-cd)pyrene	390		U
78-59-1	Isophorone	390		U
120-58-1	Isosafrole	770		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	770		U
56-49-5	3-Methylcholanthrene	770		U
66-27-3	Methyl methanesulfonate	390		U
91-57-6	2-Methylnaphthalene	390		U
95-48-7	2-Methylphenol	390		U
108-39-4	3-Methylphenol	390		U
106-44-5	4-Methylphenol	390		U
91-20-3	Naphthalene	390		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	390		U
91-59-8	2-Naphthylamine	390		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	390		U
88-75-5	2-Nitrophenol	390		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3900		U
924-16-3	N-Nitrosodi-n-butylamine	390		U
55-18-5	N-Nitrosodiethylamine	390		U
62-75-9	N-Nitrosodimethylamine	390		U
621-64-7	N-Nitrosodi-n-propylamine	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: AOG080137 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 07/08/00

Work Order: DFWAL10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	390	U
10595-95-6	N-Nitrosomethylethylamine	390	U
59-89-2	N-Nitrosomorpholine	390	U
100-75-4	N-Nitrosopiperidine	390	U
930-55-2	N-Nitrosopyrrolidine	390	U
99-55-8	5-Nitro-o-toluidine	770	U
608-93-5	Pentachlorobenzene	390	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	770	U
85-01-8	Phenanthrene	390	U
108-95-2	Phenol	390	U
106-50-3	p-Phenylene diamine	3900	U
109-06-8	2-Picoline	770	U
23950-58-5	Pronamide	770	U
129-00-0	Pyrene	390	U
110-86-1	Pyridine	770	U
94-59-7	Safrole	770	U
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	390	U
510-15-6	Chlorobenzilate	390	U
122-09-8	a,a-Dimethylphenethylamine	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G080137 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 07/08/00

Work Order: DFWAL10W

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-37-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	770		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 07/07/00

Work Order: DFV6E10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/24/00

Moisture %: 17

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	2000		J
208-96-8	Acenaphthylene	4000		U
98-86-2	Acetophenone	4000		U
53-96-3	2-Acetylaminofluorene	40000		U
92-67-1	4-Aminobiphenyl	19000		U
62-53-3	Aniline	4000		U
120-12-7	Anthracene	1100		J
56-55-3	Benzo(a)anthracene	4000		U
205-99-2	Benzo(b)fluoranthene	4000		U
207-08-9	Benzo(k)fluoranthene	4000		U
191-24-2	Benzo(ghi)perylene	4000		U
50-32-8	Benzo(a)pyrene	4000		U
100-51-6	Benzyl alcohol	4000		U
111-91-1	bis(2-Chloroethoxy)methane	4000		U
111-44-4	bis(2-Chloroethyl) ether	4000		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	4000		U
117-81-7	bis(2-Ethylhexyl) phthalate	2400		J
101-55-3	4-Bromophenyl phenyl ether	4000		U
85-68-7	Butyl benzyl phthalate	4000		U
106-47-8	4-Chloroaniline	4000		U
59-50-7	4-Chloro-3-methylphenol	4000		U
91-58-7	2-Chloronaphthalene	4000		U
95-57-8	2-Chlorophenol	4000		U
7005-72-3	4-Chlorophenyl phenyl ether	4000		U
218-01-9	Chrysene	4000		U
2303-16-4	Diallate	7900		U
53-70-3	Dibenz(a,h)anthracene	4000		U
132-64-9	Dibenzofuran	4000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 07/07/00

Work Order: DFV6E10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/24/00

Moisture %: 17

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	4000		U
95-50-1	1,2-Dichlorobenzene	4000		U
541-73-1	1,3-Dichlorobenzene	4000		U
106-46-7	1,4-Dichlorobenzene	4000		U
91-94-1	3,3'-Dichlorobenzidine	19000		U
120-83-2	2,4-Dichlorophenol	4000		U
87-65-0	2,6-Dichlorophenol	4000		U
84-66-2	Diethyl phthalate	4000		U
60-11-7	p-Dimethylaminoazobenzene	7900		U
57-97-6	7,12-Dimethylbenz(a)anthracene	7900		U
119-93-7	3,3'-Dimethylbenzidine	19000		U
105-67-9	2,4-Dimethylphenol	4000		U
131-11-3	Dimethyl phthalate	4000		U
117-84-0	Di-n-octyl phthalate	4000		U
99-65-0	1,3-Dinitrobenzene	4000		U
534-52-1	4,6-Dinitro-2-methylphenol	19000		U
51-28-5	2,4-Dinitrophenol	19000		U
121-14-2	2,4-Dinitrotoluene	4000		U
606-20-2	2,6-Dinitrotoluene	4000		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	7900		U
123-91-1	1,4-Dioxane	4000		U
122-39-4	Diphenylamine	4000		U
62-50-0	Ethyl methanesulfonate	4000		U
206-44-0	Fluoranthene	900		J
86-73-7	Fluorene	3700		J
118-74-1	Hexachlorobenzene	4000		U
87-68-3	Hexachlorobutadiene	4000		U
77-47-4	Hexachlorocyclopentadiene	19000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 07/07/00

Work Order: DFV6E10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/24/00

Moisture %: 17

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	4000		U
1888-71-7	Hexachloropropene	40000		U
193-39-5	Indeno(1,2,3-cd)pyrene	4000		U
78-59-1	Isophorone	4000		U
120-58-1	Isosafrole	7900		U
91-80-5	Methapyrilene	19000		U
95-53-4	o-Toluidine	7900		U
56-49-5	3-Methylcholanthrene	7900		U
66-27-3	Methyl methanesulfonate	4000		U
91-57-6	2-Methylnaphthalene	440		J
95-48-7	2-Methylphenol	4000		U
108-39-4	3-Methylphenol	4000		U
106-44-5	4-Methylphenol	4000		U
91-20-3	Naphthalene	1700		J
130-15-4	1,4-Naphthoquinone	19000		U
134-32-7	1-Naphthylamine	4000		U
91-59-8	2-Naphthylamine	4000		U
88-74-4	2-Nitroaniline	19000		U
99-09-2	3-Nitroaniline	19000		U
100-01-6	4-Nitroaniline	19000		U
98-95-3	Nitrobenzene	4000		U
88-75-5	2-Nitrophenol	4000		U
100-02-7	4-Nitrophenol	19000		U
56-57-5	4-Nitroquinoline-1-oxide	40000		U
924-16-3	N-Nitrosodi-n-butylamine	4000		U
55-18-5	N-Nitrosodiethylamine	4000		U
62-75-9	N-Nitrosodimethylamine	4000		U
621-64-7	N-Nitrosodi-n-propylamine	4000		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 07/07/00

Work Order: DFV6E10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/24/00

Moisture %: 17

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-DU02

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	4000	U
10595-95-6	N-Nitrosomethylethylamine	4000	U
59-89-2	N-Nitrosomorpholine	4000	U
100-75-4	N-Nitrosopiperidine	4000	U
930-55-2	N-Nitrosopyrrolidine	4000	U
99-55-8	5-Nitro-o-toluidine	7900	U
608-93-5	Pentachlorobenzene	4000	U
76-01-7	Pentachloroethane	19000	U
82-68-8	Pentachloronitrobenzene	19000	U
87-86-5	Pentachlorophenol	19000	U
62-44-2	Phenacetin	7900	U
85-01-8	Phenanthrene	4100	
108-95-2	Phenol	4000	U
106-50-3	p-Phenylene diamine	40000	U
109-06-8	2-Picoline	7900	U
23950-58-5	Pronamide	7900	U
129-00-0	Pyrene	3000	J
110-86-1	Pyridine	7900	U
94-59-7	Safrole	7900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4000	U
58-90-2	2,3,4,6-Tetrachlorophenol	19000	U
120-82-1	1,2,4-Trichlorobenzene	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
99-35-4	1,3,5-Trinitrobenzene	19000	U
86-74-8	Carbazole	4000	U
510-15-6	Chlorobenzilate	4000	U
122-09-8	a,a-Dimethylphenethylamine	19000	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G070231 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.2 / g

Date Received: 07/07/00

Work Order: DFV6E10W

Date Extracted: 07/11/00

Dilution factor: 10

Date Analyzed: 07/24/00

Moisture %: 17

QC Batch: 0192232

Client Sample Id: MPT-G4-SU-DU02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite	7900		U

APPENDIX C

SUPPORT DOCUMENTATION

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-DU02RE	A0G070231006	NORMAL	MP015	M	07/06/00	07/21/00	07/21/00	15	0	15
UG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-18-08RE	A0G020104001	NORMAL	MP015	OS	06/30/00	07/17/00	07/19/00	17	2	19
UG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-21-07RE	A0G020104004	NORMAL	MP015	OS	06/30/00	07/17/00	07/19/00	17	2	19
UG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	OS	06/30/00	07/07/00	07/14/00	7	7	14
UG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	OS	07/05/00	07/11/00	07/21/00	6	10	16
UG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	OS	07/05/00	07/11/00	07/21/00	6	10	16
UG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	OS	07/05/00	07/11/00	07/21/00	6	10	16
UG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	OS	07/05/00	07/11/00	07/25/00	6	14	20
UG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	OS	07/06/00	07/11/00	07/21/00	5	10	15
UG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	OS	07/06/00	07/11/00	07/21/00	5	10	15
UG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	OS	07/06/00	07/11/00	07/21/00	5	10	15
UG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	OS	07/07/00	07/11/00	07/25/00	4	14	18
UG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	OS	07/07/00	07/11/00	07/25/00	4	14	18
UG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	OS	07/07/00	07/11/00	07/25/00	4	14	18
UG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	OS	07/06/00	07/11/00	07/24/00	5	13	18
UG/KG	MPT-G4-SU-18-08	A0G020104001	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-19-10	A0G020104002	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-20-10	A0G020104003	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-21-07	A0G020104004	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-G4-SU-22-08	A0G020104005	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-23-08	A0G020104006	NORMAL	MP015	OV	06/30/00	07/05/00	07/05/00	5	0	5
UG/KG	MPT-G4-SU-24-08	A0G060209001	NORMAL	MP015	OV	07/05/00	07/11/00	07/11/00	6	0	6
UG/KG	MPT-G4-SU-25-05	A0G060209002	NORMAL	MP015	OV	07/05/00	07/11/00	07/11/00	6	0	6
UG/KG	MPT-G4-SU-26-05	A0G060209003	NORMAL	MP015	OV	07/05/00	07/07/00	07/13/00	2	6	8
UG/KG	MPT-G4-SU-27-07	A0G060209004	NORMAL	MP015	OV	07/05/00	07/11/00	07/11/00	6	0	6
UG/KG	MPT-G4-SU-28-05	A0G070231001	NORMAL	MP015	OV	07/06/00	07/07/00	07/14/00	1	7	8
UG/KG	MPT-G4-SU-29-05	A0G070231002	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-30-07	A0G070231003	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-31-08	A0G070231004	NORMAL	MP015	OV	07/06/00	07/07/00	07/13/00	1	6	7
UG/KG	MPT-G4-SU-32-07	A0G070231005	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-33-05	A0G070231007	NORMAL	MP015	OV	07/06/00	07/11/00	07/11/00	5	0	5
UG/KG	MPT-G4-SU-34-05	A0G080137001	NORMAL	MP015	OV	07/07/00	07/08/00	07/13/00	1	5	6
UG/KG	MPT-G4-SU-35-05	A0G080137002	NORMAL	MP015	OV	07/07/00	07/14/00	07/14/00	7	0	7
UG/KG	MPT-G4-SU-37-05	A0G080137003	NORMAL	MP015	OV	07/07/00	07/15/00	07/15/00	8	0	8
UG/KG	MPT-G4-SU-DU02	A0G070231006	NORMAL	MP015	OV	07/06/00	07/07/00	07/13/00	1	6	7

SDG NARRATIVE MP015

The following report contains the analytical results for twenty solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received July 1, 6, 7 and 8, 2000, according to documented sample acceptance procedures.

This SDG consists of four (4) laboratory ID's: A0G020104, A0G060209, A0G070231 and A0G080137.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 0.9, 0.9, 1.0, 1.3, 2.2, 3.4, 2.1 and 2.4° C.

(See STL's Cooler Receipt Form for additional information.)

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: Tetra Tech Project: _____ Quote#: _____
 Cooler Received on: 7/1/00 Opened on: 7/1/00 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: SEE BACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location OVER lid
 - Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM DJP Date: 7-2-00 by: TB via Voice Mail Verbal Other
 Concerning: anomalies

MACRO | MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
X SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred <u>Received 4 liter sample, ID# MPT-8-GW-095-02 NOT on COC, ALSO RECEIVED 5 FRIB VIALS w/SAME ID AS ABOVE. they ARE ALSO NOT on the COC.</u>

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

NCM
 SR4A NCM has been generated. Refer to Clouseau for details

Other Anomalies (see below or back)

STL Cooler Receipt Form/Narrative
North Canton Facility

Client: PCMA TELH Project: _____ Quote#: _____
 Cooler Received on: 7/6/00 Opened on: 7/6/00 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: J 652

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 1 Location outside
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt 1.3 °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
 Concerning: _____

MACRO | MACRO

1. CHAIN OF CUSTODY

<input checked="" type="checkbox"/> SR1A	Samples were received under proper custody procedures and without discrepancies.
<input type="checkbox"/> SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

<input type="checkbox"/> SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
<input type="checkbox"/> SR2B	Sample(s) _____ were received with insufficient volume
<input type="checkbox"/> SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

<input type="checkbox"/> SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
<input type="checkbox"/> SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

<input type="checkbox"/> SR4A	NCM has been generated. Refer to Clouseau for details
-------------------------------	---

Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SO

Lab Sample ID: A0G020104 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 07/01/00

Work Order: DFN4210W

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: 22

QC Batch: 0188270

Client Sample Id: MPT-G4-SU-18-08

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	420		U
95-50-1	1,2-Dichlorobenzene	420		U
541-73-1	1,3-Dichlorobenzene	420		U
106-46-7	1,4-Dichlorobenzene	420		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	420		U
87-65-0	2,6-Dichlorophenol	420		U
84-66-2	Diethyl phthalate	420		U
60-11-7	p-Dimethylaminoazobenzene	840		U
57-97-6	7,12-Dimethylbenz(a) anthrace	840		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	420		U
131-11-3	Dimethyl phthalate	420		U
117-84-0	Di-n-octyl phthalate	420		U
99-65-0	1,3-Dinitrobenzene	420		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	420		U
606-20-2	2,6-Dinitrotoluene	420		U
88-85-7	2-sec-Butyl-4,6-dinitropheno	840		U
123-91-1	1,4-Dioxane	420		U
122-39-4	Diphenylamine	420		U
62-50-0	Ethyl methanesulfonate	420		U
206-44-0	Fluoranthene	420		U
86-73-7	Fluorene	420		U
118-74-1	Hexachlorobenzene	420		U
87-68-3	Hexachlorobutadiene	420		U
77-47-4	Hexachlorocyclopentadiene	2000		U

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUN-2000 10:59
 End Cal Date : 12-JUL-2000 17:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.i/X00712A.b/8260S503-3.m
 Cal Date : 13-Jul-2000 10:36 quayler
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	1.27675	1.08427	0.97124	0.92367	0.83015	1.01722	16.864
101 Naphthalene	2.54480	1.82918	1.63213	1.46790	1.27559	1.74992	27.945
102 Hexachlorobutadiene	0.83787	0.81015	0.71676	0.73157	0.73185	0.76564	7.121
103 1,2,3-Trichlorobenzene	1.46278	1.14300	0.98787	0.93797	0.82475	1.07127	23.051
104 Isopropyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 N-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 N-Propyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 N-Butyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Bromochloromethane	0.20305	0.20816	0.19268	0.19019	0.17454	0.19372	6.715
112 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 1,3,5-Trichlorobenzene	1.20279	1.23164	1.00858	1.03009	0.93931	1.08248	11.815
138 Methyl Acetate	0.15325	0.13931	0.13529	0.12986	0.11415	0.13437	10.596
139 Methylcyclohexane	0.37362	0.41552	0.36524	0.37346	0.36698	0.37896	5.483
\$ 4 1,2-Dichloroethane-d4	0.29398	0.30130	0.28933	0.25985	0.25250	0.27939	7.794
\$ 5 Toluene-d8	0.89108	0.99281	0.91884	0.84947	0.80317	0.89107	8.049
\$ 6 Bromofluorobenzene	0.80462	0.77650	0.73414	0.67803	0.65666	0.72999	8.617
\$ 7 Dibromofluoromethane	0.51519	0.53416	0.49020	0.43003	0.40931	0.47578	11.358

**STL Cooler Receipt Form/Narrative
North Canton Facility**

Client: STRATA TECH Project: _____ Quote#: _____
 Cooler Received on: 7/8/00 Opened on: 7/8/00 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____

STL Shipper No#: SEE BACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location overhead
 Were the custody seals signed and dated? Yes No NA
2. Shipper's packing slip attached to this form? Yes No
3. Were custody papers included inside the cooler and relinquished? Yes No
4. Did you sign the custody papers in the appropriate place? Yes No

5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____

6. Cooler temperature upon receipt See Back °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial Coolant Against Bottles

COOLANT: Wet Ice Blue Ice Dry Ice Water None

7. Were all the bottles sealed in separate plastic bags? Yes No
8. Did all bottles arrive in good condition (Unbroken)? Yes No
9. Did all bottle labels and tags agree with the custody papers? Yes No
10. Were samples at the correct pH? Yes No NA
11. Were correct bottles used for the tests indicated? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a sufficient amount of sample sent in each bottle? Yes No

Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

MACRO | **MACRO**

1. CHAIN OF CUSTODY

<input checked="" type="checkbox"/>	SR1A	Samples were received under proper custody procedures and without discrepancies.
	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) _____ were received with insufficient volume
	SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

	SR4A	NCM has been generated. Refer to Clouseau for details
--	------	---

5. Other Anomalies (see below or back)



PROJECT NO: NO123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER Terry Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE) <i>Steve Hansen</i> <i>Charles Wall</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson	ADDRESS 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER Fed Ex 7923 5025 4970	CITY, STATE N. Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)						COMMENTS	
						PRESERVATIVE USED							
						TYPE OF ANALYSIS							
						VOC	SVOC	TAL Metals + Tin	Cyanide	HCl	HNO3	NaOH	
7/5	1138	MPT-G4-SU-24-08	S	G	5	X	X	X	X				Cool to 4°C
7-5	1217	MPT-G4-GW-24-08	GW		7	X	X	X	X				
7-5	1305	MPT-G4-SU-25-05	S		5	X	X	X	X				
7-5	1335	MPT-G4-GW-25-07	GW		7	X	X	X	X				
7-5	1420 1455	MPT-G4-SU-26-05	S		5	X	X	X	X				
7-5	1455	MPT-G4-GW-26-05	GW		7	X	X	X	X				
7-5	1550	MPT-G4-SU-27-07	S		5	X	X	X	X				
7-5	1620	MPT-G4-GW-27-08	GW		7	X	X	X	X				

1. RELINQUISHED BY <i>Steve Hansen</i>	DATE 7/5/00	TIME 7:00	1. RECEIVED BY <i>[Signature]</i>	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY <i>[Signature]</i>	DATE 7/6/00	TIME 9:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex 1923 5025 5016				CITY, STATE N. Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS TOC VOC TOC SVOC TAL Metals + Tin Cyanide HCl HNO3 NaOH			
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS					COMMENTS	
7-6		MPT-G4-SU-27	S	G	5	X	X	X	X	X	Cool to 4°C
		MPT-G4-GW-27	GW		7	X	X	X	X	X	
7-6	0815	MPT-G4-SU-28-05	S		5	X	X	X	X		
	0845	MPT-G4-GW-28-05	GW		7	X	X	X	X		
	0928	MPT-G4-SU-29-05	S		5	X	X	X	X		
	1000	MPT-G4-GW-29-05	GW		7	X	X	X	X		
	1100	MPT-G4-SU-30-07	S		5	X	X	X	X		
	1125	MPT-G4-GW-30-07	GW		7	X	X	X	X		
	1330	MPT-G4-SU-31-08	S		5	X	X	X	X		
	1420	MPT-G4-GW-31-09	GW		7	X	X	X	X		
	1450	MPT-G4-SU-32-07	S		5	X	X	X	X		
	1510	MPT-G4-GW-32-07	GW		7	X	X	X	X		
	0000	MPT-G4-SU-DU02	S		5	X	X	X	X		
1. RELINQUISHED BY 		DATE 7-6-00	TIME 1900	1. RECEIVED BY				DATE	TIME		
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY 				DATE 7/7/00	TIME 915		
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME		

COMMENTS: 2 Coolers ID#s 070609-1 & 070609-2. See FedEx Tracking#s above also.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99 FORM NO. TINUS-001



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quantaera				
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW						
		CARRIER/WAYBILL NUMBER FedEx				CITY, STATE N. Canton, OH						
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED						
						HCl		HNO3		NaOH		
						TCU vac		TCU SUOC		TCU Metals + Tin		
						Cyanide						
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS					COMMENTS	
7/6	0000	MPT-G4-GW-DU02	GW		7	X	X	X	X			Cool to 4°C
	1540	MPT-G4-SU-33-05	S		5	X	X	X	X			↓
	1610	MPT-G4-GW-33-	GW		7	X	X	X	X			
		TB070600	W			X						
RELINQUISHED BY 		DATE	TIME	1. RECEIVED BY				DATE	TIME			
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY 				DATE	TIME			
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY				DATE	TIME			
COMMENTS												



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) <i>[Signature]</i> Chad Wells		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW							
		CARRIER/WAYBILL NUMBER 7911 0738 9714 FedEx: 07911 0738 9600				CITY, STATE N. Canton, OH							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day						CONTAINER TYPE PLASTIC (P) or GLASS (G)							
						PRESERVATIVE USED							
DATE YEAR 2000						TYPE OF ANALYSIS							
TIME		SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	TCL SVOC	TAL Metals + Tin	Cyanide	HCl	HNO3	NaOH	COMMENTS
7-7	0750	MPT-G4-SU-34-05	S	G	5	X	X	X	X				Cool to 4°C
	0815	MPT-G4-GW-34-05	GW		7	X	X	X	X				
	0910	MPT-G4-SU-35-05	S		5	X	X	X	X				
	0940	MPT-G4-GW-35-05	GW		7	X	X	X	X				
	1110	MPT-G4-SU-36-37-05	S		5	X	X	X	X				
	1135	MPT-G4-GW-37-05	GW		7	X	X	X	X				
	1250	MPT-G4-SU-38-05	S		5	X	X	X	X				
		TB070700-	W		2	X			X				
	1325	MPT-G4-GW-38-04	GW		7	X	X	X	X				
	1330	MPT-G4-SU-39-05	S		5	X	X	X	X				
	1425	MPT-G4-GW-39-04	GW		7	X	X	X	X				
	1446	MPT-G4-SU-40-05	S		5	X	X	X	X				
	1525	MPT-G4-GW-40-04	GW		7	X	X	X	X				
1. RELINQUISHED BY <i>[Signature]</i>		DATE 7-7-00		TIME 1900		1. RECEIVED BY <i>[Signature]</i>				DATE		TIME	
2. RELINQUISHED BY <i>[Signature]</i>		DATE		TIME		2. RECEIVED BY <i>[Signature]</i>				DATE 7/8/00		TIME 1615	
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY <i>[Signature]</i>				DATE		TIME	
COMMENTS: 2 Coolers - ID#5: 0000 070700-1 & 070700-2													

SDG NARRATIVE MP015

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample MPT-G4-SU-34-05 was diluted during analysis due to high concentrations of unlisted compounds (TICs) in this sample.

Samples in this lot were preserved by freezing in water due to samples effervescing when preserved with sodium bisulfate.

The sample(s) had elevated reporting limits due to matrix interferences, TICs, or dilution.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The initial calibration second source verification failed the laboratory acceptance criteria for acetone and 2-butanone for the initial calibration analyzed on instrument 503 on July 12, 2000. These are poor purging compounds. The initial calibration was accepted.

SDG NARRATIVE
MP015

GC/MS VOLATILES(continued)

The calibration check is out of control for Acetone, 2-Butanone, and 2-Hexanone on instrument ux9 on June 29, 2000 for the 8260 method. The calibration check was reanalyzed with similar results. These compounds are considered to have poor purging efficiency. The calibration was accepted.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFQE4101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: ux93333.d

Lot Number: A0G020104

Date Analyzed: 07/05/00

Time Analyzed: 12:26

Matrix: SOLID

Date Extracted:07/05/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB OC	DFKHF101	ux93334.d	07/05/00	12:54
02	LAB MS/MSD	DFKHF12X S	ux93336.d	07/05/00	13:43
03	LAB MS/MSD	DFKHF130 D	ux93337.d	07/05/00	14:08
04	MPT-G4-SU-18-08	DFN42102	ux93345.d	07/05/00	17:26
05	MPT-G4-SU-19-10	DFN43102	ux93346.d	07/05/00	17:51
06	MPT-G4-SU-20-10	DFN44102	ux93347.d	07/05/00	18:15
07	MPT-G4-SU-21-07	DFN45102	ux93348.d	07/05/00	18:40
08	MPT-G4-SU-22-08	DFN46102	ux93349.d	07/05/00	19:04
09	MPT-G4-SU-23-08	DFN47102	ux93350.d	07/05/00	19:29
10	CHECK SAMPLE	DFQE4102 C	ux93331.d	07/05/00	11:37
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G060000 232
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 06/29/00
Work Order: DFQE4101 Date Extracted: 07/05/00
Dilution factor: 1 Date Analyzed: 07/05/00
Moisture %: NA

QC Batch: 0188232

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-64-1	Acetone	20		U
75-05-8	Acetonitrile	100		U
107-02-8	Acrolein	100		U
107-13-1	Acrylonitrile	100		U
71-43-2	Benzene	5.0		U
75-27-4	Bromodichloromethane	5.0		U
75-25-2	Bromoform	5.0		U
74-83-9	Bromomethane	10		U
75-15-0	Carbon disulfide	5.0		U
56-23-5	Carbon tetrachloride	5.0		U
108-90-7	Chlorobenzene	5.0		U
126-99-8	Chloroprene	5.0		U
124-48-1	Dibromochloromethane	5.0		U
96-12-8	1,2-Dibromo-3-chloropropane	10		U
75-00-3	Chloroethane	10		U
110-75-8	2-Chloroethyl vinyl ether	50		U
67-66-3	Chloroform	5.0		U
74-87-3	Chloromethane	10		U
107-05-1	Allyl chloride	10		U
74-95-3	Dibromomethane	5.0		U
110-57-6	trans-1,4-Dichloro-2-butene	5.0		U
75-71-8	Dichlorodifluoromethane	10		U
75-34-3	1,1-Dichloroethane	5.0		U
107-06-2	1,2-Dichloroethane	5.0		U
75-35-4	1,1-Dichloroethene	5.0		U
156-59-2	cis-1,2-Dichloroethene	2.5		U
156-60-5	trans-1,2-Dichloroethene	2.5		U
540-59-0	1,2-Dichloroethene (total)	5.0		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G060000 232

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 06/29/00

Work Order: DFQR4101

Date Extracted: 07/05/00

Dilution factor: 1

Date Analyzed: 07/05/00

Moisture %: NA

QC Batch: 0188232

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
97-63-2	Ethyl methacrylate	5.0	U
75-69-4	Trichlorofluoromethane	10	U
591-78-6	2-Hexanone	20	U
74-88-4	Iodomethane	5.0	U
78-83-1	Isobutyl alcohol	200	U
126-98-7	Methacrylonitrile	5.0	U
75-09-2	Methylene chloride	2.0	J
80-62-6	Methyl methacrylate	5.0	U
107-12-0	Propionitrile	20	U
100-42-5	Styrene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	5.0	U
78-93-3	2-Butanone (MEK)	20	U
108-10-1	4-Methyl-2-pentanone (MIBK)	20	U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG2GL101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: ux93537.d

Lot Number: A0G060209

Date Analyzed: 07/11/00

Time Analyzed: 10:06

Matrix: SOLID

Date Extracted:07/11/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-24-08	DFRAK102	ux93541.d	07/11/00	11:45
02	MPT-G4-SU-25-05	DFRAW102	ux93542.d	07/11/00	12:09
03	MPT-G4-SU-27-07	DFRC1102	ux93543.d	07/11/00	12:34
04	CHECK SAMPLE	DG2GL102 C	ux93535.d	07/11/00	09:16
05	DUPLICATE CHECK	DG2GL103 L	ux93536.d	07/11/00	09:41
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COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG2GL101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: ux93537.d

Lot Number: A0G070231

Date Analyzed: 07/11/00

Time Analyzed: 10:06

Matrix: SOLID

Date Extracted:07/11/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCS D, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-32-07	DFV6D102	ux93554.d	07/11/00	17:08
02	MPT-G4-SU-33-05	DFV6L102	ux93555.d	07/11/00	17:32
03	MPT-G4-SU-29-05	DFV68102	ux93552.d	07/11/00	16:18
04	MPT-G4-SU-30-07	DFV69102	ux93553.d	07/11/00	16:43
05	CHECK SAMPLE	DG2GL102 C	ux93535.d	07/11/00	09:16
06	DUPLICATE CHECK	DG2GL103 L	ux93536.d	07/11/00	09:41
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G120000 148
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/06/00
Work Order: DG2GL101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/11/00
Moisture %: NA

QC Batch: 0194148

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	4.4	J
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
126-99-8	Chloroprene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
75-00-3	Chloroethane	10	U
110-75-8	2-Chloroethyl vinyl ether	50	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
107-05-1	Allyl chloride	10	U
74-95-3	Dibromomethane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
540-59-0	1,2-Dichloroethene (total)	5.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G120000 148

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/06/00
Work Order: DG2GL101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/11/00
Moisture %: NA

QC Batch: 0194148

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.0		U
10061-01-5	cis-1,3-Dichloropropene	5.0		U
10061-02-6	trans-1,3-Dichloropropene	5.0		U
100-41-4	Ethylbenzene	5.0		U
97-63-2	Ethyl methacrylate	5.0		U
75-69-4	Trichlorofluoromethane	10		U
591-78-6	2-Hexanone	20		U
74-88-4	Iodomethane	5.0		U
78-83-1	Isobutyl alcohol	200		U
126-98-7	Methacrylonitrile	5.0		U
75-09-2	Methylene chloride	4.8		J
80-62-6	Methyl methacrylate	5.0		U
107-12-0	Propionitrile	20		U
100-42-5	Styrene	5.0		U
630-20-6	1,1,1,2-Tetrachloroethane	5.0		U
79-34-5	1,1,2,2-Tetrachloroethane	5.0		U
127-18-4	Tetrachloroethene	5.0		U
108-88-3	Toluene	5.0		U
71-55-6	1,1,1-Trichloroethane	5.0		U
79-00-5	1,1,2-Trichloroethane	5.0		U
79-01-6	Trichloroethene	5.0		U
96-18-4	1,2,3-Trichloropropane	5.0		U
108-05-4	Vinyl acetate	10		U
75-01-4	Vinyl chloride	10		U
1330-20-7	Xylenes (total)	5.0		U
106-93-4	1,2-Dibromoethane (EDB)	5.0		U
78-93-3	2-Butanone (MEK)	20		U
108-10-1	4-Methyl-2-pentanone (MIBK)	20		U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G120000 148

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/06/00

Work Order: DG2GL101 Date Extracted: 07/11/00

Dilution factor: 1 Date Analyzed: 07/11/00

Moisture %: NA

QC Batch: 0194148

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	20		U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGATP101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: ux93654.d

Lot Number: AOG080137

Date Analyzed: 07/15/00

Time Analyzed: 10:23

Matrix: SOLID

Date Extracted:07/15/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-37-05	DFWAL102	ux93656.d	07/15/00	11:09
02	CHECK SAMPLE	DGATP102 C	ux93652.d	07/15/00	09:37
03	DUPLICATE CHECK	DGATP103 L	ux93653.d	07/15/00	10:00
04					
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: AOG170000 185
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/08/00
Work Order: DGATP101 Date Extracted: 07/15/00
Dilution factor: 1 Date Analyzed: 07/15/00
Moisture %: NA

QC Batch: 0199185

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	3.4	J
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
126-99-8	Chloroprene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
75-00-3	Chloroethane	10	U
110-75-8	2-Chloroethyl vinyl ether	50	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
107-05-1	Allyl chloride	10	U
74-95-3	Dibromomethane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
540-59-0	1,2-Dichloroethene (total)	5.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: AOG170000 185
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/08/00
Work Order: DGATP101 Date Extracted: 07/15/00
Dilution factor: 1 Date Analyzed: 07/15/00
Moisture %: NA

QC Batch: 0199185

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.0		U
10061-01-5	cis-1,3-Dichloropropene	5.0		U
10061-02-6	trans-1,3-Dichloropropene	5.0		U
100-41-4	Ethylbenzene	5.0		U
97-63-2	Ethyl methacrylate	5.0		U
75-69-4	Trichlorofluoromethane	10		U
591-78-6	2-Hexanone	20		U
74-88-4	Iodomethane	5.0		U
78-83-1	Isobutyl alcohol	200		U
126-98-7	Methacrylonitrile	5.0		U
75-09-2	Methylene chloride	5.0		U
80-62-6	Methyl methacrylate	5.0		U
107-12-0	Propionitrile	20		U
100-42-5	Styrene	5.0		U
630-20-6	1,1,1,2-Tetrachloroethane	5.0		U
79-34-5	1,1,2,2-Tetrachloroethane	5.0		U
127-18-4	Tetrachloroethene	5.0		U
108-88-3	Toluene	5.0		U
71-55-6	1,1,1-Trichloroethane	5.0		U
79-00-5	1,1,2-Trichloroethane	5.0		U
79-01-6	Trichloroethene	5.0		U
96-18-4	1,2,3-Trichloropropane	5.0		U
108-05-4	Vinyl acetate	10		U
75-01-4	Vinyl chloride	10		U
1330-20-7	Xylenes (total)	5.0		U
106-93-4	1,2-Dibromoethane (EDB)	5.0		U
78-93-3	2-Butanone (MEK)	20		U
108-10-1	4-Methyl-2-pentanone (MIBK)	20		U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G170000 185
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/08/00
Work Order: DGATP101 Date Extracted: 07/15/00
Dilution factor: 1 Date Analyzed: 07/15/00
Moisture %: NA

QC Batch: 0199185

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether	20		U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG5LV101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: VOX3230.d

Lot Number: AOG070231

Date Analyzed: 07/12/00

Time Analyzed: 23:35

Matrix: SOLID

Date Extracted:07/07/00

GC Column: DB 624 ID: .75

Extraction Method: 5035

Instrument ID: 503

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 MPT-G4-SU-28-05	DFV5X102	ux89095.d	07/14/00	23:26
02 MPT-G4-SU-31-08	DFV6A102	VOX3233.d	07/13/00	01:02
03 MPT-G4-SU-DU02	DFV6E102	VOX3234.d	07/13/00	01:30
04 CHECK SAMPLE	DG5LV102 C	VOX3228.d	07/12/00	22:37
05 DUPLICATE CHECK	DG5LV103 L	VOX3229.d	07/12/00	23:06
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COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG5LV101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: VOX3230.d

Lot Number: A0G060209

Date Analyzed: 07/12/00

Time Analyzed: 23:35

Matrix: SOLID

Date Extracted:07/07/00

GC Column: DB 624 ID: .75

Extraction Method: 5035

Instrument ID: 503

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-26-05	DFRAX102	VOX3231.d	07/13/00	00:04
02	CHECK SAMPLE	DG5LV102 C	VOX3228.d	07/12/00	22:37
03	DUPLICATE CHECK	DG5LV103 L	VOX3229.d	07/12/00	23:06
04					
05					
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: AOG130000 367
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/06/00
Work Order: DG5LV101 Date Extracted: 07/07/00
Dilution factor: 1 Date Analyzed: 07/12/00
Moisture %: NA

QC Batch: 0195367

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	220	J
75-05-8	Acetonitrile	5000	U
107-02-8	Acrolein	5000	U
107-13-1	Acrylonitrile	5000	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
75-15-0	Carbon disulfide	250	U
56-23-5	Carbon tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
126-99-8	Chloroprene	250	U
124-48-1	Dibromochloromethane	250	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
75-00-3	Chloroethane	500	U
110-75-8	2-Chloroethyl vinyl ether	2500	U
67-66-3	Chloroform	250	U
74-87-3	Chloromethane	500	U
107-05-1	Allyl chloride	500	U
74-95-3	Dibromomethane	250	U
110-57-6	trans-1,4-Dichloro-2-butene	250	U
75-71-8	Dichlorodifluoromethane	500	U
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
156-59-2	cis-1,2-Dichloroethene	120	U
156-60-5	trans-1,2-Dichloroethene	120	U
540-59-0	1,2-Dichloroethene (total)	250	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G130000 367
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/06/00
Work Order: DG5LV101 Date Extracted: 07/07/00
Dilution factor: 1 Date Analyzed: 07/12/00
Moisture %: NA

QC Batch: 0195367

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
97-63-2	Ethyl methacrylate	250	U
75-69-4	Trichlorofluoromethane	500	U
591-78-6	2-Hexanone	1000	U
74-88-4	Iodomethane	250	U
78-83-1	Isobutyl alcohol	10000	U
126-98-7	Methacrylonitrile	250	U
75-09-2	Methylene chloride	80	J
80-62-6	Methyl methacrylate	250	U
107-12-0	Propionitrile	1000	U
100-42-5	Styrene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	35	J
108-88-3	Toluene	250	U
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
108-05-4	Vinyl acetate	500	U
75-01-4	Vinyl chloride	500	U
1330-20-7	Xylenes (total)	250	U
106-93-4	1,2-Dibromoethane (EDB)	250	U
78-93-3	2-Butanone (MEK)	890	J
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015
Matrix: (soil/water) SOLID Lab Sample ID: AOG130000 367
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
Sample WT/Vol: 5 / g Date Received: 07/06/00
Work Order: DG5LV101 Date Extracted: 07/07/00
Dilution factor: 1 Date Analyzed: 07/12/00
Moisture %: NA QC Batch: 0195367
Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
1634-04-4	Methyl tert-butyl ether (MTB)	1000	U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGCJD101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: VOX3267.d

Lot Number: A0G080137

Date Analyzed: 07/14/00

Time Analyzed: 10:20

Matrix: SOLID

Date Extracted:07/14/00

GC Column: DB 624 ID: .75

Extraction Method: 5035

Instrument ID: 503

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-35-05	DFWAK102	VOX3279.d	07/14/00	16:10
02	CHECK SAMPLE	DGCJD102 C	VOX3265.d	07/14/00	09:22
03	DUPLICATE CHECK	DGCJD103 L	VOX3266.d	07/14/00	09:51
04					
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G170000 511
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/07/00
Work Order: DGCJD101 Date Extracted: 07/14/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %: NA

QC Batch: 0199511

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	3.2	J
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
126-99-8	Chloroprene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
75-00-3	Chloroethane	10	U
110-75-8	2-Chloroethyl vinyl ether	50	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
107-05-1	Allyl chloride	10	U
74-95-3	Dibromomethane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
540-59-0	1,2-Dichloroethene (total)	5.0	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G170000 511

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/07/00

Work Order: DGCJD101

Date Extracted: 07/14/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0199511

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	0
78-87-5	1,2-Dichloropropane	5.0		U
10061-01-5	cis-1,3-Dichloropropene	5.0		U
10061-02-6	trans-1,3-Dichloropropene	5.0		U
100-41-4	Ethylbenzene	5.0		U
97-63-2	Ethyl methacrylate	5.0		U
75-69-4	Trichlorofluoromethane	10		U
591-78-6	2-Hexanone	20		U
74-88-4	Iodomethane	5.0		U
78-83-1	Isobutyl alcohol	200		U
126-98-7	Methacrylonitrile	5.0		U
75-09-2	Methylene chloride	5.0		U
80-62-6	Methyl methacrylate	5.0		U
107-12-0	Propionitrile	20		U
100-42-5	Styrene	5.0		U
630-20-6	1,1,1,2-Tetrachloroethane	5.0		U
79-34-5	1,1,2,2-Tetrachloroethane	5.0		U
127-18-4	Tetrachloroethene	5.0		U
108-88-3	Toluene	5.0		U
71-55-6	1,1,1-Trichloroethane	5.0		U
79-00-5	1,1,2-Trichloroethane	5.0		U
79-01-6	Trichloroethene	5.0		U
96-18-4	1,2,3-Trichloropropane	5.0		U
108-05-4	Vinyl acetate	10		U
75-01-4	Vinyl chloride	10		U
1330-20-7	Xylenes (total)	5.0		U
1634-04-4	Methyl tert-butyl ether	20		U
106-93-4	1,2-Dibromoethane (EDB)	5.0		U
78-93-3	2-Butanone (MEK)	20		U

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG5JE101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: ux89094.d

Lot Number: A0G080137

Date Analyzed: 07/14/00

Time Analyzed: 23:05

Matrix: SOLID

Date Extracted:07/08/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX8

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-34-05	DFWAG102	VOX3235.d	07/13/00	01:59
02	CHECK SAMPLE	DG5JE102 C	ux89092.d	07/14/00	22:23
03	DUPLICATE CHECK	DG5JE103 L	ux89093.d	07/14/00	22:44
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COMMENTS:

FORM IV

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: AOG130000 360
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/08/00
Work Order: DG5JE101 Date Extracted: 07/08/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %: NA

QC Batch: 0195360

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	580	J
75-05-8	Acetonitrile	5000	U
107-02-8	Acrolein	5000	U
107-13-1	Acrylonitrile	5000	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	500	U
75-15-0	Carbon disulfide	250	U
56-23-5	Carbon tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
126-99-8	Chloroprene	250	U
124-48-1	Dibromochloromethane	250	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
75-00-3	Chloroethane	500	U
110-75-8	2-Chloroethyl vinyl ether	2500	U
67-66-3	Chloroform	250	U
74-87-3	Chloromethane	500	U
107-05-1	Allyl chloride	500	U
74-95-3	Dibromomethane	250	U
110-57-6	trans-1,4-Dichloro-2-butene	250	U
75-71-8	Dichlorodifluoromethane	500	U
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
156-59-2	cis-1,2-Dichloroethene	120	U
156-60-5	trans-1,2-Dichloroethene	120	U
540-59-0	1,2-Dichloroethene (total)	250	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: AOG130000 360
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/08/00
Work Order: DG5JE101 Date Extracted: 07/08/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %: NA

QC Batch: 0195360

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
97-63-2	Ethyl methacrylate	250	U
75-69-4	Trichlorofluoromethane	500	U
591-78-6	2-Hexanone	1000	U
74-88-4	Iodomethane	250	U
78-83-1	Isobutyl alcohol	10000	U
126-98-7	Methacrylonitrile	250	U
75-09-2	Methylene chloride	250	U
80-62-6	Methyl methacrylate	250	U
107-12-0	Propionitrile	1000	U
100-42-5	Styrene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	250	U
108-88-3	Toluene	250	U
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
108-05-4	Vinyl acetate	500	U
75-01-4	Vinyl chloride	500	U
1330-20-7	Xylenes (total)	250	U
106-93-4	1,2-Dibromoethane (EDB)	250	U
78-93-3	2-Butanone (MEK)	850	J
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G130000 360

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/08/00

Work Order: DG5JE101

Date Extracted: 07/08/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0195360

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
1634-04-4	Methyl tert-butyl ether (MTBE)	1000		U

FORM I

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB063 BFB Injection Date: 05/09/00

Instrument ID: A3UX9 BFB Injection Time: 0901

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.9
75	30.0 - 60.0% of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.9 (8.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.7 (96.1)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	100NG-A9IC	UX91652	05/09/00	1201
02	VSTD100	500NG-A9IC	UX91653	05/09/00	1226
03	VSTD050	250NG-A9IC	UX91654	05/09/00	1251
04	VSTD020	100NG-A9IC	UX91655	05/09/00	1315
05	VSTD005	25NG-A9IC	UX91656	05/09/00	1340
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB110 BFB Injection Date: 06/29/00

Instrument ID: A3UX9 BFB Injection Time: 1026

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.8
75	30.0 - 60.0% of mass 95	45.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5.2 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	67.3 (97.8)1
177	5.0 - 9.0% of mass 176	4.4 (6.6)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	UX93215	06/29/00	1038
02	VSTD100	500NG-IC	UX93216	06/29/00	1103
03	VSTD050	250NG-IC	UX93217	06/29/00	1128
04	VSTD020	100NG-IC	UX93218	06/29/00	1152
05	VSTD005	25NG-IC	UX93219	06/29/00	1217
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux9.i/N00628A.b/ux93156.d
 Level 2: /chem/can/msv/a3ux9.i/N00628A.b/ux93155.d
 Level 3: /chem/can/msv/a3ux9.i/N00628A.b/ux93154.d
 Level 4: /chem/can/msv/a3ux9.i/N00628A.b/ux93153.d
 Level 5: /chem/can/msv/a3ux9.i/N00628A.b/ux93152.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.07864	0.09830	0.10897	0.10800	0.10891	0.10057	12.978
9 Chloromethane	0.32706	0.33354	0.33788	0.33882	0.33351	0.33416	1.393
10 Vinyl Chloride	0.22064	0.23157	0.24113	0.23584	0.23124	0.23208	3.252
11 Bromomethane	0.10009	0.08949	0.07487	0.05596	0.04982	0.07405	28.895
12 Chloroethane	0.12920	0.12376	0.10666	0.07759	0.06321	0.10008	28.773
13 Trichlorofluoromethane	0.19273	0.21057	0.21870	0.20975	0.17552	0.20146	8.591
14 Acrolein	0.03865	0.03776	0.03681	0.03603	0.03360	0.03657	5.280
15 Acetone	0.16808	0.13135	0.12082	0.11672	0.13411	0.13422	15.091
16 1,1-Dichloroethene	0.17468	0.16902	0.18015	0.17611	0.17778	0.17555	2.380
17 Methylene Chloride	0.25318	0.21504	0.21403	0.20981	0.20724	0.21986	8.593
18 Carbon Disulfide	0.60137	0.56446	0.60115	0.60069	0.60237	0.59401	2.783
19 Acrylonitrile	0.15005	0.14885	0.14505	0.14374	0.16348	0.15023	5.224
20 trans-1,2-Dichloroethene	0.21494	0.20350	0.21075	0.20910	0.20219	0.20810	2.531
21 Vinyl acetate	0.65049	0.68327	0.67342	0.68893	0.73617	0.68646	4.578
22 1,1-Dichloroethane	0.45761	0.44011	0.45045	0.44749	0.43969	0.44707	1.680
23 2-Butanone	0.23383	0.22991	0.21528	0.21182	0.25282	0.22873	7.166
24 cis-1,2-dichloroethene	0.23283	0.22160	0.22400	0.21560	0.21349	0.22150	3.450
M 25 1,2-Dichloroethene (total)	0.22389	0.21255	0.21738	0.21235	0.20784	0.21480	2.839
26 Chloroform	0.32608	0.31315	0.32158	0.31308	0.31263	0.31730	1.944
27 1,1,1-Trichloroethane	0.25913	0.24314	0.25725	0.26262	0.26108	0.25664	3.046
28 Carbon Tetrachloride	0.20785	0.21038	0.22609	0.22796	0.23182	0.22082	4.946
29 1,2-Dichloroethane	0.33635	0.32546	0.32748	0.31874	0.32251	0.32611	2.024
30 Benzene	0.93459	0.86517	0.91778	0.89237	0.86668	0.89532	3.436
31 Trichloroethene	0.22072	0.21165	0.22141	0.22248	0.22253	0.21976	2.090
32 1,2-Dichloropropane	0.26994	0.27334	0.27753	0.27126	0.26342	0.27110	1.905
33 Bromodichloromethane	0.22863	0.21931	0.23511	0.23578	0.23884	0.23154	3.360

Handwritten notes:
 0.0019 (100)
 0.0366
 5.20

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
34 2-Chloroethyl vinyl ether	0.14000	0.15257	0.15439	0.15680	0.16887	0.15453	6.677
35 4-Methyl-2-pentanone	0.35652	0.38552	0.38096	0.37767	0.45063	0.39026	9.106
36 cis-1,3-Dichloropropene	0.34051	0.33931	0.35554	0.34927	0.35451	0.34783	2.191
37 Toluene	1.37785	1.32397	1.32515	1.30843	1.28225	1.32353	2.641
38 trans-1,3-Dichloropropene	0.37454	0.41946	0.42192	0.42882	0.43666	0.41628	5.830
39 2-Hexanone	0.32991	0.38341	0.37151	0.37064	0.44979	0.38105	11.397
40 1,1,2-Trichloroethane	0.25022	0.25232	0.25008	0.24177	0.24711	0.24830	1.650
41 Tetrachloroethene	0.21502	0.21350	0.21545	0.20981	0.20703	0.21216	1.711
42 Dibromochloromethane	0.21000	0.22594	0.22941	0.23992	0.25354	0.23176	7.003
43 Chlorobenzene	0.90840	0.89916	0.90650	0.89895	0.88064	0.89873	1.221
44 Ethylbenzene	0.50866	0.50210	0.50361	0.49807	0.48794	0.50007	1.554
45 m + p-Xylene	0.70441	0.62371	0.62580	0.60655	0.59118	0.63033	6.938
46 Xylene-o	0.62480	0.60135	0.60142	0.59168	0.57664	0.59918	2.927
M 47 Xylenes (total)	0.67788	0.61626	0.61767	0.60160	0.58633	0.61995	5.612
48 Styrene	0.97363	0.98457	1.02371	1.01539	0.99724	0.99891	2.084
49 Bromoform	0.10455	0.12139	0.12652	0.12925	0.14945	0.12623	12.785
50 1,1,2,2-Tetrachloroethane	0.70209	0.70675	0.72312	0.69135	0.75306	0.71527	3.359
51 1,3-Dichlorobenzene	1.41018	1.27161	1.32482	1.29781	1.27219	1.31532	4.362
52 1,4-Dichlorobenzene	1.52027	1.29485	1.35301	1.30516	1.32659	1.35998	6.790
53 1,2-Dichlorobenzene	1.38961	1.22303	1.27608	1.22466	1.25687	1.27405	5.366
54 Freon-113	0.12569	0.13091	0.12833	0.14180	0.13924	0.13319	5.253
55 Acetonitrile	0.04712	0.04969	0.04716	0.04757	0.05362	0.04903	5.656
56 Iodomethane	0.28187	0.28642	0.29312	0.29073	0.29397	0.28922	1.746
57 3-Chloropropene	0.10737	0.11156	0.10975	0.11360	0.11383	0.11122	2.443
58 2-Chloro-1,3-butadiene	0.54219	0.57641	0.58472	0.59927	0.60446	0.58141	4.235
59 Propionitrile	0.05785	0.06249	0.06022	0.06410	0.06843	0.06262	6.411
60 Methacrylonitrile	0.27041	0.27031	0.26853	0.27736	0.29071	0.27546	3.328
61 Isobutanol	0.01377	0.01547	0.01539	0.01718	0.01867	0.01610	11.671
62 Methyl Methacrylate	0.35113	0.37764	0.36957	0.40172	0.41617	0.38325	6.748
63 1,4-Dioxane	0.00233	0.00266	0.00252	0.00255	0.00301	0.00261	9.507 ←
64 Dibromomethane	0.10516	0.10875	0.10781	0.10604	0.11037	0.10762	1.940
65 Ethyl Methacrylate	0.35238	0.41188	0.41150	0.41518	0.44144	0.40648	8.047
66 1,2-Dibromoethane	0.25278	0.26364	0.26098	0.25517	0.26882	0.26028	2.483

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
67 1,1,1,2-Tetrachloroethane	0.25163	0.25911	0.25735	0.27604	0.27573	0.26397	4.251
68 1,2,3-Trichloropropane	0.91820	0.91981	0.92649	0.93333	1.01468	0.94250	4.328
69 1,4-Dichloro-2-butene	0.35431	0.32830	0.34362	0.34440	0.39274	0.35267	6.877
70 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++ <-
71 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++ <-
72 1,2-Dibromo-3-chloropropane	0.11816	0.12669	0.13137	0.14551	0.15803	0.13595	11.644
73 Ethanol	++++	++++	++++	++++	++++	++++	++++ <-
74 n-Butanol	0.01003	0.01178	0.01237	0.01403	0.01565	0.01277	16.847
75 Ethyl Acetate	0.45322	0.46028	0.44671	0.48155	0.51368	0.47109	5.768
76 Cyclohexanone	0.03840	0.04242	0.04219	0.04690	0.05108	0.04420	11.048
77 Ethyl Ether	0.30300	0.30790	0.29616	0.30911	0.30462	0.30416	1.676
78 Methyl tert-butyl ether	0.61204	0.61383	0.60971	0.59847	0.61837	0.61048	1.217
79 Tetrahydrofuran	0.12657	0.13399	0.12317	0.12351	0.15048	0.13154	8.700
80 Dichlorofluoromethane	0.30350	0.33178	0.34464	0.35176	0.34647	0.33563	5.781
81 2-Nitropropane	0.05959	0.06270	0.06506	0.07554	0.08696	0.06997	16.048
82 tert-Butyl Alcohol	0.03457	0.03676	0.03362	0.03511	0.04619	0.03725	13.754
83 Cyclohexane	0.58184	0.57686	0.60907	0.61006	0.60764	0.59709	2.732
84 Hexane	0.40601	0.40452	0.41043	0.41587	0.41801	0.41097	1.440
85 Isopropyl Ether	1.02365	1.04444	1.02170	1.02356	0.99063	1.02080	1.888
86 2,2-Dichloropropane	0.23895	0.23696	0.24692	0.25215	0.25384	0.24577	3.094
87 1,1-Dichloropropene	0.28213	0.25980	0.27436	0.27468	0.26712	0.27162	3.120
88 1,3-Dichloropropane	0.49001	0.47240	0.46910	0.45217	0.45387	0.46751	3.304
89 Isopropylbenzene	1.46001	1.46603	1.48430	1.48753	1.48973	1.47752	0.917
90 Bromobenzene	0.72693	0.64993	0.66206	0.65774	0.64817	0.66897	4.917
91 2-Chlorotoluene	0.76148	0.71478	0.76515	0.75965	0.73835	0.74788	2.843
92 n-Propylbenzene	0.99489	0.88612	0.93604	0.94278	0.92569	0.93711	4.168
93 4-Chlorotoluene	0.82326	0.73514	0.78221	0.76269	0.76550	0.77376	4.190
94 1,3,5-Trimethylbenzene	2.76974	2.56874	2.75693	2.75113	2.70005	2.70932	3.061
95 tert-Butylbenzene	2.57860	2.39281	2.43554	2.48104	2.69802	2.51720	4.862
96 1,2,4-Trimethylbenzene	2.70360	2.64162	2.77348	2.79111	2.76021	2.73400	2.237
97 sec-Butylbenzene	3.55814	3.25752	3.57861	3.50951	3.49468	3.47969	3.703
98 4-Isopropyltoluene	2.91014	2.70727	2.87396	2.88384	2.85876	2.84679	2.817
99 n-Butylbenzene	2.38998	2.39648	2.54283	2.56823	2.56242	2.49199	3.639

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 29-JUN-2000 12:17
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00629C.b/N8260SUX9-3.m
 Cal Date : 29-Jun-2000 14:57 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	0.80861	0.80220	0.79085	0.79327	0.83119	0.80523	2.007
101 Naphthalene	2.39095	2.38793	2.37756	2.24658	2.47650	2.37590	3.472
102 Hexachlorobutadiene	0.34898	0.35341	0.36856	0.36435	0.36704	0.36047	2.425
103 1,2,3-Trichlorobenzene	0.76773	0.77271	0.75454	0.72372	0.74977	0.75369	2.546
104 Isopropyl Alcohol	++++	++++	++++	++++	++++	++++	++++ <-
105 N-Propanol	++++	++++	++++	++++	++++	++++	++++ <-
106 Isopropyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
107 N-Propyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
108 N-Butyl acetate	++++	++++	++++	++++	++++	++++	++++ <-
109 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++ <-
110 3,3,5-Trimethylcyclohexanone	0.16209	0.18263	0.15887	0.18542	0.17131	0.17206	6.901
111 Bromochloromethane	0.09967	0.10235	0.10668	0.10266	0.10494	0.10326	2.589
112 Paraldehyde	++++	++++	++++	++++	++++	++++	++++ <-
135 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++ <-
136 Chloropicrin	++++	++++	++++	++++	++++	++++	++++ <-
137 1,3,5-Trichlorobenzene	0.92817	0.88722	0.91437	0.88668	0.92518	0.90832	2.221
138 Methyl Acetate	0.35838	0.36233	0.35243	0.35115	0.41015	0.36689	6.706
139 Methylcyclohexane	0.41323	0.39833	0.41412	0.40945	0.40945	0.40891	1.539
\$ 4 1,2-Dichloroethane-d4	0.21710	0.21893	0.21845	0.21262	0.23332	0.22008	3.547
\$ 5 Toluene-d8	1.08815	1.06991	1.08222	1.07088	1.04660	1.07155	1.487
\$ 6 Bromofluorobenzene	0.41703	0.40687	0.40896	0.39835	0.40185	0.40661	1.761
\$ 7 Dibromofluoromethane	0.16532	0.16485	0.16904	0.17258	0.17113	0.16859	2.040

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB112 BFB Injection Date: 07/05/00

Instrument ID: A3UX9 BFB Injection Time: 1029

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.2
75	30.0 - 60.0% of mass 95	41.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 120.0% of mass 95	79.0
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.0 (98.7)1
177	5.0 - 9.0% of mass 176	4.8 (6.1)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93329	07/05/00	1047
02	VSTD050	250NG-A9CC	UX93330	07/05/00	1112
03	DFQE4-CHK	DFQE4102	UX93331	07/05/00	1137
04	DFQE4-BLK	DFQE4101	UX93333	07/05/00	1226
05	MPT-G4-SU-18	DFN42102	UX93345	07/05/00	1726
06	MPT-G4-SU-19	DFN43102	UX93346	07/05/00	1751
07	MPT-G4-SU-20	DFN44102	UX93347	07/05/00	1815
08	MPT-G4-SU-21	DFN45102	UX93348	07/05/00	1840
09	MPT-G4-SU-22	DFN46102	UX93349	07/05/00	1904
10	MPT-G4-SU-23	DFN47102	UX93350	07/05/00	1929
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 10:47
 Lab File ID: ux93329.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	XD / XDRIFT	XD / XDRIFT		
\$ 4 1,2-Dichloroethane-d4	0.22008	0.23826	0.010	-8.3	50.0	Averaged	
\$ 5 Toluene-d8	1.07155	1.22708	0.010	-14.5	50.0	Averaged	
\$ 6 Bromofluorobenzene	0.40661	0.44728	0.010	-10.0	50.0	Averaged	
\$ 7 Dibromofluoromethane	0.16859	0.21332	0.010	-26.5	50.0	Averaged	
8 Dichlorodifluoromethane	0.10057	0.10915	0.010	-8.5	50.0	Averaged	
9 Chloromethane	0.33416	0.35906	0.100	-7.5	50.0	Averaged	
10 Vinyl Chloride	0.23208	0.25896	0.010	-11.6	20.0	Averaged	
11 Bromomethane	0.07405	0.07724	0.010	-4.3	50.0	Averaged	
12 Chloroethane	0.10008	0.11042	0.010	-10.3	50.0	Averaged	
13 Trichlorofluoromethane	0.20146	0.23979	0.010	-19.0	50.0	Averaged	
14 Acrolein	0.03657	0.04078	0.010	-11.5	50.0	Averaged	
16 1,1-Dichloroethene	0.17555	0.19558	0.050	-11.4	20.0	Averaged	
15 Acetone	0.13422	0.12088	0.010	9.9	50.0	Averaged	
54 Freon-113	0.13319	0.15227	0.010	-14.3	50.0	Averaged	
56 Iodomethane	0.28922	0.32429	0.010	-12.1	50.0	Averaged	
18 Carbon Disulfide	0.59401	0.64731	0.010	-9.0	50.0	Averaged	
55 Acetonitrile	0.04903	0.04622	0.010	5.7	50.0	Averaged	
17 Methylene Chloride	0.21986	0.23381	0.010	-6.3	50.0	Averaged	
19 Acrylonitrile	0.15023	0.14423	0.010	4.0	50.0	Averaged	
78 Methyl tert-butyl ether	0.61048	0.60176	0.010	1.4	50.0	Averaged	
84 Hexane	0.41097	0.41015	0.010	0.2	50.0	Averaged	
21 Vinyl acetate	0.68646	0.68922	0.010	-0.4	50.0	Averaged	
22 1,1-Dichloroethane	0.44707	0.44672	0.100	0.1	50.0	Averaged	
23 2-Butanone	0.22873	0.20491	0.010	10.4	50.0	Averaged	
20 trans-1,2-Dichloroethene	0.20810	0.22616	0.010	-8.7	50.0	Averaged	
24 cis-1,2-dichloroethene	0.22150	0.24066	0.010	-8.6	50.0	Averaged	
M 25 1,2-Dichloroethene (total)	0.21480	0.23341	0.010	-8.7	50.0	Averaged	
86 2,2-Dichloropropane	0.24577	0.23518	0.010	4.3	50.0	Averaged	
111 Bromochloromethane	0.10326	0.11454	0.010	-10.9	50.0	Averaged	
79 Tetrahydrofuran	0.13154	0.12027	0.010	8.6	50.0	Averaged	
26 Chloroform	0.31730	0.31641	0.010	0.3	20.0	Averaged	
27 1,1,1-Trichloroethane	0.25664	0.25386	0.010	1.1	50.0	Averaged	
87 1,1-Dichloropropene	0.27162	0.27506	0.010	-1.3	50.0	Averaged	
28 Carbon Tetrachloride	0.22082	0.21752	0.010	1.5	50.0	Averaged	
29 1,2-Dichloroethane	0.32611	0.31735	0.010	2.7	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 10:47
 Lab File ID: ux93329.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	XD / XDRIFT	XD / XDRIFT		
30 Benzene	0.89532	0.95233	0.010	-6.4	50.0	Averaged	
31 Trichloroethene	0.21976	0.24678	0.010	-12.3	50.0	Averaged	
32 1,2-Dichloropropane	0.27110	0.27181	0.010	-0.3	20.0	Averaged	
63 1,4-Dioxane	0.00261	0.00286	0.010	-9.4	50.0	Averaged	
64 Dibromomethane	0.10762	0.10545	0.010	2.0	50.0	Averaged	
33 Bromodichloromethane	0.23154	0.23341	0.010	-0.8	50.0	Averaged	
34 2-Chloroethyl vinyl ether	0.15453	0.14030	0.010	9.2	50.0	Averaged	
36 cis-1,3-Dichloropropene	0.34783	0.34888	0.010	-0.3	50.0	Averaged	
35 4-Methyl-2-pentanone	0.39026	0.34931	0.010	10.5	50.0	Averaged	
37 Toluene	1.32353	1.26438	0.010	4.5	20.0	Averaged	
38 trans-1,3-Dichloropropene	0.41628	0.38260	0.010	8.1	50.0	Averaged	
65 Ethyl Methacrylate	0.40648	0.35481	0.010	12.7	50.0	Averaged	
40 1,1,2-Trichloroethane	0.24830	0.23924	0.010	3.6	50.0	Averaged	
88 1,3-Dichloropropane	0.46751	0.43491	0.010	7.0	50.0	Averaged	
41 Tetrachloroethene	0.21216	0.23577	0.010	-11.1	50.0	Averaged	
39 2-Hexanone	0.38105	0.31512	0.010	17.3	50.0	Averaged	
42 Dibromochloromethane	0.23176	0.23977	0.010	-3.5	50.0	Averaged	
66 1,2-Dibromoethane	0.26028	0.25225	0.010	3.1	50.0	Averaged	
43 Chlorobenzene	0.89873	0.90484	0.300	-0.7	50.0	Averaged	
44 Ethylbenzene	0.50007	0.51048	0.010	-2.1	20.0	Averaged	
45 m + p-Xylene	0.63033	0.63763	0.010	-1.2	50.0	Averaged	
46 Xylene-o	0.59918	0.61214	0.010	-2.2	50.0	Averaged	
M 47 Xylenes (total)	0.61995	0.62913	0.010	-1.5	50.0	Averaged	
48 Styrene	0.99891	1.01130	0.010	-1.2	50.0	Averaged	
49 Bromoform	0.12623	0.13977	0.100	-10.7	50.0	Averaged	
89 Isopropylbenzene	1.47752	1.44515	0.010	2.2	50.0	Averaged	
50 1,1,2,2-Tetrachloroethane	0.71527	0.65432	0.300	8.5	50.0	Averaged	
90 Bromobenzene	0.66897	0.69705	0.010	-4.2	50.0	Averaged	
68 1,2,3-Trichloropropane	0.94250	0.83829	0.010	11.1	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.35267	0.31546	0.010	10.6	50.0	Averaged	
92 n-Propylbenzene	0.93711	0.96258	0.010	-2.7	50.0	Averaged	
91 2-Chlorotoluene	0.74788	0.77722	0.010	-3.9	50.0	Averaged	
94 1,3,5-Trimethylbenzene	2.70932	2.54880	0.010	5.9	50.0	Averaged	
93 4-Chlorotoluene	0.77376	0.81258	0.010	-5.0	50.0	Averaged	
95 tert-Butylbenzene	2.51720	2.35754	0.010	6.3	50.0	Averaged	
96 1,2,4-Trimethylbenzene	2.73400	2.59673	0.010	5.0	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 10:47
 Lab File ID: ux93329.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RF250	RRF	%D / %DRIFT		
97 sec-Butylbenzene	3.47969	3.32335	0.010	4.5	50.0	Averaged
51 1,3-Dichlorobenzene	1.31532	1.34090	0.010	-1.9	50.0	Averaged
52 1,4-Dichlorobenzene	1.35998	1.36222	0.010	-0.2	50.0	Averaged
53 1,2-Dichlorobenzene	1.27405	1.28855	0.010	-1.1	50.0	Averaged
98 4-Isopropyltoluene	2.84679	2.75629	0.010	3.2	50.0	Averaged
99 n-Butylbenzene	2.49199	2.31309	0.010	7.2	50.0	Averaged
100 1,2,4-Trichlorobenzene	0.80523	0.82117	0.010	-2.0	50.0	Averaged
102 Hexachlorobutadiene	0.36047	0.37474	0.010	-4.0	50.0	Averaged
101 Naphthalene	2.37590	2.14864	0.010	9.6	50.0	Averaged
103 1,2,3-Trichlorobenzene	0.75369	0.73597	0.010	2.4	50.0	Averaged
82 tert-Butyl Alcohol	0.03725	0.03543	0.010	4.9	50.0	Averaged
138 Methyl Acetate	0.36689	0.32404	0.010	11.7	50.0	Averaged
139 Methylcyclohexane	0.40891	0.41410	0.010	-1.3	50.0	Averaged
83 Cyclohexane	0.59709	0.57076	0.010	4.4	50.0	Averaged
137 1,3,5-Trichlorobenzene	0.90832	0.96644	0.010	-6.4	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 05-JUL-2000 11:12
 Lab File ID: ux93330.d Init. Cal. Date(s): 09-MAY-2000 29-JUN-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 12:17
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00705A.b/N8260SUX9-3.m

COMPOUND	RF250		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF250	RRF	SD / XDRIFT	SD / XDRIFT		
57 3-Chloropropene	0.11122	0.11807	0.010	-6.2	50.0	Averaged	
58 2-Chloro-1,3-butadiene	0.58141	0.49019	0.010	15.7	50.0	Averaged	
59 Propionitrile	0.06262	0.04759	0.010	24.0	50.0	Averaged	
60 Methacrylonitrile	0.27546	0.19988	0.010	27.4	50.0	Averaged	
61 Isobutanol	0.01610	0.01112	0.010	30.9	50.0	Averaged	
62 Methyl Methacrylate	0.38325	0.28161	0.010	26.5	50.0	Averaged	
67 1,1,1,2-Tetrachloroethane	0.26397	0.25910	0.010	1.8	50.0	Averaged	
72 1,2-Dibromo-3-chloropropane	0.13595	0.11774	0.010	13.4	50.0	Averaged	
74 n-Butanol	0.01277	0.00924	0.010	27.7	50.0	Averaged	
75 Ethyl Acetate	0.47109	0.34034	0.010	27.8	50.0	Averaged	
76 Cyclohexanone	0.04420	0.02444	0.010	44.7	50.0	Averaged	
77 Ethyl Ether	0.30416	0.27317	0.010	10.2	50.0	Averaged	
80 Dichlorofluoromethane	0.33563	0.31336	0.010	6.6	50.0	Averaged	
81 2-Nitropropane	0.06997	0.04984	0.010	28.8	50.0	Averaged	
85 Isopropyl Ether	1.02080	1.03779	0.010	-1.7	50.0	Averaged	
110 3,3,5-Trimethylcyclohexanon	0.17206	0.15313	0.010	11.0	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB117 BFB Injection Date: 07/08/00

Instrument ID: A3UX9 BFB Injection Time: 0635

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	37.7
75	30.0 - 60.0% of mass 95	45.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	63.1
175	5.0 - 9.0% of mass 174	4.5 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.8 (96.3)1
177	5.0 - 9.0% of mass 176	4.2 (7.0)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	UX93453	07/08/00	0701
02	VSTD100	500NG-IC	UX93454	07/08/00	0725
03	VSTD050	250NG-IC	UX93455	07/08/00	0750
04	VSTD020	100NG-IC	UX93456	07/08/00	0815
05	VSTD005	25NG-IC	UX93457	07/08/00	0840
06					
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22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 08-JUL-2000 08:40
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00708A.b/N8260SUX9-3.m
 Cal Date : 08-Jul-2000 09:18 kardohes
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux9.i/N00628A.b/ux93156.d
 Level 2: /chem/can/msv/a3ux9.i/N00628A.b/ux93155.d
 Level 3: /chem/can/msv/a3ux9.i/N00628A.b/ux93154.d
 Level 4: /chem/can/msv/a3ux9.i/N00628A.b/ux93153.d
 Level 5: /chem/can/msv/a3ux9.i/N00628A.b/ux93152.d

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
8 Dichlorodifluoromethane	0.09777	0.10293	0.12070	0.11935	0.10136	0.10842	9.930
9 Chloromethane	0.54381	0.50965	0.55385	0.53563	0.49339	0.52727	4.749
10 Vinyl Chloride	0.30463	0.31827	0.34524	0.33333	0.28751	0.31780	7.184
11 Bromomethane	0.11754	0.09443	0.08746	0.07138	0.05845	0.08585	26.311
12 Chloroethane	0.16844	0.16902	0.15617	0.12676	0.09939	0.14396	21.008
13 Trichlorofluoromethane	0.21737	0.23335	0.25990	0.25434	0.20306	0.23360	10.306
14 Acrolein	0.05262	0.04734	0.04845	0.05103	0.04610	0.04911	5.446
15 Acetone	0.22670	0.17875	0.16619	0.17375	0.16396	0.18187	14.158
16 1,1-Dichloroethene	0.15444	0.15846	0.18016	0.18656	0.16550	0.16903	8.199
17 Methylene Chloride	0.25075	0.20350	0.20738	0.20715	0.18554	0.21086	11.402
18 Carbon Disulfide	0.49013	0.47426	0.54324	0.54624	0.48689	0.50815	6.679
19 Acrylonitrile	0.26591	0.25112	0.25348	0.27260	0.26883	0.26239	3.638
20 trans-1,2-Dichloroethene	0.17881	0.18960	0.21480	0.20679	0.18798	0.19560	7.539
21 Vinyl acetate	0.62454	0.62270	0.65263	0.70628	0.70354	0.66194	6.193
22 1,1-Dichloroethane	0.58967	0.55718	0.61149	0.61526	0.54960	0.58464	5.179
23 2-Butanone	0.37422	0.30633	0.30358	0.32471	0.32247	0.32626	8.707
24 cis-1,2-dichloroethene	0.21954	0.20360	0.22350	0.22689	0.20419	0.21554	5.080
M 25 1,2-Dichloroethene (total)	0.19918	0.19660	0.21915	0.21684	0.19609	0.20557	5.561
26 Chloroform	0.33293	0.30395	0.33408	0.32814	0.29868	0.31956	5.290
27 1,1,1-Trichloroethane	0.28341	0.26542	0.29398	0.29479	0.26134	0.27979	5.613
28 Carbon Tetrachloride	0.22753	0.21630	0.23326	0.24294	0.21926	0.22786	4.728
29 1,2-Dichloroethane	0.49835	0.46573	0.48641	0.49590	0.46488	0.48225	3.340
30 Benzene	0.80433	0.77151	0.82839	0.83702	0.74300	0.79685	4.943
31 Trichloroethene	0.22276	0.21839	0.22534	0.22904	0.20468	0.22004	4.282
32 1,2-Dichloropropane	0.35442	0.33302	0.34924	0.35358	0.32289	0.34263	4.087
33 Bromodichloromethane	0.22174	0.21959	0.24779	0.25339	0.23984	0.23647	6.440

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 08-JUL-2000 08:40
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00708A.b/N8260SUX9-3.m
 Cal Date : 08-Jul-2000 09:18 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
34 2-Chloroethyl vinyl ether	0.18221	0.19837	0.20658	0.21697	0.20946	0.20272	6.539
35 4-Methyl-2-pentanone	0.51897	0.51345	0.52319	0.57846	0.57462	0.54174	5.904
36 cis-1,3-Dichloropropene	0.30018	0.31004	0.33398	0.33556	0.30961	0.31787	5.011
37 Toluene	1.22588	1.21312	1.27642	1.29871	1.18103	1.23903	3.864
38 trans-1,3-Dichloropropene	0.39402	0.39432	0.44139	0.44506	0.42430	0.41982	5.881
39 2-Hexanone	0.50555	0.51921	0.51271	0.58241	0.58594	0.54117	7.314
40 1,1,2-Trichloroethane	0.27238	0.24109	0.24713	0.25971	0.24704	0.25347	4.955
41 Tetrachloroethene	0.16329	0.18479	0.18627	0.19274	0.17042	0.17950	6.791
42 Dibromochloromethane	0.20539	0.23711	0.25093	0.26841	0.25770	0.24391	9.978
43 Chlorobenzene	0.87060	0.83922	0.88648	0.89318	0.82652	0.86320	3.385
44 Ethylbenzene	0.45791	0.44058	0.49917	0.49737	0.45486	0.46998	5.671
45 m + p-Xylene	0.58932	0.55244	0.58433	0.60800	0.55514	0.57785	4.099
46 Xylene-o	0.59300	0.56358	0.58867	0.60255	0.53950	0.57746	4.441
M 47 Xylenes (total)	0.59055	0.55615	0.58578	0.60618	0.54993	0.57772	4.130
48 Styrene	0.87420	0.89240	0.96678	1.00910	0.92021	0.93254	5.922
49 Bromoform	0.09538	0.11266	0.12032	0.13597	0.13415	0.11970	13.949 <-
50 1,1,2,2-Tetrachloroethane	0.60574	0.66273	0.69010	0.72238	0.69403	0.67500	6.535
51 1,3-Dichlorobenzene	1.30508	1.20831	1.33633	1.30430	1.20118	1.27104	4.873
52 1,4-Dichlorobenzene	1.35197	1.22463	1.34509	1.31618	1.23219	1.29401	4.747
53 1,2-Dichlorobenzene	1.19427	1.17690	1.26823	1.23936	1.17140	1.21003	3.478
54 Freon-113	0.13754	0.12001	0.12601	0.13652	0.11380	0.12677	8.137
55 Acetonitrile	0.06643	0.06486	0.06511	0.06858	0.06541	0.06608	2.302
56 Iodomethane	0.26319	0.25176	0.28595	0.28178	0.25418	0.26737	5.877
57 3-Chloropropene	0.10737	0.11156	0.10975	0.11360	0.11383	0.11122	2.443
58 2-Chloro-1,3-butadiene	0.54219	0.57641	0.58472	0.59927	0.60446	0.58141	4.235
59 Propionitrile	0.05785	0.06249	0.06022	0.06410	0.06843	0.06262	6.411
60 Methacrylonitrile	0.27041	0.27031	0.26853	0.27736	0.29071	0.27546	3.328
61 Isobutanol	0.01377	0.01547	0.01539	0.01718	0.01867	0.01610	11.671
62 Methyl Methacrylate	0.35113	0.37764	0.36957	0.40172	0.41617	0.38325	6.748
63 1,4-Dioxane	0.00278	0.00268	0.00272	0.00305	0.00296	0.00284	5.666 <-
64 Dibromomethane	0.10935	0.10924	0.10897	0.11352	0.10408	0.10903	3.068
65 Ethyl Methacrylate	0.33256	0.35237	0.37077	0.39738	0.38470	0.36755	7.002
66 1,2-Dibromoethane	0.26133	0.25527	0.25603	0.26618	0.24934	0.25763	2.482

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 08-JUL-2000 08:40
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00708A.b/N8260SUX9-3.m
 Cal Date : 08-Jul-2000 09:18 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
67 1,1,1,2-Tetrachloroethane	0.25163	0.25911	0.25735	0.27604	0.27573	0.26397	4.251
68 1,2,3-Trichloropropane	0.95362	0.89193	0.95502	0.97921	0.93981	0.94392	3.426
69 1,4-Dichloro-2-butene	0.58922	0.58899	0.61536	0.62293	0.63489	0.61028	3.366
70 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++ <-
71 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++ <-
72 1,2-Dibromo-3-chloropropane	0.11816	0.12669	0.13137	0.14551	0.15803	0.13595	11.644
73 Ethanol	++++	++++	++++	++++	++++	++++	++++ <-
74 n-Butanol	0.01003	0.01178	0.01237	0.01403	0.01565	0.01277	16.847
75 Ethyl Acetate	0.45322	0.46028	0.44671	0.48155	0.51368	0.47109	5.768
76 Cyclohexanone	0.03840	0.04242	0.04219	0.04690	0.05108	0.04420	11.048
77 Ethyl Ether	0.30300	0.30790	0.29616	0.30911	0.30462	0.30416	1.676
78 Methyl tert-butyl ether	0.61039	0.58120	0.61289	0.62384	0.58328	0.60232	3.160
79 Tetrahydrofuran	0.19386	0.17677	0.18202	0.19564	0.19259	0.18818	4.411
80 Dichlorofluoromethane	0.30350	0.33178	0.34464	0.35176	0.34647	0.33563	5.781
81 2-Nitropropane	0.05959	0.06270	0.06506	0.07554	0.08696	0.06997	16.048
82 tert-Butyl Alcohol	0.06353	0.06127	0.06075	0.06891	0.07106	0.06510	7.127
83 Cyclohexane	0.93253	0.94141	1.03757	1.04249	0.91339	0.97348	6.329
84 Hexane	0.72406	0.62568	0.72536	0.71157	0.63535	0.68440	7.248
85 Isopropyl Ether	1.02365	1.04444	1.02170	1.02356	0.99063	1.02080	1.888
86 2,2-Dichloropropane	0.23516	0.23195	0.25704	0.25459	0.23173	0.24209	5.216
87 1,1-Dichloropropene	0.23754	0.23832	0.26454	0.26187	0.23095	0.24664	6.249
88 1,3-Dichloropropane	0.44059	0.45042	0.44184	0.45923	0.41900	0.44222	3.389
89 Isopropylbenzene	1.36496	1.32062	1.39592	1.46979	1.33982	1.37822	4.241
90 Bromobenzene	0.70102	0.66847	0.69691	0.67016	0.63196	0.67370	4.111
91 2-Chlorotoluene	0.82063	0.73749	0.82395	0.81029	0.75564	0.78960	5.082
92 n-Propylbenzene	0.88119	0.89597	1.01766	0.99894	0.90600	0.93995	6.741
93 4-Chlorotoluene	0.76490	0.77217	0.86282	0.82149	0.76853	0.79798	5.384
94 1,3,5-Trimethylbenzene	2.40191	2.51351	2.78703	2.76275	2.54805	2.60265	6.396
95 tert-Butylbenzene	2.33552	2.34805	2.62915	2.81918	2.40879	2.50814	8.380
96 1,2,4-Trimethylbenzene	2.56726	2.56285	2.82752	2.74513	2.61260	2.66307	4.425
97 sec-Butylbenzene	3.21429	3.13225	3.49947	3.45186	3.18652	3.29688	5.056
98 4-Isopropyltoluene	2.78954	2.67876	3.01998	2.95276	2.75060	2.83833	5.033
99 n-Butylbenzene	2.23569	2.26352	2.57176	2.53430	2.38346	2.39775	6.373

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 08-JUL-2000 08:40
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00708A.b/N8260SUX9-3.m
 Cal Date : 08-Jul-2000 09:18 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	0.70363	0.71973	0.72447	0.74245	0.71157	0.72037	2.038
101 Naphthalene	2.40623	2.44800	2.39269	2.48462	2.35456	2.41722	2.083
102 Hexachlorobutadiene	0.30552	0.29615	0.33942	0.33332	0.31340	0.31756	5.778
103 1,2,3-Trichlorobenzene	0.67104	0.69270	0.67029	0.70463	0.67124	0.68198	2.318
104 Isopropyl Alcohol	++++	++++	++++	++++	++++	++++	++++ <-
105 N-Propanol	++++	++++	++++	++++	++++	++++	++++ <-
106 Isopropyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
107 N-Propyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
108 N-Butyl acetate	++++	++++	++++	++++	++++	++++	++++ <-
109 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++ <-
110 3,3,5-Trimethylcyclohexanone	0.16209	0.18263	0.15887	0.18542	0.17131	0.17206	6.901
111 Bromochloromethane	0.10282	0.10027	0.11021	0.10723	0.10047	0.10420	4.198
112 Paraldehyde	++++	++++	++++	++++	++++	++++	++++ <-
135 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++ <-
136 Chloropicrin	++++	++++	++++	++++	++++	++++	++++ <-
137 1,3,5-Trichlorobenzene	0.92878	0.85402	0.86003	0.87866	0.82737	0.86977	4.341
138 Methyl Acetate	0.64455	0.58606	0.57950	0.62432	0.62059	0.61100	4.489
139 Methylcyclohexane	0.37846	0.34736	0.39139	0.38907	0.32486	0.36623	7.928
\$ 4 1,2-Dichloroethane-d4	0.32627	0.31213	0.33597	0.32707	0.32454	0.32520	2.626
\$ 5 Toluene-d8	1.05188	1.04047	1.07723	1.11491	1.01143	1.05918	3.691
\$ 6 Bromofluorobenzene	0.41331	0.41605	0.41665	0.41867	0.39669	0.41228	2.163
\$ 7 Dibromofluoromethane	0.17652	0.16083	0.17607	0.17687	0.16084	0.17023	5.040

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB119 BFB Injection Date: 07/11/00

Instrument ID: A3UX9 BFB Injection Time: 0810

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	38.2
75	30.0 - 60.0% of mass 95	39.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.6 (1.0)1
174	50.0 - 120.0% of mass 95	56.9
175	5.0 - 9.0% of mass 174	3.8 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	56.1 (98.6)1
177	5.0 - 9.0% of mass 176	4.0 (7.2)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93533	07/11/00	0827
02	VSTD050	250NG-A9CC	UX93534	07/11/00	0851
03	DG2GL-CHK	DG2GL102	UX93535	07/11/00	0916
04	DG2GL-CKDUP	DG2GL103	UX93536	07/11/00	0941
05	DG2GL-BLK	DG2GL101	UX93537	07/11/00	1006
06	MPT-G4-SU-24	DFRAK102	UX93541	07/11/00	1145
07	MPT-G4-SU-25	DFRAW102	UX93542	07/11/00	1209
08	MPT-G4-SU-27	DFRC1102	UX93543	07/11/00	1234
09	MPT-G4-SU-29	DFV68102	UX93552	07/11/00	1618
10	MPT-G4-SU-30	DFV69102	UX93553	07/11/00	1643
11	MPT-G4-SU-32	DFV6D102	UX93554	07/11/00	1708
12	MPT-G4-SU-33	DFV6L102	UX93555	07/11/00	1732
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 11-JUL-2000 08:27
 Lab File ID: ux93533.d Init. Cal. Date(s): 09-MAY-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 08:40
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00711A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 1,2-Dichloroethane-d4	0.32520	0.34591	0.010	-6.4	50.0	Averaged	
\$ 5 Toluene-d8	1.05918	1.29176	0.010	-22.0	50.0	Averaged	
\$ 6 Bromofluorobenzene	0.41228	0.48353	0.010	-17.3	50.0	Averaged	
\$ 7 Dibromofluoromethane	0.17023	0.19779	0.010	-16.2	50.0	Averaged	
8 Dichlorodifluoromethane	0.10842	0.08695	0.010	19.8	50.0	Averaged	
9 Chloromethane	0.52727	0.53352	0.100	-1.2	50.0	Averaged	
10 Vinyl Chloride	0.31780	0.30067	0.010	5.4	20.0	Averaged	
11 Bromomethane	0.08585	0.07090	0.010	17.4	50.0	Averaged	
12 Chloroethane	0.14396	0.13062	0.010	9.3	50.0	Averaged	
13 Trichlorofluoromethane	0.23360	0.20116	0.010	13.9	50.0	Averaged	
14 Acrolein	0.04911	0.04648	0.010	5.3	50.0	Averaged	
16 1,1-Dichloroethene	0.16903	0.16227	0.050	4.0	20.0	Averaged	
15 Acetone	0.18187	0.17939	0.010	1.4	50.0	Averaged	
54 Freon-113	0.12677	0.10888	0.010	14.1	50.0	Averaged	
56 Iodomethane	0.26737	0.27435	0.010	-2.6	50.0	Averaged	
18 Carbon Disulfide	0.50815	0.46085	0.010	9.3	50.0	Averaged	
55 Acetonitrile	0.06608	0.06971	0.010	-5.5	50.0	Averaged	
17 Methylene Chloride	0.21086	0.22053	0.010	-4.6	50.0	Averaged	
19 Acrylonitrile	0.26239	0.23608	0.010	10.0	50.0	Averaged	
78 Methyl tert-butyl ether	0.60232	0.52110	0.010	13.5	50.0	Averaged	
84 Hexane	0.68440	0.60186	0.010	12.1	50.0	Averaged	
21 Vinyl acetate	0.66194	0.67046	0.010	-1.3	50.0	Averaged	
22 1,1-Dichloroethane	0.58464	0.54491	0.100	6.8	50.0	Averaged	
23 2-Butanone	0.32626	0.29232	0.010	10.4	50.0	Averaged	
20 trans-1,2-Dichloroethene	0.19560	0.19980	0.010	-2.1	50.0	Averaged	
24 cis-1,2-dichloroethene	0.21554	0.20669	0.010	4.1	50.0	Averaged	
M 25 1,2-Dichloroethene (total)	0.20557	0.20324	0.010	1.1	50.0	Averaged	
86 2,2-Dichloropropane	0.24209	0.20760	0.010	14.2	50.0	Averaged	
111 Bromochloromethane	0.10420	0.09563	0.010	8.2	50.0	Averaged	
79 Tetrahydrofuran	0.18818	0.18034	0.010	4.2	50.0	Averaged	
26 Chloroform	0.31956	0.29819	0.010	6.7	20.0	Averaged	
27 1,1,1-Trichloroethane	0.27979	0.23341	0.010	16.6	50.0	Averaged	
87 1,1-Dichloropropene	0.24664	0.22785	0.010	7.6	50.0	Averaged	
28 Carbon Tetrachloride	0.22786	0.18646	0.010	18.2	50.0	Averaged	
29 1,2-Dichloroethane	0.48225	0.44538	0.010	7.6	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 11-JUL-2000 08:27
 Lab File ID: ux93533.d Init. Cal. Date(s): 09-MAY-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 08:40
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00711A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
30 Benzene	0.79685	0.77417	0.010	2.8	50.0	Averaged	
31 Trichloroethene	0.22004	0.20449	0.010	7.1	50.0	Averaged	
32 1,2-Dichloropropane	0.34263	0.32755	0.010	4.4	20.0	Averaged	
63 1,4-Dioxane	0.00284	0.00255	0.010	10.0	50.0	Averaged	
64 Dibromomethane	0.10903	0.09984	0.010	8.4	50.0	Averaged	
33 Bromodichloromethane	0.23647	0.22532	0.010	4.7	50.0	Averaged	
34 2-Chloroethyl vinyl ether	0.20272	0.17803	0.010	12.2	50.0	Averaged	
36 cis-1,3-Dichloropropene	0.31787	0.30484	0.010	4.1	50.0	Averaged	
35 4-Methyl-2-pentanone	0.54174	0.49606	0.010	8.4	50.0	Averaged	
37 Toluene	1.23903	1.18620	0.010	4.3	20.0	Averaged	
38 trans-1,3-Dichloropropene	0.41982	0.38546	0.010	8.2	50.0	Averaged	
65 Ethyl Methacrylate	0.36755	0.34319	0.010	6.6	50.0	Averaged	
40 1,1,2-Trichloroethane	0.25347	0.23621	0.010	6.8	50.0	Averaged	
88 1,3-Dichloropropane	0.44222	0.41588	0.010	6.0	50.0	Averaged	
41 Tetrachloroethene	0.17950	0.17581	0.010	2.1	50.0	Averaged	
39 2-Hexanone	0.54117	0.50660	0.010	6.4	50.0	Averaged	
42 Dibromochloromethane	0.24391	0.23680	0.010	2.9	50.0	Averaged	
66 1,2-Dibromoethane	0.25763	0.23725	0.010	7.9	50.0	Averaged	
43 Chlorobenzene	0.86320	0.84096	0.300	2.6	50.0	Averaged	
44 Ethylbenzene	0.46998	0.48387	0.010	-3.0	20.0	Averaged	
45 m + p-Xylene	0.57785	0.59524	0.010	-3.0	50.0	Averaged	
46 Xylene-o	0.57746	0.57898	0.010	-0.3	50.0	Averaged	
M 47 Xylenes (total)	0.57772	0.58982	0.010	-2.1	50.0	Averaged	
48 Styrene	0.93254	0.96571	0.010	-3.6	50.0	Averaged	
49 Bromoform	0.11970	0.10950	0.100	8.5	50.0	Averaged	
89 Isopropylbenzene	1.37822	1.33291	0.010	3.3	50.0	Averaged	
50 1,1,2,2-Tetrachloroethane	0.67500	0.65353	0.300	3.2	50.0	Averaged	
90 Bromobenzene	0.67370	0.62010	0.010	8.0	50.0	Averaged	
68 1,2,3-Trichloropropane	0.94392	0.85020	0.010	9.9	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.61028	0.56407	0.010	7.6	50.0	Averaged	
92 n-Propylbenzene	0.93995	0.95094	0.010	-1.2	50.0	Averaged	
91 2-Chlorotoluene	0.78960	0.76338	0.010	3.3	50.0	Averaged	
94 1,3,5-Trimethylbenzene	2.60265	2.47565	0.010	4.9	50.0	Averaged	
93 4-Chlorotoluene	0.79798	0.79105	0.010	0.9	50.0	Averaged	
95 tert-Butylbenzene	2.50814	2.33506	0.010	6.9	50.0	Averaged	
96 1,2,4-Trimethylbenzene	2.66307	2.50597	0.010	5.9	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 11-JUL-2000 08:27
 Lab File ID: ux93533.d Init. Cal. Date(s): 09-MAY-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 08:40
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00711A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
97 sec-Butylbenzene	3.29688	3.17790	0.010	3.6	50.0	Averaged	
51 1,3-Dichlorobenzene	1.27104	1.22931	0.010	3.3	50.0	Averaged	
52 1,4-Dichlorobenzene	1.29401	1.29156	0.010	0.2	50.0	Averaged	
53 1,2-Dichlorobenzene	1.21003	1.16286	0.010	3.9	50.0	Averaged	
98 4-Isopropyltoluene	2.83833	2.72430	0.010	4.0	50.0	Averaged	
99 n-Butylbenzene	2.39775	2.44366	0.010	-1.9	50.0	Averaged	
100 1,2,4-Trichlorobenzene	0.72037	0.78579	0.010	-9.1	50.0	Averaged	
102 Hexachlorobutadiene	0.31756	0.32992	0.010	-3.9	50.0	Averaged	
101 Naphthalene	2.41722	2.45391	0.010	-1.5	50.0	Averaged	
103 1,2,3-Trichlorobenzene	0.68198	0.75906	0.010	-11.3	50.0	Averaged	
82 tert-Butyl Alcohol	0.06510	0.04935	0.010	24.2	50.0	Averaged	
138 Methyl Acetate	0.61100	0.57656	0.010	5.6	50.0	Averaged	
139 Methylcyclohexane	0.36623	0.36586	0.010	0.1	50.0	Averaged	
83 Cyclohexane	0.97348	0.88929	0.010	8.6	50.0	Averaged	
137 1,3,5-Trichlorobenzene	0.86977	0.86931	0.010	0.1	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 11-JUL-2000 08:51
 Lab File ID: ux93534.d Init. Cal. Date(s): 09-MAY-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 08:40
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00711A.b/N8260SUX9-3.m

COMPOUND	RF250		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF250	RRF	%D / %DRIFT	%D / %DRIFT		
57 3-Chloropropene	0.11122	0.10391	0.010	6.6	50.0	Averaged	
58 2-Chloro-1,3-butadiene	0.58141	0.78622	0.010	-35.2	50.0	Averaged	
59 Propionitrile	0.06262	0.08383	0.010	-33.9	50.0	Averaged	
60 Methacrylonitrile	0.27546	0.29948	0.010	-8.7	50.0	Averaged	
61 Isobutanol	0.01610	0.01592	0.010	1.1	50.0	Averaged	
62 Methyl Methacrylate	0.38325	0.40788	0.010	-6.4	50.0	Averaged	
67 1,1,1,2-Tetrachloroethane	0.26397	0.24571	0.010	6.9	50.0	Averaged	
72 1,2-Dibromo-3-chloropropane	0.13595	0.12296	0.010	9.6	50.0	Averaged	
74 n-Butanol	0.01277	0.01477	0.010	-15.6	50.0	Averaged	
75 Ethyl Acetate	0.47109	0.51884	0.010	-10.1	50.0	Averaged	
76 Cyclohexanone	0.04420	0.04987	0.010	-12.8	50.0	Averaged	
77 Ethyl Ether	0.30416	0.39379	0.010	-29.5	50.0	Averaged	
80 Dichlorofluoromethane	0.33563	0.32828	0.010	2.2	50.0	Averaged	
81 2-Nitropropane	0.06997	0.06631	0.010	5.2	50.0	Averaged	
85 Isopropyl Ether	1.02080	0.97298	0.010	4.7	50.0	Averaged	
110 3,3,5-Trimethylcyclohexanone	0.17206	0.17501	0.010	-1.7	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB123 BFB Injection Date: 07/14/00

Instrument ID: A3UX9 BFB Injection Time: 1007

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	36.9
75	30.0 - 60.0% of mass 95	41.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	61.4
175	5.0 - 9.0% of mass 174	4.7 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.3 (98.2)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93630	07/14/00	1128
02	VSTD200	1000NG-IC	UX93633	07/14/00	1325
03	VSTD100	500NG-IC	UX93634	07/14/00	1348
04	VSTD020	100NG-IC	UX93635	07/14/00	1411
05	VSTD005	25NG-IC	UX93637	07/14/00	1524
06					
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux9.i/N00628A.b/ux93156.d
 Level 2: /chem/can/msv/a3ux9.i/N00628A.b/ux93155.d
 Level 3: /chem/can/msv/a3ux9.i/N00628A.b/ux93154.d
 Level 4: /chem/can/msv/a3ux9.i/N00628A.b/ux93153.d
 Level 5: /chem/can/msv/a3ux9.i/N00628A.b/ux93152.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRP	% RSD
8 Dichlorodifluoromethane	0.13899	0.14944	0.15041	0.14587	0.11801	0.14054	9.514
9 Chloromethane	0.77557	0.67656	0.75914	0.64213	0.71390	0.71346	7.803
10 Vinyl Chloride	0.37288	0.37432	0.39577	0.36277	0.39338	0.37983	3.740
11 Bromomethane	0.13788	0.11380	0.10380	0.06891	0.05785	0.09645	34.078
12 Chloroethane	0.21506	0.18656	0.19039	0.13677	0.10223	0.16620	27.485
13 Trichlorofluoromethane	0.30154	0.25345	0.26112	0.24516	0.22456	0.25717	11.009
14 Acrolein	0.06815	0.06172	0.05802	0.05531	0.05326	0.05929	9.913
15 Acetone	0.33705	0.23352	0.22775	0.18237	0.18873	0.23389	26.508
16 1,1-Dichloroethene	0.19877	0.19927	0.20284	0.19454	0.21176	0.20144	3.214
17 Methylene Chloride	0.38028	0.24353	0.23154	0.20525	0.22265	0.25665	27.472
18 Carbon Disulfide	0.61990	0.66816	0.68656	0.63019	0.71695	0.66435	6.029
19 Acrylonitrile	0.28067	0.25642	0.23488	0.23684	0.23581	0.24893	7.983
20 trans-1,2-Dichloroethene	0.22933	0.22711	0.24263	0.22158	0.23377	0.23088	3.421
21 Vinyl acetate	0.91033	0.92583	0.86320	0.86746	0.90644	0.89465	3.104
22 1,1-Dichloroethane	0.62958	0.64771	0.62618	0.60133	0.63662	0.62829	2.733
23 2-Butanone	0.39031	0.35754	0.35604	0.30146	0.31805	0.34468	10.211
24 cis-1,2-dichloroethene	0.22661	0.24871	0.24297	0.22306	0.23598	0.23547	4.575
M 25 1,2-Dichloroethene (total)	0.22797	0.23791	0.24280	0.22232	0.23488	0.23317	3.476
26 Chloroform	0.33119	0.34280	0.33354	0.31285	0.33268	0.33061	3.303
27 1,1,1-Trichloroethane	0.30390	0.33663	0.31327	0.29458	0.30653	0.31098	5.089
28 Carbon Tetrachloride	0.21950	0.26215	0.24194	0.24388	0.24939	0.24337	6.369
29 1,2-Dichloroethane	0.49004	0.49291	0.48957	0.44893	0.45765	0.47582	4.379
30 Benzene	0.85439	0.88687	0.86970	0.81606	0.88098	0.86160	3.285
31 Trichloroethene	0.24551	0.23447	0.24149	0.22926	0.24232	0.23861	2.767
32 1,2-Dichloropropane	0.34084	0.35550	0.34728	0.32496	0.34430	0.34258	3.281
33 Bromodichloromethane	0.21705	0.23869	0.23911	0.22513	0.24180	0.23236	4.621

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
34 2-Chloroethyl vinyl ether	0.17513	0.17340	0.15892	0.16884	0.17205	0.16967	3.793
35 4-Methyl-2-pentanone	0.51113	0.55625	0.55950	0.49233	0.51763	0.52737	5.571
36 cis-1,3-Dichloropropene	0.26798	0.32754	0.31745	0.29424	0.32017	0.30548	7.983
37 Toluene	1.31103	1.39325	1.36454	1.30427	1.36578	1.34778	2.853
38 trans-1,3-Dichloropropene	0.36899	0.38401	0.39081	0.37891	0.39850	0.38425	2.931
39 2-Hexanone	0.50086	0.56714	0.59880	0.54844	0.55909	0.55487	6.408
40 1,1,2-Trichloroethane	0.24745	0.24664	0.25360	0.23040	0.23960	0.24354	3.640
41 Tetrachloroethene	0.18198	0.21923	0.21035	0.20832	0.21116	0.20621	6.870
42 Dibromochloromethane	0.21752	0.23402	0.24692	0.22979	0.24563	0.23478	5.165
43 Chlorobenzene	1.01146	0.96926	0.92458	0.89135	0.92342	0.94401	4.957
44 Ethylbenzene	0.49327	0.55425	0.54679	0.51911	0.54156	0.53100	4.676
45 m + p-Xylene	0.64769	0.69050	0.66521	0.63170	0.65242	0.65751	3.346
46 Xylene-o	0.59407	0.65455	0.63416	0.61897	0.62690	0.62573	3.529
M 47 Xylenes (total)	0.62982	0.67852	0.65486	0.62746	0.64391	0.64691	3.226
48 Styrene	0.94975	0.98855	1.00713	0.97918	1.00227	0.98538	2.312
49 Bromoform	0.09674	0.10943	0.11770	0.11094	0.11727	0.11042	7.685
50 1,1,2,2-Tetrachloroethane	0.64001	0.68464	0.67899	0.60765	0.63383	0.64903	4.987
51 1,3-Dichlorobenzene	1.43801	1.46889	1.40156	1.29839	1.32045	1.38546	5.327
52 1,4-Dichlorobenzene	1.57880	1.47266	1.43047	1.31519	1.36299	1.43203	7.123
53 1,2-Dichlorobenzene	1.34758	1.37833	1.31750	1.22424	1.25200	1.30393	4.951
54 Freon-113	0.14293	0.17507	0.15414	0.14149	0.15703	0.15413	8.779
55 Acetonitrile	0.06714	0.06356	0.06571	0.05625	0.05967	0.06247	7.158
56 Iodomethane	0.22380	0.32134	0.31480	0.28331	0.30123	0.28890	13.565
57 3-Chloropropene	0.10737	0.11156	0.10975	0.11360	0.11383	0.11122	2.443
58 2-Chloro-1,3-butadiene	0.54319	0.57641	0.58472	0.59927	0.60446	0.58141	4.235
59 Propionitrile	0.05785	0.06249	0.06022	0.06410	0.06843	0.06262	6.411
60 Methacrylonitrile	0.27041	0.27031	0.26853	0.27736	0.29071	0.27546	3.328
61 Isobutanol	0.01377	0.01547	0.01539	0.01718	0.01867	0.01610	11.671
62 Methyl Methacrylate	0.35113	0.37764	0.36957	0.40172	0.41617	0.38325	6.748
63 1,4-Dioxane	0.00126	0.00220	0.00210	0.00198	0.00200	0.00191	19.524
64 Dibromomethane	0.08844	0.10851	0.10940	0.09769	0.10327	0.10146	8.530
65 Ethyl Methacrylate	0.27866	0.31816	0.33513	0.33163	0.34427	0.32157	8.008
66 1,2-Dibromoethane	0.22570	0.25183	0.24767	0.22920	0.23645	0.23817	4.767

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
67 1,1,1,2-Tetrachloroethane	0.25163	0.25911	0.25735	0.27604	0.27573	0.26397	4.251
68 1,2,3-Trichloropropane	0.69226	0.93634	0.89661	0.81090	0.81904	0.83103	11.287
69 1,4-Dichloro-2-butene	0.41106	0.57283	0.57570	0.48917	0.50541	0.51084	13.313
70 Pentachloroethane	++++	++++	++++	++++	++++	++++	++++ <-
71 Benzyl Chloride	++++	++++	++++	++++	++++	++++	++++ <-
72 1,2-Dibromo-3-chloropropane	0.11816	0.12669	0.13137	0.14551	0.15803	0.13595	11.644
73 Ethanol	++++	++++	++++	++++	++++	++++	++++ <-
74 n-Butanol	0.01003	0.01178	0.01237	0.01403	0.01565	0.01277	16.847
75 Ethyl Acetate	0.45322	0.46028	0.44671	0.48155	0.51368	0.47109	5.768
76 Cyclohexanone	0.03840	0.04242	0.04219	0.04690	0.05108	0.04420	11.048
77 Ethyl Ether	0.30300	0.30790	0.29616	0.30911	0.30462	0.30416	1.676
78 Methyl tert-butyl ether	0.60722	0.62045	0.60163	0.55265	0.56716	0.58982	4.852
79 Tetrahydrofuran	0.16634	0.17460	0.18985	0.14680	0.15496	0.16651	10.105
80 Dichlorodifluoromethane	0.30350	0.33178	0.34464	0.35176	0.34647	0.33563	5.781
81 2-Nitropropane	0.05959	0.06270	0.06506	0.07554	0.08696	0.06997	16.048
82 tert-Butyl Alcohol	0.04105	0.05157	0.04981	0.04393	0.04566	0.04640	9.250
83 Cyclohexane	0.84890	1.16210	1.01189	0.98454	1.08683	1.01885	11.535
84 Hexane	0.80202	1.04549	0.90697	0.87254	0.98895	0.92319	10.389
85 Isopropyl Ether	1.02365	1.04444	1.02170	1.02356	0.99063	1.02080	1.888
86 2,2-Dichloropropane	0.27882	0.32344	0.30688	0.30025	0.31201	0.30428	5.444
87 1,1-Dichloropropane	0.24219	0.28006	0.28649	0.26228	0.27823	0.26985	6.612
88 1,3-Dichloropropane	0.39586	0.42014	0.43947	0.39960	0.41159	0.41333	4.236
89 Isopropylbenzene	1.43197	1.58547	1.54063	1.50777	1.57458	1.52809	4.042
90 Bromobenzene	0.73474	0.72206	0.68113	0.64998	0.67937	0.69386	4.949
91 2-Chlorotoluene	0.79195	0.91883	0.88502	0.81288	0.86336	0.85437	6.084
92 n-Propylbenzene	1.05477	1.13053	1.05253	1.02403	1.07765	1.06790	3.731
93 4-Chlorotoluene	0.92495	0.93504	0.92226	0.84214	0.87721	0.90032	4.377
94 1,3,5-Trimethylbenzene	2.76274	3.02887	2.89574	2.77206	2.85623	2.86313	3.784
95 tert-Butylbenzene	2.53733	2.82857	2.66184	2.82421	2.74358	2.71911	4.502
96 1,2,4-Trimethylbenzene	2.83605	3.01326	2.88301	2.80037	2.90923	2.88838	2.820
97 sec-Butylbenzene	3.57736	3.90703	3.71011	3.58848	3.74343	3.70529	3.625
98 4-Isopropyltoluene	2.97388	3.34603	3.18202	3.07642	3.18651	3.15297	4.405
99 n-Butylbenzene	2.61642	2.89630	2.83797	2.73172	2.84687	2.78586	4.024

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	0.84050	0.91484	0.89772	0.86795	0.87204	0.87861	3.263
101 Naphthalene	2.75038	2.64797	2.54616	2.59480	2.53971	2.61581	3.324
102 Hexachlorobutadiene	0.41655	0.41865	0.38676	0.39750	0.40822	0.40554	3.303
103 1,2,3-Trichlorobenzene	0.88476	0.86283	0.79094	0.80959	0.78743	0.82711	5.335
104 Isopropyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
105 N-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
106 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
107 N-Propyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
108 N-Butyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
109 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
110 3,3,5-Trimethylcyclohexanone	0.16209	0.18263	0.15887	0.18542	0.17131	0.17206	6.901
111 Bromochloromethane	0.10562	0.11131	0.10795	0.10076	0.10480	0.10609	3.679
112 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
135 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
136 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
137 1,3,5-Trichlorobenzene	0.77060	1.02674	0.96127	0.91491	0.93092	0.92089	10.238
138 Methyl Acetate	0.43579	0.53129	0.54312	0.45515	0.47401	0.48788	9.675
139 Methylcyclohexane	0.29587	0.44456	0.40756	0.37939	0.42494	0.39046	14.865

\$ 4 1,2-Dichloroethane-d4	0.28924	0.32398	0.30114	0.27771	0.28594	0.29560	6.075
\$ 5 Toluene-d8	1.21887	1.22854	0.99784	1.10095	1.12206	1.13365	8.359
\$ 6 Bromofluorobenzene	0.43951	0.44110	0.39218	0.40900	0.39811	0.41598	5.534
\$ 7 Dibromofluoromethane	0.17820	0.18598	0.16263	0.16133	0.16685	0.17100	6.252

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB124 BFB Injection Date: 07/15/00

Instrument ID: A3UX9 BFB Injection Time: 0822

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	39.4
75	30.0 - 60.0% of mass 95	43.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	65.2
175	5.0 - 9.0% of mass 174	5.0 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.8 (99.3)1
177	5.0 - 9.0% of mass 176	4.7 (7.3)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93650	07/15/00	0851
02	VSTD050	250NG-A9CC	UX93651	07/15/00	0914
03	DGATP-CHK	DGATP102	UX93652	07/15/00	0937
04	DGATP-CKDUP	DGATP103	UX93653	07/15/00	1000
05	DGATP-BLK	DGATP101	UX93654	07/15/00	1023
06	MPT-G4-SU-37	DFWAL102	UX93656	07/15/00	1109
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 15-JUL-2000 08:51
 Lab File ID: ux93650.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 25ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00715A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 4 1,2-Dichloroethane-d4	0.29560	0.31030	0.010	-5.0	50.0	Averaged
\$ 5 Toluene-d8	1.13365	0.97668	0.010	13.8	50.0	Averaged
\$ 6 Bromofluorobenzene	0.41598	0.39271	0.010	5.6	50.0	Averaged
\$ 7 Dibromofluoromethane	0.17100	0.16235	0.010	5.1	50.0	Averaged
8 Dichlorodifluoromethane	0.14054	0.12404	0.010	11.7	50.0	Averaged
9 Chloromethane	0.71346	0.65775	0.100	7.8	50.0	Averaged
10 Vinyl Chloride	0.37983	0.33997	0.010	10.5	20.0	Averaged
11 Bromomethane	0.09645	0.09164	0.010	5.0	50.0	Averaged
12 Chloroethane	0.16620	0.16631	0.010	-0.1	50.0	Averaged
13 Trichlorofluoromethane	0.25716	0.21709	0.010	15.6	50.0	Averaged
14 Acrolein	0.05929	0.05020	0.010	15.3	50.0	Averaged
16 1,1-Dichloroethene	0.20144	0.17749	0.050	11.9	20.0	Averaged
15 Acetone	0.23389	0.21244	0.010	9.2	50.0	Averaged
54 Freon-113	0.15413	0.14192	0.010	7.9	50.0	Averaged
56 Iodomethane	0.28890	0.30745	0.010	-6.4	50.0	Averaged
18 Carbon Disulfide	0.66435	0.60553	0.010	8.9	50.0	Averaged
55 Acetonitrile	0.06247	0.06489	0.010	-3.9	50.0	Averaged
17 Methylene Chloride	0.25665	0.21880	0.010	14.7	50.0	Averaged
19 Acrylonitrile	0.24893	0.22954	0.010	7.8	50.0	Averaged
78 Methyl tert-butyl ether	0.58982	0.58385	0.010	1.0	50.0	Averaged
84 Hexane	0.92319	0.84649	0.010	8.3	50.0	Averaged
21 Vinyl acetate	0.89465	0.73515	0.010	17.8	50.0	Averaged
22 1,1-Dichloroethane	0.62828	0.58676	0.100	6.6	50.0	Averaged
23 2-Butanone	0.34468	0.33384	0.010	3.1	50.0	Averaged
20 trans-1,2-Dichloroethene	0.23088	0.21019	0.010	9.0	50.0	Averaged
24 cis-1,2-dichloroethene	0.23546	0.22460	0.010	4.6	50.0	Averaged
M 25 1,2-Dichloroethene (total)	0.23317	0.21740	0.010	6.8	50.0	Averaged
86 2,2-Dichloropropane	0.30428	0.26869	0.010	11.7	50.0	Averaged
111 Bromochloromethane	0.10609	0.10629	0.010	-0.2	50.0	Averaged
79 Tetrahydrofuran	0.16651	0.17155	0.010	-3.0	50.0	Averaged
26 Chloroform	0.33061	0.31904	0.010	3.5	20.0	Averaged
27 1,1,1-Trichloroethane	0.31098	0.27265	0.010	12.3	50.0	Averaged
87 1,1-Dichloropropene	0.26985	0.24677	0.010	8.6	50.0	Averaged
28 Carbon Tetrachloride	0.24337	0.21681	0.010	10.9	50.0	Averaged
29 1,2-Dichloroethane	0.47582	0.47101	0.010	1.0	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 15-JUL-2000 08:51
 Lab File ID: ux93650.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00715A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
30 Benzene	0.86160	0.83389	0.010	3.2	50.0	Averaged	
31 Trichloroethene	0.23861	0.21732	0.010	8.9	50.0	Averaged	
32 1,2-Dichloropropane	0.34258	0.34741	0.010	-1.4	20.0	Averaged	
63 1,4-Dioxane	0.00191	0.00212	0.010	-11.1	50.0	Averaged	
64 Dibromomethane	0.10146	0.11058	0.010	-9.0	50.0	Averaged	
33 Bromodichloromethane	0.23236	0.24294	0.010	-4.6	50.0	Averaged	
34 2-Chloroethyl vinyl ether	0.16967	0.17079	0.010	-0.7	50.0	Averaged	
36 cis-1,3-Dichloropropene	0.30548	0.30835	0.010	-0.9	50.0	Averaged	
35 4-Methyl-2-pentanone	0.52737	0.52356	0.010	0.7	50.0	Averaged	
37 Toluene	1.34777	1.22853	0.010	8.8	20.0	Averaged	
38 trans-1,3-Dichloropropene	0.38425	0.38050	0.010	1.0	50.0	Averaged	
65 Ethyl Methacrylate	0.32157	0.33798	0.010	-5.1	50.0	Averaged	
40 1,1,2-Trichloroethane	0.24354	0.24177	0.010	0.7	50.0	Averaged	
88 1,3-Dichloropropane	0.41333	0.42733	0.010	-3.4	50.0	Averaged	
41 Tetrachloroethene	0.20621	0.17794	0.010	13.7	50.0	Averaged	
39 2-Hexanone	0.55487	0.55965	0.010	-0.9	50.0	Averaged	
42 Dibromochloromethane	0.23478	0.25162	0.010	-7.2	50.0	Averaged	
66 1,2-Dibromoethane	0.23817	0.23963	0.010	-0.6	50.0	Averaged	
43 Chlorobenzene	0.94401	0.87794	0.300	7.0	50.0	Averaged	
44 Ethylbenzene	0.53100	0.48868	0.010	8.0	20.0	Averaged	
45 m + p-Xylene	0.65751	0.62089	0.010	5.6	50.0	Averaged	
46 Xylene-o	0.62573	0.60839	0.010	2.8	50.0	Averaged	
M 47 Xylenes (total)	0.64691	0.61672	0.010	4.7	50.0	Averaged	
48 Styrene	0.98538	0.96509	0.010	2.1	50.0	Averaged	
49 Bromoform	0.11042	0.12554	0.100	-13.7	50.0	Averaged	
89 Isopropylbenzene	1.52808	1.40003	0.010	8.4	50.0	Averaged	
50 1,1,2,2-Tetrachloroethane	0.64902	0.64985	0.300	-0.1	50.0	Averaged	
90 Bromobenzene	0.69386	0.70601	0.010	-1.8	50.0	Averaged	
68 1,2,3-Trichloropropane	0.83103	0.86579	0.010	-4.2	50.0	Averaged	
69 1,4-Dichloro-2-butene	0.51083	0.56339	0.010	-10.3	50.0	Averaged	
92 n-Propylbenzene	1.06790	0.97032	0.010	9.1	50.0	Averaged	
91 2-Chlorotoluene	0.85437	0.82003	0.010	4.0	50.0	Averaged	
94 1,3,5-Trimethylbenzene	2.86313	2.68905	0.010	6.1	50.0	Averaged	
93 4-Chlorotoluene	0.90032	0.86641	0.010	3.8	50.0	Averaged	
95 tert-Butylbenzene	2.71911	2.43435	0.010	10.5	50.0	Averaged	
96 1,2,4-Trimethylbenzene	2.88839	2.73002	0.010	5.5	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 15-JUL-2000 08:51
 Lab File ID: ux93650.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 25ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00715A.b/N8260SUX9-3.m

COMPOUND	RF250		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF250	RRF	%D / %DRIFT	%D / %DRIFT		
97 sec-Butylbenzene	3.70528	3.32234	0.010	10.3	50.0	Averaged	
51 1,3-Dichlorobenzene	1.38546	1.37304	0.010	0.9	50.0	Averaged	
52 1,4-Dichlorobenzene	1.43202	1.36998	0.010	4.3	50.0	Averaged	
53 1,2-Dichlorobenzene	1.30393	1.31582	0.010	-0.9	50.0	Averaged	
98 4-Isopropyltoluene	3.15297	2.85701	0.010	9.4	50.0	Averaged	
99 n-Butylbenzene	2.78586	2.49745	0.010	10.4	50.0	Averaged	
100 1,2,4-Trichlorobenzene	0.87861	0.84332	0.010	4.0	50.0	Averaged	
102 Hexachlorobutadiene	0.40554	0.36120	0.010	10.9	50.0	Averaged	
101 Naphthalene	2.61580	2.57995	0.010	1.4	50.0	Averaged	
103 1,2,3-Trichlorobenzene	0.82711	0.82016	0.010	0.8	50.0	Averaged	
82 tert-Butyl Alcohol	0.04640	0.04707	0.010	-1.4	50.0	Averaged	
138 Methyl Acetate	0.48787	0.52482	0.010	-7.6	50.0	Averaged	
139 Methylcyclohexane	0.39046	0.38920	0.010	0.3	50.0	Averaged	
83 Cyclohexane	1.01885	0.99521	0.010	2.3	50.0	Averaged	
137 1,3,5-Trichlorobenzene	0.92089	0.99331	0.010	-7.9	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 15-JUL-2000 09:14
 Lab File ID: ux93651.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00715A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
57 3-Chloropropene	0.11122	0.09249	0.010		16.8	50.0	Averaged
58 2-Chloro-1,3-butadiene	0.58141	0.71730	0.010		-23.4	50.0	Averaged
59 Propionitrile	0.06262	0.07196	0.010		-14.9	50.0	Averaged
60 Methacrylonitrile	0.27546	0.28622	0.010		-3.9	50.0	Averaged
61 Isobutanol	0.01620	0.01657	0.010		-3.0	50.0	Averaged
62 Methyl Methacrylate	0.38325	0.37721	0.010		1.6	50.0	Averaged
67 1,1,1,2-Tetrachloroethane	0.26397	0.23961	0.010		9.2	50.0	Averaged
72 1,2-Dibromo-3-chloropropane	0.13595	0.12087	0.010		11.1	50.0	Averaged
74 n-Butanol	0.01277	0.01458	0.010		-14.1	50.0	Averaged
75 Ethyl Acetate	0.47109	0.48144	0.010		-2.2	50.0	Averaged
76 Cyclohexanone	0.04420	0.06353	0.010		-43.8	50.0	Averaged
77 Ethyl Ether	0.30416	0.37789	0.010		-24.2	50.0	Averaged
80 Dichlorofluoromethane	0.33563	0.31397	0.010		6.5	50.0	Averaged
81 2-Nitropropane	0.06997	0.07302	0.010		-4.4	50.0	Averaged
85 Isopropyl Ether	1.02080	0.91020	0.010		10.8	50.0	Averaged

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB450X BFB Injection Date: 06/06/00

Instrument ID: A3I503 BFB Injection Time: 1007

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	46.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.6 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.7 (96.5)1
177	5.0 - 9.0% of mass 176	5.6 (7.1)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-A9IC	VOX2166	06/06/00	1325
02	VSTD100	500NG-A9IC	VOX2167	06/06/00	1355
03	VSTD050	250NG-A9IC	VOX2168	06/06/00	1424
04	VSTD020	100NG-A9CC	VOX2169	06/06/00	1453
05	VSTD005	25NG-A9CC	VOX2170	06/06/00	1523
06					
07					
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09					
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB481X BFB Injection Date: 07/12/00

Instrument ID: A3I503 BFB Injection Time: 1533

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	42.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120.0% of mass 95	79.9
175	5.0 - 9.0% of mass 174	6.0 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.6 (97.1)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	100NG-IC	VOX3214	07/12/00	1552
02	VSTD100	500NG-IC	VOX3215	07/12/00	1623
03	VSTD050	250NG-IC	VOX3216	07/12/00	1649
04	VSTD020	100NG-IC	VOX3217	07/12/00	1717
05	VSTD005	25NG-IC	VOX3218	07/12/00	1746
06	VSTD050	250NG-A9CC	VOX3220	07/12/00	1846
07	DG5LV-CHK	DG5LV102	VOX3228	07/12/00	2237
08	DG5LV-CKDUP	DG5LV103	VOX3229	07/12/00	2306
09	DG5LV-BLK	DG5LV101	VOX3230	07/12/00	2335
10	MPT-G4-SU-26	DFRAX102	VOX3231	07/13/00	0004
11	MPT-G4-SU-31	DFV6A102	VOX3233	07/13/00	0102
12	MPT-G4-SU-DU	DFV6E102	VOX3234	07/13/00	0130
13	MPT-G4-SU-34	DFWAG102	VOX3235	07/13/00	0159
14					
15					
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22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUN-2000 10:59
 End Cal Date : 12-JUL-2000 17:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.i/X00712A.b/8260S503-3.m
 Cal Date : 13-Jul-2000 10:36 quayler
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3i503.i/X00606A.b/VOX2170.d
 Level 2: /chem/can/msv/a3i503.i/X00606A.b/VOX2169.d
 Level 3: /chem/can/msv/a3i503.i/X00606A.b/VOX2168.d
 Level 4: /chem/can/msv/a3i503.i/X00606A.b/VOX2167.d
 Level 5: /chem/can/msv/a3i503.i/X00606A.b/VOX2166.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.24222	0.23308	0.20263	0.21419	0.21793	0.22201	7.067
9 Chloromethane	0.19598	0.19988	0.17659	0.19420	0.18160	0.18965	5.277
10 Vinyl Chloride	0.19034	0.19697	0.17486	0.19588	0.18801	0.18921	4.678
11 Bromomethane	0.21713	0.18305	0.13803	0.14841	0.14210	0.16574	20.387
12 Chloroethane	0.12977	0.12612	0.08965	0.07878	0.06890	0.09864	28.150
13 Trichlorofluoromethane	0.40688	0.41351	0.32600	0.31870	0.29086	0.35119	15.800
14 Acrolein	0.00987	0.00998	0.00999	0.00868	0.00627	0.00896	17.837
15 Acetone	0.07069	0.05892	0.05358	0.04172	0.03484	0.05195	27.217
16 1,1-Dichloroethene	0.25182	0.26363	0.21884	0.19823	0.15872	0.21825	19.347
17 Methylene Chloride	0.34716	0.29907	0.26052	0.24643	0.21650	0.27393	18.460
18 Carbon Disulfide	0.75132	0.77904	0.67527	0.65058	0.56106	0.68345	12.644
19 Acrylonitrile	0.03166	0.03328	0.03435	0.03143	0.02560	0.03127	10.831
20 trans-1,2-Dichloroethene	0.28840	0.31188	0.26952	0.25952	0.22470	0.27080	12.039
21 Vinyl acetate	0.26784	0.23088	0.24909	0.27333	0.23500	0.25123	7.569
22 1,1-Dichloroethane	0.52012	0.54629	0.48648	0.47385	0.42817	0.49098	9.203
23 2-Butanone	0.10889	0.08860	0.09700	0.07964	0.07101	0.08703	16.162
24 cis-1,2-dichloroethene	0.30837	0.32107	0.29166	0.28516	0.25480	0.29221	8.630
M 25 1,2-Dichloroethene (total)	0.29819	0.31647	0.28059	0.27234	0.23975	0.28151	10.259
26 Chloroform	0.59677	0.61672	0.55161	0.54371	0.50819	0.56340	7.702
27 1,1,1-Trichloroethane	0.51045	0.53526	0.46629	0.46227	0.44419	0.48369	7.803
28 Carbon Tetrachloride	0.51519	0.53926	0.46184	0.45946	0.44885	0.48492	8.217
29 1,2-Dichloroethane	0.33847	0.33777	0.31100	0.30628	0.29569	0.31784	6.080
30 Benzene	0.78167	0.81566	0.73476	0.73568	0.70432	0.75442	5.831
31 Trichloroethene	0.39690	0.42215	0.37302	0.36781	0.35527	0.38303	6.939
32 1,2-Dichloropropane	0.34372	0.35871	0.32781	0.32686	0.31318	0.33405	5.244
33 Bromodichloromethane	0.62044	0.65169	0.59165	0.58980	0.57727	0.60617	4.942

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUN-2000 10:59
 End Cal Date : 12-JUL-2000 17:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.i/X00712A.b/8260S503-3.m
 Cal Date : 13-Jul-2000 10:36 quayler
 Curve Type : Average

Compound	25.000	100.000	250.000	500.000	1000.000	RRP	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
34 2-Chloroethyl vinyl ether	0.09679	0.10848	0.12222	0.11975	0.11257	0.11196	9.025
35 4-Methyl-2-pentanone	0.24761	0.23134	0.23922	0.23391	0.22502	0.23542	3.617
36 cis-1,3-Dichloropropene	0.45721	0.49385	0.47101	0.48084	0.47566	0.47571	2.819
37 Toluene	1.00579	1.08279	0.96885	0.98715	0.93532	0.99598	5.528
38 trans-1,3-Dichloropropene	0.43192	0.45168	0.44138	0.44985	0.43334	0.44163	2.061
39 2-Hexanone	0.19188	0.19703	0.20642	0.19830	0.18895	0.19651	3.416
40 1,1,2-Trichloroethane	0.40930	0.37336	0.35022	0.33671	0.32126	0.35817	9.602
41 Tetrachloroethene	0.44202	0.47355	0.41560	0.41419	0.38832	0.42674	7.578
42 Dibromochloromethane	0.70908	0.71049	0.66024	0.64634	0.60896	0.66702	6.493
43 Chlorobenzene	0.93419	0.95515	0.85168	0.85974	0.81804	0.88376	6.590
44 Ethylbenzene	0.40967	0.43016	0.37750	0.38205	0.36753	0.39338	6.564
45 m + p-Xylene	0.51219	0.53433	0.47041	0.46928	0.44779	0.48680	7.264
46 Xylene-o	0.51596	0.55100	0.48230	0.48479	0.45851	0.49851	7.170
M 47 Xylenes (total)	0.51345	0.53989	0.47437	0.47445	0.45136	0.49070	7.216
48 Styrene	0.83412	0.88223	0.80751	0.81579	0.77089	0.82211	4.954
49 Bromoform	0.56699	0.54871	0.54577	0.54488	0.52117	0.54550	2.990
50 1,1,2,2-Tetrachloroethane	0.97056	0.89140	0.87776	0.87614	0.80523	0.88422	6.655
51 1,3-Dichlorobenzene	1.39825	1.33311	1.21662	1.24587	1.18104	1.27498	6.977
52 1,4-Dichlorobenzene	1.57082	1.41168	1.25282	1.27234	1.22239	1.34601	10.782
53 1,2-Dichlorobenzene	1.47376	1.33125	1.18352	1.16062	1.07937	1.24571	12.572
54 Freon-113	0.33898	0.35923	0.29219	0.27443	0.23022	0.29901	17.223
55 Acetonitrile	0.00658	0.00639	0.00677	0.00665	0.00743	0.00676	5.894 <-
56 Iodomethane	0.72615	0.74201	0.62950	0.59824	0.49637	0.63845	15.722
57 3-Chloropropene	0.12363	0.11324	0.12613	0.11607	0.10936	0.11769	5.984
58 2-Chloro-1,3-butadiene	0.38926	0.37959	0.42615	0.38774	0.36781	0.39011	5.606
59 Propionitrile	0.00717	0.01270	0.01400	0.01337	0.01620	0.01269	26.450 <-
60 Methacrylonitrile	0.10961	0.10035	0.09490	0.08708	0.10176	0.09874	8.485
61 Isobutanol	0.00768	0.00703	0.00675	0.00592	0.00728	0.00693	9.510 <-
62 Methyl Methacrylate	0.23658	0.23446	0.23761	0.21544	0.24150	0.23312	4.379
63 1,4-Dioxane	0.00186	0.00203	0.00198	0.00190	0.00194	0.00194	3.524 <-
64 Dibromomethane	0.29754	0.29550	0.27933	0.27156	0.26139	0.28107	5.513
65 Ethyl Methacrylate	0.37460	0.38559	0.40172	0.41121	0.38847	0.39232	3.648
66 1,2-Dibromoethane	0.51157	0.52566	0.50993	0.51648	0.49241	0.51121	2.379

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUN-2000 10:59
 End Cal Date : 12-JUL-2000 17:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.i/X00712A.b/8260S503-3.m
 Cal Date : 13-Jul-2000 10:36 quayler
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
67 1,1,1,2-Tetrachloroethane	0.54648	0.51916	0.57187	0.51305	0.47739	0.52559	6.794
68 1,2,3-Trichloropropane	0.84171	0.78152	0.76455	0.77052	0.73217	0.77809	5.144
69 1,4-Dichloro-2-butene	0.13113	0.14783	0.14519	0.15043	0.14544	0.14400	5.208
70 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
71 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
72 1,2-Dibromo-3-chloropropane	0.29539	0.27148	0.26789	0.25193	0.25358	0.26805	6.537
73 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
74 n-Butanol	0.00510	0.00478	0.00511	0.00473	0.00592	0.00513	9.277 <-
75 Ethyl Acetate	0.21830	0.21261	0.20284	0.18726	0.22286	0.20877	6.782
76 Cyclohexanone	0.02701	0.02366	0.02353	0.02004	0.02454	0.02376	10.539
77 Ethyl Ether	0.15811	0.14889	0.15960	0.13865	0.14356	0.14976	6.057
78 Methyl tert-butyl ether	0.53717	0.54424	0.52946	0.50643	0.44502	0.51247	7.863
79 Tetrahydrofuran	0.04812	0.05157	0.05309	0.05114	0.04259	0.04930	8.443
80 Dichlorofluoromethane	0.56371	0.53273	0.61723	0.55986	0.52341	0.55939	6.550
81 2-Nitropropane	0.06464	0.06612	0.06547	0.06051	0.06765	0.06488	4.127
82 tert-Butyl Alcohol	0.01673	0.01645	0.01612	0.01543	0.01315	0.01558	9.244
83 Cyclohexane	0.33983	0.36796	0.32004	0.32861	0.32019	0.33533	5.951
84 Hexane	0.20059	0.23144	0.20800	0.20490	0.18972	0.20693	7.419
85 Isopropyl Ether	1.08722	1.00119	1.10256	0.93913	0.92528	1.01108	8.096
86 2,2-Dichloropropane	0.38646	0.41877	0.37088	0.36936	0.34379	0.37785	7.283
87 1,1-Dichloropropene	0.39378	0.42617	0.36799	0.36111	0.34512	0.37883	8.381
88 1,3-Dichloropropane	0.54744	0.55442	0.52475	0.52915	0.50076	0.53131	3.966
89 Isopropylbenzene	1.39393	1.52244	1.33382	1.37886	1.34551	1.39491	5.400
90 Bromobenzene	0.83746	0.85910	0.78275	0.79358	0.73206	0.80099	6.194
91 2-Chlorotoluene	0.60295	0.60747	0.52899	0.54991	0.53101	0.56406	6.820
92 n-Propylbenzene	0.55116	0.60330	0.52424	0.54527	0.53101	0.55100	5.655
93 4-Chlorotoluene	0.60678	0.61006	0.54000	0.53902	0.51040	0.56125	7.962
94 1,3,5-Trimethylbenzene	1.63090	1.74981	1.53093	1.55934	1.49966	1.59413	6.251
95 tert-Butylbenzene	1.94475	2.07349	1.81823	1.89078	1.80838	1.90713	5.685
96 1,2,4-Trimethylbenzene	1.74504	1.82251	1.63281	1.71370	1.64395	1.71160	4.545
97 sec-Butylbenzene	2.45945	2.61481	2.29799	2.40046	2.30008	2.41456	5.440
98 4-Isopropyltoluene	1.96443	2.07027	1.77342	1.83831	1.78073	1.88543	6.820
99 n-Butylbenzene	1.81258	1.85541	1.63732	1.67573	1.61982	1.72017	6.216

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 7/28/00
Time: 6:01:07

* QC BATCH: 0188270 *
* *****

PREP DATE: 7/07/00
COMP DATE: 7/07/00

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MIH	MATRLX	INIT/FIN WT/VOL	PH'S INIT	ADJ1	ADJ2	SOLVENTS EXTRACTION VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
7/13/00 COMMENTS:	7/21/00	AOG030123-006 DFN0-1-03	D	13	QL	SOLID	30.13g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/14/00 COMMENTS:	7/21/00	AOG020104-001 DFN42-1-0W	D	13	QL	SOLID	30.10g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/14/00 COMMENTS:	7/21/00	AOG020104-002 DFN43-1-0W	D	13	QL	SOLID	30.01g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/14/00 COMMENTS:	7/21/00	AOG020104-003 DFN44-1-0W	D	13	QL	SOLID	30.09g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/14/00 COMMENTS:	7/21/00	AOG020104-004 DFN45-1-0W	D	13	QL	SOLID	30.09g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/14/00 COMMENTS:	7/21/00	AOG020104-005 DFN46-1-0W	D	13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/14/00 COMMENTS:	7/21/00	AOG020104-006 DFN47-1-0W	D	13	QL	SOLID	30.02g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/12/00 COMMENTS:	0/00/00	AOG060000-270 DFQGR-1-01B		13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML CLP #3729
7/12/00 COMMENTS:	0/00/00	AOG060000-270 DFQGR-1-02C		13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0 0.5ML SPIKE #89303 0.5ML CLP #3729

NP S&S WITNESSED BY DT
DCM #103281 ACE #H451108465 NAZS04 #8024104644

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 26

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB483X BFB Injection Date: 07/14/00

Instrument ID: A3I503 BFB Injection Time: 0804

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.3
75	30.0 - 60.0% of mass 95	42.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	79.8
175	5.0 - 9.0% of mass 174	5.9 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.3 (96.9)1
177	5.0 - 9.0% of mass 176	5.5 (7.1)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	VOX3263	07/14/00	0825
02	VSTD050	250NG-A9CC	VOX3264	07/14/00	0853
03	DGCJD-CHK	DGCJD102	VOX3265	07/14/00	0922
04	DGCJD-CKDUP	DGCJD103	VOX3266	07/14/00	0951
05	DGCJD-BLK	DGCJD101	VOX3267	07/14/00	1020
06	MPT-G4-SU-35	DFWAK102	VOX3279	07/14/00	1610
07					
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21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 14-JUL-2000 08:25
 Lab File ID: VOX3263.d Init. Cal. Date(s): 06-JUN-2000 12-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 10:59 17:46
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00714A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D	%D	%DRIFT	
\$ 4 1,2-Dichloroethane-d4	0.27939	0.29346	0.010		-5.0	50.0	Averaged
\$ 5 Toluene-d8	0.89107	1.04995	0.010		-17.8	50.0	Averaged
\$ 6 Bromofluorobenzene	0.72999	0.86210	0.010		-18.1	50.0	Averaged
\$ 7 Dibromofluoromethane	0.47578	0.53869	0.010		-13.2	50.0	Averaged
8 Dichlorodifluoromethane	0.22201	0.21416	0.010		3.5	50.0	Averaged
9 Chloromethane	0.18965	0.19930	0.100		-5.1	50.0	Averaged
10 Vinyl Chloride	0.18921	0.20017	0.010		-5.8	20.0	Averaged
11 Bromomethane	0.16574	0.16517	0.010		0.3	50.0	Averaged
12 Chloroethane	0.09864	0.10766	0.010		-9.1	50.0	Averaged
13 Trichlorofluoromethane	0.35119	0.36554	0.010		-4.1	50.0	Averaged
14 Acrolein	0.00896	0.00779	0.010		13.0	50.0	Averaged <-
16 1,1-Dichloroethene	0.21825	0.22467	0.050		-2.9	20.0	Averaged
15 Acetone	0.05195	0.05360	0.010		-3.2	50.0	Averaged
54 Freon-113	0.29901	0.37693	0.010		-26.1	50.0	Averaged
56 Iodomethane	0.63845	0.78114	0.010		-22.3	50.0	Averaged
18 Carbon Disulfide	0.68345	0.69643	0.010		-1.9	50.0	Averaged
55 Acetonitrile	0.00676	0.00722	0.010		-6.8	50.0	Averaged <-
17 Methylene Chloride	0.27393	0.25908	0.010		5.4	50.0	Averaged
19 Acrylonitrile	0.03127	0.03335	0.010		-6.7	50.0	Averaged
78 Methyl tert-butyl ether	0.51247	0.51112	0.010		0.3	50.0	Averaged
84 Hexane	0.20693	0.31952	0.010		-54.4	50.0	Averaged <-
21 Vinyl acetate	0.25123	0.20007	0.010		20.4	50.0	Averaged
22 1,1-Dichloroethane	0.49098	0.49012	0.100		0.2	50.0	Averaged
23 2-Butanone	0.08703	0.08753	0.010		-0.6	50.0	Averaged
20 trans-1,2-Dichloroethene	0.27080	0.28300	0.010		-4.5	50.0	Averaged
24 cis-1,2-dichloroethene	0.29221	0.29756	0.010		-1.8	50.0	Averaged
M 25 1,2-Dichloroethene (total)	0.28151	0.29028	0.010		-3.1	50.0	Averaged
86 2,2-Dichloropropane	0.37785	0.38267	0.010		-1.3	50.0	Averaged
111 Bromochloromethane	0.19372	0.19362	0.010		0.1	50.0	Averaged
79 Tetrahydrofuran	0.04930	0.05915	0.010		-20.0	50.0	Averaged
26 Chloroform	0.56340	0.55804	0.010		1.0	20.0	Averaged
27 1,1,1-Trichloroethane	0.48369	0.47252	0.010		2.3	50.0	Averaged
87 1,1-Dichloropropene	0.37883	0.38349	0.010		-1.2	50.0	Averaged
28 Carbon Tetrachloride	0.48492	0.46439	0.010		4.2	50.0	Averaged
29 1,2-Dichloroethane	0.31784	0.31112	0.010		2.1	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 14-JUL-2000 08:25
 Lab File ID: VOX3263.d Init. Cal. Date(s): 06-JUN-2000 12-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 10:59 17:46
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00714A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
30 Benzene	0.75442	0.75870	0.010	-0.6	50.0	Averaged
31 Trichloroethene	0.38303	0.38601	0.010	-0.8	50.0	Averaged
32 1,2-Dichloropropane	0.33405	0.32913	0.010	1.5	20.0	Averaged
63 1,4-Dioxane	0.00194	0.00212	0.010	-9.4	50.0	Averaged
64 Dibromomethane	0.28107	0.27822	0.010	1.0	50.0	Averaged
33 Bromodichloromethane	0.60617	0.58804	0.010	3.0	50.0	Averaged
34 2-Chloroethyl vinyl ether	0.11196	0.12074	0.010	-7.8	50.0	Averaged
36 cis-1,3-Dichloropropene	0.47571	0.47372	0.010	0.4	50.0	Averaged
35 4-Methyl-2-pentanone	0.23542	0.23909	0.010	-1.6	50.0	Averaged
37 Toluene	0.99598	1.01590	0.010	-2.0	20.0	Averaged
38 trans-1,3-Dichloropropene	0.44163	0.43868	0.010	0.7	50.0	Averaged
65 Ethyl Methacrylate	0.39232	0.39640	0.010	-1.0	50.0	Averaged
40 1,1,2-Trichloroethane	0.35817	0.34129	0.010	4.7	50.0	Averaged
88 1,3-Dichloropropane	0.53131	0.52879	0.010	0.5	50.0	Averaged
41 Tetrachloroethene	0.42674	0.44294	0.010	-3.8	50.0	Averaged
39 2-Hexanone	0.19651	0.20375	0.010	-3.7	50.0	Averaged
42 Dibromochloromethane	0.66702	0.64809	0.010	2.8	50.0	Averaged
66 1,2-Dibromoethane	0.51121	0.50935	0.010	0.4	50.0	Averaged
43 Chlorobenzene	0.88376	0.88690	0.300	-0.4	50.0	Averaged
44 Ethylbenzene	0.39338	0.39852	0.010	-1.3	20.0	Averaged
45 m + p-Xylene	0.48680	0.49873	0.010	-2.4	50.0	Averaged
46 Xylene-o	0.49851	0.51067	0.010	-2.4	50.0	Averaged
M 47 Xylenes (total)	0.49070	0.50271	0.010	-2.4	50.0	Averaged
48 Styrene	0.82211	0.84117	0.010	-2.3	50.0	Averaged
49 Bromoform	0.54550	0.52390	0.100	4.0	50.0	Averaged
89 Isopropylbenzene	1.39491	1.45315	0.010	-4.2	50.0	Averaged
50 1,1,2,2-Tetrachloroethane	0.88422	0.89495	0.300	-1.2	50.0	Averaged
90 Bromobenzene	0.80099	0.80226	0.010	-0.2	50.0	Averaged
68 1,2,3-Trichloropropane	0.77809	0.78691	0.010	-1.1	50.0	Averaged
69 1,4-Dichloro-2-butene	0.14400	0.16396	0.010	-13.9	50.0	Averaged
92 n-Propylbenzene	0.55100	0.58459	0.010	-6.1	50.0	Averaged
91 2-Chlorotoluene	0.56406	0.57725	0.010	-2.3	50.0	Averaged
94 1,3,5-Trimethylbenzene	1.59413	1.68515	0.010	-5.7	50.0	Averaged
93 4-Chlorotoluene	0.56125	0.57897	0.010	-3.2	50.0	Averaged
95 tert-Butylbenzene	1.90713	1.95054	0.010	-2.3	50.0	Averaged
96 1,2,4-Trimethylbenzene	1.71160	1.79188	0.010	-4.7	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 14-JUL-2000 08:25
 Lab File ID: VOX3263.d Init. Cal. Date(s): 06-JUN-2000 12-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 10:59 17:46
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00714A.b/8260S503-3.m

COMPOUND	—		MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF250		RRF	%D / %DRIFT		%D / %DRIFT
97 sec-Butylbenzene	2.41456	2.51923	0.010	-4.3	50.0	Averaged
51 1,3-Dichlorobenzene	1.27498	1.31958	0.010	-3.5	50.0	Averaged
52 1,4-Dichlorobenzene	1.34601	1.33946	0.010	0.5	50.0	Averaged
53 1,2-Dichlorobenzene	1.24571	1.21660	0.010	2.3	50.0	Averaged
98 4-Isopropyltoluene	1.88543	1.96626	0.010	-4.3	50.0	Averaged
99 n-Butylbenzene	1.72017	1.90348	0.010	-10.7	50.0	Averaged
137 1,3,5-Trichlorobenzene	1.08248	1.26694	0.010	-17.0	50.0	Averaged
100 1,2,4-Trichlorobenzene	1.01722	0.97925	0.010	3.7	50.0	Averaged
102 Hexachlorobutadiene	0.76564	0.68350	0.010	10.7	50.0	Averaged
101 Naphthalene	1.74992	1.31755	0.010	24.7	50.0	Averaged
103 1,2,3-Trichlorobenzene	1.07127	0.88647	0.010	17.3	50.0	Averaged
82 tert-Butyl Alcohol	0.01558	0.01790	0.010	-14.9	50.0	Averaged
138 Methyl Acetate	0.13437	0.17108	0.010	-17.3	50.0	Averaged
139 Methylcyclohexane	0.37896	0.43335	0.010	-14.4	50.0	Averaged
83 Cyclohexane	0.33533	0.39879	0.010	-18.9	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 14-JUL-2000 08:53
 Lab File ID: VOX3264.d Init. Cal. Date(s): 06-JUN-2000 12-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 10:59 17:46
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00714A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
57 3-Chloropropene	0.11769	0.11044	0.010		6.2	50.0	Averaged
58 2-Chloro-1,3-butadiene	0.39011	0.33599	0.010		13.9	50.0	Averaged
59 Propionitrile	0.01269	0.01280	0.010		-0.9	50.0	Averaged
60 Methacrylonitrile	0.09874	0.07788	0.010		21.1	50.0	Averaged
61 Isobutanol	0.00693	0.00554	0.010		20.0	50.0	Averaged
62 Methyl Methacrylate	0.23312	0.19515	0.010		16.3	50.0	Averaged
67 1,1,1,2-Tetrachloroethane	0.52559	0.49597	0.010		5.6	50.0	Averaged
72 1,2-Dibromo-3-chloropropane	0.26805	0.22428	0.010		16.3	50.0	Averaged
74 n-Butanol	0.00513	0.00394	0.010		23.2	50.0	Averaged
75 Ethyl Acetate	0.20877	0.18071	0.010		13.4	50.0	Averaged
76 Cyclohexanone	0.02376	0.02018	0.010		15.0	50.0	Averaged
77 Ethyl Ether	0.14976	0.13173	0.010		12.0	50.0	Averaged
80 Dichlorofluoromethane	0.55939	0.47480	0.010		15.1	50.0	Averaged
81 2-Nitropropane	0.06488	0.04130	0.010		36.3	50.0	Averaged
85 Isopropyl Ether	1.01108	0.90870	0.010		10.1	50.0	Averaged

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015
 Lab File ID: EFB8441 BFB Injection Date: 06/20/00
 Instrument ID: A3UX8A BFB Injection Time: 2120
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.6
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.4
175	5.0 - 9.0% of mass 174	4.9 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	66.9 (96.4)1
177	5.0 - 9.0% of mass 176	4.6 (6.9)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	UX88459	06/20/00	2140
02	VSTD100	500NG-IC	UX88460	06/20/00	2201
03	VSTD050	250NG-IC	UX88461	06/20/00	2222
04	VSTD020	100NG-IC	UX88462	06/20/00	2243
05	VSTD005	25NG-IC	UX88463	06/20/00	2303
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB8444 BFB Injection Date: 06/23/00

Instrument ID: A3UX8A BFB Injection Time: 1800

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.0
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	70.4
175	5.0 - 9.0% of mass 174	5.2 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	67.9 (96.5)1
177	5.0 - 9.0% of mass 176	4.6 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-A9IC	UX88556	06/23/00	1903
02	VSTD100	500NG-A9IC	UX88557	06/23/00	1924
03	VSTD050	250NG-A9IC	UX88558	06/23/00	1945
04	VSTD020	100NG-A9IC	UX88559	06/23/00	2006
05	VSTD005	25NG-A9IC	UX88560	06/23/00	2027
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2000 00:27
 End Cal Date : 23-JUN-2000 20:27
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux8a.i/M00623A.b/N8260SUX8-V.m
 Cal Date : 23-Jun-2000 20:49 macenczs
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux8a.i/M00623A.b/ux88560.d
 Level 2: /chem/can/msv/a3ux8a.i/M00623A.b/ux88559.d
 Level 3: /chem/can/msv/a3ux8a.i/M00623A.b/ux88558.d
 Level 4: /chem/can/msv/a3ux8a.i/M00623A.b/ux88557.d
 Level 5: /chem/can/msv/a3ux8a.i/M00623A.b/ux88556.d

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
8 Dichlorodifluoromethane	0.08941	0.08940	0.08920	0.09274	0.09700	0.09155	3.697
9 Chloromethane	0.17494	0.16265	0.17521	0.17652	0.17158	0.17158	3.419
10 Vinyl Chloride	0.14115	0.13778	0.13789	0.14101	0.13858	0.13928	1.198
11 Bromomethane	0.07470	0.06637	0.05029	0.05905	0.05270	0.06262	13.280
12 Chloroethane	0.08312	0.08830	0.09376	0.09271	0.07257	0.08609	10.046
13 Trichlorofluoromethane	0.20079	0.18825	0.19592	0.19636	0.18230	0.19273	3.824
14 Acrolein	0.02656	0.03434	0.03234	0.03900	0.03894	0.03424	15.126
15 Acetone	0.11517	0.09225	0.08489	0.12155	0.12130	0.10703	16.110
16 1,1-Dichloroethane	0.20517	0.19676	0.19446	0.19334	0.17863	0.19367	4.956
17 Methylene Chloride	0.42383	0.26183	0.24344	0.22555	0.21217	0.27336	31.521
18 Carbon Disulfide	0.57993	0.55891	0.55437	0.55541	0.51802	0.55333	4.032
19 Acrylonitrile	0.08494	0.10632	0.10153	0.12391	0.12527	0.10840	15.486
20 trans-1,2-Dichloroethane	0.26468	0.25795	0.25312	0.26130	0.25888	0.25919	1.650
21 Vinyl acetate	0.65307	0.85322	0.82595	0.91437	0.96670	0.84266	14.149
22 1,1-Dichloroethane	0.53110	0.52687	0.52482	0.53737	0.54942	0.53392	1.856
23 2-Butanone	0.15265	0.18401	0.14231	0.20563	0.20049	0.17102	17.339
24 cis-1,2-dichloroethane	0.28304	0.26442	0.26590	0.27183	0.27287	0.27161	2.710
M 25 1,2-Dichloroethene (total)	0.27386	0.26118	0.25951	0.26656	0.26587	0.26540	2.112
26 Chloroform	0.50845	0.46731	0.44774	0.45102	0.45646	0.46620	5.311
27 1,1,1-Trichloroethane	0.37978	0.37989	0.37714	0.38266	0.35959	0.37581	2.468
28 Carbon Tetrachloride	0.34043	0.34343	0.34364	0.36478	0.35881	0.35022	3.099
29 1,2-Dichloroethane	0.47195	0.46575	0.44779	0.45891	0.46060	0.46100	1.944
30 Benzene	1.08161	1.02785	1.01413	1.02246	1.02668	1.03455	2.596
31 Trichloroethene	0.28421	0.27291	0.27230	0.27205	0.27544	0.27538	1.858
32 1,2-Dichloropropane	0.30077	0.29397	0.28672	0.29479	0.29733	0.29472	1.763
33 Bromodichloromethane	0.34822	0.33654	0.32914	0.34243	0.34621	0.34051	2.277

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2000 00:27
 End Cal Date : 23-JUN-2000 20:27
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux8a.i/M00623A.b/N8260SUX8-V.m
 Cal Date : 23-Jun-2000 20:49 macenczs
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
34 2-Chloroethyl vinyl ether	0.11363	0.15432	0.14986	0.15948	0.15421	0.14630	12.698
35 4-Methyl-2-pentanone	0.24310	0.29428	0.28147	0.34466	0.32980	0.29866	13.484
36 cis-1,3-Dichloropropene	0.39320	0.39973	0.40608	0.42753	0.43432	0.41217	4.337
37 Toluene	1.67074	1.60644	1.57169	1.64692	1.72308	1.64377	3.549
38 trans-1,3-Dichloropropene	0.48298	0.51560	0.52518	0.58565	0.62742	0.54737	10.622
39 2-Hexanone	0.21544	0.26911	0.26276	0.35754	0.35864	0.29270	21.591
40 1,1,2-Trichloroethane	0.29721	0.30397	0.28772	0.31102	0.32276	0.30454	4.377
41 Tetrachloroethane	0.30557	0.28761	0.28372	0.29736	0.30080	0.29501	3.092
42 Dibromochloromethane	0.29340	0.32977	0.33253	0.36429	0.37832	0.33966	9.754
43 Chlorobenzene	1.09590	1.04206	1.02027	1.02858	1.03497	1.04071	3.301
44 Ethylbenzene	0.54508	0.53116	0.52221	0.52674	0.53350	0.53174	1.621
45 m + p-Xylene	0.66191	0.64246	0.62638	0.63376	0.62827	0.63856	2.266
46 Xylene-o	0.63701	0.61844	0.60024	0.59516	0.56458	0.60309	4.496
47 Xylenes (total)	0.65361	0.63446	0.61767	0.62089	0.60704	0.62673	2.861
48 Styrene	0.96339	1.02308	1.00058	1.00356	0.97982	0.99409	2.315
49 Bromoform	0.13821	0.16251	0.16739	0.18573	0.18437	0.16764	11.549
50 1,1,2,2-Tetrachloroethane	0.72342	0.80779	0.76256	0.84886	0.78893	0.78631	5.999
51 1,3-Dichlorobenzene	1.66088	1.58811	1.53919	1.56570	1.55733	1.58224	2.992
52 1,4-Dichlorobenzene	1.80771	1.60822	1.55080	1.58456	1.57491	1.62524	6.403
53 1,2-Dichlorobenzene	1.56505	1.42432	1.36430	1.40989	1.40978	1.43467	5.319
54 Freon-113	0.11402	0.12245	0.11927	0.11881	0.11696	0.11810	2.624
55 Acetonitrile	0.02232	0.02323	0.02122	0.03081	0.03112	0.02574	18.738
56 Iodomethane	0.32725	0.33057	0.32588	0.32086	0.29433	0.31978	4.581
57 3-Chloropropene	0.12994	0.12886	0.13525	0.14051	0.13783	0.13448	3.726
58 2-Chloro-1,3-butadiene	0.61535	0.61649	0.62385	0.62983	0.61381	0.61987	1.093
59 Propionitrile	0.02684	0.02631	0.02969	0.03156	0.02999	0.02888	7.706
60 Methacrylonitrile	0.19929	0.19032	0.20560	0.21039	0.20661	0.20244	3.884
61 Isobutanol	0.00680	0.00728	0.00758	0.00901	0.00823	0.00778	11.061<-
62 Methyl Methacrylate	0.29312	0.28905	0.31922	0.33820	0.33291	0.31450	7.159
63 1,4-Dioxane	0.00164	0.00168	0.00146	0.00196	0.00223	0.00179	16.942<-
64 Dibromomethane	0.15170	0.15287	0.14769	0.15267	0.15086	0.15116	1.389
65 Ethyl Methacrylate	0.35923	0.44105	0.43389	0.50492	0.53277	0.45437	14.906
66 1,2-Dibromoethane	0.28979	0.29635	0.27915	0.30345	0.30569	0.29489	3.659

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2000 00:27
 End Cal Date : 23-JUN-2000 20:27
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux8a.i/M00623A.b/N8260SUX8-V.m
 Cal Date : 23-Jun-2000 20:49 macenczs
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
67 1,1,1,2-Tetrachloroethane	0.29951	0.31652	0.33526	0.34887	0.34530	0.32909	6.311
68 1,2,3-Trichloropropane	0.99611	1.07925	1.04957	1.20078	1.14363	1.09387	7.319
69 1,4-Dichloro-2-butene	0.27642	0.33822	0.33289	0.39819	0.40796	0.35074	15.304
70 Pentachloroethane	++++	++++	-----	++++	++++	++++	++++ <-
71 Benzyl Chloride	++++	++++	-----	++++	++++	++++	++++ <-
72 1,2-Dibromo-3-chloropropane	0.10794	0.11206	0.12466	0.13934	0.12586	0.12197	10.200
73 Ethanol	++++	++++	-----	++++	++++	++++	++++ <-
74 n-Butanol	0.00367	0.00459	0.00540	0.00656	0.00623	0.00529	22.443 <-
75 Ethyl Acetate	0.33658	0.29967	0.32697	0.33844	0.33068	0.32647	4.798
76 Cyclohexanone	0.02110	0.02114	0.02286	0.02714	0.02373	0.02319	10.693
77 Ethyl Ether	0.28112	0.26796	0.27727	0.28021	0.27237	0.27578	2.012
78 Methyl tert-butyl ether	0.66935	0.68023	0.63293	0.66814	0.63854	0.65784	3.164
79 Tetrahydrofuran	0.06604	0.08508	0.08023	0.11257	0.11291	0.09137	22.688
80 Dichlorofluoromethane	0.11640	0.15428	0.18053	0.19715	0.21013	0.17170	21.722
81 2-Nitropropane	0.03785	0.04268	0.05566	0.06441	0.06963	0.05405	25.236
82 tert-Butyl Alcohol	0.01931	0.02114	0.01795	0.02930	0.02676	0.02289	21.440
140 Cyclohexane	0.46667	0.49334	0.48382	0.49894	0.48779	0.48611	2.526
84 Hexane	0.41587	0.41436	0.40789	0.42572	0.45409	0.42359	4.298
85 Isopropyl Ether	1.19336	1.16125	1.15320	1.14751	1.10560	1.15218	2.735
86 2,2-Dichloropropane	0.25986	0.25711	0.25778	0.25696	0.21758	0.24986	7.237
87 1,1-Dichloropropene	0.35811	0.35229	0.34557	0.35570	0.36103	0.35454	1.679
88 1,3-Dichloropropane	0.55879	0.54765	0.53475	0.57005	0.58496	0.55924	3.477
89 Isopropylbenzene	1.57830	1.53418	1.47840	1.45124	1.39599	1.48762	4.776
90 Bromobenzene	0.92533	0.92109	0.92512	0.93738	0.86876	0.91153	2.913
91 2-Chlorotoluene	0.95397	0.91424	0.92677	0.91954	0.87378	0.91366	3.143
92 n-Propylbenzene	1.13817	1.11353	1.09418	1.14093	1.09680	1.11672	1.983
93 4-Chlorotoluene	0.99276	0.91840	0.92381	0.92825	0.88081	0.92481	4.539
94 1,3,5-Trimethylbenzene	3.05100	3.03760	2.95204	2.98437	2.84392	2.97379	2.787
95 tert-Butylbenzene	2.93172	2.80434	2.79586	2.77655	2.61535	2.78476	4.050
96 1,2,4-Trimethylbenzene	3.07782	2.95156	2.92037	2.93185	2.92131	2.95858	2.311
97 sec-Butylbenzene	3.73012	3.60376	3.44710	3.49995	3.44931	3.54605	3.410
98 4-Isopropyltoluene	3.26099	3.08675	2.96926	3.04551	3.08849	3.09020	3.463
99 n-Butylbenzene	2.81472	2.63596	2.57362	2.70126	2.82067	2.70925	4.017

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2000 00:27
 End Cal Date : 23-JUN-2000 20:27
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux8a.i/M00623A.b/N8260SUX8-V.m
 Cal Date : 23-Jun-2000 20:49 macenczs
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	0.80321	0.72566	0.76501	0.90229	0.92131	0.82350	10.372
101 Naphthalene	2.10696	2.03384	2.06627	2.44966	2.37184	2.20571	8.657
102 Hexachlorobutadiene	0.41371	0.38002	0.39116	0.44368	0.45444	0.41660	7.740
103 1,2,3-Trichlorobenzene	0.76057	0.69980	0.72730	0.85344	0.85184	0.77859	9.112
104 Isopropyl Alcohol	++++	++++	-----	++++	++++	++++	++++ <-
105 N-Propanol	++++	++++	-----	++++	++++	++++	++++ <-
106 Isopropyl Acetate	++++	++++	-----	++++	++++	++++	++++ <-
107 N-Propyl Acetate	++++	++++	-----	++++	++++	++++	++++ <-
108 N-Butyl acetate	++++	++++	-----	++++	++++	++++	++++ <-
109 Dimethoxymethane	++++	++++	-----	++++	++++	++++	++++ <-
110 3,3,5-Trimethylcyclohexanone	++++	++++	-----	++++	++++	++++	++++ <-
111 Bromochloromethane	0.12932	0.13218	0.12643	0.13133	0.13207	0.13027	1.867
112 Paraldehyde	++++	++++	-----	++++	++++	++++	++++ <-
135 1-Chlorohexane	++++	++++	-----	++++	++++	++++	++++ <-
136 Chloropicrin	++++	++++	-----	++++	++++	++++	++++ <-
137 1,3,5-Trichlorobenzene	0.83485	0.81473	0.83129	0.95969	1.00768	0.88965	9.873
138 Methyl Acetate	0.20746	0.24018	0.22397	0.27696	0.27312	0.24434	12.422
139 Methylcyclohexane	0.43300	0.45404	0.44110	0.45597	0.44827	0.44648	2.128

S 4 1,2-Dichloroethane-d4	0.33774	0.36673	0.34860	0.35337	0.35981	0.35325	3.123
S 5 Toluene-d8	1.26655	1.33725	1.34192	1.37324	1.45414	1.35462	5.016
S 6 Bromofluorobenzene	0.48794	0.49962	0.47736	0.45568	0.44693	0.47351	4.638
S 7 Dibromofluoromethane	0.23085	0.24967	0.24513	0.24437	0.24947	0.24390	3.152

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015

Lab File ID: BFB8462 BFB Injection Date: 07/14/00

Instrument ID: A3UX8A BFB Injection Time: 2019

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.3
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.9
175	5.0 - 9.0% of mass 174	5.1 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	67.8 (96.9)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX89087	07/14/00	2039
02	VSTD050	250NG-A9CC	UX89088	07/14/00	2100
03	DG5JE-CHK	DG5JE102	UX89092	07/14/00	2223
04	DG5JE-CKDUP	DG5JE103	UX89093	07/14/00	2244
05	DG5JE-BLK	DG5JE101	UX89094	07/14/00	2305
06	MPT-G4-SU-28	DFV5X102	UX89095	07/14/00	2326
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 14-JUL-2000 20:39
 Lab File ID: ux89087.d Init. Cal. Date(s): 23-MAY-2000 06-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 00:27 13:11
 Lab Sample ID: 25ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux8a.i/M00714A.b/N8260SUX8-V.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 7 Dibromofluoromethane	0.24390	0.24643	0.24643	0.010	-1.0	50.0	Averaged
\$ 4 1,2-Dichloroethane-d4	0.35325	0.34927	0.34927	0.010	1.1	50.0	Averaged
\$ 5 Toluene-d8	1.35462	1.40844	1.40844	0.010	-4.0	50.0	Averaged
\$ 6 Bromofluorobenzene	0.47351	0.48218	0.48218	0.010	-1.8	50.0	Averaged
8 Dichlorodifluoromethane	0.09155	0.12322	0.12322	0.010	-34.6	50.0	Averaged
9 Chloromethane	0.17158	0.22843	0.22843	0.100	-33.1	50.0	Averaged
10 Vinyl Chloride	0.13928	0.14906	0.14906	0.010	-7.0	20.0	Averaged
11 Bromomethane	0.06262	0.07535	0.07535	0.010	-20.3	50.0	Averaged
12 Chloroethane	0.08609	0.10604	0.10604	0.010	-23.2	50.0	Averaged
13 Trichlorofluoromethane	0.19273	0.19348	0.19348	0.010	-0.4	50.0	Averaged
14 Acrolein	1899	2500	0.02708	0.010	24.0	0.0	Linear
15 Acetone	0.10103 388	250	0.17880	0.010	-55.2	0.0	Linear
16 1,1-Dichloroethene	0.19367	0.19183	0.19183	0.050	1.0	20.0	Averaged
54 Freon-113	0.11830	0.12073	0.12073	0.010	-2.1	50.0	Averaged
56 Iodomethane	0.31978	0.28842	0.28842	0.010	9.8	50.0	Averaged
18 Carbon Disulfide	0.55333	0.59747	0.59747	0.010	-8.0	50.0	Averaged
17 Methylene Chloride	248	250	0.23327	0.010	0.7	0.0	Linear
55 Acetonitrile	0.00504 2881	2500	0.03256	0.010	-15.2	0.0	Linear
19 Acrylonitrile	2797	2500	0.13153	0.010	-11.9	0.0	Linear
78 Methyl tert-butyl ether	0.65784	0.40536	0.40536	0.010	38.4	50.0	Averaged
20 trans-1,2-Dichloroethene	0.25919	0.25803	0.25803	0.010	0.4	50.0	Averaged
84 Hexane	0.42359	0.57853	0.57853	0.010	-36.6	50.0	Averaged
21 Vinyl acetate	0.84266	0.60924	0.60924	0.010	27.7	50.0	Averaged
22 1,1-Dichloroethane	0.53392	0.55304	0.55304	0.100	-3.6	50.0	Averaged
23 2-Butanone	0.17102 331	250	0.24986	0.010	-32.4	0.0	Linear
M 25 1,2-Dichloroethene (total)	0.26540	0.26830	0.26830	0.010	-1.1	50.0	Averaged
24 cis-1,2-dichloroethene	0.27161	0.27857	0.27857	0.010	-2.6	50.0	Averaged
86 2,2-Dichloropropane	0.24986	0.24671	0.24671	0.010	1.3	50.0	Averaged
111 Bromochloromethane	0.13027	0.13159	0.13159	0.010	-1.0	50.0	Averaged
26 Chloroform	0.46620	0.45847	0.45847	0.010	1.7	20.0	Averaged
79 Tetrahydrofuran	292	250	0.12062	0.010	-16.7	0.0	Linear
27 1,1,1-Trichloroethane	0.37581	0.35613	0.35613	0.010	5.2	50.0	Averaged
87 1,1-Dichloropropene	0.35454	0.37143	0.37143	0.010	-4.8	50.0	Averaged
28 Carbon Tetrachloride	0.35022	0.33165	0.33165	0.010	5.3	50.0	Averaged
29 1,2-Dichloroethane	0.46100	0.46077	0.46077	0.010	0.0	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 14-JUL-2000 20:39
 Lab File ID: ux89087.d Init. Cal. Date(s): 23-MAY-2000 06-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 00:27 13:11
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux8a.i/M00714A.b/N8260SUX8-V.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
30 Benzene	1.03455	1.08646	1.08646	0.010	-5.0	50.0	Averaged
31 Trichloroethene	0.27538	0.28036	0.28036	0.010	-1.8	50.0	Averaged
32 1,2-Dichloropropane	0.29472	0.31473	0.31473	0.010	-6.8	20.0	Averaged
63 1,4-Dioxane	14463	12500	0.00224	0.010	-15.7	0.0	Linear
64 Dibromomethane	0.15116	0.15165	0.15165	0.010	-0.3	50.0	Averaged
33 Bromodichloromethane	0.34051	0.34345	0.34345	0.010	-0.9	50.0	Averaged
34 2-Chloroethyl vinyl ether	0.14630	0.13537	0.13537	0.010	7.5	50.0	Averaged
36 cis-1,3-Dichloropropene	0.41217	0.42114	0.42114	0.010	-2.2	50.0	Averaged
35 4-Methyl-2-pentanone	0.29866	0.36324	0.36324	0.010	-21.6	50.0	Averaged
37 Toluene	1.64377	1.69209	1.69209	0.010	-2.9	20.0	Averaged
38 trans-1,3-Dichloropropene	0.54737	0.54080	0.54080	0.010	1.2	50.0	Averaged
65 Ethyl Methacrylate	0.45437	0.48204	0.48204	0.010	-6.1	50.0	Averaged
40 1,1,2-Trichloroethane	0.30454	0.31349	0.31349	0.010	-2.9	50.0	Averaged
88 1,3-Dichloropropane	0.55924	0.58577	0.58577	0.010	-4.7	50.0	Averaged
41 Tetrachloroethene	0.29501	0.30642	0.30642	0.010	-3.9	50.0	Averaged
39 2-Hexanone	283	250	0.37148	0.010	-13.1	0.0	Linear
42 Dibromochloromethane	0.33966	0.35371	0.35371	0.010	-4.1	50.0	Averaged
66 1,2-Dibromoethane	0.29489	0.30473	0.30473	0.010	-3.3	50.0	Averaged
43 Chlorobenzene	1.04071	1.06987	1.06987	0.300	-2.8	50.0	Averaged
44 Ethylbenzene	0.53174	0.55617	0.55617	0.010	-4.6	20.0	Averaged
45 m + p-Xylene	0.63856	0.67192	0.67192	0.010	-5.2	50.0	Averaged
M 47 Xylenes (total)	0.62673	0.65764	0.65764	0.010	-4.9	50.0	Averaged
46 Xylene-o	0.60309	0.62909	0.62909	0.010	-4.3	50.0	Averaged
48 Styrene	0.99409	1.04054	1.04054	0.010	-4.7	50.0	Averaged
49 Bromoform	0.16764	0.18151	0.18151	0.100	-8.3	50.0	Averaged
89 Isopropylbenzene	1.48762	1.56565	1.56565	0.010	-5.2	50.0	Averaged
50 1,1,2,2-Tetrachloroethane	0.78631	0.87034	0.87034	0.300	-10.7	50.0	Averaged
69 1,4-Dichloro-2-butene	254	250	0.38305	0.010	-1.5	0.0	Linear
68 1,2,3-Trichloropropane	1.09387	1.19088	1.19088	0.010	-8.9	50.0	Averaged
90 Bromobenzene	0.91153	0.94081	0.94081	0.010	-3.2	50.0	Averaged
92 n-Propylbenzene	1.11672	1.14496	1.14496	0.010	-2.8	50.0	Averaged
91 2-Chlorotoluene	0.91366	0.94772	0.94772	0.010	-3.7	50.0	Averaged
94 1,3,5-Trimethylbenzene	2.97379	3.08396	3.08396	0.010	-3.7	50.0	Averaged
93 4-Chlorotoluene	0.92481	0.95900	0.95900	0.010	-3.7	50.0	Averaged
95 tert-Butylbenzene	2.78476	2.79705	2.79705	0.010	-0.4	50.0	Averaged
96 1,2,4-Trimethylbenzene	2.95858	3.00506	3.00506	0.010	-1.6	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 14-JUL-2000 20:39
 Lab File ID: ux89087.d Init. Cal. Date(s): 23-MAY-2000 06-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 00:27 13:11
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux8a.i/M00714A.b/N8260SUX8-V.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
97 sec-Butylbenzene	3.54605	3.59764	3.59764	0.010	-1.5	50.0	Averaged
98 4-Isopropyltoluene	3.09020	3.03402	3.03402	0.010	1.8	50.0	Averaged
51 1,3-Dichlorobenzene	1.58224	1.58815	1.58815	0.010	-0.4	50.0	Averaged
52 1,4-Dichlorobenzene	1.62524	1.59790	1.59790	0.010	1.7	50.0	Averaged
99 n-Butylbenzene	2.70925	2.52905	2.52905	0.010	6.7	50.0	Averaged
53 1,2-Dichlorobenzene	1.43467	1.40350	1.40350	0.010	2.2	50.0	Averaged
100 1,2,4-Trichlorobenzene	0.82350	0.76695	0.76695	0.010	6.9	50.0	Averaged
102 Hexachlorobutadiene	0.41660	0.38915	0.38915	0.010	6.6	50.0	Averaged
101 Naphthalene	2.20571	1.92341	1.92341	0.010	12.8	50.0	Averaged
103 1,2,3-Trichlorobenzene	0.77859	0.71219	0.71219	0.010	8.5	50.0	Averaged
82 tert-Butyl Alcohol	4499	5000	0.02289	0.010	10.0	0.0	Quadratic
138 Methyl Acetate	0.24434	0.38764	0.38764	0.010	-58.6	50.0	Averaged
140 Cyclohexane	0.48611	0.53072	0.53072	0.010	-9.2	50.0	Averaged
139 Methylcyclohexane	0.44648	0.46648	0.46648	0.010	-4.5	50.0	Averaged
137 1,3,5-Trichlorobenzene	0.88965	0.85898	0.85898	0.010	3.4	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux8a.i Injection Date: 14-JUL-2000 21:00
 Lab File ID: ux89088.d Init. Cal. Date(s): 23-MAY-2000 06-JUL-2000
 Analysis Type: WATER Init. Cal. Times: 00:27 13:11
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux8a.i/M00714A.b/N8260SUX8-V.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 3-Chloropropene	0.13448	0.12636	0.12636	0.010	6.0	50.0	Averaged
58 2-Chloro-1,3-butadiene	0.61987	0.61208	0.61208	0.010	1.3	50.0	Averaged
59 Propionitrile	0.02888	0.05089	0.05089	0.010	-76.2	50.0	Averaged
60 Methacrylonitrile	0.20244	0.24185	0.24185	0.010	-19.5	50.0	Averaged
61 Isobutanol	6429	5000	0.01061	0.010	-28.6	0.0	Linear
62 Methyl Methacrylate	0.31450	0.34511	0.34511	0.010	-9.7	50.0	Averaged
67 1,1,1,2-Tetrachloroethane	0.32909	0.35013	0.35013	0.010	-6.4	50.0	Averaged
72 1,2-Dibromo-3-chloropropane	0.12197	0.11623	0.11623	0.010	4.7	50.0	Averaged
74 n-Butanol	5604	5000	0.00669	0.010	-12.1	0.0	Linear
75 Ethyl Acetate	0.32647	0.40269	0.40269	0.010	-23.3	50.0	Averaged
76 Cyclohexanone	0.02319	0.02583	0.02583	0.010	-11.4	50.0	Averaged
77 Ethyl Ether	0.27578	0.27920	0.27920	0.010	-1.2	50.0	Averaged
80 Dichlorofluoromethane	279	250	0.21551	0.010	-11.6	0.0	Linear
81 2-Nitropropane	699	500	0.08941	0.010	-39.7	0.0	Linear
85 Isopropyl Ether	1.15218	1.14528	1.14528	0.010	0.6	50.0	Averaged

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5JE102

BATCH: 0195360

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	1000	690	69	10 - 273	
Bromomethane	1000	540	54	10 - 242	
Vinyl chloride	1000	590	59	41 - 138	
Chloroethane	1000	560	56*	82 - 114	a
Methylene chloride	1000	810	81	10 - 221	
Acetone	1000	1800	184*	80 - 120	a
Carbon disulfide	1000	770	77*	81 - 125	a
1,1-Dichloroethene	1000	800	80	55 - 142	
1,1-Dichloroethane	1000	940	94	59 - 155	
1,2-Dichloroethene (total)	2000	1700	85	50 - 150	
Chloroform	1000	920	92	77 - 126	
1,2-Dichloroethane	1000	940	94	76 - 127	
2-Butanone (MEK)	1000	2100	207*	20 - 155	a
1,1,1-Trichloroethane	1000	820	82	52 - 162	
Carbon tetrachloride	1000	740	74	66 - 141	
Bromodichloromethane	1000	860	86	35 - 155	
1,2-Dichloropropane	1000	990	99	10 - 210	
cis-1,3-Dichloropropene	1000	880	88	10 - 227	
Trichloroethene	1000	930	93	70 - 131	
Dibromochloromethane	1000	810	81	53 - 149	
1,1,2-Trichloroethane	1000	930	93	52 - 150	
Benzene	1000	960	96	75 - 129	
trans-1,3-Dichloropropene	1000	810	81	17 - 183	
Bromoform	1000	710	71	45 - 169	
4-Methyl-2-pentanone (MIB)	1000	930	93	90 - 125	
Tetrachloroethene	1000	930	93	68 - 136	
1,1,2,2-Tetrachloroethane	1000	880	88	46 - 157	
Toluene	1000	940	94	71 - 130	
2-Hexanone	1000	1300	127	87 - 129	
Chlorobenzene	1000	980	98	75 - 127	
Ethylbenzene	1000	960	96	37 - 162	

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SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5JE102

BATCH: 0195360

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Styrene	1000	950	95	79 - 100	
Xylenes (total)	3000	3000	98	83 - 129	
trans-1,2-Dichloroethene	1000	800	80	54 - 156	
n-Hexane	1000	1100	115	98 - 117	
cis-1,2-Dichloroethene	1000	900	90	50 - 150	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5JE103

BATCH: 0195360

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Chloromethane	1000	670	67	10 - 273	
Bromomethane	1000	550	55	10 - 242	
Vinyl chloride	1000	580	58	41 - 138	
Chloroethane	1000	510	51*	82 - 114	a
Methylene chloride	1000	790	79	10 - 221	
Acetone	1000	1900	185*	80 - 120	a
Carbon disulfide	1000	750	75*	81 - 125	a
1,1-Dichloroethene	1000	800	80	55 - 142	
1,1-Dichloroethane	1000	950	95	59 - 155	
1,2-Dichloroethene (total)	2000	1700	86	50 - 150	
Chloroform	1000	910	91	77 - 126	
1,2-Dichloroethane	1000	930	93	76 - 127	
2-Butanone (MEK)	1000	2000	200*	20 - 155	a
1,1,1-Trichloroethane	1000	790	79	52 - 162	
Carbon tetrachloride	1000	720	72	66 - 141	
Bromodichloromethane	1000	830	83	35 - 155	
1,2-Dichloropropane	1000	980	98	10 - 210	
cis-1,3-Dichloropropene	1000	860	86	10 - 227	
Trichloroethene	1000	920	92	70 - 131	
Dibromochloromethane	1000	770	77	53 - 149	
1,1,2-Trichloroethane	1000	940	94	52 - 150	
Benzene	1000	950	95	75 - 129	
trans-1,3-Dichloropropene	1000	810	81	17 - 183	
Bromoform	1000	710	71	45 - 169	
4-Methyl-2-pentanone (MIB)	1000	940	94	90 - 125	
2-Hexanone	1000	1200	125	87 - 129	
Tetrachloroethene	1000	920	92	68 - 136	
1,1,2,2-Tetrachloroethane	1000	920	92	46 - 157	
Toluene	1000	920	92	71 - 130	
Xylenes (total)	3000	2900	98	83 - 129	
Chlorobenzene	1000	960	96	75 - 127	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5JE103

BATCH: 0195360

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Ethylbenzene	1000	940	94	37 - 162	
Styrene	1000	940	94	79 - 100	
cis-1,2-Dichloroethene	1000	920	92	50 - 150	
trans-1,2-Dichloroethene	1000	800	80	54 - 156	
n-Hexane	1000	1100	111	98 - 117	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 36 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G060000

WO #: DFQE4102

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Bromoform	50	50	101	45 - 169	
4-Methyl-2-pentanone (MIB)	50	43	86*	90 - 125	a
Benzene	50	47	94	75 - 129	
trans-1,3-Dichloropropene	50	43	86	17 - 183	
2-Hexanone	50	46	92	87 - 129	
Tetrachloroethene	50	50	100	68 - 136	
1,1,2,2-Tetrachloroethane	50	43	86	46 - 157	
Toluene	50	43	85	71 - 130	
Chlorobenzene	50	48	96	75 - 127	
Ethylbenzene	50	48	96	37 - 162	
Styrene	50	46	92	79 - 100	
Xylenes (total)	150	140	93	83 - 129	
cis-1,2-Dichloroethene	50	47	94	50 - 150	
trans-1,2-Dichloroethene	50	46	92	54 - 156	
n-Hexane	50	46	92*	98 - 117	a
Methylene chloride	50	48	95	10 - 221	
Chloromethane	50	46	92	10 - 273	
Bromomethane	50	68	136	10 - 242	
Vinyl chloride	50	48	96	41 - 138	
Chloroethane	50	66	131*	82 - 114	a
Acetone	50	71	143*	80 - 120	a
Carbon disulfide	50	49	98	81 - 125	
1,1-Dichloroethene	50	50	100	55 - 142	
1,1-Dichloroethane	50	47	95	59 - 155	
1,2-Dichloroethene (total)	100	93	93	50 - 150	
1,1,1-Trichloroethane	50	45	91	52 - 162	
Carbon tetrachloride	50	46	92	66 - 141	
Bromodichloromethane	50	47	93	35 - 155	
Chloroform	50	47	94	77 - 126	
1,2-Dichloroethane	50	45	90	76 - 127	
2-Butanone (MEK)	50	51	101	20 - 155	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G060000

WO #: DFQE4102

BATCH: 0188232

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,2-Dichloropropane	50	46	92	10 - 210	
cis-1,3-Dichloropropene	50	46	92	10 - 227	
Trichloroethene	50	52	104	70 - 131	
Dibromochloromethane	50	48	96	53 - 149	
1,1,2-Trichloroethane	50	45	91	52 - 150	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 36 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G120000

WO #: DG2GL102

BATCH: 0194148

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
2-Butanone (MEK)	20	28	138	20- 155	
1,1,1-Trichloroethane	20	21	105	52- 162	
Carbon tetrachloride	20	20	100	66- 141	
Bromodichloromethane	20	22	108	35- 155	
1,2-Dichloropropane	20	22	110	10- 210	
cis-1,3-Dichloropropene	20	22	111	10- 227	
Trichloroethene	20	23	114	70- 131	
Dibromochloromethane	20	22	108	53- 149	
1,1,2-Trichloroethane	20	22	109	52- 150	
Benzene	20	23	117	75- 129	
trans-1,3-Dichloropropene	20	21	107	17- 183	
Bromoform	20	21	106	45- 169	
4-Methyl-2-pentanone (MIB)	20	24	119	90- 125	
2-Hexanone	20	27	137*	87- 129	a
Tetrachloroethene	20	23	117	68- 136	
1,1,2,2-Tetrachloroethane	20	24	119	46- 157	
Toluene	20	23	115	71- 130	
Chlorobenzene	20	24	118	75- 127	
Ethylbenzene	20	23	116	37- 162	
Styrene	20	22	112*	79- 100	a
Xylenes (total)	60	71	119	83- 129	
cis-1,2-Dichloroethene	20	21	107	50- 150	
trans-1,2-Dichloroethene	20	23	117	54- 156	
n-Hexane	20	23	113	98- 117	
Chloromethane	20	22	111	10- 273	
Bromomethane	20	27	134	10- 242	
Vinyl chloride	20	23	113	41- 138	
Chloroethane	20	28	140*	82- 114	a
Methylene chloride	20	26	128	10- 221	
Acetone	20	43	217*	80- 120	a
Carbon disulfide	20	25	125	81- 125	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G120000

WO #: DG2GL102

BATCH: 0194148

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	20	25	124	55 - 142	
1,1-Dichloroethane	20	23	113	59 - 155	
1,2-Dichloroethene (total)	40	45	112	50 - 150	
Chloroform	20	22	111	77 - 126	
1,2-Dichloroethane	20	21	107	76 - 127	

NOTES (S):

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 4 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G120000

WO #: DG2GL103

BATCH: 0194148

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Chloromethane	20	23	114	10 - 273	
Bromomethane	20	27	135	10 - 242	
Vinyl chloride	20	22	111	41 - 138	
Chloroethane	20	28	140*	82 - 114	a
Methylene chloride	20	29	143	10 - 221	
Acetone	20	43	217*	80 - 120	a
Carbon disulfide	20	26	129*	81 - 125	a
1,1-Dichloroethene	20	26	128	55 - 142	
1,1-Dichloroethane	20	24	121	59 - 155	
1,2-Dichloroethene (total)	40	46	116	50 - 150	
Chloroform	20	23	117	77 - 126	
1,2-Dichloroethane	20	24	119	76 - 127	
2-Butanone (MEK)	20	29	143	20 - 155	
1,1,1-Trichloroethane	20	22	108	52 - 162	
Carbon tetrachloride	20	22	109	66 - 141	
Bromodichloromethane	20	24	121	35 - 155	
1,2-Dichloropropane	20	24	119	10 - 210	
cis-1,3-Dichloropropene	20	24	122	10 - 227	
Trichloroethene	20	24	122	70 - 131	
Dibromochloromethane	20	22	112	53 - 149	
1,1,2-Trichloroethane	20	25	123	52 - 150	
Benzene	20	25	124	75 - 129	
trans-1,3-Dichloropropene	20	23	115	17 - 183	
Bromoform	20	22	112	45 - 169	
4-Methyl-2-pentanone (MIB)	20	26	128*	90 - 125	a
2-Hexanone	20	28	141*	87 - 129	a
Tetrachloroethene	20	24	120	68 - 136	
1,1,2,2-Tetrachloroethane	20	25	126	46 - 157	
Toluene	20	23	116	71 - 130	
Chlorobenzene	20	24	122	75 - 127	
Ethylbenzene	20	24	119	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: AOG120000

WO #: DG2GL103

BATCH: 0194148

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Styrene	20	24	120*	79 - 100	a
Xylenes (total)	60	73	122	83 - 129	
cis-1,2-Dichloroethene	20	23	116	50 - 150	
trans-1,2-Dichloroethene	20	23	116	54 - 156	
n-Hexane	20	22	111	98 - 117	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGATP102

BATCH: 0199185

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	50	43	85	10 - 273	
Bromomethane	50	54	109	10 - 242	
Vinyl chloride	50	43	86	41 - 138	
Chloroethane	50	53	106	82 - 114	
Methylene chloride	50	40	81	10 - 221	
Acetone	50	67	134*	80 - 120	a
Carbon disulfide	50	43	86	81 - 125	
1,1-Dichloroethene	50	45	90	55 - 142	
1,1-Dichloroethane	50	45	91	59 - 155	
1,2-Dichloroethene (total)	100	86	86	50 - 150	
Chloroform	50	45	91	77 - 126	
1,2-Dichloroethane	50	47	94	76 - 127	
2-Butanone (MEK)	50	58	116	20 - 155	
1,1,1-Trichloroethane	50	43	86	52 - 162	
Carbon tetrachloride	50	44	88	66 - 141	
Bromodichloromethane	50	48	96	35 - 155	
1,2-Dichloropropane	50	47	93	10 - 210	
cis-1,3-Dichloropropene	50	47	95	10 - 227	
Trichloroethene	50	45	90	70 - 131	
Dibromochloromethane	50	49	99	53 - 149	
1,1,2-Trichloroethane	50	46	92	52 - 150	
Benzene	50	45	91	75 - 129	
trans-1,3-Dichloropropene	50	49	97	17 - 183	
Bromoform	50	49	99	45 - 169	
4-Methyl-2-pentanone (MIB)	50	47	95	90 - 125	
2-Hexanone	50	58	115	87 - 129	
Tetrachloroethene	50	44	88	68 - 136	
1,1,2,2-Tetrachloroethane	50	46	91	46 - 157	
Toluene	50	43	86	71 - 130	
Chlorobenzene	50	45	90	75 - 127	
Ethylbenzene	50	44	88	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGATP102

BATCH: 0199185

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Styrene	50	45	89	79 - 100	
Xylenes (total)	150	130	88	83 - 129	
cis-1,2-Dichloroethene	50	44	88	50 - 150	
trans-1,2-Dichloroethene	50	42	84	54 - 156	
n-Hexane	50	43	87*	98 - 117	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 2 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGATP103

BATCH: 0199185

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	50	43	85	10 - 273	
Bromomethane	50	56	111	10 - 242	
Vinyl chloride	50	42	84	41 - 138	
Chloroethane	50	52	103	82 - 114	
Methylene chloride	50	39	78	10 - 221	
Acetone	50	74	149*	80 - 120	a
Carbon disulfide	50	43	86	81 - 125	
1,1-Dichloroethene	50	45	89	55 - 142	
1,1-Dichloroethane	50	44	89	59 - 155	
1,2-Dichloroethene (total)	100	85	85	50 - 150	
Chloroform	50	46	92	77 - 126	
1,2-Dichloroethane	50	47	93	76 - 127	
2-Butanone (MEK)	50	62	125	20 - 155	
1,1,1-Trichloroethane	50	41	83	52 - 162	
Carbon tetrachloride	50	44	87	66 - 141	
Bromodichloromethane	50	48	96	35 - 155	
1,2-Dichloropropane	50	46	92	10 - 210	
cis-1,3-Dichloropropene	50	49	97	10 - 227	
Trichloroethene	50	46	92	70 - 131	
Dibromochloromethane	50	50	100	53 - 149	
1,1,2-Trichloroethane	50	50	100	52 - 150	
Benzene	50	45	90	75 - 129	
trans-1,3-Dichloropropene	50	51	102	17 - 183	
Bromoform	50	53	107	45 - 169	
4-Methyl-2-pentanone (MIB)	50	51	102	90 - 125	
2-Hexanone	50	66	133*	87 - 129	a
Tetrachloroethene	50	44	88	68 - 136	
1,1,2,2-Tetrachloroethane	50	49	98	46 - 157	
Toluene	50	44	87	71 - 130	
Chlorobenzene	50	45	90	75 - 127	
Ethylbenzene	50	45	89	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGATF103

BATCH: 0199185

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Styrene	50	46	91	79 - 100	
Xylenes (total)	150	130	90	83 - 129	
cis-1,2-Dichloroethene	50	44	88	50 - 150	
trans-1,2-Dichloroethene	50	41	82	54 - 156	
n-Hexane	50	42	84*	98 - 117	a

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 3 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5LV102

BATCH: 0195367

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	1000	170	17	10- 273	
Bromomethane	1000	410	41	10- 242	
Vinyl chloride	1000	320	32*	41- 138	a
Chloroethane	1000	410	41*	82- 114	a
Methylene chloride	1000	830	83	10- 221	
Acetone	1000	1300	128*	80- 120	a
Carbon disulfide	1000	470	47*	81- 125	a
1,1-Dichloroethene	1000	630	63	55- 142	
Chloroform	1000	940	94	77- 126	
1,2-Dichloroethane	1000	910	91	76- 127	
1,1-Dichloroethane	1000	870	87	59- 155	
1,2-Dichloroethene (total)	2000	1600	82	50- 150	
2-Butanone (MEK)	1000	2000	196*	20- 155	a
1,1,1-Trichloroethane	1000	880	88	52- 162	
Carbon tetrachloride	1000	880	88	66- 141	
Bromodichloromethane	1000	950	95	35- 155	
1,2-Dichloropropane	1000	920	92	10- 210	
cis-1,3-Dichloropropene	1000	940	94	10- 227	
Trichloroethene	1000	930	93	70- 131	
Dibromochloromethane	1000	900	90	53- 149	
1,1,2-Trichloroethane	1000	890	89	52- 150	
Benzene	1000	880	88	75- 129	
trans-1,3-Dichloropropene	1000	880	88	17- 183	
Bromoform	1000	820	82	45- 169	
4-Methyl-2-pentanone (MIB)	1000	760	76*	90- 125	a
2-Hexanone	1000	910	91	87- 129	
Tetrachloroethene	1000	880	88	68- 136	
1,1,2,2-Tetrachloroethane	1000	820	82	46- 157	
Toluene	1000	910	91	71- 130	
Chlorobenzene	1000	920	92	75- 127	
Ethylbenzene	1000	910	91	37- 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5LV102

BATCH: 0195367

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Styrene	1000	910	91	79 - 100	
Xylenes (total)	3000	2800	93	83 - 129	
cis-1,2-Dichloroethene	1000	880	88	50 - 150	
trans-1,2-Dichloroethene	1000	760	76	54 - 156	
n-Hexane	1000	970	97*	98 - 117	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 7 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: AOG130000

WO #: DG5LV103

BATCH: 0195367

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	1000	180	18	10 - 273	
Bromomethane	1000	420	42	10 - 242	
Vinyl chloride	1000	320	32*	41 - 138	a
Chloroethane	1000	410	41*	82 - 114	a
Methylene chloride	1000	810	81	10 - 221	
Acetone	1000	1200	120	80 - 120	
Carbon disulfide	1000	460	46*	81 - 125	a
1,1-Dichloroethene	1000	610	61	55 - 142	
1,1-Dichloroethane	1000	840	84	59 - 155	
1,2-Dichloroethene (total)	2000	1600	79	50 - 150	
Chloroform	1000	910	91	77 - 126	
1,2-Dichloroethane	1000	900	90	76 - 127	
2-Butanone (MEK)	1000	1900	189*	20 - 155	a
1,1,1-Trichloroethane	1000	850	85	52 - 162	
Carbon tetrachloride	1000	860	86	66 - 141	
Bromodichloromethane	1000	920	92	35 - 155	
1,2-Dichloropropane	1000	890	89	10 - 210	
cis-1,3-Dichloropropene	1000	910	91	10 - 227	
Trichloroethene	1000	890	89	70 - 131	
Dibromochloromethane	1000	890	89	53 - 149	
1,1,2-Trichloroethane	1000	870	87	52 - 150	
Benzene	1000	860	86	75 - 129	
trans-1,3-Dichloropropene	1000	860	86	17 - 183	
Bromoform	1000	800	80	45 - 169	
4-Methyl-2-pentanone (MIB)	1000	770	77*	90 - 125	a
2-Hexanone	1000	900	90	87 - 129	
Tetrachloroethene	1000	850	85	68 - 136	
1,1,2,2-Tetrachloroethane	1000	820	82	46 - 157	
Toluene	1000	860	86	71 - 130	
Chlorobenzene	1000	890	89	75 - 127	
Ethylbenzene	1000	870	87	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G130000

WO #: DG5LV103

BATCH: 0195367

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Styrene	1000	870	87	79 - 100	
Xylenes (total)	3000	2700	89	83 - 129	
cis-1,2-Dichloroethene	1000	840	84	50 - 150	
trans-1,2-Dichloroethene	1000	740	74	54 - 156	
n-Hexane	1000	950	95*	98 - 117	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGCJD102

BATCH: 0199511

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	50	49	98	10 - 273	
Bromomethane	50	55	111	10 - 242	
Vinyl chloride	50	50	99	41 - 138	
Chloroethane	50	64	128*	82 - 114	a
Methylene chloride	50	48	95	10 - 221	
Acetone	50	95	191*	80 - 120	a
Carbon disulfide	50	52	104	81 - 125	
1,1-Dichloroethene	50	56	112	55 - 142	
1,1-Dichloroethane	50	51	103	59 - 155	
1,2-Dichloroethene (total)	100	98	98	50 - 150	
Chloroform	50	51	102	77 - 126	
1,2-Dichloroethane	50	50	99	76 - 127	
2-Butanone (MEK)	50	88	175*	20 - 155	a
1,1,1-Trichloroethane	50	50	100	52 - 162	
Carbon tetrachloride	50	50	101	66 - 141	
Bromodichloromethane	50	50	99	35 - 155	
1,2-Dichloropropane	50	48	97	10 - 210	
cis-1,3-Dichloropropene	50	49	99	10 - 227	
Trichloroethene	50	50	100	70 - 131	
Dibromochloromethane	50	48	96	53 - 149	
1,1,2-Trichloroethane	50	46	92	52 - 150	
Benzene	50	49	98	75 - 129	
trans-1,3-Dichloropropene	50	49	98	17 - 183	
Bromoform	50	45	90	45 - 169	
4-Methyl-2-pentanone (MIB)	50	53	105	90 - 125	
2-Hexanone	50	76	151*	87 - 129	a
Tetrachloroethene	50	50	99	68 - 136	
1,1,2,2-Tetrachloroethane	50	50	100	46 - 157	
Toluene	50	49	98	71 - 130	
Chlorobenzene	50	49	97	75 - 127	
Ethylbenzene	50	48	97	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGCJD102

BATCH: 0199511

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Styrene	50	47	94	79 - 100	
Xylenes (total)	150	140	96	83 - 129	
cis-1,2-Dichloroethene	50	49	97	50 - 150	
trans-1,2-Dichloroethene	50	49	99	54 - 156	
n-Hexane	50	75	150*	98 - 117	a

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 5 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: A0G170000

WO #: DGCJD103

BATCH: 0199511

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Chloromethane	50	51	103	10 - 273	
Bromomethane	50	57	115	10 - 242	
Vinyl chloride	50	52	104	41 - 138	
Chloroethane	50	66	132*	82 - 114	a
Methylene chloride	50	49	99	10 - 221	
Acetone	50	95	190*	80 - 120	a
Carbon disulfide	50	54	107	81 - 125	
1,1-Dichloroethene	50	59	117	55 - 142	
1,1-Dichloroethane	50	52	105	59 - 155	
1,2-Dichloroethene (total)	100	100	101	50 - 150	
Chloroform	50	52	105	77 - 126	
1,2-Dichloroethane	50	51	102	76 - 127	
2-Butanone (MEK)	50	89	178*	20 - 155	a
1,1,1-Trichloroethane	50	52	103	52 - 162	
Carbon tetrachloride	50	52	104	66 - 141	
Bromodichloromethane	50	51	101	35 - 155	
1,2-Dichloropropane	50	50	99	10 - 210	
cis-1,3-Dichloropropene	50	51	101	10 - 227	
Benzene	50	50	101	75 - 129	
trans-1,3-Dichloropropene	50	50	100	17 - 183	
Trichloroethene	50	51	102	70 - 131	
Dibromochloromethane	50	49	99	53 - 149	
1,1,2-Trichloroethane	50	48	95	52 - 150	
Bromoform	50	47	93	45 - 169	
4-Methyl-2-pentanone (MIB)	50	54	108	90 - 125	
2-Hexanone	50	79	157*	87 - 129	a
Tetrachloroethene	50	51	102	68 - 136	
1,1,2,2-Tetrachloroethane	50	51	101	46 - 157	
Toluene	50	50	100	71 - 130	
Chlorobenzene	50	50	100	75 - 127	
Ethylbenzene	50	50	100	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP015

Lot #: AOG170000

WO #: DGCJD103

BATCH: 0199511

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	‡ REC	QC LIMITS REC	QUAL
Styrene	50	48	97	79 - 100	
Xylenes (total)	150	150	99	83 - 129	
cis-1,2-Dichloroethene	50	50	101	50 - 150	
trans-1,2-Dichloroethene	50	51	102	54 - 156	
n-Hexane	50	78	155*	98 - 117	a

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 5 out of 36 outside limits

COMMENTS:

FORM III

CLIENT NS Mayport	JOB NUMBER		
SUBJECT Sample Calc.			
BASED ON MPT-G4-SU-26-05 (DFRAX102)		DRAWING NUMBER	
BY Douglas S Schlar	CHECKED BY	APPROVED BY	DATE 10/2/00

Fraction: Volatile

Matrix: Medium Level Soil

Compound: Acetone

Form I: 240 $\mu\text{g}/\text{kg}$

$$\mu\text{g}/\text{kg} = \frac{A_x (I_s \times V_e \times D_f)}{A_{is} (\overline{RRF} \times V_a \times W_s \times D)}$$

$A_x = 551 \text{ Area}$

$I_s = 250 \text{ ng}$

$V_e = 5000 \text{ ul}$

$D_f = 1$

$A_{is} = 127325 \text{ Area}$

$\overline{RRF} = 0.05195$

$V_a = 100.0 \text{ ml}$

$W_s = 4.78 \text{ g}$

$D = 0.919$

$$\begin{aligned} \mu\text{g}/\text{kg} &= \frac{551 \text{ Area} (250 \text{ ng}) (5000 \text{ ul}) (1)}{(127325 \text{ Area}) (0.05195) (100.0 \text{ ml}) (4.78 \text{ g}) (0.919)} \\ &= 237.03 \text{ ng/g or } \mu\text{g}/\text{kg} \end{aligned}$$

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3i503.i/X00712A.b/VOX3231.d
 Lab Smp Id: DFRAX102 Client Smp ID: MPT-G4-SU-26-05
 Inj Date : 13-JUL-2000 00:04
 Operator : 1904 Inst ID: a3i503.i
 Smp Info : DFRAX102,,100UL/5ML,2,100
 Misc Info : INCOS50-3,X00712A,8260S503-3,1904
 Comment :
 Method : /chem/can/msv/a3i503.i/X00712A.b/8260S503-3.m
 Meth Date : 13-Jul-2000 10:47 quayler Quant Type: ISTD
 Cal Date : 06-JUN-2000 14:24 Cal File: VOX2168.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260+A9.sub
 Target Version: 3.50
 Processing Host: hpuxcs3

Concentration Formula: $Amt * DF * 1/Va * Vt / Ws * 100 / (100 - M) * CpndVariable$
 Va 100.00000 Amount of extract
 Vt 5000.00000 Final extraction volume
 Ws 4.78000 Soil amount extracted
 M 0.00000 Percent Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng)	FINAL (UG/KG)	
* 1 Fluorobenzene	96	8.341	8.356	(1.000)	127325	250.000		
* 2 Chlorobenzene-d5	117	13.878	13.893	(1.000)	119032	250.000		
* 3 1,4-Dichlorobenzene-d4	152	18.986	19.015	(1.000)	77175	250.000		
\$ 4 1,2-Dichloroethane-d4	65	7.812	7.840	(0.937)	29507	207.367	2169.1	
\$ 5 Toluene-d8	98	11.060	11.088	(0.797)	88505	208.608	2182.1	
\$ 6 Bromofluorobenzene	95	16.396	16.411	(1.181)	70635	203.227	2125.8	
\$ 7 Dibromofluoromethane	113	7.297	7.325	(0.875)	53484	220.723	2308.8	
8 Dichlorodifluoromethane	85	Compound Not Detected.						
9 Chloromethane	50	Compound Not Detected.						
10 Vinyl Chloride	62	Compound Not Detected.						
11 Bromomethane	94	Compound Not Detected.						
12 Chloroethane	64	Compound Not Detected.						
13 Trichlorofluoromethane	101	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 1,1-Dichloroethene	96	Compound Not Detected.						
15 Acetone	43	4.321	4.335	(0.518)	551	20.8247	217.83	
54 Freon-113	151	Compound Not Detected.						

Batch # 0195249 -4c

GC/MS VOA Run Log

Column	BFB	Analysis	Purge & Trap
Type: <u>DB624</u>	<u>100 C for 0.1 min</u>	<u>40 C for 2 min</u>	Trap: <u>10</u>
Length: <u>25M</u>	to <u>200 C @ 20 C/min</u>	to <u>220 C @ 20 C/min</u>	Purge: <u>11</u>
I.D. <u>0.53 mm</u>	Hold <u>1 min</u>	to <u>230 C @ 50 C/min</u>	Desorb: <u>2 min @ 100 C</u>
Flow Rate <u>1.5 mL/min</u>		Hold <u>1 min</u>	Bake: <u>2 min @ 220 C</u>

Auto num	Sample ID / Workorder	Method	File Name	Amplified	Sample prep	Comments	Sample status	Lab 2 Review
	BFB		BFB481X	Sens	24-1-25	(1533)	OK	TS
1	FL60 STB		VOX3214	100ul			OK	
2			VOX3215	500ul			OK	
3			VOX3216	25ul		100606 XTP 1/20	OK	
4			VOX3217	100ul		V00712-X	OK	
5			VOX3218	25ul			OK	
6	IGAL CL		VOX3219	25ul		ACETONE + MCA T	OK	
7	APP. IX STB		VOX3220	250ul		4/6	OK	
8	D60AT102 MLCHECK	4c	21	100ul			OK	
9	D650J102 MLCHECK		22				OK	
10	D652J101 MLCHECK		23				OK	
11	DFM3F102	(4.72)	24	100ul			OK	
12	DFN4G102	(4.65)	25	100ul			OK	
13	DFN47102	(5.25)	26	2.5ul			OK	
14	DFN4D102	(4.32)	27	2ul			OK	
15	(D65W102) MLCHECK	4c	28	100ul	7.7-00	0195367	OK	
16	(D65LV103) MLCHECK		29				OK	
17	(D65W101) MLCHECK		30				OK	
18	DFRAX102	(4.78)	31	100ul			OK	
19	DFUTJ102		32	100ul		2-5352	OK	
20	DFV6A102		33			(TIC's)	OK	
21	DFV6E102		34				OK	
22	DFWAG102	(6.2)	35			(TIC's) (0195360)	OK	
23	D60JC101		VOX3236	100ul		SELECTED	OK	
24	D60JB101		VOX3237				OK	

TIC 7-13-00

Analyst: PEO

No 066

N:MSVOA1503 run log

SDG NARRATIVE MP015

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples MPT-G4-SU-26-05, MPT-G4-SU-28-05, MPT-G4-SU-31-08, MPT-G4-SU-DU02 and MPT-G4-SU-34-05 had elevated reporting limits due to sample matrix.

Holding Time Violations

Samples MPT-G4-SU-18-08 and MPT-G4-SU-21-07 had surrogate recoveries outside acceptance limits. Upon re-extraction and reanalysis, all surrogates were within acceptance limits; however, recommended holding time had been exceeded.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

Due to high analyte concentrations or matrix interference, the MS/MSD for batch 0192232 was analyzed at a dilution. No corrective action is required for dilutions.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFQGR101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: DFQGR101.

Lot Number: A0G020104

Date Analyzed: 07/14/00

Time Analyzed: 10:27

Matrix: SOLID

Date Extracted:07/07/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3550B

Instrument ID: HP6

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DFM66105	DFM66105.	07/14/00 15:59
02	LAB MS/MSD	DFM66106 S	DFM66106.	07/14/00 16:36
03	LAB MS/MSD	DFM66107 D	DFM66107.	07/14/00 17:13
04	INTRA-LAB QC	DFNFH105	DFNFH105.	07/15/00 09:20
05	LAB MS/MSD	DFNFH106 S	DFNFH106.	07/15/00 09:57
06	LAB MS/MSD	DFNFH107 D	DFNFH107.	07/15/00 10:34
07	MPT-G4-SU-18-08	DFN4210W	DFN4210W.	07/14/00 12:18
08	MPT-G4-SU-19-10	DFN4310W	DFN4310W.	07/14/00 12:55
09	MPT-G4-SU-20-10	DFN4410W	DFN4410W.	07/14/00 13:32
10	MPT-G4-SU-21-07	DFN4510W	DFN4510W.	07/14/00 14:09
11	MPT-G4-SU-22-08	DFN4610W	DFN4610W.	07/14/00 14:46
12	MPT-G4-SU-23-08	DFN4710W	DFN4710W.	07/14/00 15:22
13	CHECK SAMPLE	DFQGR102 C	DFQGR102.	07/14/00 11:04
14				
15				
16				
17				
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22				
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29				
30				

COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G060000 270

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFQGR101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0188270

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	330		U
208-96-8	Acenaphthylene	330		U
98-86-2	Acetophenone	330		U
53-96-3	2-Acetylaminofluorene	3300		U
92-67-1	4-Aminobiphenyl	1600		U
62-53-3	Aniline	330		U
120-12-7	Anthracene	330		U
56-55-3	Benzo(a)anthracene	330		U
205-99-2	Benzo(b)fluoranthene	330		U
207-08-9	Benzo(k)fluoranthene	330		U
191-24-2	Benzo(ghi)perylene	330		U
50-32-8	Benzo(a)pyrene	330		U
100-51-6	Benzyl alcohol	330		U
111-91-1	bis(2-Chloroethoxy)methane	330		U
111-44-4	bis(2-Chloroethyl) ether	330		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330		U
117-81-7	bis(2-Ethylhexyl) phthalate	330		U
101-55-3	4-Bromophenyl phenyl ether	330		U
85-68-7	Butyl benzyl phthalate	330		U
106-47-8	4-Chloroaniline	330		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-58-7	2-Chloronaphthalene	330		U
95-57-8	2-Chlorophenol	330		U
7005-72-3	4-Chlorophenyl phenyl ether	330		U
218-01-9	Chrysene	330		U
2303-16-4	Diallate	660		U
53-70-3	Dibenz(a,h)anthracene	330		U
132-64-9	Dibenzofuran	330		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G060000 270

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFQGR101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0188270

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	330		U
95-50-1	1,2-Dichlorobenzene	330		U
541-73-1	1,3-Dichlorobenzene	330		U
106-46-7	1,4-Dichlorobenzene	330		U
91-94-1	3,3'-Dichlorobenzidine	1600		U
120-83-2	2,4-Dichlorophenol	330		U
87-65-0	2,6-Dichlorophenol	330		U
84-66-2	Diethyl phthalate	330		U
60-11-7	p-Dimethylaminoazobenzene	660		U
57-97-6	7,12-Dimethylbenz(a)anthrace	660		U
119-93-7	3,3'-Dimethylbenzidine	1600		U
105-67-9	2,4-Dimethylphenol	330		U
131-11-3	Dimethyl phthalate	330		U
117-84-0	Di-n-octyl phthalate	330		U
99-65-0	1,3-Dinitrobenzene	330		U
534-52-1	4,6-Dinitro-2-methylphenol	1600		U
51-28-5	2,4-Dinitrophenol	1600		U
121-14-2	2,4-Dinitrotoluene	330		U
606-20-2	2,6-Dinitrotoluene	330		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	660		U
123-91-1	1,4-Dioxane	330		U
122-39-4	Diphenylamine	330		U
62-50-0	Ethyl methanesulfonate	330		U
206-44-0	Fluoranthene	330		U
86-73-7	Fluorene	330		U
118-74-1	Hexachlorobenzene	330		U
87-68-3	Hexachlorobutadiene	330		U
77-47-4	Hexachlorocyclopentadiene	1600		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G060000 270

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFQGR101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0188270

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	330		U
1888-71-7	Hexachloropropene	3300		U
193-39-5	Indeno (1,2,3-cd) pyrene	330		U
78-59-1	Isophorone	330		U
120-58-1	Isosafrole	660		U
91-80-5	Methapyrilene	1600		U
95-53-4	o-Toluidine	660		U
56-49-5	3-Methylcholanthrene	660		U
66-27-3	Methyl methanesulfonate	330		U
91-57-6	2-Methylnaphthalene	330		U
95-48-7	2-Methylphenol	330		U
108-39-4	3-Methylphenol	330		U
106-44-5	4-Methylphenol	330		U
91-20-3	Naphthalene	330		U
130-15-4	1,4-Naphthoquinone	1600		U
134-32-7	1-Naphthylamine	330		U
91-59-8	2-Naphthylamine	330		U
88-74-4	2-Nitroaniline	1600		U
99-09-2	3-Nitroaniline	1600		U
100-01-6	4-Nitroaniline	1600		U
98-95-3	Nitrobenzene	330		U
88-75-5	2-Nitrophenol	330		U
100-02-7	4-Nitrophenol	1600		U
56-57-5	4-Nitroquinoline-1-oxide	3300		U
924-16-3	N-Nitrosodi-n-butylamine	330		U
55-18-5	N-Nitrosodiethylamine	330		U
62-75-9	N-Nitrosodimethylamine	330		U
621-64-7	N-Nitrosodi-n-propylamine	330		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: AOG060000 270

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 06/30/00
Work Order: DFQGR101 Date Extracted: 07/07/00
Dilution factor: 1 Date Analyzed: 07/14/00
Moisture %: NA

QC Batch: 0188270

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	330		U
10595-95-6	N-Nitrosomethylethylamine	330		U
59-89-2	N-Nitrosomorpholine	330		U
100-75-4	N-Nitrosopiperidine	330		U
930-55-2	N-Nitrosopyrrolidine	330		U
99-55-8	5-Nitro-o-toluidine	660		U
608-93-5	Pentachlorobenzene	330		U
76-01-7	Pentachloroethane	1600		U
82-68-8	Pentachloronitrobenzene	1600		U
87-86-5	Pentachlorophenol	1600		U
62-44-2	Phenacetin	660		U
85-01-8	Phenanthrene	330		U
108-95-2	Phenol	330		U
106-50-3	p-Phenylene diamine	3300		U
109-06-8	2-Picoline	660		U
23950-58-5	Pronamide	660		U
129-00-0	Pyrene	330		U
110-86-1	Pyridine	660		U
94-59-7	Safrole	660		U
95-94-3	1,2,4,5-Tetrachlorobenzene	330		U
58-90-2	2,3,4,6-Tetrachlorophenol	1600		U
120-82-1	1,2,4-Trichlorobenzene	330		U
95-95-4	2,4,5-Trichlorophenol	330		U
88-06-2	2,4,6-Trichlorophenol	330		U
99-35-4	1,3,5-Trinitrobenzene	1600		U
86-74-8	Carbazole	330		U
510-15-6	Chlorobenzilate	330		U
122-09-8	a,a-Dimethylphenethylamine	1600		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G060000 270

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 06/30/00

Work Order: DFQGR101

Date Extracted: 07/07/00

Dilution factor: 1

Date Analyzed: 07/14/00

Moisture %: NA

QC Batch: 0188270

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	660	U

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DG9CD101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: DG9CD101.

Lot Number: A0G020104

Date Analyzed: 07/19/00

Time Analyzed: 16:33

Matrix: SOLID

Date Extracted:07/17/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3540C

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-G4-SU-18-08	DFN4220W	DFN4220W.	07/19/00	17:47
02	MPT-G4-SU-21-07	DFN4520W	DFN4520W.	07/19/00	18:24
03	INTRA-LAB QC	DG7PE10E	DG7PE10E.	07/19/00	19:01
04	LAB MS/MSD	DG7PE10F S	DG7PE10F.	07/19/00	19:38
05	LAB MS/MSD	DG7PE10G D	DG7PE10G.	07/19/00	20:15
06	CHECK SAMPLE	DG9CD102 C	DG9CD102.	07/19/00	17:10
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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18					
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29					
30					

COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G150000 094

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DG9CD101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: NA

QC Batch: 0197094

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	330		U
208-96-8	Acenaphthylene	330		U
98-86-2	Acetophenone	330		U
53-96-3	2-Acetylaminofluorene	3300		U
92-67-1	4-Aminobiphenyl	1600		U
62-53-3	Aniline	330		U
120-12-7	Anthracene	330		U
56-55-3	Benzo (a) anthracene	330		U
205-99-2	Benzo (b) fluoranthene	330		U
207-08-9	Benzo (k) fluoranthene	330		U
191-24-2	Benzo (ghi) perylene	330		U
50-32-8	Benzo (a) pyrene	330		U
100-51-6	Benzyl alcohol	330		U
111-91-1	bis (2-Chloroethoxy) methane	330		U
111-44-4	bis (2-Chloroethyl) ether	330		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	330		U
117-81-7	bis (2-Ethylhexyl) phthalate	330		U
101-55-3	4-Bromophenyl phenyl ether	330		U
85-68-7	Butyl benzyl phthalate	330		U
106-47-8	4-Chloroaniline	330		U
59-50-7	4-Chloro-3-methylphenol	330		U
91-58-7	2-Chloronaphthalene	330		U
95-57-8	2-Chlorophenol	330		U
7005-72-3	4-Chlorophenyl phenyl ether	330		U
218-01-9	Chrysene	330		U
2303-16-4	Diallate	660		U
53-70-3	Dibenz (a, h) anthracene	330		U
132-64-9	Dibenzofuran	330		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G150000 094

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DG9CD101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: NA

QC Batch: 0197094

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
84-74-2	Di-n-butyl phthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
120-83-2	2,4-Dichlorophenol	330	U
87-65-0	2,6-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
60-11-7	p-Dimethylaminoazobenzene	660	U
57-97-6	7,12-Dimethylbenz(a)anthrace	660	U
119-93-7	3,3'-Dimethylbenzidine	1600	U
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
99-65-0	1,3-Dinitrobenzene	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	660	U
123-91-1	1,4-Dioxane	330	U
122-39-4	Diphenylamine	330	U
62-50-0	Ethyl methanesulfonate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G150000 094
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/01/00
Work Order: DG9CD101 Date Extracted: 07/17/00
Dilution factor: 1 Date Analyzed: 07/19/00
Moisture %: NA

QC Batch: 0197094

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	330		U
1888-71-7	Hexachloropropene	3300		U
193-39-5	Indeno (1,2,3-cd) pyrene	330		U
78-59-1	Isophorone	330		U
120-58-1	Isosafrole	660		U
91-80-5	Methapyrilene	1600		U
95-53-4	o-Toluidine	660		U
56-49-5	3-Methylcholanthrene	660		U
66-27-3	Methyl methanesulfonate	330		U
91-57-6	2-Methylnaphthalene	330		U
95-48-7	2-Methylphenol	330		U
108-39-4	3-Methylphenol	330		U
106-44-5	4-Methylphenol	330		U
91-20-3	Naphthalene	330		U
130-15-4	1,4-Naphthoquinone	1600		U
134-32-7	1-Naphthylamine	330		U
91-59-8	2-Naphthylamine	330		U
88-74-4	2-Nitroaniline	1600		U
99-09-2	3-Nitroaniline	1600		U
100-01-6	4-Nitroaniline	1600		U
98-95-3	Nitrobenzene	330		U
88-75-5	2-Nitrophenol	330		U
100-02-7	4-Nitrophenol	1600		U
56-57-5	4-Nitroquinoline-1-oxide	3300		U
924-16-3	N-Nitrosodi-n-butylamine	330		U
55-18-5	N-Nitrosodiethylamine	330		U
62-75-9	N-Nitrosodimethylamine	330		U
621-64-7	N-Nitrosodi-n-propylamine	330		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G150000 094
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/01/00
Work Order: DG9CD101 Date Extracted: 07/17/00
Dilution factor: 1 Date Analyzed: 07/19/00
Moisture %: NA

QC Batch: 0197094

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	330	U
10595-95-6	N-Nitrosomethylethylamine	330	U
59-89-2	N-Nitrosomorpholine	330	U
100-75-4	N-Nitrosopiperidine	330	U
930-55-2	N-Nitrosopyrrolidine	330	U
99-55-8	5-Nitro-o-toluidine	660	U
608-93-5	Pentachlorobenzene	330	U
76-01-7	Pentachloroethane	1600	U
82-68-8	Pentachloronitrobenzene	1600	U
87-86-5	Pentachlorophenol	1600	U
62-44-2	Phenacetin	660	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
106-50-3	p-Phenylene diamine	3300	U
109-06-8	2-Picoline	660	U
23950-58-5	Pronamide	660	U
129-00-0	Pyrene	330	U
110-86-1	Pyridine	660	U
94-59-7	Safrole	660	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	1600	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
99-35-4	1,3,5-Trinitrobenzene	1600	U
86-74-8	Carbazole	330	U
510-15-6	Chlorobenzilate	330	U
122-09-8	a, a-Dimethylphenethylamine	1600	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: A0G150000 094

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/01/00

Work Order: DG9CD101

Date Extracted: 07/17/00

Dilution factor: 1

Date Analyzed: 07/19/00

Moisture %: NA

QC Batch: 0197094

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	660		U

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFXGC101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: DFXGC101.

Lot Number: A0G070231

Date Analyzed: 07/24/00

Time Analyzed: 10:05

Matrix: SOLID

Date Extracted:07/11/00

GC Column: DB .625 ID: .32

Extraction Method: 3550B

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 MPT-G4-SU-28-05	DFV5X10W	DFV5X10W.	07/21/00	15:40
02 MPT-G4-SU-28-05	DFV5X12N S	DFV5X12N.	07/21/00	16:16
03 MPT-G4-SU-28-05	DFV5X12P D	DFV5X12P.	07/21/00	16:53
04 MPT-G4-SU-31-08	DFV6A10W	DFV6A10W.	07/24/00	20:26
05 MPT-G4-SU-32-07	DFV6D10W	DFV6D10W.	07/24/00	16:47
06 MPT-G4-SU-DU02	DFV6E10W	DFV6E10W.	07/24/00	19:49
07 MPT-G4-SU-33-05	DFV6L10W	DFV6L10W.	07/24/00	11:18
08 MPT-G4-SU-29-05	DFV6810W	DFV6810W.	07/21/00	18:43
09 MPT-G4-SU-30-07	DFV6910W	DFV6910W.	07/21/00	19:19
10 CHECK SAMPLE	DFXGC102 C	DFXGC102.	07/24/00	10:41
11				
12				
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COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFXGC101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: DFXGC101.

Lot Number: A0G080137

Date Analyzed: 07/24/00

Time Analyzed: 10:05

Matrix: SOLID

Date Extracted:07/11/00

GC Column: DB .625 ID: .32

Extraction Method: 3550B

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DFV5X10W	DFV5X10W.	07/21/00	15:40
02	LAB MS/MSD	DFV5X12N S	DFV5X12N.	07/21/00	16:16
03	LAB MS/MSD	DFV5X12P D	DFV5X12P.	07/21/00	16:53
04	MPT-G4-SU-34-05	DFWAG10W	DFWAG10W.	07/25/00	18:22
05	MPT-G4-SU-35-05	DFWAK10W	DFWAK10W.	07/25/00	17:09
06	MPT-G4-SU-37-05	DFWAL10W	DFWAL10W.	07/25/00	17:46
07	CHECK SAMPLE	DFXGC102 C	DFXGC102.	07/24/00	10:41
08					
09					
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COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFXGC101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP015

Lab File ID: DFXGC101.

Lot Number: A0G060209

Date Analyzed: 07/24/00.

Time Analyzed: 10:05

Matrix: SOLID

Date Extracted:07/11/00

GC Column: DB .625 ID: .32

Extraction Method: 3550B

Instrument ID: HP9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 MPT-G4-SU-24-08	DFRAK10W	DFRAK10W.	07/21/00	14:26
02 MPT-G4-SU-25-05	DFRAW10W	DFRAW10W.	07/21/00	15:03
03 MPT-G4-SU-26-05	DFRAX10W	DFRAX10W.	07/21/00	17:30
04 MPT-G4-SU-27-07	DFRC110W	DFRC110W.	07/25/00	11:39
05 INTRA-LAB QC	DFV5X10W	DFV5X10W.	07/21/00	15:40
06 LAB MS/MSD	DFV5X12N S	DFV5X12N.	07/21/00	16:16
07 LAB MS/MSD	DFV5X12P D	DFV5X12P.	07/21/00	16:53
08 CHECK SAMPLE	DFXGC102 C	DFXGC102.	07/24/00	10:41
09				
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G100000 232
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFXGC101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0192232

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
98-86-2	Acetophenone	330	U
53-96-3	2-Acetylaminofluorene	3300	U
92-67-1	4-Aminobiphenyl	1600	U
62-53-3	Aniline	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
100-51-6	Benzyl alcohol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
2303-16-4	Diallate	660	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G100000 232
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFXGC101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0192232

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
120-83-2	2,4-Dichlorophenol	330	U
87-65-0	2,6-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
60-11-7	p-Dimethylaminoazobenzene	660	U
57-97-6	7,12-Dimethylbenz(a)anthracene	660	U
119-93-7	3,3'-Dimethylbenzidine	1600	U
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
99-65-0	1,3-Dinitrobenzene	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	660	U
123-91-1	1,4-Dioxane	330	U
122-39-4	Diphenylamine	330	U
62-50-0	Ethyl methanesulfonate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015

Matrix: (soil/water) SOLID Lab Sample ID: A0G100000 232
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFXGC101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0192232

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	330		U
1888-71-7	Hexachloropropene	3300		U
193-39-5	Indeno (1,2,3-cd) pyrene	330		U
78-59-1	Isophorone	330		U
120-58-1	Isosafrole	660		U
91-80-5	Methapyrilene	1600		U
95-53-4	o-Toluidine	660		U
56-49-5	3-Methylcholanthrene	660		U
66-27-3	Methyl methanesulfonate	330		U
91-57-6	2-Methylnaphthalene	330		U
95-48-7	2-Methylphenol	330		U
108-39-4	3-Methylphenol	330		U
106-44-5	4-Methylphenol	330		U
91-20-3	Naphthalene	330		U
130-15-4	1,4-Naphthoquinone	1600		U
134-32-7	1-Naphthylamine	330		U
91-59-8	2-Naphthylamine	330		U
88-74-4	2-Nitroaniline	1600		U
99-09-2	3-Nitroaniline	1600		U
100-01-6	4-Nitroaniline	1600		U
98-95-3	Nitrobenzene	330		U
88-75-5	2-Nitrophenol	330		U
100-02-7	4-Nitrophenol	1600		U
56-57-5	4-Nitroquinoline-1-oxide	3300		U
924-16-3	N-Nitrosodi-n-butylamine	330		U
55-18-5	N-Nitrosodiethylamine	330		U
62-75-9	N-Nitrosodimethylamine	330		U
621-64-7	N-Nitrosodi-n-propylamine	330		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP015

Matrix: (soil/water) SOLID

Lab Sample ID: AOG100000 232

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/06/00

Work Order: DFXGC101

Date Extracted: 07/11/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: NA

QC Batch: 0192232

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	330		U
10595-95-6	N-Nitrosomethylethylamine	330		U
59-89-2	N-Nitrosomorpholine	330		U
100-75-4	N-Nitrosopiperidine	330		U
930-55-2	N-Nitrosopyrrolidine	330		U
99-55-8	5-Nitro-o-toluidine	660		U
608-93-5	Pentachlorobenzene	330		U
76-01-7	Pentachloroethane	1600		U
82-68-8	Pentachloronitrobenzene	1600		U
87-86-5	Pentachlorophenol	1600		U
62-44-2	Phenacetin	660		U
85-01-8	Phenanthrene	330		U
108-95-2	Phenol	330		U
106-50-3	p-Phenylene diamine	3300		U
109-06-8	2-Picoline	660		U
23950-58-5	Pronamide	660		U
129-00-0	Pyrene	330		U
110-86-1	Pyridine	660		U
94-59-7	Safrole	660		U
95-94-3	1,2,4,5-Tetrachlorobenzene	330		U
58-90-2	2,3,4,6-Tetrachlorophenol	1600		U
120-82-1	1,2,4-Trichlorobenzene	330		U
95-95-4	2,4,5-Trichlorophenol	330		U
88-06-2	2,4,6-Trichlorophenol	330		U
99-35-4	1,3,5-Trinitrobenzene	1600		U
86-74-8	Carbazole	330		U
510-15-6	Chlorobenzilate	330		U
122-09-8	a,a-Dimethylphenethylamine	1600		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP015
Matrix: (soil/water) SOLID Lab Sample ID: A0G100000 232
Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/06/00
Work Order: DFXGC101 Date Extracted: 07/11/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0192232

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	660		U

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP015

Lot #: A0G060209

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	MPT-G4-SU-24-08	86	77	93	80	81	76	00
02	MPT-G4-SU-25-05	96	86	105	88	90	85	00
03	MPT-G4-SU-26-05	84 D	87 D	100D	76 D	76 D	58 D	00
04	MPT-G4-SU-27-07	108	97	109	80	18	12 *	01
05	INTRA-LAB QC	91 D	94 D	96 D	74 D	73 D	77 D	00
06	METHOD BLK. DFXGC101	96	82	99	85	87	83	00
07	LCS DFXGC102	94	82	89	89	89	87	00
08	LAB MS/MSD D	101D	92 D	101D	86 D	76 D	79 D	00
09	LAB MS/MSD S	100D	88 D	98 D	78 D	74 D	75 D	00

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = Phenol-d5
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(42-110)
 (43-110)
 (37-137)
 (25-115)
 (11-116)
 (35-116)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP015

Lot #: A0G020104

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	MPT-G4-SU-18-08 RE-1	83	85	97	87	80	79	00
02	MPT-G4-SU-21-07 RE-1	63	64	73	66	61	42	00
03	INTRA-LAB QC	77	80	96	83	74	78	00
04	METHOD BLK. DG9CD101	95	93	106	96	88	90	00
05	LCS DG9CD102	74	73	81	78	71	61	00
06	LAB MS/MSD D	81	80	90	83	77	85	00
07	LAB MS/MSD S	75	74	88	78	72	82	00
08	INTRA-LAB QC	90	80	116	88	90	69	00
09	INTRA-LAB QC	89	77	119	88	87	71	00
10	MPT-G4-SU-18-08	5.3*	4.6*	6.1*	5.5*	5.7*	2.1*	06
11	MPT-G4-SU-19-10	98	86	116	95	98	67	00
12	MPT-G4-SU-20-10	101	89	112	101	105	74	00
13	MPT-G4-SU-21-07	14 *	13 *	16 *	14 *	15	7.7*	05
14	MPT-G4-SU-22-08	93	81	105	92	95	66	00
15	MPT-G4-SU-23-08	90	78	102	87	90	66	00
16	METHOD BLK. DFOGR101	106	94	123	102	106	94	00
17	LCS DFOGR102	85	74	78	85	87	77	00
18	LAB MS/MSD D	89	77	89	88	89	79	00
19	LAB MS/MSD D	101	90	117	98	95	99	00
20	LAB MS/MSD S	18 *	15 *	19 *	18 *	18	13 *	05
21	LAB MS/MSD S	97	80	99	94	94	87	00

*USE Recovery H₂
w/US) H*

SURROGATES

SRG01	= Nitrobenzene-d5
SRG02	= 2-Fluorobiphenyl
SRG03	= Terphenyl-d14
SRG04	= Phenol-d5
SRG05	= 2-Fluorophenol
SRG06	= 2,4,6-Tribromophenol

QC LIMITS

(42-110)
(43-110)
(37-137)
(25-115)
(11-116)
(35-116)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 9DF0710A

DFTPP Injection Date: 07/10/00

Instrument ID: A4HP9

DFTPP Injection Time: 0832

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.3
68	Less than 2.0% of mass 69	0.6 (1.2)1
69	Mass 69 relative abundance	56.0
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	52.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.0% of mass 198	3.0
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	59.7
443	17.0 - 23.0% of mass 442	11.7 (19.7)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD002	SSTD002	9AL0710	07/10/00	1130
02	SSTD005	SSTD005	9AML0710	07/10/00	1208
03	SSTD008	SSTD008	9AM0710	07/10/00	1245
04	SSTD012	SSTD012	9AMH0710	07/10/00	1323
05	SSTD016	SSTD016	9AH0710	07/10/00	1401
06	SSTD020	SSTD020	9AHH0710	07/10/00	1439
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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 9DF0717A

DFTPP Injection Date: 07/17/00

Instrument ID: A4HP9

DFTPP Injection Time: 1140

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.7 (1.2)1
69	Mass 69 relative abundance	54.4
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	52.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than mass 443	9.6
442	Greater than 40.0% of mass 198	57.7
443	17.0 - 23.0% of mass 442	11.0 (19.0)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	9SM0717	07/17/00	1204
02	SSTD004	SSTD004	9SL0717	07/17/00	1241
03	SSTD010	SSTD010	9SML0717	07/17/00	1318
04	SSTD024	SSTD024	9SMH0717	07/17/00	1355
05	SSTD032	SSTD032	9SH0717	07/17/00	1432
06	SSTD040	SSTD040	9SHH0717	07/17/00	1509
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20					
21					
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STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SL0717.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SML0717.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SM0717.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SMH0717.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SH0717.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\9SHH0717.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	RSD
198 1,4-Dioxane	0.93366	0.89733	0.86426	0.88527	0.84569	0.80259	0.87147	5.180
7 N-Nitrosomorpholine	1.04861	1.05866	0.98106	0.96443	0.91806	0.88247	0.97555	7.156
8 Ethyl methanesulfonate	1.56458	1.53870	1.51060	1.55861	1.52269	1.48999	1.53086	1.874
9 Pyridine	1.40316	1.23735	1.39596	1.23307	1.24082	1.35294	1.31055	6.282
10 N-Nitrosodimethylamine	1.17691	1.18875	1.24848	1.16198	1.19885	1.15335	1.18805	2.861
11 Ethyl methacrylate	1.76958	1.85650	1.77456	1.71065	1.37234	1.34308	1.63779	13.558
12 3-Chloropropionitrile	1.19438	1.21675	1.09770	1.16294	1.16613	1.09140	1.15488	4.395
13 Malononitrile	1.89398	1.98543	1.84526	1.89271	1.90252	1.73823	1.87635	4.343
14 2-Picoline	1.89383	1.97355	1.88158	2.03429	1.97801	1.95009	1.95189	2.921
15 N-Nitrosomethylethylamine	0.95192	0.93985	0.95871	1.00613	0.99337	0.97498	0.97083	2.620
16 Methyl methanesulfonate	1.34330	1.30879	1.18838	1.27282	1.22122	1.18968	1.25403	5.149
18 1,3-Dichloro-2-propanol	2.22860	2.18629	2.15218	2.17329	2.09931	2.07017	2.15164	2.707
19 N-Nitrosodiethylamine	0.90832	0.89241	0.86547	0.87384	0.84954	0.82747	0.86951	3.346
21 Aniline	2.59412	2.69446	2.63534	2.68279	2.79136	2.57525	2.66222	2.961
22 Phenol	2.54822	2.48947	2.43246	2.43081	2.49476	2.28322	2.44649	3.730
23 bis(2-Chloroethyl) ether	1.95676	1.93485	1.85803	1.86478	1.90766	1.73379	1.87598	4.242
24 2-Chlorophenol	1.33347	1.30028	1.28406	1.30944	1.37549	1.26152	1.31071	3.043
25 Pentachloroethane	0.62395	0.59998	0.59391	0.60144	0.59081	0.58373	0.59897	2.308
26 1,3-Dichlorobenzene	1.50622	1.50762	1.45414	1.47930	1.53589	1.45506	1.48971	2.186
27 1,4-Dichlorobenzene	1.50002	1.50268	1.46815	1.48867	1.54079	1.45089	1.49187	2.083
28 1,2-Dichlorobenzene	1.38932	1.37243	1.35627	1.42529	1.52066	1.41935	1.41389	4.149
29 Benzyl Alcohol	1.05538	1.07969	1.05065	1.11785	1.19374	1.07604	1.09556	4.898
30 2-Methylphenol	1.61646	1.54766	1.51515	1.58577	1.64460	1.46757	1.56287	4.212
31 bis(2-Chloroisopropyl) ether	2.42934	2.31706	2.43017	2.14225	2.07712	1.91426	2.21837	9.398
32 N-Nitroso-di-n-propylamine	1.70212	1.60538	1.53112	1.53174	1.56062	1.38729	1.55305	6.656

0.09129
2.44649
= 3.729

STL - North Canton

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 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
M 195 Cresols, total	3.22202	3.11176	3.10064	3.20014	3.34466	2.99427	3.16225	3.817
192 4-Methylphenol	1.60556	1.56410	1.58549	1.61437	1.70006	1.52670	1.59938	3.659
193 3-Methylphenol	1.32482	1.50271	1.45421	1.52131	1.47584	1.45387	1.45546	4.765
34 Hexachloroethane	0.75920	0.76295	0.74995	0.76094	0.77702	0.72758	0.75627	2.188
35 Nitrobenzene	0.69418	0.68568	0.65475	0.62813	0.62559	0.61001	0.64972	5.296
36 N-Nitrosopyrrolidine	0.74504	0.77072	0.74246	0.76012	0.73509	0.72252	0.74599	2.317
37 Acetophenone	2.47478	2.41260	2.40882	2.43764	2.49264	2.23751	2.41067	3.781
39 o-Toluidine	2.02015	2.10787	2.11717	2.16489	2.09757	1.97857	2.08104	3.297
40 N-Nitrosopiperidine	0.21194	0.21088	0.20372	0.21175	0.20677	0.20280	0.20798	1.980
41 Isophorone	1.19678	1.18556	1.18232	1.08777	1.11533	1.06452	1.13871	4.985
42 2-Nitrophenol	0.18175	0.18148	0.18552	0.18555	0.20237	0.19277	0.18824	4.268
43 2,4-Dimethylphenol	0.47597	0.49140	0.48231	0.46537	0.49157	0.46944	0.47934	2.301
44 bis(2-Chloroethoxy)methane	0.64601	0.64781	0.60456	0.60373	0.63090	0.60394	0.62283	3.430
45 O,O,O-Triethyl phosphorothioic	0.21383	0.20469	0.19823	0.20495	0.19877	0.19450	0.20249	3.389
46 2,4-Toluenediamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.35403	0.35531	0.35044	0.34931	0.37237	0.36549	0.35782	2.556
48 2,4-Dichlorophenol	0.29062	0.29642	0.29252	0.28891	0.30686	0.29447	0.29496	2.173
49 Benzoic Acid	0.10867	0.11824	0.13847	0.13244	0.14451	0.13864	0.13016	10.623
50 1,2,4-Trichlorobenzene	0.32306	0.32179	0.32820	0.31557	0.33123	0.32233	0.32370	1.687
51 Naphthalene	1.03587	1.03330	1.02503	1.00940	1.06159	1.03035	1.03259	1.650
52 4-Chloroaniline	0.33996	0.36898	0.35972	0.35805	0.38587	0.37168	0.36404	4.245
53 a,a-Dimethyl-phenethylamine	0.57373	0.93555	1.04402	1.10259	1.08313	1.00187	0.95682	20.589
54 2,6-Dichlorophenol	0.24679	0.26398	0.25271	0.27083	0.25761	0.25615	0.25801	3.278
55 Hexachloropropene	0.18964	0.21320	0.20284	0.22259	0.21552	0.21790	0.21028	5.734
56 Hexachlorobutadiene	0.23010	0.23397	0.22417	0.23052	0.24604	0.23723	0.23367	3.194
57 1,2,3-Trichlorobenzene	0.32500	0.32685	0.32029	0.31674	0.33923	0.32640	0.32575	2.358
58 N-Nitrosodi-n-butylamine	0.37077	0.38268	0.37308	0.37383	0.36223	0.35981	0.37040	2.255
59 4-Chloro-3-Methylphenol	0.40812	0.41156	0.41900	0.40103	0.41639	0.39325	0.40823	2.375
60 p-Phenylene diamine	0.08526	0.11742	0.19465	0.23837	0.26508	0.23234	0.18885	38.209
61 Safrole	0.28888	0.28812	0.27716	0.28362	0.27475	0.27348	0.28100	2.414
62 2-Methylnaphthalene	0.66064	0.66906	0.67024	0.66386	0.70851	0.67888	0.67520	2.587
63 1-Methylnaphthalene	0.66838	0.67959	0.67528	0.67680	0.72070	0.68645	0.68453	2.727
64 Hexachlorocyclopentadiene	0.25265	0.28330	0.29814	0.30213	0.37256	0.34342	0.30870	13.914

STL - North Canton
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 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	† RSD
65 1,2,4,5-Tetrachlorobenzene	0.58490	0.54080	0.54346	0.55790	0.53606	0.53118	0.54905	3.598
66 2,4,6-Trichlorophenol	0.36753	0.38549	0.37403	0.37614	0.44204	0.38589	0.38852	6.986
67 2,4,5-Trichlorophenol	0.35998	0.38381	0.36834	0.36872	0.39647	0.37836	0.37594	3.476
68 1,2,3,5-Tetrachlorobenzene	0.57024	0.55842	0.55898	0.56806	0.65505	0.60355	0.58572	6.450
69 1,4-Dinitrobenzene	0.12236	0.16354	0.17100	0.18402	0.17292	0.17758	0.16523	13.364
70 2-Chloronaphthalene	1.04398	1.06701	1.07615	1.09214	1.22803	1.14361	1.10849	6.081
71 Isosafrole 1	0.14714	0.14465	0.15080	0.15885	0.15144	0.15186	0.15079	3.216
M 188 Isosafrole, Total	0.98796	0.97559	0.98638	1.01193	0.95737	0.96100	0.98004	2.049
72 Isosafrole 2	0.84082	0.83094	0.83558	0.85308	0.80593	0.80913	0.82925	2.219
73 2-Nitroaniline	0.49362	0.51550	0.47862	0.46206	0.47000	0.46397	0.48063	4.289
74 1,2,3,4-Tetrachlorobenzene	0.52534	0.51676	0.50850	0.51262	0.58425	0.53616	0.53061	5.291
75 1,4-Naphthoquinone	0.28559	0.35449	0.35663	0.38466	0.36457	0.36795	0.35231	9.763
76 Dimethylphthalate	1.32769	1.25659	1.26304	1.19848	1.26849	1.29669	1.25183	3.924
77 m-Dinitrobenzene	0.14372	0.18233	0.18800	0.20045	0.18814	0.18796	0.18177	10.766
78 2,6-Dinitrotoluene	0.26331	0.27555	0.27528	0.25930	0.27240	0.25295	0.26646	3.517
79 Acenaphthylene	1.67006	1.69665	1.67080	1.67967	1.76766	1.73364	1.70308	2.323
80 1,2-Dinitrobenzene	0.12834	0.13512	0.13070	0.12232	0.12801	0.12269	0.12786	3.806
81 3-Nitroaniline	0.20162	0.21367	0.19449	0.20672	0.21091	0.19930	0.20445	3.565
82 Acenaphthene	1.06534	1.06700	1.05850	1.06362	1.12429	1.10197	1.08012	2.470
83 2,4-Dinitrophenol	+++++	0.06685	0.07891	0.08420	0.10419	0.09356	0.08554	16.605 <-
84 Pentachlorobenzene	0.43986	0.41935	0.42121	0.42977	0.41278	0.41680	0.42329	2.337
85 4-Nitrophenol	0.19970	0.24615	0.22593	0.22818	0.23031	0.21259	0.22381	7.126
86 Dibenzofuran	1.42624	1.45509	1.40300	1.40640	1.46665	1.45165	1.43484	1.870
87 2,4-Dinitrotoluene	0.33888	0.34261	0.36122	0.33848	0.34677	0.32880	0.34279	3.156
88 2,3,4,6-Tetrachlorophenol	0.11691	0.18753	0.19983	0.21859	0.21746	0.23005	0.19506	21.096
89 1-Naphthylamine	0.71477	0.80851	0.84726	0.87195	0.85161	0.85951	0.82560	7.067
90 Zinophos	0.37998	0.39211	0.40005	0.39745	0.38534	0.37900	0.38899	2.293
91 2,3,5,6-Tetrachlorophenol	0.26136	0.29217	0.29410	0.29195	0.31824	0.30632	0.29402	6.475
92 2-Naphthylamine	0.63311	0.75788	0.75869	0.70945	0.71646	0.71395	0.71492	6.406
93 Diethylphthalate	1.29359	1.26970	1.31575	1.20846	1.28529	1.21183	1.26410	3.510
94 Fluorene	1.20649	1.24464	1.24113	1.22789	1.28435	1.22555	1.23834	2.122
95 4-Chlorophenyl-phenylether	0.60930	0.61565	0.62460	0.60957	0.62959	0.59611	0.61414	1.953
96 4-Nitroaniline	0.17392	0.17333	0.16051	0.18638	0.20292	0.17840	0.17924	7.994

STL - North Canton

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 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
97 5-Nitro-o-toluidine	0.19557	0.26698	0.26497	0.27407	0.27054	0.26481	0.25616	11.670
98 4,6-Dinitro-2-methylphenol	+++++	0.11137	0.11810	0.12166	0.13700	0.12548	0.12272	7.759 <-
99 N-Nitrosodiphenylamine	0.62609	0.62797	0.59113	0.57760	0.61898	0.59327	0.60584	3.497
100 1,2-Diphenylhydrazine	1.51460	1.44467	1.41133	1.30253	1.32935	1.30428	1.38446	6.252
101 Diphenylamine	0.62609	0.62797	0.59113	0.57760	0.61898	0.59327	0.60584	3.497
102 Tetraethyl dithiopyrophosphat	0.12316	0.11782	0.12371	0.12069	0.11762	0.11539	0.11973	2.783
103 Diallate 1	1.20273	1.03291	1.03614	0.95724	0.89504	0.85047	0.99575	12.590
M 189 Diallate, Total	3.74733	3.69140	3.51873	3.29596	3.12571	3.00477	3.39732	8.946
104 Phorate	0.20747	0.19007	0.19730	0.18709	0.17839	0.17638	0.18945	6.179
105 1,3,5-Trinitrobenzene	0.04202	0.07036	0.08189	0.08802	0.09006	0.08664	0.07683	24.135
106 4-Bromophenyl-phenylether	0.22794	0.23163	0.22389	0.22154	0.24053	0.23239	0.22965	2.963
107 Hexachlorobenzene	0.23101	0.23806	0.23692	0.24908	0.26397	0.26663	0.24761	6.024
108 Phenacetin	0.27985	0.41879	0.44878	0.47041	0.46378	0.45038	0.42200	17.031
109 Diallate 2	0.20358	0.18465	0.19599	0.19486	0.18826	0.18425	0.19193	3.941
110 Dimethoate	0.38088	0.45241	0.47789	0.46208	0.45002	0.44938	0.44544	7.502
111 Pentachlorophenol	0.07905	0.10841	0.11768	0.11843	0.13437	0.11691	0.11248	16.373
112 Pentachloronitrobenzene	0.12767	0.12699	0.13142	0.13057	0.12599	0.12763	0.12838	1.661
113 4-Aminobiphenyl	0.44315	0.47066	0.53066	0.57691	0.59753	0.56603	0.53082	11.649
114 Pronamide	0.37111	0.37424	0.39407	0.38212	0.37426	0.37021	0.37767	2.400
115 Phenanthrene	1.17454	1.17154	1.16107	1.16493	1.30998	1.20914	1.19853	4.774
116 Anthracene	1.03444	1.11611	1.11346	1.05219	1.13077	1.07603	1.08717	3.576
117 Dinoseb	+++++	0.12036	0.13892	0.16639	0.16800	0.17948	0.15463	15.692 <-
118 Disulfoton	0.71869	0.65104	0.68348	0.62423	0.58912	0.56110	0.63794	9.205
119 Carbazole	0.85180	0.90601	0.82651	0.85384	0.91502	0.85707	0.86838	3.975
120 Di-n-Butylphthalate	1.45736	1.50506	1.50718	1.40684	1.49864	1.44614	1.47020	2.746
121 4-Nitroquinoline 1-oxide	+++++	0.03172	0.03609	0.05592	0.05473	0.06390	0.04847	28.558 <-
122 Methapyrilene	0.31161	0.47791	0.46235	0.48559	0.47381	0.38247	0.43229	16.224
123 Fluoranthene	1.06650	1.17413	1.13679	1.14451	1.21515	1.12918	1.14438	4.325
124 Benzidine	0.18044	0.24088	0.21354	0.30534	0.41568	0.42616	0.29701	35.164
125 Pyrene	1.63806	1.62620	1.67160	1.57947	1.60141	1.59353	1.61838	2.086
126 Aramite 1	0.08629	0.09088	0.10502	0.09831	0.10299	0.10202	0.09758	7.633
M 191 Aramite, Total	0.34485	0.48680	0.49330	0.49380	0.49630	0.50257	0.46960	13.059
127 Aramite 2	0.12863	0.12870	0.14744	0.13609	0.14147	0.14136	0.13728	5.521

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 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28771	0.30464	0.33592	0.31801	0.32598	0.31899	0.31521	5.375
129 p-Chlorobenzilate	0.73097	0.63237	0.71645	0.63848	0.65852	0.64840	0.67086	6.281
130 Pamphur	0.53751	0.54268	0.54389	0.39370	0.36170	0.33387	0.45223	21.999
131 Butylbenzylphthalate	0.80819	0.79119	0.77755	0.75022	0.73828	0.72147	0.76448	4.352
132 3,3'-Dimethylbenzidine	0.21032	0.23927	0.35734	0.32753	0.41691	0.33463	0.31434	24.399
133 3,3'-Dimethoxybenzidine	0.22541	0.22351	0.18423	0.26015	0.31505	0.30736	0.25262	20.351
134 2-Acetylamino fluorene	0.16082	0.34672	0.38962	0.46359	0.44818	0.48714	0.38268	31.426
135 3,3'-Dichlorobenzidine	0.38042	0.41209	0.38830	0.43241	0.47752	0.44946	0.42337	8.773
136 Benzo(a)Anthracene	1.33253	1.33986	1.29028	1.29538	1.32829	1.27765	1.31067	1.984
137 Chrysene	1.22208	1.26245	1.21545	1.34238	1.45145	1.36082	1.30911	7.048
138 4,4'-Methylene bis(o-chloroan	0.22444	0.23434	0.22864	0.26288	0.28904	0.27211	0.25191	10.522
139 bis(2-ethylhexyl)Phthalate	1.15479	1.09514	1.07518	1.04946	1.04019	0.97389	1.06478	5.671
140 Di-n-octylphthalate	2.28916	2.25705	2.35004	2.28361	2.29898	2.17008	2.27482	2.624
141 Benzo(b)fluoranthene	1.35861	1.32686	1.34063	1.37741	1.49218	1.37895	1.37911	4.280
142 Benzo(k)fluoranthene	1.32988	1.37362	1.36984	1.41879	1.51433	1.42952	1.40600	4.565
143 7,12-dimethylbenz(a)anthracen	0.84750	0.77811	0.69031	0.83648	0.85736	0.82031	0.80501	7.788
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
146 Benzo(a)pyrene	1.12857	1.15207	1.15656	1.16306	1.24979	1.18284	1.17215	3.573
148 3-Methylcholanthrene	0.61316	0.70049	0.59301	0.78202	0.76385	0.77100	0.70392	11.842
149 Indeno(1,2,3-cd)pyrene	0.84134	0.89583	0.86431	0.86192	0.97284	0.91247	0.89145	5.310
150 Dibenz(a,h)anthracene	0.82760	0.88203	0.84997	0.87353	0.98287	0.93934	0.89255	6.504
151 Benzo(g,h,i)perylene	0.79640	0.86675	0.82742	0.83888	0.93550	0.89708	0.86034	5.852
199 3-Picoline	1.45389	1.61156	1.55239	1.68733	1.64248	1.59822	1.59098	5.083
200 N,N-Dimethylacetamide	1.37290	1.45899	1.42716	1.48982	1.46465	1.41541	1.43815	2.901
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
209 Benzaldehyde	0.86399	1.03935	1.15584	1.25464	1.27539	1.07682	1.11101	13.768

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 11:30
 End Cal Date : 17-JUL-2000 15:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00717a.b\8270c.m
 Cal Date : 18-Jul-2000 05:57 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.13491	0.14248	0.14403	0.13030	0.13213	0.12770	0.13526	4.912
211 1,1'-Biphenyl	1.31883	1.32624	1.31917	1.39017	1.47358	1.44307	1.37851	4.937
212 Atrazine	0.24286	0.25001	0.25644	0.24490	0.25931	0.24456	0.24968	2.741
\$ 154 Nitrobenzene-d5	0.68885	0.67979	0.68080	0.62734	0.63775	0.62635	0.65681	4.459
\$ 155 2-Fluorobiphenyl	1.24961	1.25061	1.24504	1.23280	1.39036	1.27249	1.27348	4.608
\$ 156 Terphenyl-d14	1.04345	1.04634	1.07526	1.03761	1.05522	1.04945	1.05125	1.250
\$ 157 Phenol-d5	2.07827	2.07953	2.01232	2.06298	2.13556	1.94981	2.05308	3.123
\$ 158 2-Fluorophenol	1.32713	1.55718	1.50911	1.51559	1.56689	1.49963	1.49596	5.817
\$ 159 2,4,6-Tribromophenol	0.12966	0.13630	0.13671	0.13135	0.15058	0.13893	0.13725	5.394
\$ 186 2-Chlorophenol-d4	1.17709	1.16398	1.15374	1.20453	1.28635	1.17704	1.19379	4.058
\$ 187 1,2-Dichlorobenzene-d4	0.90167	0.89520	0.90560	0.91210	0.96184	0.89072	0.92119	2.846

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015
 Lab File ID: 9DF0721C DFTPP Injection Date: 07/21/00
 Instrument ID: A4HP9 DFTPP Injection Time: 0741

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.6
68	Less than 2.0% of mass 69	0.9 (1.5)1
69	Mass 69 relative abundance	61.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.5
365	Greater than 1.0% of mass 198	4.0
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	56.8
443	17.0 - 23.0% of mass 442	10.8 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	9SM0721	07/21/00	0741
02	ASTD016	ASTD016	9AM0721	07/21/00	0818
03	MPT-G4-SU-24	DFRAK10W	DFRAK10W	07/21/00	1426
04	MPT-G4-SU-25	DFRAW10W	DFRAW10W	07/21/00	1503
05	MPT-G4-SU-28	DFV5X10W	DFV5X10W	07/21/00	1540
06	MPT-G4-SU-28	DFV5X12N	DFV5X12N	07/21/00	1616
07	MPT-G4-SU-28	DFV5X12P	DFV5X12P	07/21/00	1653
08	MPT-G4-SU-26	DFRAX10W	DFRAX10W	07/21/00	1730
09	MPT-G4-SU-29	DFV6810W	DFV6810W	07/21/00	1843
10	MPT-G4-SU-30	DFV6910W	DFV6910W	07/21/00	1919
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

97-2400

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 21-JUL-2000 07:41
 Lab File ID: 9SM0721.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.31055	1.32725	0.010	1.3	50.0
10 N-Nitrosodimethylamine	1.18805	1.10519	0.010	-7.0	50.0
11 Ethyl methacrylate	1.63779	1.54835	0.010	-5.5	50.0
12 3-Chloropropionitrile	1.15488	1.16691	0.010	1.0	50.0
13 Malononitrile	1.87635	1.72230	0.010	-8.2	50.0
209 Benzaldehyde	1.11101	1.25181	0.010	12.7	50.0
21 Aniline	2.66222	2.77672	0.010	4.3	50.0
22 Phenol	2.44649	2.58778	0.010	5.8	20.0
23 bis(2-Chloroethyl) ether	1.87598	2.77672	0.010	48.0	50.0
24 2-Chlorophenol	1.31071	1.31514	0.010	0.3	50.0
26 1,3-Dichlorobenzene	1.48971	1.45310	0.010	-2.5	50.0
27 1,4-Dichlorobenzene	1.49187	1.48962	0.010	-0.2	20.0
28 1,2-Dichlorobenzene	1.41389	1.41348	0.010	-0.0	50.0
29 Benzyl Alcohol	1.09556	1.15665	0.010	5.6	50.0
30 2-Methylphenol	1.56287	1.62418	0.010	3.9	50.0
31 bis(2-Chloroisopropyl) ether	2.21837	2.68402	0.010	21.0	50.0
37 Acetophenone	2.41067	2.52662	0.010	4.8	50.0
32 N-Nitroso-di-n-propylamine	1.55305	1.70993	0.050	10.1	50.0
192 4-Methylphenol	1.59938	1.61861	0.010	1.2	50.0
34 Hexachloroethane	0.75627	0.81915	0.010	8.3	50.0
35 Nitrobenzene	0.64972	0.69557	0.010	7.1	50.0
41 Isophorone	1.13871	1.26133	0.010	10.8	50.0
42 2-Nitrophenol	0.18824	0.18400	0.010	-2.3	20.0
43 2,4-Dimethylphenol	0.47934	0.49957	0.010	4.2	50.0
44 bis(2-Chloroethoxy)methane	0.62283	0.62397	0.010	0.2	50.0
46 2,4-Toluenediamine	++++	0.00644	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.35782	0.35425	0.010	-1.0	50.0
48 2,4-Dichlorophenol	0.29496	0.29183	0.010	-1.1	20.0
49 Benzoic Acid	0.13016	0.11036	0.010	-15.2	50.0
50 1,2,4-Trichlorobenzene	0.32370	0.33736	0.010	4.2	50.0
51 Naphthalene	1.03259	1.03578	0.010	0.3	50.0
52 4-Chloroaniline	0.36404	0.34189	0.010	-6.1	50.0
56 Hexachlorobutadiene	0.23367	0.23588	0.010	0.9	20.0
210 Caprolactam	0.13526	0.13680	0.010	1.1	50.0
57 1,2,3-Trichlorobenzene	0.32575	0.32664	0.010	0.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 21-JUL-2000 07:41
 Lab File ID: 9SM0721.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.40823	0.41662	0.010	2.1	20.0
62 2-Methylnaphthalene	0.67520	0.67157	0.010	-0.5	50.0
63 1-Methylnaphthalene	0.68453	0.67819	0.010	-0.9	50.0
64 Hexachlorocyclopentadiene	0.30870	0.29361	0.050	-4.9	50.0
66 2,4,6-Trichlorophenol	0.38852	0.37445	0.010	-3.6	20.0
67 2,4,5-Trichlorophenol	0.37594	0.37303	0.010	-0.8	50.0
211 1,1'-Biphenyl	1.37851	1.40468	0.010	1.9	50.0
68 1,2,3,5-Tetrachlorobenzene	0.58572	0.59131	0.010	1.0	50.0
70 2-Chloronaphthalene	1.10849	1.14772	0.010	3.5	50.0
73 2-Nitroaniline	0.48063	0.53403	0.010	11.1	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53061	0.53405	0.010	0.6	50.0
76 Dimethylphthalate	1.25183	1.31654	0.010	5.2	50.0
78 2,6-Dinitrotoluene	0.26646	0.28317	0.010	6.3	50.0
79 Acenaphthylene	1.70308	1.69152	0.010	-0.7	50.0
80 1,2-Dinitrobenzene	0.12786	0.12978	0.010	1.5	50.0
81 3-Nitroaniline	0.20445	0.20389	0.010	-0.3	50.0
82 Acenaphthene	1.08012	1.08966	0.010	0.9	20.0
83 2,4-Dinitrophenol	0.08554	0.08620	0.050	0.8	50.0
85 4-Nitrophenol	0.22381	0.25076	0.050	12.0	50.0
86 Dibenzofuran	1.43484	1.44739	0.010	0.9	50.0
87 2,4-Dinitrotoluene	0.34279	0.35761	0.010	4.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.29402	0.29932	0.010	1.8	50.0
93 Diethylphthalate	1.26410	1.37499	0.010	8.8	50.0
94 Fluorene	1.23834	1.25006	0.010	0.9	50.0
95 4-Chlorophenyl-phenylether	0.61414	0.63366	0.010	3.2	50.0
96 4-Nitroaniline	0.17924	0.16797	0.010	-6.3	50.0
98 4,6-Dinitro-2-methylphenol	0.12272	0.12745	0.010	3.9	50.0
99 N-Nitrosodiphenylamine	0.60584	0.60047	0.010	-0.9	20.0
100 1,2-Diphenylhydrazine	1.38446	1.54402	0.010	11.5	50.0
106 4-Bromophenyl-phenylether	0.22965	0.22933	0.010	-0.1	50.0
107 Hexachlorobenzene	0.24761	0.24299	0.010	-1.9	50.0
212 Atrazine	0.24968	0.24869	0.010	-0.4	50.0
111 Pentachlorophenol	0.11248	0.12898	0.010	14.7	20.0
115 Phenanthrene	1.19853	1.19281	0.010	-0.5	50.0
116 Anthracene	1.08717	1.13594	0.010	4.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 21-JUL-2000 07:41
 Lab File ID: 9SM0721.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00721a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
119 Carbazole	0.86838	0.84505	0.010	-2.7	50.0
120 Di-n-Butylphthalate	1.47020	1.50058	0.010	2.1	50.0
123 Fluoranthene	1.14438	1.19838	0.010	4.7	20.0
124 Benzidine	0.29701	0.16070	0.010	-45.9	50.0
125 Pyrene	1.61838	1.73783	0.010	7.4	50.0
131 Butylbenzylphthalate	0.76448	0.82227	0.010	7.6	50.0
133 3,3'-Dimethoxybenzidine	0.25262	0.12920	0.010	-48.9	50.0
135 3,3'-Dichlorobenzidine	0.42337	0.37825	0.010	-10.7	50.0
136 Benzo (a) Anthracene	1.31067	1.32171	0.010	0.8	50.0
137 Chrysene	1.30911	1.28317	0.010	-2.0	50.0
138 4,4'-Methylene bis(o-chloro	0.25191	0.21312	0.010	-15.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.06478	1.17777	0.010	10.6	50.0
140 Di-n-octylphthalate	2.27482	2.70604	0.010	19.0	20.0
141 Benzo (b) fluoranthene	1.37911	1.42853	0.010	3.6	50.0
142 Benzo (k) fluoranthene	1.40600	1.42007	0.010	1.0	50.0
146 Benzo (a) pyrene	1.17215	1.15977	0.010	-1.1	20.0
149 Indeno (1,2,3-cd) pyrene	0.89145	0.76135	0.010	-14.6	50.0
150 Dibenz (a,h) anthracene	0.89255	0.81730	0.010	-8.4	50.0
151 Benzo (g,h,i) perylene	0.86034	0.79925	0.010	-7.1	50.0
\$ 154 Nitrobenzene-d5	0.65681	0.72769	0.010	10.8	50.0
\$ 155 2-Fluorobiphenyl	1.27348	1.30251	0.010	2.3	50.0
\$ 156 Terphenyl-d14	1.05125	1.12818	0.010	7.3	50.0
\$ 157 Phenol-d5	2.05308	2.09405	0.010	2.0	50.0
\$ 158 2-Fluorophenol	1.49596	1.41325	0.010	-5.5	50.0
\$ 159 2,4,6-Tribromophenol	0.13725	0.13299	0.010	-3.1	50.0
\$ 186 2-Chlorophenol-d4	1.19379	1.19667	0.010	0.2	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.91119	0.91534	0.010	0.5	50.0
M 195 Cresols, total	3.16225	3.24279	0.010	2.5	50.0
101 Diphenylamine	0.60584	0.60047	0.010	-0.9	50.0

STL - North Canton

97-24-00

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 21-JUL-2000 08:18
 Lab File ID: 9AM0721.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.97555	1.38792	0.010	42.3	50.0
8 Ethyl methanesulfonate	1.53086	1.70893	0.010	11.6	50.0
14 2-Picoline	1.95189	1.94157	0.010	-0.5	50.0
15 N-Nitrosomethylethylamine	0.97083	0.96033	0.010	-1.1	50.0
16 Methyl methanesulfonate	1.25403	1.48113	0.010	18.1	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.40662	0.010	11.9	50.0
19 N-Nitrosodiethylamine	0.86951	0.94780	0.010	9.0	50.0
25 Pentachloroethane	0.59897	0.67047	0.010	11.9	50.0
36 N-Nitrosopyrrolidine	0.74599	0.93343	0.010	25.1	50.0
37 Acetophenone	2.41067	2.60810	0.010	8.2	50.0
39 o-Toluidine	2.08104	2.69497	0.010	29.5	50.0
40 N-Nitrosopiperidine	0.20798	0.20714	0.010	-0.4	50.0
45 O,O,O-Triethyl phosphorothi	0.20249	0.21911	0.010	8.2	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.89068	0.010	-6.9	50.0
54 2,6-Dichlorophenol	0.25801	0.28619	0.010	10.9	50.0
55 Hexachloropropene	0.21028	0.23060	0.010	9.7	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.43019	0.010	16.1	50.0
60 p-Phenylene diamine	0.18885	0.14400	0.010	-23.8	50.0
61 Safrole	0.28100	0.29845	0.010	6.2	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.60900	0.010	10.9	50.0
71 Isosafrole 1	0.15079	0.15025	0.010	-0.4	50.0
M 188 Isosafrole, Total	0.98004	1.21515	0.010	24.0	50.0
72 Isosafrole 2	0.82925	1.06491	0.010	28.4	50.0
75 1,4-Naphthoquinone	0.35231	0.34526	0.010	-2.0	50.0
84 Pentachlorobenzene	0.42329	0.46756	0.010	10.5	50.0
89 1-Naphthylamine	0.82560	0.81956	0.010	-0.7	50.0
92 2-Naphthylamine	0.71492	0.67621	0.010	-5.4	50.0
90 Zinophos	0.38899	0.45777	0.010	17.7	50.0
102 Tetraethyl dithiopyrophosph	0.11973	0.14806	0.010	23.7	50.0
103 Diallate 1	0.99575	1.18979	0.010	19.5	50.0
M 189 Diallate, Total	3.39732	4.24854	0.010	25.1	50.0
109 Diallate 2	0.19193	0.20692	0.010	7.8	50.0
104 Phorate	0.18945	0.21324	0.010	12.6	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.07760	0.010	1.0	50.0
108 Phenacetin	0.42200	0.52626	0.010	24.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 21-JUL-2000 08:18
 Lab File ID: 9AM0721.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00721a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.44544	0.49943	0.010	12.1	50.0
112 Pentachloronitrobenzene	0.12838	0.17164	0.010	53.7	50.0
113 4-Aminobiphenyl	0.53082	0.48893	0.010	-7.9	50.0
114 Pronamide	0.37767	0.44435	0.010	17.7	50.0
117 Dinoseb	0.15463	0.18624	0.010	20.4	50.0
118 Disulfoton	0.63794	0.70768	0.010	10.9	50.0
121 4-Nitroquinoline 1-oxide	0.04847	0.03534	0.010	-27.3	50.0
122 Methapyrilene	0.43229	0.48000	0.010	11.0	50.0
126 Aramite 1	0.09758	0.10882	0.010	11.5	50.0
M 191 Aramite, Total	0.46960	0.55105	0.010	17.3	50.0
127 Aramite 2	0.13728	0.14941	0.010	8.8	50.0
128 p-Dimethylamino azobenzene	0.31521	0.33707	0.010	6.9	50.0
129 p-Chlorobenzilate	0.67086	0.80349	0.010	19.8	50.0
130 Famphur	0.45223	0.51896	0.010	14.8	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.34407	0.010	9.5	50.0
134 2-Acetylaminofluorene	0.38268	0.45298	0.010	18.4	50.0
143 7,12-dimethylbenz[a]anthrac	0.80501	0.73654	0.010	-8.5	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.70392	0.60578	0.010	-13.9	50.0
193 3-Methylphenol	1.45546	1.82137	0.010	25.1	50.0
69 1,4-Dinitrobenzene	0.16523	0.16588	0.010	0.4	50.0
77 m-Dinitrobenzene	0.18177	0.18118	0.010	-0.3	50.0
198 1,4-Dioxane	0.87147	0.58243	0.010	-33.2	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.23430	0.010	20.1	50.0
97 5-Nitro-o-toluidine	0.25616	0.24830	0.010	-3.1	50.0
199 3-Picoline	1.59098	1.68762	0.010	6.1	50.0
200 N,N-Dimethylacetamide	1.43815	1.67691	0.010	16.6	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 9DF0724A

DFTPP Injection Date: 07/24/00

Instrument ID: A4HP9

DFTPP Injection Time: 0831

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.0
68	Less than 2.0% of mass 69	1.0 (1.7)1
69	Mass 69 relative abundance	61.3
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	40.0 - 60.0% of mass 198	55.5
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	4.3
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	58.2
443	17.0 - 23.0% of mass 442	10.7 (18.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	9SM0724	07/24/00	0852
02	ASTD016	ASTD016	9AM0724	07/24/00	0928
03	DFXGCBLK	DFXGC101	DFXGC101	07/24/00	1005
04	DFXGCCHK	DFXGC102	DFXGC102	07/24/00	1041
05	MPT-G4-SU-33	DFV6L10W	DFV6L10W	07/24/00	1118
06	MPT-G4-SU-32	DFV6D10W	DFV6D10W	07/24/00	1647
07	MPT-G4-SU-DU	DFV6E10W	DFV6E10W	07/24/00	1949
08	MPT-G4-SU-31	DFV6A10W	DFV6A10W	07/24/00	2026
09					
10					
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22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 24-JUL-2000 08:52
 Lab File ID: 9SM0724.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00724a.b\8270c.m

COMPOUND	RRF	RF15	MIN RRF	%D	MAX %D
9 Pyridine	1.31055	1.49527	0.010	14.1	50.0
10 N-Nitrosodimethylamine	1.18805	1.14809	0.010	-3.4	50.0
11 Ethyl methacrylate	1.63779	1.64652	0.010	0.5	50.0
12 3-Chloropropionitrile	1.15488	0.91682	0.010	-20.6	50.0
13 Malononitrile	1.87635	1.75212	0.010	-6.6	50.0
209 Benzaldehyde	1.11101	1.25619	0.010	13.1	50.0
21 Aniline	2.66222	2.59948	0.010	-2.4	50.0
22 Phenol	2.44649	2.50289	0.010	2.3	20.0
23 bis(2-Chloroethyl)ether	1.87598	1.98545	0.010	5.8	50.0
24 2-Chlorophenol	1.31071	1.26954	0.010	-3.1	50.0
26 1,3-Dichlorobenzene	1.48971	1.48252	0.010	-0.5	50.0
27 1,4-Dichlorobenzene	1.49187	1.48861	0.010	-0.2	20.0
28 1,2-Dichlorobenzene	1.41389	1.40049	0.010	-0.9	50.0
29 Benzyl Alcohol	1.09556	1.08779	0.010	-0.7	50.0
30 2-Methylphenol	1.56287	1.56721	0.010	0.3	50.0
31 bis(2-Chloroisopropyl)ether	2.21837	2.67404	0.010	20.5	50.0
37 Acetophenone	2.41067	2.43215	0.010	0.9	50.0
32 N-Nitroso-di-n-propylamine	1.55305	1.68369	0.050	8.4	50.0
192 4-Methylphenol	1.59938	1.59227	0.010	-0.4	50.0
34 Hexachloroethane	0.75627	0.82395	0.010	8.9	50.0
35 Nitrobenzene	0.64972	0.71246	0.010	9.7	50.0
41 Isophorone	1.13871	1.27489	0.010	12.0	50.0
42 2-Nitrophenol	0.18824	0.17184	0.010	-8.7	20.0
43 2,4-Dimethylphenol	0.47934	0.49737	0.010	3.8	50.0
44 bis(2-Chloroethoxy)methane	0.62283	0.60241	0.010	-3.3	50.0
46 2,4-Toluenediamine	++++	0.00513	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.35782	0.36496	0.010	2.0	50.0
48 2,4-Dichlorophenol	0.29496	0.28668	0.010	-2.8	20.0
49 Benzoic Acid	0.13016	0.09516	0.010	-26.9	50.0
50 1,2,4-Trichlorobenzene	0.32370	0.34217	0.010	5.7	50.0
51 Naphthalene	1.03259	1.03879	0.010	0.6	50.0
52 4-Chloroaniline	0.36404	0.32678	0.010	-10.2	50.0
56 Hexachlorobutadiene	0.23367	0.24529	0.010	5.0	20.0
210 Caprolactam	0.13526	0.12836	0.010	-5.1	50.0
57 1,2,3-Trichlorobenzene	0.32575	0.33355	0.010	2.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 24-JUL-2000 08:52
 Lab File ID: 9SM0724.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00724a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.40823	0.41407	0.010	1.4	20.0
62 2-Methylnaphthalene	0.67520	0.65454	0.010	-3.1	50.0
63 1-Methylnaphthalene	0.68453	0.67081	0.010	-2.0	50.0
64 Hexachlorocyclopentadiene	0.30870	0.30890	0.050	0.1	50.0
66 2,4,6-Trichlorophenol	0.38852	0.37010	0.010	-4.7	20.0
67 2,4,5-Trichlorophenol	0.37594	0.34378	0.010	-8.6	50.0
211 1,1'-Biphenyl	1.37851	1.37405	0.010	-0.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.58572	0.60279	0.010	2.9	50.0
70 2-Chloronaphthalene	1.10849	1.12821	0.010	1.8	50.0
73 2-Nitroaniline	0.48063	0.50222	0.010	4.5	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53061	0.53488	0.010	0.8	50.0
76 Dimethylphthalate	1.25183	1.31736	0.010	5.2	50.0
78 2,6-Dinitrotoluene	0.26646	0.26586	0.010	-0.2	50.0
79 Acenaphthylene	1.70308	1.69770	0.010	-0.3	50.0
80 1,2-Dinitrobenzene	0.12786	0.11967	0.010	-6.4	50.0
81 3-Nitroaniline	0.20445	0.18640	0.010	-8.8	50.0
82 Acenaphthene	1.08012	1.09541	0.010	1.4	20.0
83 2,4-Dinitrophenol	0.08554	0.07125	0.050	-16.7	50.0
85 4-Nitrophenol	0.22381	0.24158	0.050	7.9	50.0
86 Dibenzofuran	1.43484	1.39074	0.010	-3.1	50.0
87 2,4-Dinitrotoluene	0.34279	0.33682	0.010	-1.7	50.0
91 2,3,5,6-Tetrachlorophenol	0.29402	0.28772	0.010	-2.1	50.0
93 Diethylphthalate	1.26410	1.38961	0.010	9.9	50.0
94 Fluorene	1.23834	1.22269	0.010	-1.3	50.0
95 4-Chlorophenyl-phenylether	0.61414	0.61809	0.010	0.6	50.0
96 4-Nitroaniline	0.17924	0.14708	0.010	-17.9	50.0
98 4,6-Dinitro-2-methylphenol	0.12272	0.11458	0.010	-6.6	50.0
99 N-Nitrosodiphenylamine	0.60584	0.57403	0.010	-5.3	20.0
100 1,2-Diphenylhydrazine	1.38446	1.56544	0.010	13.1	50.0
106 4-Bromophenyl-phenylether	0.22965	0.22782	0.010	-0.8	50.0
107 Hexachlorobenzene	0.24761	0.24830	0.010	0.3	50.0
212 Atrazine	0.24968	0.26074	0.010	4.4	50.0
111 Pentachlorophenol	0.11248	0.12408	0.010	10.3	20.0
115 Phenanthrene	1.19853	1.19671	0.010	-0.2	50.0
116 Anthracene	1.08717	1.15581	0.010	6.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 24-JUL-2000 08:52
 Lab File ID: 9SM0724.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00724a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.86838	0.84752	0.010	-2.4	50.0
120 Di-n-Butylphthalate	1.47020	1.57467	0.010	7.1	50.0
123 Fluoranthene	1.14438	1.28526	0.010	12.3	20.0
124 Benzidine	0.29701	0.15490	0.010	-47.8	50.0
125 Pyrene	1.61838	1.70143	0.010	5.1	50.0
131 Butylbenzylphthalate	0.76448	0.80957	0.010	5.9	50.0
133 3,3'-Dimethoxybenzidine	0.25262	0.14302	0.010	-43.4	50.0
135 3,3'-Dichlorobenzidine	0.42337	0.38657	0.010	-8.7	50.0
136 Benzo(a)Anthracene	1.31067	1.28551	0.010	-1.9	50.0
137 Chrysene	1.30911	1.27043	0.010	-3.0	50.0
138 4,4'-Methylene bis(o-chloro	0.25191	0.21069	0.010	-16.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.06478	1.14827	0.010	7.8	50.0
140 Di-n-octylphthalate	2.27482	2.35789	0.010	3.7	20.0
141 Benzo(b)fluoranthene	1.37911	1.33241	0.010	-3.4	50.0
142 Benzo(k)fluoranthene	1.40600	1.38717	0.010	-1.3	50.0
146 Benzo(a)pyrene	1.17215	1.14429	0.010	-2.4	20.0
149 Indeno(1,2,3-cd)pyrene	0.89145	0.84456	0.010	-5.3	50.0
150 Dibenz(a,h)anthracene	0.89255	0.87402	0.010	-2.1	50.0
151 Benzo(g,h,i)perylene	0.86034	0.90474	0.010	5.2	50.0
\$ 154 Nitrobenzene-d5	0.65681	0.73118	0.010	11.3	50.0
\$ 155 2-Fluorobiphenyl	1.27348	1.30681	0.010	2.6	50.0
\$ 156 Terphenyl-d14	1.05125	1.09387	0.010	4.1	50.0
\$ 157 Phenol-d5	2.05308	2.01386	0.010	-1.9	50.0
\$ 158 2-Fluorophenol	1.49596	1.46874	0.010	-1.8	50.0
\$ 159 2,4,6-Tribromophenol	0.13725	0.13085	0.010	-4.7	50.0
\$ 186 2-Chlorophenol-d4	1.19379	1.17095	0.010	-1.9	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.91119	0.94363	0.010	3.6	50.0
M 195 Cresols, total	3.16225	3.15948	0.010	-0.1	50.0
101 Diphenylamine	0.60584	0.57403	0.010	-5.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 24-JUL-2000 09:28
 Lab File ID: 9AM0724.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00724a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.97555	1.38156	0.010	41.6	50.0
8 Ethyl methanesulfonate	1.53086	1.69655	0.010	10.8	50.0
14 2-Picoline	1.95189	1.81974	0.010	-6.8	50.0
15 N-Nitrosomethylethylamine	0.97083	0.90574	0.010	-6.7	50.0
16 Methyl methanesulfonate	1.25403	1.48216	0.010	18.2	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.32290	0.010	8.0	50.0
19 N-Nitrosodiethylamine	0.86951	0.90644	0.010	4.2	50.0
25 Pentachloroethane	0.59897	0.65400	0.010	9.2	50.0
36 N-Nitrosopyrrolidine	0.74599	0.90006	0.010	20.7	50.0
37 Acetophenone	2.41067	2.53044	0.010	5.0	50.0
39 o-Toluidine	2.08104	2.51122	0.010	20.7	50.0
40 N-Nitrosopiperidine	0.20798	0.20707	0.010	-0.4	50.0
45 O,O,O-Triethyl phosphorothi	0.20249	0.22856	0.010	11.9	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.93651	0.010	-2.1	50.0
54 2,6-Dichlorophenol	0.25801	0.29149	0.010	13.0	50.0
55 Hexachloropropene	0.21028	0.23539	0.010	11.9	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.43640	0.010	17.8	50.0
60 p-Phenylene diamine	0.18885	0.10223	0.010	-45.9	50.0
61 Safrole	0.28100	0.29819	0.010	6.1	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.60045	0.010	9.4	50.0
71 Isosafrole 1	0.15079	0.14537	0.010	-3.6	50.0
M 188 Isosafrole, Total	0.98004	1.17211	0.010	19.6	50.0
72 Isosafrole 2	0.82925	1.02674	0.010	23.8	50.0
75 1,4-Naphthoquinone	0.35231	0.33218	0.010	-5.7	50.0
84 Pentachlorobenzene	0.42329	0.47105	0.010	11.3	50.0
89 1-Naphthylamine	0.82560	0.77704	0.010	-5.9	50.0
92 2-Naphthylamine	0.71492	0.62566	0.010	-12.5	50.0
90 Zinphos	0.38899	0.47167	0.010	21.3	50.0
102 Tetraethyl dithiopyrophosph	0.11973	0.15091	0.010	26.0	50.0
103 Diallate 1	0.99575	1.20248	0.010	20.8	50.0
M 189 Diallate, Total	3.39732	4.27634	0.010	25.9	50.0
109 Diallate 2	0.19193	0.20817	0.010	8.5	50.0
104 Phorate	0.18945	0.21232	0.010	12.1	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.07527	0.010	-2.0	50.0
108 Phenacetin	0.42200	0.48720	0.010	15.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 24-JUL-2000 09:28
 Lab File ID: 9AM0724.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00724a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	SD	MAX SD
110 Dimethoate	0.44544	0.49519	0.010	11.2	50.0
112 Pentachloronitrobenzene	0.12838	0.17574	0.010	36.9	50.0
113 4-Aminobiphenyl	0.53082	0.42254	0.010	-20.4	50.0
114 Pronamide	0.37767	0.45417	0.010	20.3	50.0
117 Dinoseb	0.15463	0.17228	0.010	11.4	50.0
118 Disulfoton	0.63794	0.72114	0.010	13.0	50.0
121 4-Nitroquinolina 1-oxide	0.04847	0.03949	0.010	-18.5	50.0
122 Methapyrilene	0.43229	0.50820	0.010	17.6	50.0
126 Aramite 1	0.09758	0.11571	0.010	18.6	50.0
M 191 Aramite, Total	0.46960	0.56757	0.010	20.9	50.0
127 Aramite 2	0.13728	0.16267	0.010	18.5	50.0
128 p-Dimethylamino azobenzene	0.31521	0.33644	0.010	6.7	50.0
129 p-Chlorobenzilate	0.67086	0.87090	0.010	29.8	50.0
130 Famphur	0.45223	0.60326	0.010	33.4	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.30820	0.010	-2.0	50.0
134 2-Acetylaminofluorene	0.38268	0.44094	0.010	15.2	50.0
143 7,12-dimethylbenz[a]anthrac	0.80501	0.70774	0.010	-12.1	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.70392	0.64157	0.010	-8.9	50.0
193 3-Methylphenol	1.45546	1.73769	0.010	19.4	50.0
69 1,4-Dinitrobenzene	0.16523	0.15306	0.010	-7.4	50.0
77 m-Dinitrobenzene	0.18177	0.16842	0.010	-7.3	50.0
198 1,4-Dioxane	0.87147	0.60825	0.010	30.2	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.23084	0.010	18.3	50.0
97 5-Nitro-o-toluidine	0.25616	0.23789	0.010	-7.1	50.0
199 3-Picoline	1.59098	1.69414	0.010	6.5	50.0
200 N,N-Dimethylacetamide	1.43815	1.47483	0.010	2.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 25-JUL-2000 08:57
 Lab File ID: 9SM0725.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.31055	1.68952	0.010	28.9	50.0
10 N-Nitrosodimethylamine	1.18805	1.09038	0.010	-8.2	50.0
11 Ethyl methacrylate	1.63779	1.78348	0.010	8.9	50.0
12 3-Chloropropionitrile	1.15488	1.08688	0.010	-5.9	50.0
13 Malononitrile	1.87635	1.75927	0.010	-6.2	50.0
209 Benzaldehyde	1.11101	1.19833	0.010	7.9	50.0
21 Aniline	2.66222	2.63455	0.010	-1.0	50.0
22 Phenol	2.44649	2.55074	0.010	4.3	20.0
23 bis(2-Chloroethyl) ether	1.87598	1.92821	0.010	2.8	50.0
24 2-Chlorophenol	1.31071	1.27763	0.010	-2.5	50.0
26 1,3-Dichlorobenzene	1.48971	1.46592	0.010	-1.6	50.0
27 1,4-Dichlorobenzene	1.49187	1.49251	0.010	0.0	20.0
28 1,2-Dichlorobenzene	1.41389	1.41180	0.010	-0.1	50.0
29 Benzyl Alcohol	1.09556	1.07669	0.010	-1.7	50.0
30 2-Methylphenol	1.56287	1.53197	0.010	-2.0	50.0
31 bis(2-Chloroisopropyl) ether	2.21837	2.64533	0.010	19.2	50.0
37 Acetophenone	2.41067	2.45276	0.010	1.7	50.0
32 N-Nitroso-di-n-propylamine	1.55305	1.71511	0.050	10.4	50.0
192 4-Methylphenol	1.59938	1.59193	0.010	-0.5	50.0
34 Hexachloroethane	0.75627	0.82201	0.010	8.7	50.0
35 Nitrobenzene	0.64972	0.70187	0.010	8.0	50.0
41 Isophorone	1.13871	1.27233	0.010	11.7	50.0
42 2-Nitrophenol	0.18824	0.17526	0.010	-6.9	20.0
43 2,4-Dimethylphenol	0.47934	0.50218	0.010	4.8	50.0
44 bis(2-Chloroethoxy)methane	0.62283	0.59605	0.010	-4.3	50.0
46 2,4-Toluenediamine	++++	0.00566	0.010	++++	50.0 <-
47 1,3,5-Trichlorobenzene	0.35782	0.36228	0.010	1.2	50.0
48 2,4-Dichlorophenol	0.29496	0.28322	0.010	-4.0	20.0
49 Benzoic Acid	0.13016	0.12460	0.010	-4.3	50.0
50 1,2,4-Trichlorobenzene	0.32370	0.33883	0.010	4.7	50.0
51 Naphthalene	1.03259	1.02975	0.010	-0.3	50.0
52 4-Chloroaniline	0.36404	0.32803	0.010	-9.9	50.0
56 Hexachlorobutadiene	0.23367	0.24426	0.010	4.5	20.0
210 Caprolactam	0.13526	0.13004	0.010	-3.9	50.0
57 1,2,3-Trichlorobenzene	0.32575	0.33018	0.010	1.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 25-JUL-2000 08:57
 Lab File ID: 9SM0725.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.40823	0.41137	0.010	0.8	20.0
62 2-Methylnaphthalene	0.67520	0.66890	0.010	-0.9	50.0
63 1-Methylnaphthalene	0.68453	0.67449	0.010	-1.5	50.0
64 Hexachlorocyclopentadiene	0.30870	0.29292	0.050	-5.1	50.0
66 2,4,6-Trichlorophenol	0.38852	0.36898	0.010	-5.0	20.0
67 2,4,5-Trichlorophenol	0.37594	0.36623	0.010	-2.6	50.0
211 1,1'-Biphenyl	1.37851	1.36581	0.010	-0.9	50.0
68 1,2,3,5-Tetrachlorobenzene	0.58572	0.59105	0.010	0.9	50.0
70 2-Chloronaphthalene	1.10849	1.12334	0.010	1.3	50.0
73 2-Nitroaniline	0.48063	0.52181	0.010	8.6	50.0
74 1,2,3,4-Tetrachlorobenzene	0.53061	0.53237	0.010	0.3	50.0
76 Dimethylphthalate	1.25183	1.33088	0.010	6.3	50.0
78 2,6-Dinitrotoluene	0.26646	0.27390	0.010	2.8	50.0
79 Acenaphthylene	1.70308	1.70554	0.010	0.1	50.0
80 1,2-Dinitrobenzene	0.12786	0.12526	0.010	-2.0	50.0
81 3-Nitroaniline	0.20445	0.19515	0.010	-4.5	50.0
82 Acenaphthene	1.08012	1.08942	0.010	0.9	20.0
83 2,4-Dinitrophenol	0.08554	0.07026	0.050	-17.9	50.0
85 4-Nitrophenol	0.22381	0.22293	0.050	-0.4	50.0
86 Dibenzofuran	1.43484	1.41521	0.010	-1.4	50.0
87 2,4-Dinitrotoluene	0.34279	0.34992	0.010	2.1	50.0
91 2,3,5,6-Tetrachlorophenol	0.29402	0.28859	0.010	-1.8	50.0
93 Diethylphthalate	1.26410	1.42834	0.010	13.0	50.0
94 Fluorene	1.23834	1.23336	0.010	-0.4	50.0
95 4-Chlorophenyl-phenylether	0.61414	0.62583	0.010	1.9	50.0
96 4-Nitroaniline	0.17924	0.16766	0.010	-6.5	50.0
98 4,6-Dinitro-2-methylphenol	0.12272	0.11139	0.010	-9.2	50.0
99 N-Nitrosodiphenylamine	0.60584	0.56353	0.010	-7.0	20.0
100 1,2-Diphenylhydrazine	1.38446	1.53440	0.010	10.8	50.0
106 4-Bromophenyl-phenylether	0.22965	0.22353	0.010	-2.7	50.0
107 Hexachlorobenzene	0.24761	0.24207	0.010	-2.2	50.0
212 Atrazine	0.24968	0.25468	0.010	2.0	50.0
111 Pentachlorophenol	0.11248	0.12389	0.010	10.1	20.0
115 Phenanthrene	1.19853	1.15960	0.010	-3.2	50.0
116 Anthracene	1.08717	1.11667	0.010	2.7	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 25-JUL-2000 08:57
 Lab File ID: 9SM0725.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.86838	0.87510	0.010	0.8	50.0
120 Di-n-Butylphthalate	1.47020	1.56171	0.010	6.2	50.0
123 Fluoranthene	1.14438	1.25774	0.010	9.9	20.0
124 Benzidine	0.29701	0.20793	0.010	-30.0	50.0
125 Pyrene	1.61838	1.77407	0.010	9.6	50.0
131 Butylbenzylphthalate	0.76448	0.84388	0.010	10.4	50.0
133 3,3'-Dimethoxybenzidine	0.25262	0.16724	0.010	-33.8	50.0
135 3,3'-Dichlorobenzidine	0.42337	0.36757	0.010	-13.2	50.0
136 Benzo(a)Anthracene	1.31067	1.28382	0.010	-2.0	50.0
137 Chrysene	1.30911	1.23742	0.010	-5.5	50.0
138 4,4'-Methylene bis(o-chloro	0.25191	0.21058	0.010	-16.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.06478	1.17568	0.010	10.4	50.0
140 Di-n-octylphthalate	2.27482	2.44745	0.010	7.6	20.0
141 Benzo(b)fluoranthene	1.37911	1.34697	0.010	-2.3	50.0
142 Benzo(k)fluoranthene	1.40600	1.32792	0.010	-5.6	50.0
146 Benzo(a)pyrene	1.17215	1.11361	0.010	-5.0	20.0
149 Indeno(1,2,3-cd)pyrene	0.89145	0.84048	0.010	-5.7	50.0
150 Dibenz(a,h)anthracene	0.89255	0.83973	0.010	-5.9	50.0
151 Benzo(g,h,i)perylene	0.86034	0.90336	0.010	5.0	50.0
\$ 154 Nitrobenzene-d5	0.65681	0.73576	0.010	12.0	50.0
\$ 155 2-Fluorobiphenyl	1.27348	1.28942	0.010	1.3	50.0
\$ 156 Terphenyl-d14	1.05125	1.15360	0.010	9.7	50.0
\$ 157 Phenol-d5	2.05308	2.03153	0.010	-1.0	50.0
\$ 158 2-Fluorophenol	1.49596	1.47256	0.010	-1.6	50.0
\$ 159 2,4,6-Tribromophencl	0.13725	0.13519	0.010	-1.5	50.0
\$ 186 2-Chlorophenol-d4	1.19379	1.15538	0.010	-3.2	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.91119	0.93715	0.010	2.8	50.0
M 195 Cresols, total	3.16225	3.12390	0.010	-1.2	50.0
101 Diphenylamine	0.60584	0.56353	0.010	-7.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 25-JUL-2000 09:34
 Lab File ID: 9AM0725.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00725a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	0.97555	1.37585	0.010	41.0	50.0
8 Ethyl methanesulfonate	1.53086	1.71148	0.010	11.8	50.0
14 2-Picoline	1.95189	1.90856	0.010	-2.2	50.0
15 N-Nitrosomethylethylamine	0.97083	0.92796	0.010	-4.4	50.0
16 Methyl methanesulfonate	1.25403	1.49089	0.010	18.9	50.0
18 1,3-Dichloro-2-propanol	2.15164	2.29796	0.010	6.8	50.0
19 N-Nitrosodiethylamine	0.86951	0.93352	0.010	7.4	50.0
25 Pentachloroethane	0.59897	0.65766	0.010	9.8	50.0
36 N-Nitroscpyrrolidine	0.74599	0.92650	0.010	24.2	50.0
37 Acetophenone	2.41067	2.55372	0.010	5.9	50.0
39 o-Toluidine	2.08104	2.65487	0.010	27.6	50.0
40 N-Nitroscpiperidine	0.20798	0.20736	0.010	-0.3	50.0
45 O,O,O-Triethyl phosphorothi	0.20249	0.21953	0.010	8.4	50.0
53 a,a-Dimethyl-phenethylamine	0.95682	0.93276	0.010	-2.5	50.0
54 2,6-Dichlorophenol	0.25801	0.29311	0.010	13.6	50.0
55 Hexachloropropene	0.21028	0.23648	0.010	12.5	50.0
58 N-Nitrosodi-n-butylamine	0.37040	0.42790	0.010	15.5	50.0
60 p-Phenylene diamine	0.18885	0.14286	0.010	-24.4	50.0
61 Safrole	0.28100	0.29858	0.010	6.3	50.0
65 1,2,4,5-Tetrachlorobenzene	0.54905	0.60462	0.010	10.1	50.0
71 Isosafrole 1	0.15079	0.14614	0.010	-3.1	50.0
M 188 Isosafrole, Total	0.98004	1.19797	0.010	22.2	50.0
72 Isosafrole 2	0.82925	1.05182	0.010	26.8	50.0
75 1,4-Naphthoquinone	0.35231	0.34315	0.010	-2.6	50.0
84 Pentachlorobenzene	0.42329	0.47520	0.010	12.3	50.0
89 1-Naphthylamine	0.82560	0.78751	0.010	-4.6	50.0
92 2-Naphthylamine	0.71492	0.63590	0.010	-11.1	50.0
90 Zinophos	0.38899	0.45670	0.010	17.4	50.0
102 Tetraethyl dithiopyrophosph	0.11973	0.14519	0.010	21.3	50.0
103 Diallate 1	0.99575	1.17227	0.010	17.7	50.0
M 189 Diallate, Total	3.39732	4.29021	0.010	26.3	50.0
109 Diallate 2	0.19193	0.20274	0.010	5.6	50.0
104 Phorate	0.18945	0.21092	0.010	11.3	50.0
105 1,3,5-Trinitrobenzene	0.07683	0.07930	0.010	3.2	50.0
108 Phenacetin	0.42200	0.50382	0.010	19.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 25-JUL-2000 09:34
 Lab File ID: 9AM0725.D Init. Cal. Date(s): 10-JUL-2000 17-JUL-2000
 Analysis Type: Init. Cal. Times: 11:30 15:09
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
110 Dimethoate	0.44544	0.49149	0.010	10.3	50.0
112 Pentachloronitrobenzene	0.12838	0.17686	0.010	37.8	50.0
113 4-Aminobiphenyl	0.53082	0.45447	0.010	-16.4	50.0
114 Pronamide	0.37767	0.44554	0.010	18.0	50.0
117 Dinoseb	0.15463	0.18491	0.010	19.6	50.0
118 Disulfoton	0.63794	0.78823	0.010	11.0	50.0
121 4-Nitroquinoline 1-oxide	0.04847	0.04393	0.010	-9.4	50.0
122 Methapyrilene	0.43229	0.48639	0.010	12.5	50.0
126 Aramite 1	0.09758	0.10986	0.010	12.6	50.0
M 191 Aramite, Total	0.46960	0.56066	0.010	19.4	50.0
127 Aramite 2	0.13728	0.15361	0.010	11.9	50.0
128 p-Dimethylamino azobenzene	0.31521	0.34177	0.010	8.4	50.0
129 p-Chlorobenzilate	0.67086	0.83892	0.010	35.1	50.0
130 Famphur	0.45223	0.53447	0.010	18.2	50.0
132 3,3'-Dimethylbenzidine	0.31434	0.31291	0.010	-0.5	50.0
134 2-Acetylamino fluorene	0.38268	0.44711	0.010	16.8	50.0
143 7,12-dimethylbenz[<i>a</i>]anthrac	0.80501	0.67411	0.010	-16.3	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.70392	0.62424	0.010	-11.3	50.0
193 3-Methylphenol	1.45546	1.76481	0.010	21.3	50.0
69 1,4-Dinitrobenzene	0.16523	0.16068	0.010	-2.8	50.0
77 m-Dinitrobenzene	0.18177	0.17182	0.010	-5.5	50.0
198 1,4-Dioxane	0.87147	0.76634	0.010	-12.1	50.0
88 2,3,4,6-Tetrachlorophenol	0.19506	0.23933	0.010	22.7	50.0
97 5-Nitro-o-toluidine	0.25616	0.24364	0.010	-4.9	50.0
199 3-Picoline	1.59098	1.53617	0.010	-3.4	50.0
200 N,N-Dimethylacetamide	1.43815	1.57668	0.010	9.6	50.0

DB
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 7DF0712A

DFTPP Injection Date: 07/12/00

Instrument ID: A4HP7

DFTPP Injection Time: 0727

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.0
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	40.0 - 60.0% of mass 198	48.6
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.0% of mass 198	2.0
441	Present, but less than mass 443	7.2
442	40.0 - 100.0% of mass 198	48.5
443	17.0 - 23.0% of mass 442	9.1 (18.8)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD002	ASTD002	7AL0712	07/12/00	0746
02	ASTD005	ASTD005	7AML0712	07/12/00	0823
03	ASTD008	ASTD008	7AM0712	07/12/00	0900
04	ASTD012	ASTD012	7AMH0712	07/12/00	0938
05	ASTD016	ASTD016	7AH0712	07/12/00	1014
06	ASTD020	ASTD020	7AHH0712	07/12/00	1052
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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 7DF0718G

DFTPP Injection Date: 07/18/00

Instrument ID: A4HP7

DFTPP Injection Time: 1552

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.7
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	49.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	46.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	6.3
442	40.0 - 100.0% of mass 198	42.5
443	17.0 - 23.0% of mass 442	7.7 (18.2)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	7SML0718	07/18/00	1612
02	SSTD008	SSTD008	7SMO718	07/18/00	1650
03	SSTD002	SSTD002	7SL0718	07/18/00	1727
04	SSTD012	SSTD012	7SMH0718	07/18/00	1804
05	SSTD016	SSTD016	7SH0718	07/18/00	1842
06	SSTD020	SSTD020	7SHH0718	07/18/00	1919
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STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 07:46
 End Cal Date : 18-JUL-2000 19:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SL0718.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SML0718.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SM0718.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SMH0718.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SH0718.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\7SHH0718.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	t RSD
198 1,4-Dioxane	0.61792	0.63068	0.66057	0.73625	0.71437	0.73189	0.68194	7.670
7 N-Nitrosomorpholine	0.82855	0.80793	0.79608	0.80184	0.78673	0.77391	0.79917	2.341
8 Ethyl methanesulfonate	1.31223	1.32378	1.31804	1.35254	1.35558	1.33863	1.33346	1.368
9 Pyridine	1.62798	1.61479	1.62875	1.59567	1.73211	1.68080	1.64668	3.067
10 N-Nitrosodimethylamine	0.93381	0.97847	0.96242	0.93404	0.96704	0.94277	0.95309	1.973
11 Ethyl methacrylate	1.49710	1.42590	1.36199	1.39718	1.44036	1.37880	1.41689	3.446
12 3-Chloropropionitrile	0.63116	0.64503	0.61351	0.60143	0.63247	0.63565	0.62654	2.555
13 Malononitrile	1.33704	1.34578	1.28983	1.28223	1.30927	1.24230	1.30108	2.936
14 2-Picoline	1.69490	1.75791	1.72424	1.84156	1.80576	1.71554	1.75665	3.238
15 N-Nitrosomethylethylamine	0.74728	0.77270	0.80457	0.85192	0.85126	0.83416	0.81031	5.350
16 Methyl methanesulfonate	1.10104	1.06687	1.00117	1.09879	1.09325	1.08504	1.07436	3.530
18 1,3-Dichloro-2-propanol	1.94965	1.90980	1.92241	1.98875	1.94991	1.92019	1.94012	1.491
19 N-Nitrosodiethylamine	0.72184	0.72121	0.73355	0.76067	0.75362	0.74620	0.73951	2.242
21 Aniline	2.34936	2.39935	2.33506	2.28661	2.32655	2.23789	2.32247	2.378
22 Phenol	2.05649	2.07285	1.99945	1.93986	1.98565	1.88541	1.98995	3.543
23 bis(2-Chloroethyl)ether	1.47885	1.47888	1.40929	1.37579	1.39288	1.32648	1.41036	4.245
24 2-Chlorophenol	1.31204	1.29627	1.24081	1.22195	1.24320	1.19781	1.25201	3.501
25 Pentachloroethane	0.56095	0.54111	0.54093	0.56555	0.54394	0.54378	0.54938	1.988
26 1,3-Dichlorobenzene	1.44207	1.40410	1.32358	1.32310	1.36478	1.30321	1.36014	3.975
27 1,4-Dichlorobenzene	1.42216	1.38818	1.36383	1.32893	1.35965	1.29989	1.36044	3.162
28 1,2-Dichlorobenzene	1.31153	1.28478	1.23635	1.20747	1.22608	1.16549	1.23861	4.261
29 Benzyl Alcohol	0.99836	1.02465	0.96829	0.94002	0.95330	0.91041	0.96584	4.248
30 2-Methylphenol	1.37737	1.41709	1.33681	1.30564	1.32799	1.27442	1.33989	3.802
31 bis(2-Chloroisopropyl)ether	1.04272	1.02225	1.09266	0.98820	1.00312	0.96465	1.01893	4.423
32 N-Nitroso-di-n-propylamine	1.18441	1.19829	1.13445	1.11786	1.14017	1.08446	1.14327	3.693

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 07:46
 End Cal Date : 18-JUL-2000 19:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
M 195 Cresols, total	2.81202	2.86410	2.70435	2.61549	2.65854	2.53390	2.69807	4.567
192 4-Methylphenol	1.43465	1.44701	1.36753	1.30985	1.33055	1.25948	1.35818	5.377
193 3-Methylphenol	1.48022	1.43862	1.40303	1.43653	1.41858	1.37432	1.42522	2.522
34 Hexachloroethane	0.61573	0.62807	0.62080	0.59929	0.61022	0.58157	0.60928	2.742
35 Nitrobenzene	0.54681	0.56081	0.52865	0.52928	0.53233	0.51030	0.53470	3.234
36 N-Nitrosopyrrolidine	0.69693	0.75388	0.75850	0.79589	0.79997	0.80785	0.76884	5.433
37 Acetophenone	2.01581	2.11537	1.96402	1.90403	1.93226	1.83989	1.96190	4.866
39 o-Toluidina	2.33647	2.28111	2.28101	2.30709	2.24582	2.19232	2.27397	2.204
40 N-Nitrosopiperidine	0.18340	0.18945	0.18653	0.19966	0.19216	0.19736	0.19143	3.268
41 Isophorone	0.88187	0.88435	0.87114	0.83297	0.84138	0.80932	0.85350	3.549
42 2-Nitrophenol	0.18212	0.19207	0.18772	0.18328	0.18474	0.18073	0.18511	2.253
43 2,4-Dimethylphenol	0.44447	0.44942	0.43695	0.43048	0.43143	0.41635	0.43485	2.686
44 bis(2-Chloroethoxy)methane	0.52956	0.53312	0.48979	0.50226	0.50158	0.47801	0.50572	4.305
45 O,O,O-Triethyl phosphorothioa	0.19103	0.18620	0.17937	0.18605	0.18150	0.17745	0.18360	2.756
46 2,4-Toluediamene	0.15747	0.04509	0.05543	0.07251	0.09401	0.08595	0.08508	46.889
47 1,3,5-Trichlorobenzene	0.35520	0.35479	0.33780	0.32728	0.32511	0.31257	0.33546	5.106
48 2,4-Dichlorophenol	0.29874	0.31033	0.29948	0.28899	0.29173	0.27945	0.29478	3.582
49 Benzoic Acid	+++++	0.19054	0.18231	0.18358	0.17944	0.16847	0.18087	4.447
50 1,2,4-Trichlorobenzene	0.32460	0.32596	0.33230	0.30816	0.30768	0.29376	0.31541	4.621
51 Naphthalene	1.08447	1.07305	1.03316	0.99795	0.98831	0.93880	1.01929	5.414
52 4-Chloroaniline	0.42876	0.44812	0.43018	0.42677	0.43236	0.41430	0.43008	2.530
53 a,a-Dimethyl-phenethylamine	0.56041	0.72992	0.78787	0.85662	0.87016	0.91101	0.78599	16.267
54 2,6-Dichlorophenol	0.28059	0.27687	0.27185	0.28271	0.27543	0.27671	0.27736	1.385
55 Hexachloropropene	0.22142	0.22758	0.22055	0.24224	0.23486	0.23390	0.23009	3.674
56 Hexachlorobutadiene	0.24432	0.24088	0.22305	0.21678	0.21645	0.20277	0.22404	7.080
57 1,2,3-Trichlorobenzene	0.32601	0.31970	0.30784	0.29704	0.29399	0.28571	0.30505	5.126
58 N-Nitrosodi-n-butylamine	0.30508	0.31625	0.30281	0.31095	0.30248	0.29950	0.30618	2.041
59 4-Chloro-3-Methylphenol	0.38703	0.40820	0.39235	0.38424	0.38961	0.37447	0.38932	2.854
60 p-Phenylene diamine	0.29772	0.34301	0.35036	0.39421	0.39476	0.42193	0.36700	12.295
61 Safrole	0.27326	0.27273	0.27091	0.27699	0.26904	0.26682	0.27163	1.306
62 2-Methylnaphthalene	0.67820	0.68482	0.65910	0.63648	0.63464	0.60987	0.65052	4.412
63 1-Methylnaphthalene	0.68268	0.67978	0.64768	0.63077	0.62570	0.60170	0.64472	4.947
64 Hexachlorocyclopentadiene	0.29023	0.36639	0.36895	0.36554	0.37891	0.35821	0.35470	9.103

STL - North Canton

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.65134	0.59686	0.62255	0.61428	0.58768	0.56565	0.60639	4.917
66 2,4,6-Trichlorophenol	0.38982	0.41251	0.38852	0.38126	0.38706	0.37311	0.38871	3.392
67 2,4,5-Trichlorophenol	0.42247	0.44535	0.41232	0.40077	0.41306	0.39799	0.41533	4.141
68 1,2,3,5-Tetrachlorobenzene	0.65390	0.61909	0.60270	0.57785	0.57848	0.55213	0.59736	6.027
69 1,4-Dinitrobenzene	0.18511	0.21067	0.22215	0.22877	0.23137	0.23471	0.21880	8.484
70 2-Chloronaphthalene	1.09096	1.05174	1.01948	0.97330	0.97608	0.93966	1.00854	5.577
71 Isosafrole 1	0.14777	0.14622	0.15756	0.15950	0.15613	0.15718	0.15406	3.636
M 188 Isosafrole, Total	1.11250	1.06911	1.10812	1.09788	1.04246	1.02766	1.07629	3.311
72 Isosafrole 2	0.96472	0.92289	0.95056	0.93838	0.88634	0.87048	0.92223	4.009
73 2-Nitroaniline	0.43464	0.47435	0.43801	0.44319	0.45960	0.44876	0.44976	3.316
74 1,2,3,4-Tetrachlorobenzene	0.61635	0.59521	0.56035	0.55277	0.55687	0.53482	0.56940	5.316
75 1,4-Naphthoquinone	0.36253	0.42829	0.44317	0.46446	0.45158	0.45354	0.43393	8.525
76 Dimethylphthalate	1.32323	1.35798	1.22602	1.23062	1.25047	1.21343	1.26696	4.681
77 m-Dinitrobenzene	0.20598	0.23686	0.24586	0.25116	0.25299	0.25322	0.24101	7.567
78 2,6-Dinitrotoluene	0.26451	0.29147	0.28092	0.27883	0.28203	0.27830	0.27934	3.113
79 Acenaphthylene	1.93867	1.90472	1.78659	1.73748	1.73788	1.66687	1.79537	5.881
80 1,2-Dinitrobenzene	0.15620	0.16801	0.15046	0.15235	0.15507	0.15303	0.15585	4.035
81 3-Nitroaniline	0.28116	0.31631	0.29165	0.30481	0.31639	0.31113	0.30358	4.726
82 Acenaphthene	1.20634	1.18598	1.11847	1.09336	1.10235	1.05923	1.12762	5.044
83 2,4-Dinitrophenol	+++++	0.12153	0.11687	0.12954	0.14391	0.14832	0.13203	10.392<-
84 Pentachlorobenzene	0.50936	0.47789	0.48820	0.48624	0.46935	0.45771	0.48146	3.681
85 4-Nitrophenol	0.15951	0.23349	0.21733	0.22361	0.22507	0.21964	0.21311	12.595
86 Dibenzofuran	1.75931	1.72612	1.60319	1.55760	1.56010	1.49748	1.61730	6.390
87 2,4-Dinitrotoluene	0.37424	0.41075	0.38667	0.37748	0.39144	0.38495	0.38759	3.343
88 2,3,4,5-Tetrachlorophenol	0.25786	0.28942	0.30403	0.30904	0.31263	0.31291	0.29765	7.172
89 1-Naphthylamine	1.05378	1.07066	1.14146	1.14214	1.11061	1.12268	1.10689	3.340
90 Zinophos	0.36399	0.38777	0.39368	0.37786	0.36172	0.35115	0.37270	4.417
91 2,3,5,6-Tetrachlorophenol	0.32906	0.39799	0.37310	0.36202	0.38077	0.37011	0.36884	6.231
92 2-Naphthylamine	1.07632	1.04781	1.09966	1.10744	1.09566	1.10866	1.08926	2.150
93 Diethylphthalate	1.38813	1.44089	1.37589	1.30387	1.31108	1.24191	1.34363	5.312
94 Fluorene	1.33359	1.32254	1.25019	1.22177	1.22587	1.17640	1.25506	4.898
95 4-Chlorophenyl-phenylether	0.74577	0.74818	0.70629	0.67023	0.68079	0.65796	0.70153	5.507
96 4-Nitroaniline	0.21831	0.27381	0.25665	0.26408	0.27149	0.25964	0.25733	7.862

STL - North Canton

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
97 5-Nitro-o-toluidine	0.30566	0.34292	0.36839	0.37250	0.36064	0.35914	0.35154	7.017
98 4,6-Dinitro-2-methylphenol	+++++	0.11251	0.11103	0.11146	0.12139	0.12261	0.11580	4.923 <-
99 N-Nitrosodiphenylamine	0.55471	0.55001	0.52715	0.51817	0.53061	0.50534	0.53100	3.535
100 1,2-Diphenylhydrazine	0.99546	0.99657	0.95310	0.92969	0.93912	0.87873	0.94878	4.677
101 Diphenylamine	0.55471	0.55001	0.52715	0.51817	0.53061	0.50534	0.53100	3.535
102 Tetraethyl dithiopyrophosphat	0.10330	0.10334	0.10361	0.10317	0.09999	0.09556	0.10149	3.161
103 Diallate 1	0.82712	0.74420	0.75868	0.70929	0.65633	0.60962	0.71754	10.772
M 189 Diallate, Total	3.28722	3.24656	3.15308	2.89184	2.82982	2.73170	3.02337	7.772
104 Phorate	0.15768	0.15317	0.15309	0.14350	0.13653	0.12855	0.14542	7.759
105 1,3,5-Trinitrobenzene	0.04954	0.07160	0.07763	0.08278	0.08580	0.08427	0.07527	18.114
106 4-Bromophenyl-phenylether	0.22325	0.22404	0.21273	0.20519	0.20913	0.19823	0.21209	4.791
107 Hexachlorobenzene	0.23957	0.22411	0.21935	0.20976	0.21222	0.20409	0.21818	5.794
108 Phenacetin	0.36356	0.39232	0.40956	0.41278	0.41393	0.40372	0.39931	4.813
109 Diallate 2	0.13033	0.13183	0.13651	0.13517	0.13804	0.13312	0.13417	2.182
110 Dimethoate	0.35406	0.37549	0.38047	0.37927	0.36651	0.35584	0.36861	3.166
111 Pentachlorophenol	0.08252	0.13498	0.12969	0.12118	0.12741	0.12431	0.12001	15.800
112 Pentachloronitrobenzene	0.09049	0.09362	0.09281	0.09122	0.08643	0.08099	0.08926	5.333
113 4-Aminobiphenyl	0.61776	0.55731	0.61432	0.62212	0.61021	0.58513	0.60114	4.175
114 Pronamide	0.31250	0.32925	0.33916	0.33720	0.32684	0.31427	0.32654	3.432
115 Phenanthrene	1.09469	1.07961	1.03745	0.98671	0.99375	0.94543	1.02294	5.657
116 Anthracene	1.02960	1.04886	1.03125	0.95605	0.95669	0.88647	0.98482	6.350
117 Dinoseb	0.10539	0.15590	0.16701	0.17729	0.19044	0.18944	0.16425	19.315
118 Disulfoton	0.54527	0.53374	0.54416	0.52697	0.51146	0.47871	0.52338	4.810
119 Carbazole	0.88679	0.92000	0.88865	0.83394	0.84289	0.78028	0.85876	5.812
120 Di-n-Butylphthalate	1.30156	1.26264	1.25167	1.18405	1.17289	1.07873	1.30859	6.636
121 4-Nitroquinoline 1-oxide	0.02734	0.05916	0.06920	0.08411	0.09212	0.09719	0.07152	36.202
122 Methapyrilene	0.30774	0.32821	0.30319	0.33292	0.30092	0.28998	0.31049	5.370
123 Fluoranthene	1.21487	1.19653	1.17722	1.07268	1.08386	0.98903	1.12237	7.848
124 Benzidine	0.28699	0.46676	0.56591	0.65902	0.75192	0.75066	0.58021	31.195
125 Pyrene	1.76992	1.79004	1.75177	1.68404	1.82587	1.74589	1.76125	2.707
126 Aramite 1	0.07448	0.08337	0.08922	0.09259	0.08364	0.08289	0.08437	7.358
M 191 Aramite, Total	0.44011	0.54494	0.53023	0.53642	0.55533	0.55167	0.52645	8.228
127 Aramite 2	0.10513	0.11625	0.12364	0.12810	0.11726	0.11510	0.11758	6.700

0.02551
 0.0715
 0.36191
 36.19

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUL-2000 07:46
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 Quant Method : ISTD
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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp7.i\00718a.b\8270c.m
 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.27796	0.29015	0.31228	0.31420	0.29828	0.28923	0.29702	4.763
129 p-Chlorobenzilate	0.49000	0.47503	0.50833	0.50002	0.45280	0.43077	0.47616	6.232
130 Famphur	0.52574	0.42423	0.38509	0.31051	0.19551	0.16897	0.33501	41.032
131 Butylbenzylphthalate	0.71245	0.74305	0.71560	0.70326	0.78040	0.75087	0.73427	3.978
132 3,3'-Dimethylbenzidine	0.53219	0.44783	0.51031	0.54670	0.51843	0.52028	0.51262	6.667
133 3,3'-Dimethoxybenzidine	0.21156	0.21983	0.23216	0.24470	0.26512	0.26638	0.23996	9.550
134 2-Acetylaminofluorene	0.25782	0.37385	0.37379	0.42618	0.42597	0.43683	0.38241	17.521
135 3,3'-Dichlorobenzidine	0.33984	0.40128	0.37973	0.39254	0.40613	0.40248	0.38700	6.452
136 Benzo(a)Anthracene	1.34408	1.34390	1.33021	1.28498	1.33060	1.30185	1.32260	1.815
137 Chrysene	1.29816	1.34390	1.29623	1.28028	1.34891	1.31648	1.31399	2.104
138 4,4'-Methylene bis(o-chloroan	0.22537	0.25051	0.23962	0.24831	0.25857	0.25579	0.24636	4.955
139 bis(2-ethylhexyl)Phthalate	0.97585	0.96876	0.96232	0.93954	1.01710	0.97788	0.97358	2.609
140 Di-n-octylphthalate	2.16430	1.89422	1.93789	1.83767	1.92621	1.72611	1.91440	7.566
141 Benzo(b)fluoranthene	1.44694	1.38254	1.34787	1.28364	1.35692	1.26877	1.34778	4.863
142 Benzo(k)fluoranthene	1.43666	1.36444	1.35130	1.34395	1.33910	1.26143	1.34948	4.155
143 7,12-dimethylbenz(a)anthracen	0.83322	0.78370	0.69794	0.82489	0.79219	0.75908	0.78184	6.308
144 Hexachlorophene	++++	++++	++++	++++	++++	++++	++++	++++ <-
145 Hexachlorophene product	++++	++++	++++	++++	++++	++++	++++	++++ <-
146 Benzo(a)pyrene	1.14404	1.15663	1.14560	1.09551	1.13853	1.08180	1.12702	2.715
148 3-Methylcholanthrene	0.72605	0.70423	0.60228	0.74767	0.71814	0.71456	0.70215	7.271
149 Indeno(1,2,3-cd)pyrene	0.72591	0.84223	0.80148	0.78210	0.84125	0.83339	0.80440	5.641
150 Dibenz(a,h)anthracene	0.69283	0.82510	0.79417	0.76341	0.82612	0.82686	0.78808	6.724
151 Benzo(g,h,i)perylene	0.72665	0.83885	0.80311	0.75952	0.82321	0.83073	0.79701	5.602
199 3-Picoline	1.68757	1.69335	1.67584	1.79447	1.75336	1.72251	1.72118	2.646
200 N,N-Dimethylacetamide	0.83457	0.97910	0.99474	1.04215	1.03509	1.02548	0.98519	7.885
201 Quinoline	++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysene	++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	0.53620	0.74647	0.82423	0.89034	0.89057	0.75251	0.77339	17.096

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 Cal Date : 18-Jul-2000 20:29 gruberj
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11374	0.13220	0.12440	0.12027	0.12474	0.12225	0.12293	4.927
211 1,1'-Biphenyl	1.48710	1.41414	1.33052	1.30025	1.30150	1.23984	1.34556	6.658
212 Atrazine	0.21732	0.21217	0.21037	0.19703	0.19373	0.18300	0.20227	6.490
213 2-Chloroacetophenone	0.73979	0.76191	0.74465	0.77572	0.75836	0.75896	0.75657	1.701
\$ 154 Nitrobenzene-d5	0.51316	0.52716	0.51612	0.50110	0.50716	0.48853	0.50887	2.611
\$ 155 2-Fluorobiphenyl	1.34577	1.33621	1.27323	1.23511	1.24368	1.18918	1.27053	4.797
\$ 156 Terphenyl-d14	1.13127	1.12598	1.12142	1.07214	1.17650	1.14086	1.12803	2.992
\$ 157 Phenol-d5	1.79029	1.81392	1.70483	1.68696	1.73743	1.65554	1.73150	3.537
\$ 158 2-Fluorophenol	1.20804	1.27056	1.28435	1.26338	1.31073	1.26497	1.26700	2.669
\$ 159 2,4,6-Tribromophenol	0.12003	0.14076	0.13732	0.14475	0.15804	0.15936	0.14338	10.160
\$ 186 2-Chlorophenol-d4	1.18945	1.20517	1.15648	1.11749	1.15531	1.10242	1.15439	3.438
\$ 187 1,2-Dichlorobenzene-d4	0.90415	0.87644	0.86374	0.81041	0.81761	0.77729	0.84161	5.649

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP015
 Lab File ID: 7DF0719D DFTPP Injection Date: 07/19/00
 Instrument ID: A4HP7 DFTPP Injection Time: 1424

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.2
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	51.6
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	47.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.0% of mass 198	2.0
441	Present, but less than mass 443	6.0
442	40.0 - 100.0% of mass 198	41.2
443	17.0 - 23.0% of mass 442	7.1 (17.4)2

1-Value is % of mass 69 2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD008	ASTD008	7AM0719	07/19/00	1520
02	SSTD008	SSTD008	7SM0719A	07/19/00	1556
03	DG9CDBLK	DG9CD101	DG9CD101	07/19/00	1633
04	DG9CDCHK	DG9CD102	DG9CD102	07/19/00	1710
05	MPT-G4-SU-18	DFN4220W	DFN4220W	07/19/00	1747
06	MPT-G4-SU-21	DFN4520W	DFN4520W	07/19/00	1824
07					
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STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 19-JUL-2000 15:20
 Lab File ID: 7AM0719.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.79917	0.72897	0.010	-8.8	50.0
8 Ethyl methanesulfonate	1.33346	1.19645	0.010	-10.3	50.0
14 2-Picoline	1.75665	1.51020	0.010	-14.0	50.0
15 N-Nitrosomethylethylamine	0.81031	0.71871	0.010	-11.3	50.0
16 Methyl methanesulfonate	1.07436	0.96897	0.010	-9.8	50.0
18 1,3-Dichloro-2-propanol	1.94012	1.69909	0.010	-12.4	50.0
19 N-Nitrosodiethylamine	0.73951	0.67863	0.010	-8.2	50.0
25 Pentachloroethane	0.54938	0.58992	0.010	7.4	50.0
36 N-Nitrosopyrrolidine	0.76884	0.69182	0.010	-10.0	50.0
37 Acetophenone	1.96190	2.02109	0.010	3.0	50.0
39 o-Toluidine	2.27397	2.19192	0.010	-3.6	50.0
40 N-Nitrosopiperidine	0.19143	0.18118	0.010	-5.4	50.0
45 O,O,O-Triethyl phosphorothi	0.18360	0.20087	0.010	9.4	50.0
53 a,a-Dimethyl-phenethylamine	0.78599	0.52600	0.010	-33.1	50.0
54 2,6-Dichlorophenol	0.27736	0.28501	0.010	2.8	50.0
55 Hexachloropropene	0.23009	0.24895	0.010	8.2	50.0
58 N-Nitrosodi-n-butylamine	0.30618	0.29858	0.010	-2.5	50.0
60 p-Phenylene diamine	0.36700	0.29242	0.010	-20.3	50.0
61 Safrole	0.27163	0.28144	0.010	3.6	50.0
65 1,2,4,5-Tetrachlorobenzene	0.60639	0.63357	0.010	4.5	50.0
71 Isosafrole 1	0.15406	0.14787	0.010	-4.0	50.0
M 188 Isosafrole, Total	1.07629	1.04820	0.010	-2.6	50.0
72 Isosafrole 2	0.92223	0.90032	0.010	-2.4	50.0
75 1,4-Naphthoquinone	0.43393	0.42313	0.010	-2.5	50.0
84 Pentachlorobenzene	0.48146	0.53546	0.010	11.2	50.0
89 1-Naphthylamine	1.10689	1.05884	0.010	-4.3	50.0
92 2-Naphthylamine	1.08926	1.00035	0.010	-8.2	50.0
90 Zinophos	0.37270	0.37702	0.010	1.2	50.0
102 Tetraethyl dithiopyrophosph	0.10149	0.12058	0.010	18.8	50.0
103 Diallate 1	0.71754	0.69124	0.010	-3.7	50.0
M 189 Diallate, Total	3.02337	3.18747	0.010	5.4	50.0
109 Diallate 2	0.13417	0.12557	0.010	-6.4	50.0
104 Phorate	0.14542	0.14637	0.010	0.7	50.0
105 1,3,5-Trinitrobenzene	0.07527	0.08059	0.010	7.1	50.0
108 Phenacetin	0.39931	0.36529	0.010	-8.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 19-JUL-2000 15:20
 Lab File ID: 7AM0719.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANO05\dd\chem\MSS\a4hp7.i\00719a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
110 Dimethoate	0.36861	0.31857	0.010	-13.6	50.0
112 Pentachloronitrobenzene	0.08926	0.11683	0.010	30.9	50.0
113 4-Aminobiphenyl	0.60114	0.61773	0.010	2.8	50.0
114 Pronamide	0.32654	0.35285	0.010	8.1	50.0
117 Dinoseb	0.16425	0.16122	0.010	-1.8	50.0
118 Disulfoton	0.52338	0.48244	0.010	-7.8	50.0
121 4-Nitroquinoline 1-oxide	0.07152	0.04817	0.010	-32.6	50.0
122 Methapyrilene	0.31049	0.20259	0.010	-34.8	50.0
126 Aramite 1	0.08437	0.10623	0.010	25.9	50.0
M 191 Aramite, Total	0.52645	0.57338	0.010	8.9	50.0
127 Aramite 2	0.11758	0.14579	0.010	24.0	50.0
128 p-Dimethylamino azobenzene	0.29702	0.35044	0.010	18.0	50.0
129 p-Chlorobenzilate	0.47616	0.57000	0.010	19.7	50.0
130 Famphur	0.33501	0.41102	0.010	22.7	50.0
132 3,3'-Dimethylbenzidine	0.51262	0.57374	0.010	11.9	50.0
134 2-Acetylaminofluorene	0.38241	0.41701	0.010	9.0	50.0
143 7,12-dimethylbenz[a]anthrac	0.78184	0.69640	0.010	-10.9	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.70215	0.60376	0.010	-14.0	50.0
193 3-Methylphenol	1.42522	1.47443	0.010	3.5	50.0
69 1,4-Dinitrobenzene	0.21880	0.21967	0.010	0.4	50.0
77 m-Dinitrobenzene	0.24101	0.24211	0.010	0.5	50.0
198 1,4-Dioxane	0.68194	0.58354	0.010	-14.4	50.0
88 2,3,4,6-Tetrachlorophenol	0.29765	0.32462	0.010	9.1	50.0
97 5-Nitro-o-toluidine	0.35154	0.33395	0.010	-5.0	50.0
199 3-Picoline	1.72118	1.38238	0.010	-19.7	50.0
200 N,N-Dimethylacetamide	0.98519	0.74453	0.010	-24.4	50.0
213 2-Chloroacetophenone	0.75657	0.72414	0.010	-4.3	50.0

Handwritten notes:
 0.07152 - 0.07152 (100)
 0.07152
 31.05

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 19-JUL-2000 15:56
 Lab File ID: 7SM0719A.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.64668	1.54516	0.010	-6.2	50.0
10 N-Nitrosodimethylamine	0.95309	0.93400	0.010	-2.0	50.0
11 Ethyl methacrylate	1.41689	1.39408	0.010	-1.6	50.0
12 3-Chloropropionitrile	0.62654	0.62392	0.010	-0.4	50.0
13 Malononitrile	1.30108	1.23936	0.010	-4.7	50.0
209 Benzaldehyde	0.77339	0.80945	0.010	4.7	50.0
21 Aniline	2.32247	2.30743	0.010	-0.6	50.0
22 Phenol	1.98995	1.98425	0.010	-0.3	20.0
23 bis(2-Chloroethyl) ether	1.41036	1.38140	0.010	-2.1	50.0
24 2-Chlorophenol	1.25201	1.25827	0.010	0.5	50.0
26 1,3-Dichlorobenzene	1.36014	1.34503	0.010	-1.1	50.0
27 1,4-Dichlorobenzene	1.36044	1.39431	0.010	2.5	20.0
28 1,2-Dichlorobenzene	1.23861	1.26763	0.010	2.3	50.0
29 Benzyl Alcohol	0.96584	0.94326	0.010	-2.3	50.0
30 2-Methylphenol	1.33989	1.32113	0.010	-1.4	50.0
31 bis(2-Chloroisopropyl) ether	1.01893	1.07539	0.010	5.5	50.0
37 Acetophenone	1.96190	1.95468	0.010	-0.4	50.0
32 N-Nitroso-di-n-propylamine	1.14327	1.11454	0.050	-2.5	50.0
192 4-Methylphenol	1.35818	1.36190	0.010	0.3	50.0
34 Hexachloroethane	0.60928	0.61408	0.010	0.8	50.0
35 Nitrobenzene	0.53470	0.51792	0.010	-3.1	50.0
41 Isophorone	0.85350	0.85408	0.010	0.1	50.0
42 2-Nitrophenol	0.18511	0.18530	0.010	0.1	20.0
43 2,4-Dimethylphenol	0.43485	0.42908	0.010	-1.3	50.0
44 bis(2-Chloroethoxy) methane	0.50572	0.47486	0.010	-6.1	50.0
46 2,4-Toluenediamine	0.08508	0.04066	0.010	-52.2	50.0
47 1,3,5-Trichlorobenzene	0.33546	0.34738	0.010	3.6	50.0
48 2,4-Dichlorophenol	0.29478	0.29472	0.010	-0.0	20.0
49 Benzoic Acid	0.18087	0.16336	0.010	-9.7	50.0
50 1,2,4-Trichlorobenzene	0.31541	0.32870	0.010	4.2	50.0
51 Naphthalene	1.01929	1.02682	0.010	0.7	50.0
52 4-Chloroaniline	0.43008	0.42439	0.010	-1.3	50.0
56 Hexachlorobutadiene	0.22404	0.22795	0.010	1.7	20.0
210 Caprolactam	0.12293	0.12183	0.010	-0.9	50.0
57 1,2,3-Trichlorobenzene	0.30505	0.31287	0.010	2.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 19-JUL-2000 15:56
 Lab File ID: 7SM0719A.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.38932	0.38464	0.010	-1.2	20.0
62 2-Methylnaphthalene	0.65052	0.65941	0.010	1.4	50.0
63 1-Methylnaphthalene	0.64472	0.64426	0.010	-0.1	50.0
64 Hexachlorocyclopentadiene	0.35470	0.37234	0.050	5.0	50.0
66 2,4,6-Trichlorophenol	0.38871	0.39009	0.010	0.4	20.0
67 2,4,5-Trichlorophenol	0.41533	0.41292	0.010	-0.6	50.0
211 1,1'-Biphenyl	1.34556	1.33051	0.010	-1.1	50.0
68 1,2,3,5-Tetrachlorobenzene	0.59736	0.61817	0.010	3.5	50.0
70 2-Chloronaphthalene	1.00854	1.01880	0.010	1.0	50.0
73 2-Nitroaniline	0.44976	0.43000	0.010	-4.4	50.0
74 1,2,3,4-Tetrachlorobenzene	0.56940	0.57427	0.010	0.9	50.0
76 Dimethylphthalate	1.26696	1.22646	0.010	-3.2	50.0
78 2,6-Dinitrotoluene	0.27934	0.27921	0.010	-0.0	50.0
79 Acenaphthylene	1.79537	1.79765	0.010	0.1	50.0
80 1,2-Dinitrobenzene	0.15585	0.15343	0.010	-1.6	50.0
81 3-Nitroaniline	0.30358	0.28532	0.010	-6.0	50.0
82 Acenaphthene	1.12762	1.13284	0.010	0.5	20.0
83 2,4-Dinitrophenol	0.13203	0.09135	0.050	-30.8	50.0
85 4-Nitrophenol	0.21311	0.17597	0.050	-17.4	50.0
86 Dibenzofuran	1.61730	1.63125	0.010	0.9	50.0
87 2,4-Dinitrotoluene	0.38759	0.39720	0.010	2.5	50.0
91 2,3,5,6-Tetrachlorophenol	0.36884	0.38306	0.010	3.9	50.0
93 Diethylphthalate	1.34363	1.38361	0.010	3.0	50.0
94 Fluorene	1.25506	1.26864	0.010	1.1	50.0
95 4-Chlorophenyl-phenylether	0.70153	0.72404	0.010	3.2	50.0
96 4-Nitroaniline	0.25733	0.22930	0.010	-10.9	50.0
98 4,6-Dinitro-2-methylphenol	0.11580	0.10266	0.010	-11.3	50.0
99 N-Nitrosodiphenylamine	0.53100	0.54470	0.010	2.6	20.0
100 1,2-Diphenylhydrazine	0.94878	0.95500	0.010	0.7	50.0
106 4-Bromophenyl-phenylether	0.21209	0.22232	0.010	4.8	50.0
107 Hexachlorobenzene	0.21818	0.22536	0.010	3.3	50.0
212 Atrazine	0.20227	0.21326	0.010	5.4	50.0
111 Pentachlorophenol	0.12001	0.12004	0.010	0.0	20.0
115 Phenanthrene	1.02294	1.03633	0.010	1.3	50.0
116 Anthracene	0.98482	1.02996	0.010	4.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp7.i Injection Date: 19-JUL-2000 15:56
 Lab File ID: 7SM0719A.D Init. Cal. Date(s): 12-JUL-2000 18-JUL-2000
 Analysis Type: Init. Cal. Times: 07:46 19:19
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp7.i\00719a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.85876	0.79852	0.010	-7.0	50.0
120 Di-n-Butylphthalate	1.20859	1.24463	0.010	3.0	50.0
123 Fluoranthene	1.12237	1.05384	0.010	-6.1	20.0
124 Benzidine	0.58021	0.53957	0.010	-7.0	50.0
125 Pyrene	1.76125	1.80872	0.010	2.7	50.0
131 Butylbenzylphthalate	0.73427	0.70722	0.010	-3.7	50.0
133 3,3'-Dimethoxybenzidine	0.23996	0.23971	0.010	-0.1	50.0
135 3,3'-Dichlorobenzidine	0.38700	0.39186	0.010	1.3	50.0
136 Benzo(a)Anthracene	1.32260	1.34843	0.010	2.0	50.0
137 Chrysene	1.31399	1.30204	0.010	-0.9	50.0
138 4,4'-Methylene bis(o-chloro	0.24636	0.24279	0.010	-1.4	50.0
139 bis(2-ethylhexyl)Phthalate	0.97358	0.96403	0.010	-1.0	50.0
140 Di-n-octylphthalate	1.91440	2.00566	0.010	4.8	20.0
141 Benzo(b)fluoranthene	1.34778	1.39230	0.010	3.3	50.0
142 Benzo(k)fluoranthene	1.34948	1.38593	0.010	2.7	50.0
146 Benzo(a)pyrene	1.12702	1.16965	0.010	3.8	20.0
149 Indeno(1,2,3-cd)pyrene	0.80440	0.78701	0.010	-2.2	50.0
150 Dibenz(a,h)anthracene	0.78808	0.73876	0.010	-6.3	50.0
151 Benzo(g,h,i)perylene	0.79701	0.77906	0.010	-2.3	50.0
\$ 154 Nitrobenzene-d5	0.50887	0.50832	0.010	-0.1	50.0
\$ 155 2-Fluorobiphenyl	1.27053	1.29386	0.010	1.8	50.0
\$ 156 Terphenyl-d14	1.12803	1.17773	0.010	4.4	50.0
\$ 157 Phenol-d5	1.73150	1.68331	0.010	-2.8	50.0
\$ 158 2-Fluorophenol	1.26700	1.28155	0.010	1.1	50.0
\$ 159 2,4,6-Tribromophenol	0.14338	0.12404	0.010	-13.5	50.0
\$ 186 2-Chlorophenol-d4	1.15439	1.14281	0.010	-1.0	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.84161	0.86610	0.010	2.9	50.0
M 195 Cresols, total	2.69807	2.68303	0.010	-0.6	50.0
101 Diphenylamine	0.53100	0.54470	0.010	2.6	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 6DF0706D

DFTPP Injection Date: 07/06/00

Instrument ID: A4HP6

DFTPP Injection Time: 0744

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.8
68	Less than 2.0% of mass 69	0.3 (0.4)1
69	Mass 69 relative abundance	78.4
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	4.7
441	Present, but less than mass 443	7.3
442	Greater than 40.0% of mass 198	48.6
443	17.0 - 23.0% of mass 442	9.3 (19.1)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0706	07/06/00	0802
02	SSTD004	SSTD004	6SL0706	07/06/00	0901
03	SSTD010	SSTD010	6SML0706	07/06/00	0939
04	SSTD024	SSTD024	6SMH0706	07/06/00	1017
05	SSTD032	SSTD032	6SH0706	07/06/00	1054
06	SSTD040	SSTD040	6SHH0706	07/06/00	1132
07					
08					
09					
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55
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 6DF0708D

DFTPP Injection Date: 07/08/00

Instrument ID: A4HP6

DFTPP Injection Time: 1943

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.4
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	66.3
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	52.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	6.3
442	Greater than 40.0% of mass 198	42.4
443	17.0 - 23.0% of mass 442	8.2 (19.4)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD004	ASTD004	6AL0708	07/08/00	2001
02	ASTD010	ASTD010	6AML0708	07/08/00	2038
03	ASTD016	ASTD016	6AM0708	07/08/00	2116
04	ASTD024	ASTD024	6AMH0708	07/08/00	2153
05	ASTD032	ASTD032	6AH0708	07/08/00	2230
06	ASTD040	ASTD040	6AHH0708	07/08/00	2308
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Report Date : 09-Jul-2000 08:14

Page 1

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AL0708.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AML0708.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AM0708.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AMH0708.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AH0708.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\6AHH0708.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	± RSD
198 1,4-Dioxane	0.64659	0.79016	0.75239	0.82999	0.86209	1.05669	0.82298	16.605
7 N-Nitrosomorpholine	1.19769	1.10715	1.24748	1.20768	1.22338	1.27820	1.21026	4.814
8 Ethyl methanesulfonate	2.04468	1.88761	2.07854	2.04831	2.02054	2.05882	2.02308	3.411
9 Pyridine	1.59151	1.84119	2.05722	1.70961	1.84064	1.94952	1.83162	9.054
10 N-Nitrosodimethylamine	1.45459	1.56024	1.58897	1.50257	1.63662	1.59917	1.55703	4.318
11 Ethyl methacrylate	1.90349	2.43027	2.04420	1.71958	2.22416	2.26260	2.09738	12.384
12 3-Chloropropionitrile	0.82784	0.93586	0.93627	0.89338	0.91595	0.87513	0.89741	4.644
13 Malononitrile	2.24459	2.30399	2.20850	2.18657	2.22916	2.09215	2.21083	3.188
14 2-Picoline	2.01979	2.04954	2.25732	2.43586	2.38600	2.61161	2.29335	10.053
15 N-Nitrosomethylethylamine	0.99413	0.98039	1.11086	0.99170	1.08530	0.87913	1.00692	8.235
16 Methyl methanesulfonate	1.96267	1.77509	1.81597	1.88888	1.82508	1.86175	1.85491	3.542
18 1,3-Dichloro-2-propanol	2.66466	2.62030	2.79011	2.89982	2.80207	2.89753	2.77908	4.183
19 N-Nitrosodiethylamine	0.91567	0.86228	0.95091	0.96413	0.94465	0.95615	0.93230	4.087
21 Aniline	2.88276	3.05380	3.08148	3.11588	3.28019	3.10523	3.08655	4.132
22 Phenol	2.69855	2.74194	2.73872	2.72707	2.89400	2.72332	2.75393	2.553
23 bis(2-Chloroethyl)ether	1.89760	1.88616	1.86573	1.86170	1.96770	1.84552	1.88740	2.302
24 2-Chlorophenol	1.27223	1.30509	1.27882	1.31895	1.40979	1.32802	1.31882	3.764
25 Pentachloroethane	0.60161	0.61821	0.65141	0.69641	0.69641	0.75371	0.66963	8.476
26 1,3-Dichlorobenzene	1.48782	1.52837	1.48077	1.54198	1.63383	1.59709	1.54498	3.914
27 1,4-Dichlorobenzene	1.47785	1.55826	1.51905	1.53210	1.65041	1.61378	1.55859	4.084
28 1,2-Dichlorobenzene	1.34420	1.40197	1.40313	1.42624	1.55797	1.52036	1.44231	5.591
29 Benzyl Alcohol	1.07521	1.12748	1.19118	1.24466	1.40474	1.29841	1.22361	9.750
30 2-Methylphenol	1.48040	1.58582	1.55740	1.60837	1.70750	1.57665	1.58602	4.661
31 bis(2-Chloroisopropyl)ether	1.43727	1.43955	1.52058	1.36365	1.41737	1.29505	1.41224	5.414
32 N-Nitroso-di-n-propylamine	2.00722	1.95264	2.06072	1.89014	1.98593	1.81254	1.95153	4.543

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	3.05502	3.24135	3.28378	3.42218	3.76637	3.49458	3.37721	7.232
192 4-Methylphenol	1.57463	1.65553	1.72637	1.81381	2.05887	1.91793	1.79119	9.916
193 3-Methylphenol	1.79455	1.75115	1.97844	1.91840	2.00698	2.04472	1.91571	6.206
34 Hexachloroethane	0.73140	0.76096	0.77432	0.74510	0.79217	0.76973	0.76228	2.841
35 Nitrobenzene	0.79718	0.79699	0.81044	0.76976	0.81537	0.80421	0.79899	2.009
36 N-Nitrosopyrrolidine	0.89305	0.85119	0.96199	0.92735	0.93331	0.95873	0.92094	4.594
37 Acetophenone	2.66019	2.50343	2.82974	2.84495	2.84581	2.92026	2.76739	5.612
39 o-Toluidine	2.84006	2.63085	2.97870	3.09241	3.17816	3.25524	2.99590	7.723
40 N-Nitrosopiperidine	0.19718	0.20790	0.21785	0.22278	0.21994	0.22693	0.21543	5.094
41 Isophorone	1.28863	1.27657	1.37284	1.26168	1.34070	1.27643	1.30281	3.366
42 2-Nitrophenol	0.16609	0.17591	0.17350	0.18711	0.21313	0.20993	0.18761	10.523
43 2,4-Dimethylphenol	0.48970	0.50744	0.52001	0.51208	0.56245	0.54490	0.52276	5.072
44 bis(2-Chloroethoxy)methane	0.65297	0.65835	0.64051	0.66000	0.71871	0.68779	0.66972	4.268
45 O,O,O-Triethyl phosphorothioa	0.22004	0.22576	0.24799	0.25934	0.26635	0.27869	0.24970	9.247
46 2,4-Toluenediamens	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.38071	0.38705	0.38992	0.39574	0.45436	0.46258	0.41173	8.895
48 2,4-Dichlorophenol	0.29988	0.31450	0.31754	0.32464	0.35941	0.35063	0.32777	6.947
49 Benzoic Acid	+++++	0.07375	0.12265	0.12511	0.13112	0.12407	0.11534	20.350 <-
50 1,2,4-Trichlorobenzene	0.34252	0.35095	0.36332	0.36390	0.40365	0.40175	0.37102	6.961
51 Naphthalene	1.03898	1.06586	1.07747	1.09049	1.21424	1.19054	1.11293	6.446
52 4-Chloroaniline	0.38579	0.42000	0.42123	0.44167	0.49381	0.47538	0.43965	9.007
53 a,a-Dimethyl-phenethylamine	0.44656	0.92684	0.50660	0.83938	0.81903	0.83734	0.72929	27.451
54 2,6-Dichlorophenol	0.28612	0.29342	0.34207	0.35122	0.35722	0.36596	0.33267	10.282
55 Hexachloropropene	0.21866	0.23425	0.25545	0.31618	0.32109	0.33907	0.28078	18.119
56 Hexachlorobutadiene	0.25425	0.25774	0.26883	0.28149	0.32590	0.33180	0.28667	11.890
57 1,2,3-Trichlorobenzene	0.35139	0.35312	0.36942	0.38286	0.43753	0.43721	0.38859	10.165
58 N-Nitrosodi-n-butylamine	0.45269	0.46304	0.48853	0.49381	0.49234	0.51646	0.48448	4.759
59 4-Chloro-3-Methylphenol	0.40172	0.42526	0.44983	0.43759	0.47578	0.45455	0.44079	5.805
60 p-Phenylene diamine	0.19525	0.27370	0.21982	0.38487	0.39665	0.42509	0.31590	31.264
61 Safrole	0.30982	0.30831	0.34040	0.34769	0.36065	0.37569	0.34043	7.962
62 2-Methylnaphthalene	0.68610	0.69722	0.71760	0.73540	0.83297	0.79793	0.74454	7.862
63 1-Methylnaphthalene	0.68321	0.68862	0.70810	0.71938	0.81330	0.78133	0.73232	7.235
64 Hexachlorocyclopentadiene	0.27815	0.32774	0.40150	0.42574	0.50433	0.56231	0.41663	25.470

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.59161	0.59227	0.68610	0.74049	0.79098	0.80587	0.70122	13.478
66 2,4,6-Trichlorophenol	0.35274	0.36587	0.38182	0.39933	0.43752	0.44242	0.39662	9.345
67 2,4,5-Trichlorophenol	0.34818	0.36918	0.37975	0.40128	0.44780	0.44939	0.39926	10.488
68 1,2,3,5-Tetrachlorobenzene	0.60535	0.61080	0.64135	0.67246	0.77539	0.80218	0.68459	12.362
69 1,4-Dinitrobenzene	0.11837	0.13350	0.16115	0.17466	0.18041	0.18305	0.15852	16.895
70 2-Chloronaphthalene	1.07395	1.10645	1.17692	1.25393	1.44477	1.47140	1.25457	13.517
71 Isosafrole 1	0.13939	0.14292	0.15369	0.15726	0.15707	0.15980	0.15169	5.578
M 188 Isosafrole, Total	1.07128	1.11383	1.29761	1.36962	1.47906	1.51239	1.30730	14.050
72 Isosafrole 2	0.93189	0.97090	1.14392	1.21236	1.32199	1.35259	1.15561	15.187
73 2-Nitroaniline	0.53222	0.58373	0.61730	0.62652	0.66504	0.66701	0.61530	8.343
74 1,2,3,4-Tetrachlorobenzene	0.56209	0.55558	0.56909	0.59572	0.67059	0.68050	0.60560	9.241
75 1,4-Naphthoquinone	0.34566	0.37181	0.41221	0.43779	0.44014	0.44917	0.40946	10.256
76 Dimethylphthalate	1.29578	1.31863	1.30018	1.35293	1.38962	1.41283	1.34499	3.609
77 m-Dinitrobenzene	0.15172	0.15629	0.17630	0.18604	0.18999	0.19184	0.17536	9.952
78 2,6-Dinitrotoluene	0.21517	0.24235	0.23980	0.25415	0.27465	0.27938	0.25092	9.529
79 Acenaphthylene	1.70448	1.74493	1.77316	1.90433	2.07874	2.11023	1.88598	9.286
80 1,2-Dinitrobenzene	0.11266	0.11914	0.12414	0.13657	0.14113	0.14557	0.12987	10.111
81 3-Nitroaniline	0.20581	0.21213	0.20353	0.24313	0.26876	0.26018	0.23226	12.420
82 Acenaphthene	1.09354	1.11301	1.13011	1.19670	1.31134	1.31560	1.19338	8.320
83 2,4-Dinitrophenol	+++++	0.05822	0.07811	0.09952	0.11723	0.11878	0.09437	27.613 <-
84 Pentachlorobenzene	0.47187	0.49569	0.58090	0.61018	0.66213	0.68106	0.58364	14.658
85 4-Nitrophenol	+++++	0.22575	0.27172	0.28784	0.29779	0.31359	0.27934	12.028 <-
86 Dibenzofuran	1.50506	1.54429	1.55249	1.65984	1.83602	1.84572	1.65724	9.127
87 2,4-Dinitrotoluene	0.28347	0.31753	0.33598	0.35624	0.38184	0.39006	0.34419	11.717
88 2,3,4,6-Tetrachlorophenol	0.21658	0.22567	0.28662	0.29693	0.31729	0.33379	0.27948	17.224
89 1-Naphthylamine	0.75187	0.87239	0.99556	1.06481	1.08624	1.19264	0.99392	15.997
90 Zinophos	0.43940	0.44687	0.45251	0.48082	0.49562	0.49142	0.46777	5.218
91 2,3,5,6-Tetrachlorophenol	0.26236	0.29596	0.31927	0.34062	0.38888	0.39400	0.33351	15.552
92 2-Naphthylamine	0.79986	0.85025	0.80202	0.92768	0.94416	1.01605	0.89000	9.755
93 Diethylphthalate	1.29141	1.28070	1.32376	1.31581	1.35282	1.38181	1.32439	2.860
94 Fluorene	1.26782	1.26851	1.31876	1.39561	1.56245	1.57168	1.39747	9.977
95 4-Chlorophenyl-phenylether	0.66088	0.65864	0.70470	0.71426	0.77555	0.80100	0.71917	8.148
96 4-Nitroaniline	0.17614	0.15687	0.18554	0.22835	0.24129	0.24312	0.20522	18.027

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	† RSD
97 5-Nitro-o-toluidine	0.24407	0.23829	0.27573	0.29250	0.29405	0.30959	0.27571	10.470
98 4,6-Dinitro-2-methylphenol	+++++	0.08183	0.09434	0.11335	0.13009	0.12764	0.10945	19.181<-
99 N-Nitrosodiphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
100 1,2-Diphenylhydrazine	1.66387	1.64154	1.74647	1.57690	1.66750	1.63413	1.65507	3.344
101 Diphenylamine	0.54366	0.56130	0.56758	0.57807	0.65602	0.65097	0.59293	8.137
102 Tetraethyl dithiopyrophosphat	0.10840	0.12096	0.13251	0.14311	0.15585	0.15200	0.13547	13.606
103 Diallate 1	1.05539	1.08962	1.13781	1.20528	1.23637	1.23284	1.15955	6.633
M 189 Diallate, Total	4.70416	4.28222	4.67869	4.51110	4.42999	4.54799	4.52569	3.485
104 Phorate	0.15485	0.16645	0.19263	0.21007	0.23435	0.23484	0.19886	16.988
105 1,3,5-Trinitrobenzene	0.04561	0.04556	0.06795	0.07470	0.08278	0.08952	0.06769	27.489
106 4-Bromophenyl-phenylether	0.23198	0.23739	0.24787	0.25148	0.29320	0.28697	0.25815	9.990
107 Hexachlorobenzene	0.21056	0.21545	0.23609	0.24014	0.29819	0.29119	0.24860	15.101
108 Phenacetin	0.39381	0.42738	0.48650	0.52136	0.53897	0.55442	0.48707	13.200
109 Diallate 2	0.16514	0.16925	0.17386	0.17293	0.17291	0.16908	0.17053	1.949
110 Dimethoate	0.40988	0.42393	0.45037	0.48079	0.46945	0.47181	0.45104	6.337
111 Pentachlorophenol	+++++	0.09410	0.11460	0.12867	0.15659	0.15488	0.12977	20.581<-
112 Pentachloronitrobenzene	0.13908	0.13953	0.17200	0.18850	0.20585	0.21436	0.17655	18.313
113 4-Aminobiphenyl	0.50521	0.51154	0.71130	0.82007	0.94799	1.00195	0.74968	28.351
114 Pronamide	0.37523	0.38877	0.42833	0.45514	0.47206	0.48538	0.43415	10.335
115 Phenanthrene	1.12594	1.15503	1.19453	1.26294	1.47200	1.40596	1.26940	11.085
116 Anthracene	1.07069	1.09777	1.18165	1.18893	1.34998	1.32605	1.20251	9.553
117 Dinoseb	0.09725	0.09705	0.15594	0.17497	0.19788	0.20891	0.15533	31.325
118 Disulfoton	0.65325	0.65920	0.67635	0.70456	0.74153	0.72957	0.69408	5.320
119 Carbazole	0.88856	0.89240	0.87562	0.95072	1.09881	1.07158	0.96295	10.232
120 Di-n-Bucylphthalate	1.39373	1.35904	1.40316	1.40402	1.58188	1.53891	1.44679	6.788
121 4-Nitroquinoline 1-oxide	0.03168	0.03669	0.06933	0.07702	0.09293	0.09987	0.06792	41.745
122 Methapyrilene	0.40822	0.47124	0.39003	0.45314	0.40540	0.42458	0.42544	7.297
123 Fluoranthene	1.22952	1.25569	1.31321	1.38272	1.63510	1.59412	1.40173	12.384
124 Benzidine	0.20435	0.21532	0.19464	0.24426	0.31543	0.32231	0.24938	22.607
125 Pyrene	1.56315	1.52547	1.30753	1.31840	1.19860	1.17099	1.34735	12.148
126 Aramite 1	0.08145	0.08164	0.08225	0.08824	0.08894	0.08957	0.08535	4.615
M 191 Aramite, Total	0.57691	0.51050	0.63107	0.57120	0.55569	0.58753	0.57215	6.904
127 Aramite 2	0.10220	0.11763	0.11409	0.12222	0.12506	0.12385	0.11751	7.278

STL - North Canton

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.28356	0.30639	0.31473	0.34571	0.36354	0.37222	0.33102	10.548
129 p-Chlorobenzilate	0.61239	0.65119	0.66264	0.72461	0.75211	0.77515	0.69635	9.160
130 Pamphur	0.50949	0.51233	0.35483	0.30627	0.20226	0.17982	0.34417	41.968
131 Butylbenzylphthalate	0.67287	0.65599	0.55957	0.53098	0.47461	0.45661	0.55844	16.169
132 3,3'-Dimethylbenzidine	0.42544	0.39316	0.39310	0.50697	0.53320	0.53654	0.46474	14.728
133 3,3'-Dimethoxybenzidine	0.17508	0.18540	0.18782	0.21812	0.26257	0.28681	0.21930	20.922
134 2-Acetylaminofluorene	0.38638	0.39809	0.46729	0.50115	0.51734	0.55310	0.47056	14.187
135 3,3'-Dichlorobenzidine	0.37064	0.38759	0.40643	0.42570	0.47111	0.45169	0.41886	9.130
136 Benzo(a)Anthracene	1.31246	1.33710	1.32155	1.30776	1.31852	1.27603	1.31224	1.552
137 Chrysene	1.14364	1.14690	1.05616	1.01452	0.98933	0.92503	1.04593	8.406
138 4,4'-Methylene bis(o-chloroan	0.22299	0.21598	0.20779	0.21046	0.21939	0.20818	0.21413	2.943
139 bis(2-ethylhexyl)Phthalate	0.95889	0.92656	0.83147	0.74230	0.69316	0.66307	0.80257	15.332
140 Di-n-octylphthalate	1.83595	1.93623	1.90235	1.91054	2.09598	2.05058	1.95527	5.026
141 Benzo(b)fluoranthene	1.31786	1.40315	1.39812	1.50974	1.64736	1.61696	1.48220	8.875
142 Benzo(k)fluoranthene	1.24452	1.37650	1.40958	1.47502	1.73473	1.66760	1.48466	12.460
143 7,12-dimethylbenz[a]anthracen	0.57147	0.81368	0.82348	0.97019	1.07802	1.16770	0.90409	23.693
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
146 Benzo(a)pyrene	1.11718	1.20758	1.21735	1.27984	1.45590	1.38814	1.27767	9.793
148 3-Methylcholanthrene	0.70876	0.73653	0.79566	0.91659	0.99864	1.05313	0.86822	16.417
149 Indeno(1,2,3-cd)pyrene	0.87147	0.94466	0.94966	0.99531	1.12292	1.06732	0.99189	9.172
150 Dibenz(a,h)anthracene	0.83834	0.92320	0.95730	0.96714	1.12652	1.05577	0.97805	10.342
151 Benzo(g,h,i)perylene	0.92145	0.96064	0.98151	0.97578	1.10265	1.02616	0.99470	6.311
199 3-Picoline	1.74899	1.80612	1.97366	2.08895	2.29477	2.22596	2.02308	10.918
200 N,N-Dimethylacetamide	1.01001	1.03036	1.18630	1.17980	1.18447	1.21397	1.13415	7.875
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
209 Benzaldehyde	0.88459	1.07395	1.27556	1.38892	1.43425	1.16413	1.20356	17.143

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 06-JUL-2000 08:02
 End Cal Date : 08-JUL-2000 23:08
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00708a.b\8270c.m
 Cal Date : 09-Jul-2000 07:58 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.11415	0.12030	0.12808	0.12272	0.12792	0.12310	0.12271	4.238
211 1,1'-Biphenyl	1.45983	1.52918	1.56424	1.73025	2.00058	2.02416	1.71804	14.350
212 Atrazine	0.22873	0.23726	0.23464	0.24601	0.26998	0.26203	0.24644	6.630
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 154 Nitrobenzene-d5	0.70648	0.71811	0.76715	0.72382	0.77007	0.75326	0.73982	3.668
\$ 155 2-Fluorobiphenyl	1.30504	1.30532	1.34161	1.40416	1.55826	1.57393	1.41472	8.681
\$ 156 Terphenyl-d14	0.97987	0.96425	0.86447	0.88080	0.82963	0.81718	0.88937	7.671
\$ 157 Phenol-d5	2.17540	2.27055	2.19865	2.24717	2.38514	2.23686	2.25230	3.265
\$ 158 2-Fluorophenol	1.32202	1.55630	1.51420	1.47374	1.54337	1.52647	1.48935	5.826
\$ 159 2,4,6-Tribromophenol	0.12158	0.12655	0.14359	0.15801	0.18314	0.19188	0.15413	18.834
\$ 186 2-Chlorophenol-d4	1.15418	1.19147	1.19461	1.21906	1.29538	1.23361	1.21472	3.947
\$ 187 1,2-Dichlorobenzene-d4	0.88915	0.91767	0.96644	0.97969	1.12123	1.11060	0.99746	9.771

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP015

Lab File ID: 6DF0714B

DFTPP Injection Date: 07/14/00

Instrument ID: A4HP6

DFTPP Injection Time: 0855

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	73.7
70	Less than 2.0% of mass 69	0.5 (0.6)1
127	40.0 - 60.0% of mass 198	53.6
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	4.2
441	Present, but less than mass 443	6.7
442	Greater than 40.0% of mass 198	44.3
443	17.0 - 23.0% of mass 442	8.2 (18.5)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0714	07/14/00	0914
02	ASTD016	ASTD016	6AM0714	07/14/00	0950
03	DFQGRBLK	DFQGR101	DFQGR101	07/14/00	1027
04	DFQGRCHK	DFQGR102	DFQGR102	07/14/00	1104
05	MPT-G4-SU-18	DFN4210W	DFN4210W	07/14/00	1218
06	MPT-G4-SU-19	DFN4310W	DFN4310W	07/14/00	1255
07	MPT-G4-SU-20	DFN4410W	DFN4410W	07/14/00	1332
08	MPT-G4-SU-21	DFN4510W	DFN4510W	07/14/00	1409
09	MPT-G4-SU-22	DFN4610W	DFN4610W	07/14/00	1446
10	MPT-G4-SU-23	DFN4710W	DFN4710W	07/14/00	1522
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 14-JUL-2000 09:14
 Lab File ID: 6SM0714.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00714a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.83162	2.17903	0.010	19.0	50.0
10 N-Nitrosodimethylamine	1.55703	1.49781	0.010	-3.8	50.0
11 Ethyl methacrylate	2.09738	2.30784	0.010	10.0	50.0
12 3-Chloropropionitrile	0.89741	0.90505	0.010	0.9	50.0
13 Malononitrile	2.21083	2.23937	0.010	1.3	50.0
209 Benzaldehyde	1.20356	1.26715	0.010	5.3	50.0
21 Aniline	3.08655	3.18603	0.010	3.2	50.0
22 Phenol	2.75393	2.83240	0.010	2.8	20.0
23 bis(2-Chloroethyl)ether	1.88740	1.87833	0.010	-0.5	50.0
24 2-Chlorophenol	1.31882	1.32663	0.010	0.6	50.0
26 1,3-Dichlorobenzene	1.54498	1.48358	0.010	-4.0	50.0
27 1,4-Dichlorobenzene	1.55859	1.54360	0.010	-1.0	20.0
28 1,2-Dichlorobenzene	1.44231	1.40432	0.010	-2.6	50.0
29 Benzyl Alcohol	1.22361	1.28600	0.010	5.1	50.0
30 2-Methylphenol	1.58602	1.59139	0.010	0.3	50.0
31 bis(2-Chloroisopropyl)ether	1.41224	1.50657	0.010	6.7	50.0
37 Acetophenone	2.76739	2.56149	0.010	-7.4	50.0
32 N-Nitroso-di-n-propylamine	1.95153	2.08304	0.050	6.7	50.0
192 4-Methylphenol	1.79119	1.76483	0.010	-1.5	50.0
34 Hexachloroethane	0.76228	0.79931	0.010	4.9	50.0
35 Nitrobenzene	0.79899	0.84922	0.010	6.3	50.0
41 Isophorone	1.30281	1.38678	0.010	6.4	50.0
42 2-Nitrophenol	0.18761	0.19790	0.010	5.5	20.0
43 2,4-Dimethylphenol	0.52276	0.53856	0.010	3.0	50.0
44 bis(2-Chloroethoxy)methane	0.66972	0.65514	0.010	-2.2	50.0
46 2,4-Toluenediamine	++++	0.00805	0.010	++++	50.0
47 1,3,5-Trichlorobenzene	0.41173	0.40188	0.010	-2.4	50.0
48 2,4-Dichlorophenol	0.32777	0.33127	0.010	1.1	20.0
49 Benzoic Acid	0.11534	0.14587	0.010	26.5	50.0
50 1,2,4-Trichlorobenzene	0.37102	0.38060	0.010	2.6	50.0
51 Naphthalene	1.11293	1.10272	0.010	-0.9	50.0
52 4-Chloroaniline	0.43965	0.45986	0.010	4.6	50.0
56 Hexachlorobutadiene	0.28667	0.27947	0.010	-2.5	20.0
210 Caprolactam	0.12271	0.12965	0.010	5.7	50.0
57 1,2,3-Trichlorobenzene	0.38859	0.38351	0.010	-1.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 14-JUL-2000 09:14
 Lab File ID: 6SM0714.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00714a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.44079	0.46352	0.010	5.2	20.0
62 2-Methylnaphthalene	0.74454	0.74717	0.010	0.4	50.0
63 1-Methylnaphthalene	0.73232	0.72894	0.010	-0.5	50.0
64 Hexachlorocyclopentadiene	0.41663	0.38346	0.050	-8.0	50.0
66 2,4,6-Trichlorophenol	0.39662	0.40485	0.010	2.1	20.0
67 2,4,5-Trichlorophenol	0.39926	0.40923	0.010	2.5	50.0
211 1,1'-Biphenyl	1.71804	1.69475	0.010	-1.4	50.0
68 1,2,3,5-Tetrachlorobenzene	0.68459	0.67270	0.010	-1.7	50.0
70 2-Chloronaphthalene	1.25457	1.27377	0.010	1.5	50.0
73 2-Nitroaniline	0.61530	0.72960	0.010	18.6	50.0
74 1,2,3,4-Tetrachlorobenzene	0.60560	0.59138	0.010	-2.3	50.0
76 Dimethylphthalate	1.34499	1.31369	0.010	-2.3	50.0
78 2,6-Dinitrotoluene	0.25092	0.26820	0.010	6.9	50.0
79 Acenaphthylene	1.88598	1.87258	0.010	-0.7	50.0
80 1,2-Dinitrobenzene	0.12987	0.14201	0.010	9.4	50.0
81 3-Nitroaniline	0.23226	0.26908	0.010	15.9	50.0
82 Acenaphthene	1.19338	1.18117	0.010	-1.0	20.0
83 2,4-Dinitrophenol	0.09437	0.08756	0.050	-7.2	50.0
85 4-Nitrophenol	0.27934	0.34862	0.050	24.8	50.0
86 Dibenzofuran	1.65724	1.63901	0.010	-1.1	50.0
87 2,4-Dinitrotoluene	0.34419	0.37505	0.010	9.0	50.0
91 2,3,5,6-Tetrachlorophenol	0.33351	0.37332	0.010	11.9	50.0
93 Diethylphthalate	1.32439	1.36184	0.010	2.8	50.0
94 Fluorene	1.39747	1.40207	0.010	0.3	50.0
95 4-Chlorophenyl-phenylether	0.71917	0.73121	0.010	1.7	50.0
96 4-Nitroaniline	0.20522	0.25382	0.010	23.7	50.0
98 4,6-Dinitro-2-methylphenol	0.10945	0.09424	0.010	-13.9	50.0
99 N-Nitrosodiphenylamine	0.59293	0.56310	0.010	-5.0	20.0
100 1,2-Diphenylhydrazine	1.65507	1.73926	0.010	5.1	50.0
106 4-Bromophenyl-phenylether	0.25815	0.24841	0.010	-3.8	50.0
107 Hexachlorobenzene	0.24860	0.22896	0.010	-7.9	50.0
212 Atrazine	0.24644	0.24724	0.010	0.3	50.0
111 Pentachlorophenol	0.12977	0.13042	0.010	0.5	20.0
115 Phenanthrene	1.26940	1.24769	0.010	-1.7	50.0
116 Anthracene	1.20251	1.24132	0.010	3.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 14-JUL-2000 09:14
 Lab File ID: 6SM0714.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00714a.b\8270c.m

COMPOUND	RRF	RF16	MIN	RD	MAX
119 Carbazole	0.96295	0.99681	0.010	3.5	50.0
120 Di-n-Butylphthalate	1.44679	1.40131	0.010	-3.1	50.0
123 Fluoranthene	1.40173	1.40380	0.010	0.1	20.0
124 Benzidine	0.24938	0.27843	0.010	11.6	50.0
125 Pyrene	1.34735	1.22010	0.010	-9.4	50.0
131 Butylbenzylphthalate	0.55844	0.51611	0.010	-7.6	50.0
133 3,3'-Dimethoxybenzidine	0.21930	0.19438	0.010	-11.4	50.0
135 3,3'-Dichlorobenzidine	0.41886	0.41121	0.010	-1.8	50.0
136 Benzo(a)Anthracene	1.31224	1.26625	0.010	-3.5	50.0
137 Chrysene	1.04593	0.99102	0.010	-5.2	50.0
138 4,4'-Methylene bis(o-chloro	0.21413	0.19805	0.010	-7.5	50.0
139 bis(2-ethylhexyl)Phthalate	0.80257	0.75932	0.010	-5.4	50.0
140 Di-n-octylphthalate	1.95527	2.17877	0.010	11.4	20.0
141 Benzo(b)fluoranthene	1.48220	1.54103	0.010	4.0	50.0
142 Benzo(k)fluoranthene	1.48466	1.55352	0.010	4.6	50.0
146 Benzo(a)pyrene	1.27767	1.25285	0.010	-1.9	20.0
149 Indeno(1,2,3-cd)pyrene	0.99189	0.78654	0.010	-20.7	50.0
150 Dibenz(a,h)anthracene	0.97805	0.78231	0.010	-20.0	50.0
151 Benzo(g,h,i)perylene	0.99470	0.74266	0.010	25.3	50.0
\$ 154 Nitrobenzene-d5	0.73982	0.83711	0.010	13.2	50.0
\$ 155 2-Fluorobiphenyl	1.41472	1.40672	0.010	-0.6	50.0
\$ 156 Terphenyl-d14	0.88937	0.81372	0.010	-8.5	50.0
\$ 157 Phenol-d5	2.25230	2.26806	0.010	0.7	50.0
\$ 158 2-Fluorophenol	1.48935	1.32234	0.010	-11.2	50.0
\$ 159 2,4,6-Tribromophenol	0.15413	0.16021	0.010	3.9	50.0
\$ 186 2-Chlorophenol-d4	1.21472	1.19520	0.010	-1.6	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99746	0.98429	0.010	-1.3	50.0
M 195 Cresols, total	3.37721	3.35622	0.010	-0.6	50.0
101 Diphenylamine	0.59293	0.56310	0.010	-5.0	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 14-JUL-2000 09:50
 Lab File ID: 6AM0714.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00714a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	1.21026	1.21251	0.010	0.2	50.0
8 Ethyl methanesulfonate	2.02308	1.95010	0.010	-3.6	50.0
14 2-Picoline	2.29335	2.12802	0.010	-7.2	50.0
15 N-Nitrosomethylethylamine	1.00692	0.82812	0.010	-17.8	50.0
16 Methyl methanesulfonate	1.85491	1.68751	0.010	-9.0	50.0
18 1,3-Dichloro-2-propanol	2.77908	2.73360	0.010	-1.6	50.0
19 N-Nitrosodiethylamine	0.93230	0.89941	0.010	-3.5	50.0
25 Pentachloroethane	0.66963	0.65175	0.010	-2.7	50.0
36 N-Nitrosopyrrolidine	0.92094	0.93338	0.010	1.4	50.0
37 Acetophenone	2.76739	2.61954	0.010	-5.3	50.0
39 o-Toluidine	2.99590	2.94144	0.010	-5.2	50.0
40 N-Nitrosopiperidine	0.21543	0.19853	0.010	-7.8	50.0
45 O,O,O-Triethyl phosphorothi	0.24970	0.22767	0.010	-8.8	50.0
53 a,a-Dimethyl-phenethylamine	0.72929	0.88513	0.010	21.4	50.0
54 2,6-Dichlorophenol	0.33267	0.31128	0.010	-6.4	50.0
55 Hexachloropropene	0.28078	0.26382	0.010	-6.0	50.0
58 N-Nitrosodi-n-butylamine	0.48448	0.46443	0.010	-4.1	50.0
60 p-Phenylene diamine	0.31590	0.34897	0.010	10.5	50.0
61 Safrole	0.34043	0.31119	0.010	-8.6	50.0
65 1,2,4,5-Tetrachlorobenzene	0.70122	0.64853	0.010	-7.5	50.0
71 Isosafrole 1	0.15169	0.14922	0.010	-2.6	50.0
M 188 Isosafrole, Total	1.30730	1.21452	0.010	-7.1	50.0
72 Isosafrole 2	1.15561	1.06531	0.010	-7.8	50.0
75 1,4-Naphthoquinone	0.40946	0.38996	0.010	-4.8	50.0
84 Pentachlorobenzene	0.58364	0.55071	0.010	-5.6	50.0
89 1-Naphthylamine	0.99392	1.02309	0.010	2.9	50.0
92 2-Naphthylamine	0.89000	0.93865	0.010	5.5	50.0
90 Zinophos	0.46777	0.48260	0.010	3.2	50.0
102 Tetraethyl dithiopyrophosph	0.13547	0.12897	0.010	-4.8	50.0
103 Diallylate 1	1.15955	1.11007	0.010	-4.3	50.0
M 189 Diallylate, Total	4.52569	4.75068	0.010	5.0	50.0
109 Diallylate 2	0.17053	0.16339	0.010	-4.2	50.0
104 Phorate	0.19886	0.18787	0.010	-5.5	50.0
105 1,3,5-Trinitrobenzene	0.06769	0.07467	0.010	10.3	50.0
108 Phenacetin	0.48707	0.52486	0.010	7.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 14-JUL-2000 09:50
 Lab File ID: 6AM0714.D Init. Cal. Date(s): 06-JUL-2000 08-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 08:02 23:08
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00714a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	%D	MAX %D
110 Dimethoate	0.45104	0.44104	0.010	-2.2	50.0
112 Pentachloronitrobenzene	0.17655	0.16857	0.010	-4.5	50.0
113 4-Aminobiphenyl	0.74968	0.66937	0.010	-10.7	50.0
114 Pronamide	0.43415	0.41393	0.010	-4.7	50.0
117 Dinoseb	0.15533	0.15486	0.010	-0.3	50.0
118 Disulfoton	0.69408	0.67016	0.010	-3.4	50.0
121 4-Nitroquinoline 1-oxide	0.06792	0.06192	0.010	-8.8	50.0
122 Methapyrilene	0.42544	0.38847	0.010	-8.7	50.0
126 Aramite 1	0.08535	0.07960	0.010	-6.7	50.0
M 191 Aramite, Total	0.57215	0.61334	0.010	7.2	50.0
127 Aramite 2	0.11751	0.11126	0.010	-5.3	50.0
128 p-Dimethylamino azobenzene	0.33102	0.30654	0.010	-7.4	50.0
129 p-Chlorobenzilate	0.69635	0.63746	0.010	-8.5	50.0
130 Famphur	0.34417	0.34856	0.010	1.3	50.0
132 3,3'-Dimethylbenzidine	0.46474	0.48577	0.010	4.5	50.0
134 2-Acetylaminofluorene	0.47056	0.50762	0.010	7.9	50.0
143 7,12-dimethylbenz[<i>a</i>]anthrac	0.90409	0.66099	0.010	-26.9	50.0
144 Hexachlorophene	++++	0.00101	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.86822	0.66345	0.010	-23.6	50.0
193 3-Methylphenol	1.91571	1.87274	0.010	-2.2	50.0
69 1,4-Dinitrobenzene	0.15852	0.18194	0.010	14.8	50.0
77 m-Dinitrobenzene	0.17536	0.19360	0.010	10.4	50.0
198 1,4-Dioxane	0.82298	0.85858	0.010	4.3	50.0
88 2,3,4,6-Tetrachlorophenol	0.27948	0.29297	0.010	4.8	50.0
97 5-Nitro-o-toluidine	0.27571	0.31048	0.010	12.6	50.0
199 3-Picoline	2.02308	1.95461	0.010	-3.4	50.0
200 N,N-Dimethylacetamide	1.13415	1.08193	0.010	-4.6	50.0

CLIENT NS Mayport	JOB NUMBER		
SUBJECT Sample Calc.			
BASED ON MPT-64-SU-20-10 (DFN4410W)		DRAWING NUMBER	
BY Douglas S. Schlenker	CHECKED BY	APPROVED BY	DATE 10/3/00

Fraction: Semi-volatile
 Matrix: Soil
 Compound: Pyrene
 Form I: 1200 ug/kg

$$\text{ug/kg} = \frac{A_V (I_s \times V_e \times D_f)}{A_{IS} (\overline{RRF} \times V_i \times W_s \times D)}$$

$A_V = 2184437 \text{ Area}$

$I_s = 8.0 \text{ ng}$

$V_e = 5000 \text{ ul}$

$D_f = 1$

$A_{IS} = 1019223 \text{ Area}$

$\overline{RRF} = 1.34735$

$V_i = 2.0 \text{ ml}$

$W_s = 30.09 \text{ g}$

$D = 0.86 \text{ (\% solid)}$

$$= \frac{2184437 \text{ Area} (8.0 \text{ ng}) (5000 \text{ ul}) (1)}{1019223 \text{ Area} (1.34735) (2.0 \text{ ml}) (30.09 \text{ g}) (0.86)}$$

$$= 1229.4 \text{ ng/g or ug/kg}$$

STL - North Canton

Semivolatle REPORT SW-846 Method 8270

Data file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00714a.b\DFN4410W.D
 Lab Smp Id: DFN4410W Client Smp ID: MPT-G4-SU-20-10
 Inj Date : 14-JUL-2000 13:32
 Operator : 046900 Inst ID: a4hp6.i
 Smp Info : dfn4410w,00714a.b,8270c.m,5-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp6.i\00714a.b\8270c.m
 Meth Date : 15-Jul-2000 05:55 hulat Quant Type: ISTD
 Cal Date : 08-JUL-2000 23:08 Cal File: 6AHH0708.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 5-8270ap9.sub
 Target Version: 4.04
 Processing Host: CANPMSSV01

Concentration Formula: $Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100)$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.090	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152		7.190	7.200	(1.000)	283817	8.00000	(Q)
* 2 Naphthalene-d8	136		9.546	9.556	(1.000)	1038503	8.00000	
* 3 Acenaphthene-d10	164		13.040	13.044	(1.000)	670017	8.00000	
* 4 Phenanthrene-d10	188		16.037	16.041	(1.000)	1110440	8.00000	
* 5 Chrysene-d12	240		21.395	21.394	(1.000)	1019223	8.00000	
* 6 Perylene-d12	264		24.061	24.060	(1.000)	649030	8.00000	
7 N-Nitrosomorpholine	56							Compound Not Detected.
8 Ethyl methanesulfonate	79							Compound Not Detected.
9 Pyridine	79							Compound Not Detected.
10 N-Nitrosodimethylamine	74							Compound Not Detected.
11 Ethyl methacrylate	69							Compound Not Detected.
12 3-Chloropropionitrile	54							Compound Not Detected.
13 Malononitrile	66							Compound Not Detected.

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	284				Compound Not Detected.		
212 Atrazine	200				Compound Not Detected.		
108 Phenacetin	108				Compound Not Detected.		
109 Diallylate 2	86				Compound Not Detected.		
110 Dimethoate	87				Compound Not Detected.		
111 Pentachlorophenol	266				Compound Not Detected.		
112 Pentachloronitrobenzene	237				Compound Not Detected.		
113 4-Aminobiphenyl	169				Compound Not Detected.		
114 Pronamide	173				Compound Not Detected.		
115 Phenanthrene	178	16.085	16.089	(1.003)	94997	0.53915	44.794
116 Anthracene	178				Compound Not Detected.		
117 Dinoseb	211				Compound Not Detected.		
118 Disulfoton	88				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
121 4-Nitroquinoline 1-oxide	190				Compound Not Detected.		
122 Methapyrilene	58				Compound Not Detected.		
123 Fluoranthene	202	18.494	18.493	(1.153)	1657688	8.51989	707.87
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202	18.937	18.942	(0.885)	2184437	12.7256	1057.3
126 Aramite 1	185				Compound Not Detected.		
M 191 Aramite, Total	100				Compound Not Detected.		
127 Aramite 2	185				Compound Not Detected.		
128 p-Dimethylamino azobenzene	225				Compound Not Detected.		
129 p-Chlorobenzilate	139				Compound Not Detected.		
130 Famphur	218				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
132 3,3'-Dimethylbenzidine	212				Compound Not Detected.		
133 3,3'-Dimethoxybenzidine	244				Compound Not Detected.		
134 2-Acetylaminofluorene	181				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228	21.379	21.384	(0.999)	1681220	10.0562	835.51
137 Chrysene	228	21.448	21.453	(1.002)	1454712	10.9168	907.01
138 4,4'-Methylene bis(o-chloroan	231				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252	23.414	23.408	(0.973)	1535531	12.7696	1061.0
142 Benzo(k)fluoranthene	252	23.457	23.462	(0.975)	564424	4.68602	389.33
143 7,12-dimethylbenz[a]anthracen	256				Compound Not Detected.		
144 Hexachlorophene	198				Compound Not Detected.		
145 Hexachlorophene product	462				Compound Not Detected.		
146 Benzo(a)pyrene	252	23.970	23.969	(0.996)	845210	8.15403	677.47
148 3-Methylcholanthrene	268				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276	25.829	25.834	(1.073)	279393	3.47197	288.46
150 Dibenz(a,h)anthracene	278	25.872	25.882	(1.075)	58701	0.73979	61.465
151 Benzo(g,h,i)perylene	276	26.310	26.309	(1.093)	228615	2.83294	235.37

STL NORTH CANTON MS SEMI VOLATILE RUN LOG
 INSTRUMENT: A4HP6

COLUMN
 TYPE: DB5-62F

ANALYSIS
40 deg. C for 1.5 min.

DATE: 7/14/00
 CASE: _____
 SDG NO: _____

LENGTH: 30m

to 172 deg. C @ 17 deg. C/min

(00714a.b)

ID: 0.32 mm

hold for 7 min.

FILM THICKNESS: 0.5 MICRONS F.D. = 2.3 E.T. = 17 I.S.# 1308 TUNE: 1500.0

FILE NAME	LOT #/ FILE NAME	SAMPLE PREP	D.F.	QUAL	COMMENTS	ANALYST
LDFO714b	S12285		xr	ok	(8:55)	TH
LSMO714	S12311			ok	Cal Std Checked by:	
LSMO714	S12297			ok		
DFQGR101	B	7/2 ³⁰⁷⁵ 27ml	st	ok	(8200)	
DFQGR102	C	7/2		ok		
DFKTW103	AE300216	7/6		ok		
DFN4210W	AG020104	7/7		ok - Bad	All SS ↓	
DFN4310W				ok		
DFN4410W				ok		
DFN4510W				ok - Bad	All SS ↓	
DFN4610W				ok		
DFN4710W				ok		
DFM66105	AG010126			ok		
DFM66106	S			ok		
DFM66107	D			ok		
DFKVK103	AE300216	7/6		ok		
DFKVM103				ok		
DFKVA103				ok		
DFKTX103				ok		
DFKYV103				ok		
DFRSQ104	AG060190	7/11		ok		TH

TH 7/14/00

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 12-JUL-2000 18:46
 Lab File ID: VOX3220.d Init. Cal. Date(s): 06-JUN-2000 12-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 10:59 17:46
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00712A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
57 3-Chloropropene	0.11769	0.10037	0.010	14.7	50.0	Averaged	
58 2-Chloro-1,3-butadiene	0.39011	0.30580	0.010	21.6	50.0	Averaged	
59 Propionitrile	0.01269	0.01246	0.010	1.6	50.0	Averaged	
60 Methacrylonitrile	0.09874	0.07961	0.010	19.4	50.0	Averaged	
61 Isobutanol	0.00693	0.00577	0.010	16.8	50.0	Averaged<-	
62 Methyl Methacrylate	0.23312	0.19395	0.010	16.8	50.0	Averaged	
67 1,1,1,2-Tetrachloroethane	0.52559	0.46871	0.010	10.8	50.0	Averaged	
72 1,2-Dibromo-3-chloropropane	0.26805	0.22724	0.010	15.2	50.0	Averaged	
74 n-Butanol	0.00513	0.00402	0.010	21.6	50.0	Averaged<-	
75 Ethyl Acetate	0.20877	0.17928	0.010	14.1	50.0	Averaged	
76 Cyclohexanone	0.02376	0.02020	0.010	15.0	50.0	Averaged	
77 Ethyl Ether	0.14976	0.13124	0.010	12.4	50.0	Averaged	
80 Dichlorofluoromethane	0.55939	0.43955	0.010	21.4	50.0	Averaged	
81 2-Nitropropane	0.06488	0.04490	0.010	30.8	50.0	Averaged	
85 Isopropyl Ether	1.01108	0.90284	0.010	10.7	50.0	Averaged	

MEMO TO: T. HANSEN - PAGE 2
DATE: NOVEMBER 27, 2000

- * - All quality control criteria were met for this parameter.

Laboratory Blanks

The following contaminant was detected in the laboratory method / preparation blanks at the following maximum concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Aluminum	56.4 µ/L	28.2 mg/kg
Barium	1.0 µ/L	0.5 mg/kg
Beryllium	1.2 µ/L	0.6 mg/kg
Calcium ⁽¹⁾	9.9 mg/kg	49.5 mg/kg
Copper	4.5 µ/L	2.25 mg/kg
Iron	39.5 µ/L	19.75 mg/kg
Magnesium	95.4 µ/L	47.7 mg/kg
Manganese ⁽¹⁾	0.12 mg/kg	0.6 mg/kg
Zinc	7.2 µ/L	3.6 mg/kg
Tin ⁽¹⁾	2.7 mg/kg	13.5 mg/kg

(1) Maximum concentration present in a soil preparation blank.

An action of level of 5X the maximum concentration was used to evaluate for blank contamination. Sample aliquot, percent solids and dilution factors were taken into consideration when evaluation for blank contamination. Positive results less than the blank action level for beryllium, copper, magnesium, zinc and tin were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as all result reported for the remaining analytes were either nondetected or greater then the blank action level.

ICP Interference Check Sample Results

The interfering analyte calcium was present in sample MPT-GW-SU-45-04 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, beryllium, cadmium, cobalt, copper, lead, manganese, nickel, selenium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium, cobalt and selenium in the affected sample. The positive results reported for cadmium and cobalt were qualified as estimated, "J". The nondetected result reported for selenium was qualified as estimated, "UJ".

The interfering analyte calcium was present in sample MPT-GW-SU-52-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, beryllium, cadmium, cobalt, copper, lead, manganese, nickel, selenium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for lead, nickel, selenium, vanadium and zinc in the affected sample. The positive results reported for lead, nickel, vanadium and zinc were qualified as estimated, "J". The nondetected result reported for selenium was qualified as estimated, "UJ".

The interfering analyte calcium was present in sample MPT-GW-SU-53-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, beryllium, cadmium, cobalt, copper, lead, manganese, nickel, selenium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cobalt, lead, nickel, selenium and vanadium in the affected sample. The positive results reported for cobalt, lead, nickel and vanadium were qualified as estimated, "J". The nondetected result reported for selenium was qualified as estimated, "UJ".

MEMO TO: T. HANSEN - PAGE 3
DATE: NOVEMBER 27, 2000

The interfering analyte calcium was present in sample MPT-GW-SU-54-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, beryllium, cadmium, cobalt, copper, lead, manganese, nickel, selenium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium, lead, manganese, nickel, selenium and vanadium in the affected sample. The positive results reported for cadmium, lead, manganese, nickel and vanadium were qualified as estimated, "J". The nondetected result reported for selenium was qualified as estimated, "UJ".

The interfering analyte calcium was present in sample MPT-GW-SU-55-05 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, beryllium, cadmium, cobalt, copper, lead, manganese, nickel, selenium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cobalt, lead, nickel, selenium and zinc in the affected sample. The positive results reported for cobalt, lead, nickel and zinc were qualified as estimated, "J". The nondetected result reported for selenium was qualified as estimated, "UJ".

Matrix Spike / Matrix Spike Duplicate Results

The Matrix Spike / Matrix Spike Duplicate (MS/MSD) Percent Recoveries (%Rs) for zinc were <75% quality control limit. The positive results reported for zinc were qualified as estimated, "J".

The MS/MSD %Rs for cyanide were both above and below the 75-125% quality control limits. The nondetected results reported for cyanide were qualified as estimated, "UJ".

ICP Serial Dilution Results

The ICP Serial Dilution Percent Difference (%D) for zinc was >10% quality control limit. The positive results reported for zinc were qualified as estimated, "J".

Notes

A Continuing Calibration Verification (CCV) %R for magnesium was <90% quality control limit. No samples were bracketed by the noncompliant CCV. Therefore, no validation action was taken.

A CCV %R cyanide was >110% quality control limit. No samples were bracketed by the noncompliant CCV. Therefore, no validation action was taken.

The MS/MSD Relative Percent Differences (RPDs) for nickel and zinc were >35% quality control limit. However, no validation action is taken based on MS/MSD RPD noncompliances.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

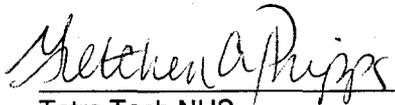
Other Factors Affecting Data Quality: The interfering analyte calcium was present in several samples. Zinc was qualified due to MS/MSD and ICP Serial Dilution noncompliances. Cyanide was qualified due to MS/MSD noncompliances.

MEMO TO: T. HANSEN - PAGE 4
DATE: NOVEMBER 27, 2000

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", September 1994 and the NFESC document entitles "Navy Installation Restoration Chemical Data Quality Manual." (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Gretchen A. Phipps



Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Regional Guidelines
4. Appendix D - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP018

SAMPLE NUMBER:	MPT-G4-SU-36-05	MPT-G4-SU-38-05	MPT-G4-SU-39-05	MPT-G4-SU-40-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080139004	A0G080139001	A0G080139002	A0G080139003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	85.6 %	94.1 %	88.1 %	81.6 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	429			454			569			321		
ANTIMONY	0.50	U		0.46	U		0.49	U		0.53	U	
ARSENIC	0.68			0.70			0.56			0.44	U	
BARIUM	3.5			2.4			3.1			2.3		
BERYLLIUM	0.02	U		0.02	U		0.02	U	A	0.03	U	
CADMIUM	0.05	U		0.05			0.05	U		0.05	U	
CALCIUM	27500			10500			10700			499		
CHROMIUM	2.5			2.2			1.8			1.2		
COBALT	0.26	U		0.23	U		0.25			0.27	U	
COPPER	1.3	U	A	0.66	U	A	0.70	U	A	0.23	U	
IRON	629			657			814			210		
LEAD	3.6			1.9			4.2			0.57		
MAGNESIUM	219			188			149			29.5	U	A
MANGANESE	7.5			7.6			13.1			1.6		
MERCURY	0.02			0.02	U		0.03			0.02		
NICKEL	0.59			0.50			0.56			0.23	U	
POTASSIUM	39.0			53.1			52.0			19.5		
SELENIUM	0.50	U		0.46	U		0.58			0.53	U	
SILVER	0.36	U		0.33	U		0.35	U		0.38	U	
SODIUM	165			84.6			118			53.8	U	
THALLIUM	0.62	U		0.56	U		0.60	U		0.65	U	
TIN	1.6	U	A	1.4	U	A	1.5	U	A	1.8	U	A
VANADIUM	2.0			2.0			2.1			1.0		
ZINC	7.6			4.9			5.9			1.9	U	A

CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP018

SAMPLE NUMBER:	MPT-G4-SU-41-06	MPT-G4-SU-42-04	MPT-G4-SU-43-04	MPT-G4-SU-44-04
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/10/00
LABORATORY ID:	A0G110127001	A0G110127002	A0G110127003	A0G110127004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.9 %	94.2 %	88.7 %	89.9 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1250			406			559			609		
ANTIMONY	0.52	U		0.46	U		0.49	U		0.48	U	
ARSENIC	0.44	U		0.60			0.57			1.5		
BARIUM	6.8			3.8			3.2			3.8		
BERYLLIUM	0.02	U		0.02	U		0.02	U		0.02	U	
CADMIUM	0.05	U		0.04	U		0.05	U		0.06		
CALCIUM	1120			766			1010			5970		
CHROMIUM	3.0			2.3			2.3			2.7		
COBALT	0.27	U		0.23	U		0.28			0.43		
COPPER	0.23	U		0.20	U		1.0	U	A	4.5		
IRON	201			443			732			2640		
LEAD	1.5			1.9			3.1			48.9		
MAGNESIUM	64.0			70.4			109			204		
MANGANESE	2.2			13.4			10.3			18.3		
MERCURY	0.05			0.02	U		0.02			0.02		
NICKEL	0.23	U		0.20	U		0.48			0.98		
POTASSIUM	23.2			27.4			47.6			58.6		
SELENIUM	0.52	U		0.46	U		0.49	U		0.48	U	
SILVER	0.37	U		0.33	U		0.35	U		0.35	U	
SODIUM	53.0	U		46.6	U		49.5	U		59.8		
THALLIUM	0.64	U		0.56	U		0.60	U		0.59	U	
TIN	1.6	U	A	1.4	U	A	1.0	U	A	107		
VANADIUM	1.0			1.4			2.2			2.7		
ZINC	2.8	U	A	2.9	U	A	4.5	J	DI	9.9	J	DI

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP018**

SAMPLE NUMBER:	MPT-G4-SU-45-04	MPT-G4-SU-46-03	MPT-G4-SU-47-02	MPT-G4-SU-48-04
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120141001	A0G120141002	A0G120141003	A0G120141004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	79.8 %	68.4 %	78.3 %	76.0 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1000			860			973			3780		
ANTIMONY	0.54	U		0.63	U		0.55	U		0.57	U	
ARSENIC	3.1			1.4			1.5			3.2		
BARIUM	4.9			3.4			3.4			7.0		
BERYLLIUM	0.06	U	A	0.04	U	A	0.03	U		0.18	U	A
CADMIUM	0.12	J	K	0.06	U		0.05	U		0.17		
CALCIUM	35100			1460			8160			11100		
CHROMIUM	3.9			2.9			3.2			8.9		
COBALT	0.51	J	K	0.37			0.45			1.2		
COPPER	203			1.6	U	A	0.78	U	A	2.9	U	A
IRON	2650			1060			1770			5390		
LEAD	11.1			4.8			4.3			8.7		
MAGNESIUM	428			255			312			1130		
MANGANESE	17.9			15.8			16.8			78.1		
MERCURY	0.03			0.02	U		0.02	U		0.04		
NICKEL	7.8			0.89			0.78			2.6		
POTASSIUM	109			129			143			444		
SELENIUM	0.54	U		0.63	U		0.55	U		0.64		
SILVER	0.39	UJ	K	0.45	U		0.40	U		0.41	U	
SODIUM	365			87.6			215			277		
THALLIUM	0.66	U		0.77	U		0.68	U		0.70	U	
TIN	2.2	U	A	1.5	U	A	1.4	U	A	1.6	U	A
VANADIUM	4.9			3.1			3.0			10.2		
ZINC	59.3	J	DI	20.5	J	DI	8.9	J	DI	15.8	J	DI

CTO091-NS MAYPORT

SOIL DATA
 QUANERRA
 SDG: MP018

SAMPLE NUMBER:	MPT-G4-SU-49-03	MPT-G4-SU-50-05	MPT-G4-SU-51-05	MPT-G4-SU-52-05
SAMPLE DATE:	07/11/00	07/12/00	07/12/00	07/12/00
LABORATORY ID:	A0G120141005	A0G130119001	A0G130119002	A0G130119003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	54.1 %	83.9 %	80.4 %	83.2 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	12000			301			444			565		
ANTIMONY	0.79	U		0.51	U		0.54	U		0.52	U	
ARSENIC	6.9			0.59			0.82			1.6		
BARIUM	16.9			2.5			3.3			6.9		
BERYLLIUM	0.58	U	A	0.02	U		0.07	U	A	0.10	U	A
CADMIUM	0.27			0.05	U		0.05	U		0.05	U	
CALCIUM	15100			28100			29500			84600		
CHROMIUM	25.5			1.8			2.2			2.8		
COBALT	3.6			0.26	U		0.37			0.26	U	
COPPER	5.1			0.28	U	A	0.57	U	A	0.28	U	A
IRON	16700			555			1060			1080		
LEAD	10.0			0.73			1.1			0.80	J	K
MAGNESIUM	2470			144			284			405		
MANGANESE	180			7.3			12.1			20.4		
MERCURY	0.06			0.02	U		0.02	U		0.02	U	
NICKEL	7.2			0.53			0.89			0.65	J	K
POTASSIUM	1540			43.9			60.7			61.0		
SELENIUM	0.82			0.51	U		0.54	U		0.52	UJ	K
SILVER	0.57	U		0.37	U		0.39	U		0.37	U	
SODIUM	290			308			257			782		
THALLIUM	0.98	U		0.63	U		0.66	U		0.64	U	
TIN	2.7	U	A	1.8	U	A	1.6	U	A	1.8	U	A
VANADIUM	26.6			2.8			2.0			2.2	J	K
ZINC	28.0	J	DI	4.5	J	DI	5.0	J	DI	6.8	J	DIK

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP018**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-SU-53-05
07/12/00
A0G130119004
NORMAL
83.9 %
MG/KG

MPT-G4-SU-54-05
07/12/00
A0G130119005
NORMAL
91.6 %
MG/KG

MPT-G4-SU-55-05
07/12/00
A0G130119006
NORMAL
82.4 %
MG/KG

//
100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	432			572			1240					
ANTIMONY	0.51	U		0.47	U		0.52	U				
ARSENIC	0.74			0.79			1.1					
BARIUM	3.6			6.0			7.3					
BERYLLIUM	0.09	U	A	0.08	U	A	0.08	U	A			
CADMIUM	0.05	U		0.07	J	K	0.05	U				
CALCIUM	64500			100000			64300					
CHROMIUM	2.7			2.2			3.4					
COBALT	0.33	J	K	0.24	U		0.39	J	K			
COPPER	0.23	U		0.21	U		1.1	U	A			
IRON	900			645			1680					
LEAD	0.75			1.1	J	K	2.3	J	K			
MAGNESIUM	446			293			429					
MANGANESE	26.9			16.0	J	K	27.2					
MERCURY	0.02	U		0.02	U		0.02	U				
NICKEL	0.73	J	K	0.48	J	K	1.1	J	K			
POTASSIUM	68.9			51.0			112					
SELENIUM	0.51	UJ	K	0.47	UJ	K	0.52	UJ	K			
SILVER	0.37	U		0.34	U		0.38	U				
SODIUM	584			900			573					
THALLIUM	0.63	U		0.58	U		0.64	U				
TIN	1.4	U	A	1.2	U	A	1.6	U	A			
VANADIUM	1.8	J	K	2.4	J	K	3.6					
ZINC	3.5	U	A	3.9	U	A	6.4	J	DIK			

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP018**

SAMPLE NUMBER:	MPT-G4-SU-36-05	MPT-G4-SU-38-05	MPT-G4-SU-39-05	MPT-G4-SU-40-05
SAMPLE DATE:	07/07/00	07/07/00	07/07/00	07/07/00
LABORATORY ID:	A0G080139004	A0G080139001	A0G080139002	A0G080139003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	85.6 %	94.1 %	88.1 %	81.6 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE, TOTAL	0.58	UJ	D	0.53	UJ	D	0.57	UJ	D	0.61	UJ	D

CTO091-NS MAYPORT

**SOIL DATA
QUANTERRA
SDG: MP018**

SAMPLE NUMBER:	MPT-G4-SU-41-06	MPT-G4-SU-42-04	MPT-G4-SU-43-04	MPT-G4-SU-44-04
SAMPLE DATE:	07/10/00	07/10/00	07/10/00	07/10/00
LABORATORY ID:	A0G110127001	A0G110127002	A0G110127003	A0G110127004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.9 %	94.2 %	88.7 %	89.9 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE, TOTAL	0.6	UJ	D	0.53	UJ	D	0.56	UJ	D	0.56	UJ	D

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP018

SAMPLE NUMBER:	MPT-G4-SU-45-04	MPT-G4-SU-46-03	MPT-G4-SU-47-02	MPT-G4-SU-48-04
SAMPLE DATE:	07/11/00	07/11/00	07/11/00	07/11/00
LABORATORY ID:	A0G120141001	A0G120141002	A0G120141003	A0G120141004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	79.8 %	68.4 %	78.3 %	76.0 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE, TOTAL	0.63	UJ	D	0.73	UJ	D	0.64	UJ	D	0.66	UJ	D

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP018**

SAMPLE NUMBER:	MPT-G4-SU-49-03	MPT-G4-SU-50-05	MPT-G4-SU-51-05	MPT-G4-SU-52-05
SAMPLE DATE:	07/11/00	07/12/00	07/12/00	07/12/00
LABORATORY ID:	A0G120141005	A0G130119001	A0G130119002	A0G130119003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	54.1 %	83.9 %	80.4 %	83.2 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE, TOTAL	0.92	UJ	D	0.6	UJ	D	0.62	UJ	D	0.6	UJ	D

CTO091-NS MAYPORT

**SOIL DATA
QUANTERRA
SDG: MP018**

SAMPLE NUMBER:	MPT-G4-SU-53-05	MPT-G4-SU-54-05	MPT-G4-SU-55-05	
SAMPLE DATE:	07/12/00	07/12/00	07/12/00	//
LABORATORY ID:	A0G130119004	A0G130119005	A0G130119006	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	83.9 %	91.6 %	82.4 %	100.0 %
UNITS:	MG/KG	MG/KG	MG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE, TOTAL	0.6	UJ	D	0.55	UJ	D	0.61	UJ	D			

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-36-05

General Chemistry

Lot-Sample #....: AOG080139-004 Work Order #....: DFWCF Matrix.....: SO
Date Sampled....: 07/07/00 10:15 Date Received...: 07/08/00
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.58	mg/kg	SW846 9012A	07/19-07/21/00	0201487
Percent Solids	85.6 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206415

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-38-05

General Chemistry

Lot-Sample #....: A0G080139-001 Work Order #....: DFWCA Matrix.....: SO
Date Sampled....: 07/07/00 12:50 Date Received...: 07/08/00
% Moisture.....: 5.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.53	mg/kg	SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	94.1	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206415
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-39-05

General Chemistry

Lot-Sample #....: AOG080139-002 Work Order #....: DFWCD Matrix.....: SO
Date Sampled....: 07/07/00 13:30 Date Received...: 07/08/00
% Moisture.....: 12

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.57	mg/kg	SW846 9012A	07/19-07/21/00	0201487
Percent Solids	88.1 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206415

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-40-05

General Chemistry

Lot-Sample #....: A0G080139-003 Work Order #....: DFWCE Matrix.....: SO
Date Sampled....: 07/07/00 14:40 Date Received...: 07/08/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.61	mg/kg	SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	81.6	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206415
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-41-06

General Chemistry

Lot-Sample #....: AOG110127-001 Work Order #....: DGOVA Matrix.....: SO
Date Sampled....: 07/10/00 10:25 Date Received...: 07/11/00
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/20-07/21/00	0202469
		Dilution Factor: 1				
Percent Solids	82.9	10.0	%	MCAW 160.3 MOD	07/25-07/26/00	0207368
		Dilution Factor: 1				

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-42-04

General Chemistry

Lot-Sample #....: A0G110127-002 Work Order #....: DGOVF Matrix.....: SO
Date Sampled....: 07/10/00 13:45 Date Received...: 07/11/00
% Moisture.....: 5.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.53	mg/kg	SW846 9012A	07/20-07/21/00	0202469
Percent Solids	94.2 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/25-07/26/00	0207368

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-43-04

General Chemistry

Lot-Sample #....: A0G110127-003 Work Order #....: DGOVH Matrix.....: SO
Date Sampled....: 07/10/00 14:57 Date Received...: 07/11/00
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.56	mg/kg	SW846 9012A	07/20-07/21/00	0202469
Percent Solids	88.7 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/25-07/26/00	0207368

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-44-04

General Chemistry

Lot-Sample #....: AOG110127-004 Work Order #....: DGOVK Matrix.....: SO
Date Sampled....: 07/10/00 16:00 Date Received...: 07/11/00
% Moisture.....: 10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.56	mg/kg	SW846 9012A	07/20-07/21/00	0202469
Percent Solids	89.9 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/25-07/26/00	0207368

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-45-04

General Chemistry

Lot-Sample #....: A0G120141-001 Work Order #....: DG2TN Matrix.....: SO
Date Sampled....: 07/11/00 08:10 Date Received...: 07/12/00
% Moisture.....: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.63	mg/kg	SW846 9012A	07/20-07/21/00	0202469
		Dilution Factor: 1				
Percent Solids	79.8	10.0	%	MCAW 160.3 MOD	07/25-07/26/00	0207368
		Dilution Factor: 1				

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-46-03

General Chemistry

Lot-Sample #....: AOG120141-002 Work Order #....: DG2VL Matrix.....: SO
Date Sampled....: 07/11/00 09:55 Date Received...: 07/12/00
% Moisture.....: 32

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.73	mg/kg	SW846 9012A	07/20-07/21/00	0202469
Percent Solids	68.4 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/25-07/26/00	0207368

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-47-02

General Chemistry

Lot-Sample #....: A0G120141-003 Work Order #....: DG2VM Matrix.....: SO
Date Sampled....: 07/11/00 13:00 Date Received...: 07/12/00
% Moisture.....: 22

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.64	mg/kg	SW846 9012A	07/20-07/21/00	0202467
Percent Solids	78.3 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/25-07/26/00	0207368

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-48-04

General Chemistry

Lot-Sample #....: A0G120141-004 Work Order #....: DG2VN Matrix.....: SO
Date Sampled....: 07/11/00 14:30 Date Received...: 07/12/00
% Moisture.....: 24

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.66	mg/kg	SW846 9012A	07/20-07/21/00	0202467
		Dilution Factor: 1				
Percent Solids	76.0	10.0	%	MCAWW 160.3 MOD	07/25-07/26/00	0207368
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-49-03

General Chemistry

Lot-Sample #....: A0G120141-005 Work Order #....: DG2VQ Matrix.....: SO
Date Sampled....: 07/11/00 15:45 Date Received...: 07/12/00
% Moisture.....: 46

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.92	mg/kg	SW846 9012A	07/20-07/21/00	0202469
Percent Solids	54.1 Dilution Factor: 1	10.0	%	MCAW 160.3 MOD	07/27-07/28/00	0209427

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-50-05

General Chemistry

Lot-Sample #....: A0G130119-001 Work Order #....: DG4KV Matrix.....: SO
Date Sampled....: 07/12/00 08:10 Date Received...: 07/13/00
% Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/26/00	0208419
		Dilution Factor: 1				
Percent Solids	83.9	10.0	%	MCAW 160.3 MOD	07/27-07/28/00	0209461
		Dilution Factor: 1				

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-51-05

General Chemistry

Lot-Sample #....: AOG130119-002 Work Order #....: DG4L8 Matrix.....: SO
Date Sampled....: 07/12/00 09:17 Date Received...: 07/13/00
% Moisture.....: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.62	mg/kg	SW846 9012A	07/26/00	0208419
Percent Solids	80.4 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/27-07/28/00	0209461

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-52-05

General Chemistry

Lot-Sample #....: A0G130119-003 Work Order #....: DG4LE Matrix.....: SO
Date Sampled....: 07/12/00 10:20 Date Received...: 07/13/00
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/26/00	0208419
		Dilution Factor: 1				
Percent Solids	83.2	10.0	%	MCAWW 160.3 MOD	07/27-07/28/00	0209461
		Dilution Factor: 1				

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-53-05

General Chemistry

Lot-Sample #....: A0G130119-004 Work Order #....: DG4LH Matrix.....: SO
Date Sampled....: 07/12/00 12:45 Date Received...: 07/13/00
% Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.60	mg/kg	SW846 9012A	07/26/00	0208419
		Dilution Factor: 1				
Percent Solids	83.9	10.0	%	MCAWW 160.3 MOD	07/27-07/28/00	0209461
		Dilution Factor: 1				

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-54-05

General Chemistry

Lot-Sample #....: AOG130119-005 Work Order #....: DG4LK Matrix.....: SO
Date Sampled...: 07/12/00 14:15 Date Received...: 07/13/00
% Moisture.....: 8.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.55	mg/kg	SW846 9012A	07/26/00	0208419
		Dilution Factor: 1				
Percent Solids	91.6	10.0	%	MCAWW 160.3 MOD	07/27-07/28/00	0209461
		Dilution Factor: 1				

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU-55-05

General Chemistry

Lot-Sample #....: AOG130119-006 Work Order #....: DG4LN Matrix.....: SO
Date Sampled....: 07/12/00 15:10 Date Received...: 07/13/00
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.61	mg/kg	SW846 9012A	07/26/00	0208419
Percent Solids	82.4 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	07/27-07/28/00	0209461

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWCF Client ID: MPT-G4-SU-36-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 14.36

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.2	23.4	429	N	1	ICPST	7/28/00	17:47
Antimony	206.84	0.50	1.2	0.50	U	1	ICPST	7/28/00	17:47
Arsenic	189.04	0.42	1.2	0.68	B	1	ICPST	7/28/00	17:47
Barium	493.41	0.047	23.4	3.5	B	1	ICPST	7/28/00	17:47
Beryllium	313.04	0.023	0.58	0.023	U	1	ICPST	7/28/00	17:47
Cadmium	226.50	0.047	0.23	0.047	U	1	ICPST	7/28/00	17:47
Calcium	317.93	0.96	584	27500		1	ICPST	7/28/00	17:47
Chromium	267.72	0.23	0.58	2.5		1	ICPST	7/28/00	17:47
Cobalt	228.62	0.26	5.8	0.26	U	1	ICPST	7/28/00	17:47
Copper	324.75	0.22	2.9	1.3	B	1	ICPST	7/28/00	17:47
Iron	271.44	3.2	11.7	629		1	ICPST	7/28/00	17:47
Lead	220.35	0.15	0.35	3.6		1	ICPST	7/28/00	17:47
Magnesium	279.08	1.6	584	219	B	1	ICPST	7/28/00	17:47
Manganese	257.61	0.047	1.8	7.5		1	ICPST	7/28/00	17:47
Mercury	253.7	0.020	0.12	0.024	B	1	CVAA	7/27/00	16:02
Nickel	231.60	0.22	4.7	0.59	B*	1	ICPST	7/28/00	17:47
Potassium	766.49	6.1	584	39.0	B	1	ICPST	7/28/00	17:47
Selenium	196.03	0.50	0.58	0.50	U	1	ICPST	7/28/00	17:47
Silver	328.07	0.36	0.58	0.36	U	1	ICPST	7/28/00	17:47
Sodium	330.23	51.3	584	165	B	1	ICPST	7/28/00	17:47
Thallium	190.86	0.62	1.2	0.62	U	1	ICPST	7/28/00	17:47
Tin	189.99	0.33	11.7	1.6	B	1	ICPST	7/28/00	17:47
Vanadium	292.40	0.16	5.8	2.0	B	1	ICPST	7/28/00	17:47
Zinc	213.86	0.070	2.3	7.6	NL*	1	ICPST	7/28/00	17:47

Comments: Lot #: A0G080139 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWCA Client ID: MPT-G4-SU-38-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 5.87

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.0	21.3	454	N	1	ICPST	7/28/00	17:28
Antimony	206.84	0.46	1.1	0.46	U	1	ICPST	7/28/00	17:28
Arsenic	189.04	0.38	1.1	0.70	B	1	ICPST	7/28/00	17:28
Barium	493.41	0.043	21.3	2.4	B	1	ICPST	7/28/00	17:28
Beryllium	313.04	0.021	0.53	0.021	U	1	ICPST	7/28/00	17:28
Cadmium	226.50	0.043	0.21	0.050	B	1	ICPST	7/28/00	17:28
Calcium	317.93	0.87	531	10500		1	ICPST	7/28/00	17:28
Chromium	267.72	0.21	0.53	2.2		1	ICPST	7/28/00	17:28
Cobalt	228.62	0.23	5.3	0.23	U	1	ICPST	7/28/00	17:28
Copper	324.75	0.20	2.7	0.66	B	1	ICPST	7/28/00	17:28
Iron	271.44	2.9	10.6	657		1	ICPST	7/28/00	17:28
Lead	220.35	0.14	0.32	1.9		1	ICPST	7/28/00	17:28
Magnesium	279.08	1.4	531	188	B	1	ICPST	7/28/00	17:28
Manganese	257.61	0.043	1.6	7.6		1	ICPST	7/28/00	17:28
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	7/27/00	15:55
Nickel	231.60	0.20	4.3	0.50	B*	1	ICPST	7/28/00	17:28
Potassium	766.49	5.6	531	53.1	B	1	ICPST	7/28/00	17:28
Selenium	196.03	0.46	0.53	0.46	U	1	ICPST	7/28/00	17:28
Silver	328.07	0.33	0.53	0.33	U	1	ICPST	7/28/00	17:28
Sodium	330.23	46.6	531	84.6	B	1	ICPST	7/28/00	17:28
Thallium	190.86	0.56	1.1	0.56	U	1	ICPST	7/28/00	17:28
Tin	189.99	0.30	10.6	1.4	B	1	ICPST	7/28/00	17:28
Vanadium	292.40	0.15	5.3	2.0	B	1	ICPST	7/28/00	17:28
Zinc	213.86	0.064	2.1	4.9	NL*	1	ICPST	7/28/00	17:28

Comments: Lot #: AOG080139 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWCD Client ID: MPT-G4-SU-39-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 11.95

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.1	22.7	569	N	1	ICPST	7/28/00	17:37
Antimony	206.84	0.49	1.1	0.49	U	1	ICPST	7/28/00	17:37
Arsenic	189.04	0.41	1.1	0.56	B	1	ICPST	7/28/00	17:37
Barium	493.41	0.045	22.7	3.1	B	1	ICPST	7/28/00	17:37
Beryllium	313.04	0.023	0.57	0.023	B	1	ICPST	7/28/00	17:37
Cadmium	226.50	0.045	0.23	0.045	U	1	ICPST	7/28/00	17:37
Calcium	317.93	0.93	568	10700		1	ICPST	7/28/00	17:37
Chromium	267.72	0.23	0.57	1.8		1	ICPST	7/28/00	17:37
Cobalt	228.62	0.25	5.7	0.25	B	1	ICPST	7/28/00	17:37
Copper	324.75	0.22	2.8	0.70	B	1	ICPST	7/28/00	17:37
Iron	271.44	3.1	11.4	814		1	ICPST	7/28/00	17:37
Lead	220.35	0.15	0.34	4.2		1	ICPST	7/28/00	17:37
Magnesium	279.08	1.5	568	149	B	1	ICPST	7/28/00	17:37
Manganese	257.61	0.045	1.7	13.1		1	ICPST	7/28/00	17:37
Mercury	253.7	0.019	0.11	0.026	B	1	CVAA	7/27/00	15:56
Nickel	231.60	0.22	4.5	0.56	B*	1	ICPST	7/28/00	17:37
Potassium	766.49	6.0	568	52.0	B	1	ICPST	7/28/00	17:37
Selenium	196.03	0.49	0.57	0.58		1	ICPST	7/28/00	17:37
Silver	328.07	0.35	0.57	0.35	U	1	ICPST	7/28/00	17:37
Sodium	330.23	49.9	568	118	B	1	ICPST	7/28/00	17:37
Thallium	190.86	0.60	1.1	0.60	U	1	ICPST	7/28/00	17:37
Tin	189.99	0.32	11.4	1.5	B	1	ICPST	7/28/00	17:37
Vanadium	292.40	0.16	5.7	2.1	B	1	ICPST	7/28/00	17:37
Zinc	213.86	0.068	2.3	5.9	NL*	1	ICPST	7/28/00	17:37

Comments: Lot #: A0G080139 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DFWCE Client ID: MPT-G4-SU-40-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 18.42

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.3	24.5	321	N	1	ICPST	7/28/00	17:42
Antimony	206.84	0.53	1.2	0.53	U	1	ICPST	7/28/00	17:42
Arsenic	189.04	0.44	1.2	0.44	U	1	ICPST	7/28/00	17:42
Barium	493.41	0.049	24.5	2.3	B	1	ICPST	7/28/00	17:42
Beryllium	313.04	0.025	0.61	0.025	U	1	ICPST	7/28/00	17:42
Cadmium	226.50	0.049	0.25	0.049	U	1	ICPST	7/28/00	17:42
Calcium	317.93	1.0	613	499	B	1	ICPST	7/28/00	17:42
Chromium	267.72	0.25	0.61	1.2		1	ICPST	7/28/00	17:42
Cobalt	228.62	0.27	6.1	0.27	U	1	ICPST	7/28/00	17:42
Copper	324.75	0.23	3.1	0.23	U	1	ICPST	7/28/00	17:42
Iron	271.44	3.4	12.3	210		1	ICPST	7/28/00	17:42
Lead	220.35	0.16	0.37	0.57		1	ICPST	7/28/00	17:42
Magnesium	279.08	1.6	613	29.5	B	1	ICPST	7/28/00	17:42
Manganese	257.61	0.049	1.8	1.6	B	1	ICPST	7/28/00	17:42
Mercury	253.7	0.020	0.12	0.023	B	1	CVAA	7/27/00	15:58
Nickel	231.60	0.23	4.9	0.23	U*	1	ICPST	7/28/00	17:42
Potassium	766.49	6.4	613	19.5	B	1	ICPST	7/28/00	17:42
Selenium	196.03	0.53	0.61	0.53	U	1	ICPST	7/28/00	17:42
Silver	328.07	0.38	0.61	0.38	U	1	ICPST	7/28/00	17:42
Sodium	330.23	53.8	613	53.8	U	1	ICPST	7/28/00	17:42
Thallium	190.86	0.65	1.2	0.65	U	1	ICPST	7/28/00	17:42
Tin	189.99	0.34	12.3	1.8	B	1	ICPST	7/28/00	17:42
Vanadium	292.40	0.17	6.1	1.0	B	1	ICPST	7/28/00	17:42
Zinc	213.86	0.074	2.5	1.9	BNL*	1	ICPST	7/28/00	17:42

Comments: Lot #: A0G080139 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG0VA Client ID: MPT-G4-SU-41-06
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 17.15

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.3	24.1	1250	N	1	ICPST	7/28/00	17:52
Antimony	206.84	0.52	1.2	0.52	U	1	ICPST	7/28/00	17:52
Arsenic	189.04	0.44	1.2	0.44	U	1	ICPST	7/28/00	17:52
Barium	493.41	0.048	24.1	6.8	B	1	ICPST	7/28/00	17:52
Beryllium	313.04	0.024	0.60	0.024	U	1	ICPST	7/28/00	17:52
Cadmium	226.50	0.048	0.24	0.048	U	1	ICPST	7/28/00	17:52
Calcium	317.93	0.99	604	1120		1	ICPST	7/28/00	17:52
Chromium	267.72	0.24	0.60	3.0		1	ICPST	7/28/00	17:52
Cobalt	228.62	0.27	6.0	0.27	U	1	ICPST	7/28/00	17:52
Copper	324.75	0.23	3.0	0.23	U	1	ICPST	7/28/00	17:52
Iron	271.44	3.3	12.1	201		1	ICPST	7/28/00	17:52
Lead	220.35	0.16	0.36	1.5		1	ICPST	7/28/00	17:52
Magnesium	279.08	1.6	604	64.0	B	1	ICPST	7/28/00	17:52
Manganese	257.61	0.048	1.8	2.2		1	ICPST	7/28/00	17:52
Mercury	253.7	0.020	0.12	0.046	B	1	CVAA	7/27/00	16:03
Nickel	231.60	0.23	4.8	0.23	U*	1	ICPST	7/28/00	17:52
Potassium	766.49	6.3	604	23.2	B	1	ICPST	7/28/00	17:52
Selenium	196.03	0.52	0.60	0.52	U	1	ICPST	7/28/00	17:52
Silver	328.07	0.37	0.60	0.37	U	1	ICPST	7/28/00	17:52
Sodium	330.23	53.0	604	53.0	U	1	ICPST	7/28/00	17:52
Thallium	190.86	0.64	1.2	0.64	U	1	ICPST	7/28/00	17:52
Tin	189.99	0.34	12.1	1.6	B	1	ICPST	7/28/00	17:52
Vanadium	292.40	0.17	6.0	1.0	B	1	ICPST	7/28/00	17:52
Zinc	213.86	0.072	2.4	2.8	NL*	1	ICPST	7/28/00	17:52

Comments: Lot #: A0G110127 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG0VF Client ID: MPT-G4-SU-42-04
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 5.81

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.0	21.2	406	N	1	ICPST	7/28/00	17:57
Antimony	206.84	0.46	1.1	0.46	U	1	ICPST	7/28/00	17:57
Arsenic	189.04	0.38	1.1	0.60	B	1	ICPST	7/28/00	17:57
Barium	493.41	0.043	21.2	3.8	B	1	ICPST	7/28/00	17:57
Beryllium	313.04	0.021	0.53	0.021	U	1	ICPST	7/28/00	17:57
Cadmium	226.50	0.043	0.21	0.043	U	1	ICPST	7/28/00	17:57
Calcium	317.93	0.87	531	766		1	ICPST	7/28/00	17:57
Chromium	267.72	0.21	0.53	2.3		1	ICPST	7/28/00	17:57
Cobalt	228.62	0.23	5.3	0.23	U	1	ICPST	7/28/00	17:57
Copper	324.75	0.20	2.7	0.20	U	1	ICPST	7/28/00	17:57
Iron	271.44	2.9	10.6	443		1	ICPST	7/28/00	17:57
Lead	220.35	0.14	0.32	1.9		1	ICPST	7/28/00	17:57
Magnesium	279.08	1.4	531	70.4	B	1	ICPST	7/28/00	17:57
Manganese	257.61	0.043	1.6	13.4		1	ICPST	7/28/00	17:57
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	7/27/00	16:04
Nickel	231.60	0.20	4.3	0.20	U*	1	ICPST	7/28/00	17:57
Potassium	766.49	5.6	531	27.4	B	1	ICPST	7/28/00	17:57
Selenium	196.03	0.46	0.53	0.46	U	1	ICPST	7/28/00	17:57
Silver	328.07	0.33	0.53	0.33	U	1	ICPST	7/28/00	17:57
Sodium	330.23	46.6	531	46.6	U	1	ICPST	7/28/00	17:57
Thallium	190.86	0.56	1.1	0.56	U	1	ICPST	7/28/00	17:57
Tin	189.99	0.30	10.6	1.4	B	1	ICPST	7/28/00	17:57
Vanadium	292.40	0.15	5.3	1.4	B	1	ICPST	7/28/00	17:57
Zinc	213.86	0.064	2.1	2.9	NL*	1	ICPST	7/28/00	17:57

Comments: Lot #: A0G110127 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG0VH Client ID: MPT-G4-SU-43-04
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 11.27

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.1	22.5	559	N	1	ICPST	7/28/00	18:01
Antimony	206.84	0.49	1.1	0.49	U	1	ICPST	7/28/00	18:01
Arsenic	189.04	0.41	1.1	0.57	B	1	ICPST	7/28/00	18:01
Barium	493.41	0.045	22.5	3.2	B	1	ICPST	7/28/00	18:01
Beryllium	313.04	0.023	0.56	0.023	U	1	ICPST	7/28/00	18:01
Cadmium	226.50	0.045	0.23	0.045	U	1	ICPST	7/28/00	18:01
Calcium	317.93	0.92	564	1010		1	ICPST	7/28/00	18:01
Chromium	267.72	0.23	0.56	2.3		1	ICPST	7/28/00	18:01
Cobalt	228.62	0.25	5.6	0.28	B	1	ICPST	7/28/00	18:01
Copper	324.75	0.21	2.8	1.0	B	1	ICPST	7/28/00	18:01
Iron	271.44	3.1	11.3	732		1	ICPST	7/28/00	18:01
Lead	220.35	0.15	0.34	3.1		1	ICPST	7/28/00	18:01
Magnesium	279.08	1.5	564	109	B	1	ICPST	7/28/00	18:01
Manganese	257.61	0.045	1.7	10.3		1	ICPST	7/28/00	18:01
Mercury	253.7	0.019	0.11	0.024	B	1	CVAA	7/27/00	16:05
Nickel	231.60	0.21	4.5	0.48	B*	1	ICPST	7/28/00	18:01
Potassium	766.49	5.9	564	47.6	B	1	ICPST	7/28/00	18:01
Selenium	196.03	0.49	0.56	0.49	U	1	ICPST	7/28/00	18:01
Silver	328.07	0.35	0.56	0.35	U	1	ICPST	7/28/00	18:01
Sodium	330.23	49.5	564	49.5	U	1	ICPST	7/28/00	18:01
Thallium	190.86	0.60	1.1	0.60	U	1	ICPST	7/28/00	18:01
Tin	189.99	0.32	11.3	1.0	B	1	ICPST	7/28/00	18:01
Vanadium	292.40	0.16	5.6	2.2	B	1	ICPST	7/28/00	18:01
Zinc	213.86	0.068	2.3	4.5	NL*	1	ICPST	7/28/00	18:01

Comments: Lot #: AOG110127 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG0VK Client ID: MPT-G4-SU-44-04
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 10.11

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.1	22.3	609	N	1	ICPST	7/28/00	18:19
Antimony	206.84	0.48	1.1	0.48	U	1	ICPST	7/28/00	18:19
Arsenic	189.04	0.40	1.1	1.5		1	ICPST	7/28/00	18:19
Barium	493.41	0.045	22.3	3.8	B	1	ICPST	7/28/00	18:19
Beryllium	313.04	0.022	0.56	0.022	U	1	ICPST	7/28/00	18:19
Cadmium	226.50	0.045	0.22	0.060	B	1	ICPST	7/28/00	18:19
Calcium	317.93	0.91	556	5970		1	ICPST	7/28/00	18:19
Chromium	267.72	0.22	0.56	2.7		1	ICPST	7/28/00	18:19
Cobalt	228.62	0.25	5.6	0.43	B	1	ICPST	7/28/00	18:19
Copper	324.75	0.21	2.8	4.5		1	ICPST	7/28/00	18:19
Iron	271.44	3.0	11.1	2640		1	ICPST	7/28/00	18:19
Lead	220.35	0.15	0.33	48.9		1	ICPST	7/28/00	18:19
Magnesium	279.08	1.5	556	204	B	1	ICPST	8/9/00	22:18
Manganese	257.61	0.045	1.7	18.3		1	ICPST	7/28/00	18:19
Mercury	253.7	0.019	0.11	0.023	B	1	CVAA	7/27/00	16:07
Nickel	231.60	0.21	4.5	0.98	B*	1	ICPST	7/28/00	18:19
Potassium	766.49	5.8	556	58.6	B	1	ICPST	7/28/00	18:19
Selenium	196.03	0.48	0.56	0.48	U	1	ICPST	7/28/00	18:19
Silver	328.07	0.35	0.56	0.35	U	1	ICPST	7/28/00	18:19
Sodium	330.23	48.8	556	59.8	B	1	ICPST	7/28/00	18:19
Thallium	190.86	0.59	1.1	0.59	U	1	ICPST	7/28/00	18:19
Tin	189.99	0.31	11.1	107		1	ICPST	7/28/00	18:19
Vanadium	292.40	0.16	5.6	2.7	B	1	ICPST	7/28/00	18:19
Zinc	213.86	0.067	2.2	9.9	NL*	1	ICPST	7/28/00	18:19

Comments: Lot #: A0G110127 Sample #: 4

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG2TN Client ID: MPT-G4-SU-45-04
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 20.16

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.4	25.1	1000	N	1	ICPST	7/28/00	18:24
Antimony	206.84	0.54	1.3	0.54	U	1	ICPST	7/28/00	18:24
Arsenic	189.04	0.45	1.3	3.1		1	ICPST	7/28/00	18:24
Barium	493.41	0.050	25.1	4.9	B	1	ICPST	7/28/00	18:24
Beryllium	313.04	0.025	0.63	0.063	B	1	ICPST	7/28/00	18:24
Cadmium	226.50	0.050	0.25	0.12	B	1	ICPST	7/28/00	18:24
Calcium	317.93	1.0	626	35100		1	ICPST	7/28/00	18:24
Chromium	267.72	0.25	0.63	3.9		1	ICPST	7/28/00	18:24
Cobalt	228.62	0.28	6.3	0.51	B	1	ICPST	7/28/00	18:24
Copper	324.75	0.24	3.1	203		1	ICPST	7/28/00	18:24
Iron	271.44	3.4	12.5	2650		1	ICPST	7/28/00	18:24
Lead	220.35	0.16	0.38	11.1		1	ICPST	7/28/00	18:24
Magnesium	279.08	1.7	626	428	B	1	ICPST	7/31/00	16:50
Manganese	257.61	0.050	1.9	17.9		1	ICPST	7/28/00	18:24
Mercury	253.7	0.021	0.13	0.031	B	1	CVAA	7/27/00	16:08
Nickel	231.60	0.24	5.0	7.8	*	1	ICPST	7/28/00	18:24
Potassium	766.49	6.6	626	109	B	1	ICPST	7/28/00	18:24
Selenium	196.03	0.54	0.63	0.54	U	1	ICPST	7/28/00	18:24
Silver	328.07	0.39	0.63	0.39	U	1	ICPST	7/28/00	18:24
Sodium	330.23	55.0	626	365	B	1	ICPST	7/28/00	18:24
Thallium	190.86	0.66	1.3	0.66	U	1	ICPST	7/28/00	18:24
Tin	189.99	0.35	12.5	2.2	B	1	ICPST	7/28/00	18:24
Vanadium	292.40	0.18	6.3	4.9	B	1	ICPST	7/28/00	18:24
Zinc	213.86	0.075	2.5	59.3	NL*	1	ICPST	7/28/00	18:24

Comments: Lot #: A0G120141 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG2VL Client ID: MPT-G4-SU-46-03
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 31.55

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.8	29.2	860	N	1	ICPST	7/31/00	17:07
Antimony	206.84	0.63	1.5	0.63	U	1	ICPST	7/31/00	17:07
Arsenic	189.04	0.53	1.5	1.4	B	1	ICPST	7/31/00	17:07
Barium	493.41	0.058	29.2	3.4	B	1	ICPST	7/31/00	17:07
Beryllium	313.04	0.029	0.73	0.042	B	1	ICPST	7/31/00	17:07
Cadmium	226.50	0.058	0.29	0.058	U	1	ICPST	7/31/00	17:07
Calcium	317.93	1.2	731	1460		1	ICPST	7/31/00	17:07
Chromium	267.72	0.29	0.73	2.9		1	ICPST	7/31/00	17:07
Cobalt	228.62	0.32	7.3	0.37	B	1	ICPST	7/31/00	17:07
Copper	324.75	0.28	3.7	1.6	B	1	ICPST	7/31/00	17:07
Iron	271.44	4.0	14.6	1060		1	ICPST	7/31/00	17:07
Lead	220.35	0.19	0.44	4.8		1	ICPST	7/31/00	17:07
Magnesium	279.08	2.0	731	255	B	1	ICPST	7/31/00	17:07
Manganese	257.61	0.058	2.2	15.8		1	ICPST	7/31/00	17:07
Mercury	253.7	0.024	0.15	0.024	U	1	CVAA	7/27/00	16:12
Nickel	231.60	0.28	5.8	0.89	B*	1	ICPST	7/31/00	17:07
Potassium	766.49	7.7	731	129	B	1	ICPST	7/31/00	17:07
Selenium	196.03	0.63	0.73	0.63	U	1	ICPST	7/31/00	17:07
Silver	328.07	0.45	0.73	0.45	U	1	ICPST	7/31/00	17:07
Sodium	330.23	64.1	731	87.6	B	1	ICPST	7/31/00	17:07
Thallium	190.86	0.77	1.5	0.77	U	1	ICPST	7/31/00	17:07
Tin	189.99	0.41	14.6	1.5	B	1	ICPST	7/31/00	17:07
Vanadium	292.40	0.21	7.3	3.1	B	1	ICPST	7/31/00	17:07
Zinc	213.86	0.088	2.9	20.5	NL*	1	ICPST	7/31/00	17:07

Comments: Lot #: A0G120141 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG2VM Client ID: MPT-G4-SU-47-02
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 21.67

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.4	25.5	973	N	1	ICPST	7/31/00	17:11
Antimony	206.84	0.55	1.3	0.55	U	1	ICPST	7/31/00	17:11
Arsenic	189.04	0.46	1.3	1.5		1	ICPST	7/31/00	17:11
Barium	493.41	0.051	25.5	3.4	B	1	ICPST	7/31/00	17:11
Beryllium	313.04	0.026	0.64	0.026	U	1	ICPST	7/31/00	17:11
Cadmium	226.50	0.051	0.26	0.051	U	1	ICPST	7/31/00	17:11
Calcium	317.93	1.1	638	8160		1	ICPST	7/31/00	17:11
Chromium	267.72	0.26	0.64	3.2		1	ICPST	7/31/00	17:11
Cobalt	228.62	0.28	6.4	0.45	B	1	ICPST	7/31/00	17:11
Copper	324.75	0.24	3.2	0.78	B	1	ICPST	7/31/00	17:11
Iron	271.44	3.5	12.8	1770		1	ICPST	7/31/00	17:11
Lead	220.35	0.17	0.38	4.3		1	ICPST	7/31/00	17:11
Magnesium	279.08	1.7	638	312	B	1	ICPST	7/31/00	17:11
Manganese	257.61	0.051	1.9	16.8		1	ICPST	7/31/00	17:11
Mercury	253.7	0.021	0.13	0.021	U	1	CVAA	7/27/00	16:13
Nickel	231.60	0.24	5.1	0.78	B*	1	ICPST	7/31/00	17:11
Potassium	766.49	6.7	638	143	B	1	ICPST	7/31/00	17:11
Selenium	196.03	0.55	0.64	0.55	U	1	ICPST	7/31/00	17:11
Silver	328.07	0.40	0.64	0.40	U	1	ICPST	7/31/00	17:11
Sodium	330.23	56.0	638	215	B	1	ICPST	7/31/00	17:11
Thallium	190.86	0.68	1.3	0.68	U	1	ICPST	7/31/00	17:11
Tin	189.99	0.36	12.8	1.4	B	1	ICPST	7/31/00	17:11
Vanadium	292.40	0.18	6.4	3.0	B	1	ICPST	7/31/00	17:11
Zinc	213.86	0.077	2.6	8.9	NL*	1	ICPST	7/31/00	17:11

Comments: Lot #: A0G120141 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG2VN Client ID: MPT-G4-SU-48-04
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 24.02

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.5	26.3	3780	N	1	ICPST	7/28/00	18:50
Antimony	206.84	0.57	1.3	0.57	U	1	ICPST	7/28/00	18:50
Arsenic	189.04	0.47	1.3	3.2		1	ICPST	7/28/00	18:50
Barium	493.41	0.053	26.3	7.0	B	1	ICPST	7/28/00	18:50
Beryllium	313.04	0.026	0.66	0.18	B	1	ICPST	7/28/00	18:50
Cadmium	226.50	0.053	0.26	0.17	B	1	ICPST	7/28/00	18:50
Calcium	317.93	1.1	658	11100		1	ICPST	7/28/00	18:50
Chromium	267.72	0.26	0.66	8.9		1	ICPST	7/28/00	18:50
Cobalt	228.62	0.29	6.6	1.2	B	1	ICPST	7/28/00	18:50
Copper	324.75	0.25	3.3	2.9	B	1	ICPST	7/28/00	18:50
Iron	271.44	3.6	13.2	5390		1	ICPST	7/28/00	18:50
Lead	220.35	0.17	0.40	8.7		1	ICPST	7/28/00	18:50
Magnesium	279.08	1.8	658	1130		1	ICPST	7/31/00	17:16
Manganese	257.61	0.053	2.0	78.1		1	ICPST	7/28/00	18:50
Mercury	253.7	0.022	0.13	0.039	B	1	CVAA	7/27/00	16:17
Nickel	231.60	0.25	5.3	2.6	B*	1	ICPST	7/28/00	18:50
Potassium	766.49	6.9	658	444	B	1	ICPST	7/28/00	18:50
Selenium	196.03	0.57	0.66	0.64	B	1	ICPST	7/28/00	18:50
Silver	328.07	0.41	0.66	0.41	U	1	ICPST	7/28/00	18:50
Sodium	330.23	57.8	658	277	B	1	ICPST	7/28/00	18:50
Thallium	190.86	0.70	1.3	0.70	U	1	ICPST	7/28/00	18:50
Tin	189.99	0.37	13.2	1.6	B	1	ICPST	7/28/00	18:50
Vanadium	292.40	0.18	6.6	10.2		1	ICPST	7/28/00	18:50
Zinc	213.86	0.079	2.6	15.8	NL*	1	ICPST	7/28/00	18:50

Comments: Lot #: A0G120141 Sample #: 4

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG2VQ Client ID: MPT-G4-SU-49-03
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 45.87

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	3.5	37.0	12000	N	1	ICPST	7/28/00	18:55
Antimony	206.84	0.79	1.9	0.79	U	1	ICPST	7/28/00	18:55
Arsenic	189.04	0.67	1.9	6.9		1	ICPST	7/28/00	18:55
Barium	493.41	0.074	37.0	16.9	B	1	ICPST	7/28/00	18:55
Beryllium	313.04	0.037	0.92	0.58	B	1	ICPST	7/28/00	18:55
Cadmium	226.50	0.074	0.37	0.27	B	1	ICPST	7/28/00	18:55
Calcium	317.93	1.5	924	15100		1	ICPST	7/28/00	18:55
Chromium	267.72	0.37	0.92	25.5		1	ICPST	7/28/00	18:55
Cobalt	228.62	0.41	9.2	3.6	B	1	ICPST	7/28/00	18:55
Copper	324.75	0.35	4.6	5.1		1	ICPST	7/28/00	18:55
Iron	271.44	5.0	18.5	16700		1	ICPST	7/28/00	18:55
Lead	220.35	0.24	0.55	10.0		1	ICPST	7/28/00	18:55
Magnesium	279.08	2.5	924	2470		1	ICPST	7/31/00	17:21
Manganese	257.61	0.074	2.8	180		1	ICPST	7/28/00	18:55
Mercury	253.7	0.031	0.19	0.055	B	1	CVAA	7/27/00	16:18
Nickel	231.60	0.35	7.4	7.2	B*	1	ICPST	7/28/00	18:55
Potassium	766.49	9.7	924	1540		1	ICPST	7/28/00	18:55
Selenium	196.03	0.79	0.92	0.82	B	1	ICPST	7/28/00	18:55
Silver	328.07	0.57	0.92	0.57	U	1	ICPST	7/28/00	18:55
Sodium	330.23	81.1	924	290	B	1	ICPST	7/28/00	18:55
Thallium	190.86	0.98	1.9	0.98	U	1	ICPST	7/28/00	18:55
Tin	189.99	0.52	18.5	2.7	B	1	ICPST	7/28/00	18:55
Vanadium	292.40	0.26	9.2	26.6		1	ICPST	7/28/00	18:55
Zinc	213.86	0.11	3.7	28.0	NL*	1	ICPST	7/28/00	18:55

Comments: Lot #: A0G120141 Sample #: 5

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG4KV Client ID: MPT-G4-SU-50-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 16.11

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.2	23.8	301	N	1	ICPST	7/28/00	19:00
Antimony	206.84	0.51	1.2	0.51	U	1	ICPST	7/28/00	19:00
Arsenic	189.04	0.43	1.2	0.59	B	1	ICPST	7/28/00	19:00
Barium	493.41	0.048	23.8	2.5	B	1	ICPST	7/28/00	19:00
Beryllium	313.04	0.024	0.60	0.024	U	1	ICPST	7/28/00	19:00
Cadmium	226.50	0.048	0.24	0.048	U	1	ICPST	7/28/00	19:00
Calcium	317.93	0.98	596	28100		1	ICPST	7/28/00	19:00
Chromium	267.72	0.24	0.60	1.8		1	ICPST	7/28/00	19:00
Cobalt	228.62	0.26	6.0	0.26	U	1	ICPST	7/28/00	19:00
Copper	324.75	0.23	3.0	0.28	B	1	ICPST	7/28/00	19:00
Iron	271.44	3.3	11.9	555		1	ICPST	7/28/00	19:00
Lead	220.35	0.16	0.36	0.73		1	ICPST	7/28/00	19:00
Magnesium	279.08	1.6	596	144	B	1	ICPST	7/31/00	17:26
Manganese	257.61	0.048	1.8	7.3		1	ICPST	7/28/00	19:00
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/27/00	16:19
Nickel	231.60	0.23	4.8	0.53	B*	1	ICPST	7/28/00	19:00
Potassium	766.49	6.3	596	43.9	B	1	ICPST	7/28/00	19:00
Selenium	196.03	0.51	0.60	0.51	U	1	ICPST	7/28/00	19:00
Silver	328.07	0.37	0.60	0.37	U	1	ICPST	7/28/00	19:00
Sodium	330.23	52.3	596	308	B	1	ICPST	7/28/00	19:00
Thallium	190.86	0.63	1.2	0.63	U	1	ICPST	7/28/00	19:00
Tin	189.99	0.33	11.9	1.8	B	1	ICPST	7/28/00	19:00
Vanadium	292.40	0.17	6.0	2.8	B	1	ICPST	7/28/00	19:00
Zinc	213.86	0.072	2.4	4.5	NL*	1	ICPST	7/28/00	19:00

Comments: Lot #: A0G130119 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG4L8 Client ID: MPT-G4-SU-51-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 19.57

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.3	24.9	444	N	1	ICPST	7/28/00	19:04
Antimony	206.84	0.54	1.2	0.54	U	1	ICPST	7/28/00	19:04
Arsenic	189.04	0.45	1.2	0.82	B	1	ICPST	7/28/00	19:04
Barium	493.41	0.050	24.9	3.3	B	1	ICPST	7/28/00	19:04
Beryllium	313.04	0.025	0.62	0.072	B	1	ICPST	7/28/00	19:04
Cadmium	226.50	0.050	0.25	0.050	U	1	ICPST	7/28/00	19:04
Calcium	317.93	1.0	622	29500		1	ICPST	7/28/00	19:04
Chromium	267.72	0.25	0.62	2.2		1	ICPST	7/28/00	19:04
Cobalt	228.62	0.27	6.2	0.37	B	1	ICPST	7/28/00	19:04
Copper	324.75	0.24	3.1	0.57	B	1	ICPST	7/28/00	19:04
Iron	271.44	3.4	12.4	1060		1	ICPST	7/28/00	19:04
Lead	220.35	0.16	0.37	1.1		1	ICPST	7/28/00	19:04
Magnesium	279.08	1.7	622	284	B	1	ICPST	7/31/00	17:31
Manganese	257.61	0.050	1.9	12.1		1	ICPST	7/28/00	19:04
Mercury	253.7	0.021	0.12	0.021	U	1	CVAA	7/27/00	16:25
Nickel	231.60	0.24	5.0	0.89	B*	1	ICPST	7/28/00	19:04
Potassium	766.49	6.5	622	60.7	B	1	ICPST	7/28/00	19:04
Selenium	196.03	0.54	0.62	0.54	U	1	ICPST	7/28/00	19:04
Silver	328.07	0.39	0.62	0.39	U	1	ICPST	7/28/00	19:04
Sodium	330.23	54.6	622	257	B	1	ICPST	7/28/00	19:04
Thallium	190.86	0.66	1.2	0.66	U	1	ICPST	7/28/00	19:04
Tin	189.99	0.35	12.4	1.6	B	1	ICPST	7/28/00	19:04
Vanadium	292.40	0.17	6.2	2.0	B	1	ICPST	7/28/00	19:04
Zinc	213.86	0.075	2.5	5.0	NL*	1	ICPST	7/28/00	19:04

Comments: Lot #: A0G130119 Sample #: 2

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG4LE Client ID: MPT-G4-SU-52-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 16.77

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.3	24.0	565	N	1	ICPST	7/28/00	19:22
Antimony	206.84	0.52	1.2	0.52	U	1	ICPST	7/28/00	19:22
Arsenic	189.04	0.43	1.2	1.6		1	ICPST	7/28/00	19:22
Barium	493.41	0.048	24.0	6.9	B	1	ICPST	7/28/00	19:22
Beryllium	313.04	0.024	0.60	0.10	B	1	ICPST	7/28/00	19:22
Cadmium	226.50	0.048	0.24	0.048	U	1	ICPST	7/28/00	19:22
Calcium	317.93	2.0	1200	84600		2	ICPST	7/31/00	17:49
Chromium	267.72	0.24	0.60	2.8		1	ICPST	7/28/00	19:22
Cobalt	228.62	0.26	6.0	0.26	U	1	ICPST	7/28/00	19:22
Copper	324.75	0.23	3.0	0.28	B	1	ICPST	7/28/00	19:22
Iron	271.44	3.3	12.0	1080		1	ICPST	7/28/00	19:22
Lead	220.35	0.16	0.36	0.80		1	ICPST	7/28/00	19:22
Magnesium	279.08	1.6	601	405	B	1	ICPST	7/31/00	18:16
Manganese	257.61	0.048	1.8	20.4		1	ICPST	7/28/00	19:22
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/27/00	16:21
Nickel	231.60	0.23	4.8	0.65	B*	1	ICPST	7/28/00	19:22
Potassium	766.49	6.3	601	61.0	B	1	ICPST	7/28/00	19:22
Selenium	196.03	0.52	0.60	0.52	U	1	ICPST	7/28/00	19:22
Silver	328.07	0.37	0.60	0.37	U	1	ICPST	7/28/00	19:22
Sodium	330.23	52.8	601	782		1	ICPST	7/28/00	19:22
Thallium	190.86	0.64	1.2	0.64	U	1	ICPST	7/28/00	19:22
Tin	189.99	0.34	12.0	1.8	B	1	ICPST	7/28/00	19:22
Vanadium	292.40	0.17	6.0	2.2	B	1	ICPST	7/28/00	19:22
Zinc	213.86	0.072	2.4	6.8	NL*	1	ICPST	7/28/00	19:22

Comments: Lot #: A0G130119 Sample #: 3

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG4LH Client ID: MPT-G4-SU-53-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 16.13

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.2	23.9	432	N	1	ICPST	7/28/00	19:27
Antimony	206.84	0.51	1.2	0.51	U	1	ICPST	7/28/00	19:27
Arsenic	189.04	0.43	1.2	0.74	B	1	ICPST	7/28/00	19:27
Barium	493.41	0.048	23.9	3.6	B	1	ICPST	7/28/00	19:27
Beryllium	313.04	0.024	0.60	0.091	B	1	ICPST	7/28/00	19:27
Cadmium	226.50	0.048	0.24	0.048	U	1	ICPST	7/28/00	19:27
Calcium	317.93	0.98	596	64500		1	ICPST	7/28/00	19:27
Chromium	267.72	0.24	0.60	2.7		1	ICPST	7/28/00	19:27
Cobalt	228.62	0.26	6.0	0.33	B	1	ICPST	7/28/00	19:27
Copper	324.75	0.23	3.0	0.23	U	1	ICPST	7/28/00	19:27
Iron	271.44	3.3	11.9	900		1	ICPST	7/28/00	19:27
Lead	220.35	0.16	0.36	0.75		1	ICPST	7/28/00	19:27
Magnesium	279.08	1.6	596	446	B	1	ICPST	7/31/00	17:53
Manganese	257.61	0.048	1.8	26.9		1	ICPST	7/28/00	19:27
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/27/00	16:22
Nickel	231.60	0.23	4.8	0.73	B*	1	ICPST	7/28/00	19:27
Potassium	766.49	6.3	596	68.9	B	1	ICPST	7/28/00	19:27
Selenium	196.03	0.51	0.60	0.51	U	1	ICPST	7/28/00	19:27
Silver	328.07	0.37	0.60	0.37	U	1	ICPST	7/28/00	19:27
Sodium	330.23	52.3	596	584	B	1	ICPST	7/28/00	19:27
Thallium	190.86	0.63	1.2	0.63	U	1	ICPST	7/28/00	19:27
Tin	189.99	0.33	11.9	1.4	B	1	ICPST	7/28/00	19:27
Vanadium	292.40	0.17	6.0	1.8	B	1	ICPST	7/28/00	19:27
Zinc	213.86	0.072	2.4	3.5	NL*	1	ICPST	7/28/00	19:27

Comments: Lot #: A0G130119 Sample #: 4

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG4LK Client ID: MPT-G4-SU-54-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 8.4

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.1	21.8	572	N	1	ICPST	7/31/00	17:58
Antimony	206.84	0.47	1.1	0.47	U	1	ICPST	7/31/00	17:58
Arsenic	189.04	0.39	1.1	0.79	B	1	ICPST	7/31/00	17:58
Barium	493.41	0.044	21.8	6.0	B	1	ICPST	7/31/00	17:58
Beryllium	313.04	0.022	0.55	0.082	B	1	ICPST	7/31/00	17:58
Cadmium	226.50	0.044	0.22	0.072	B	1	ICPST	7/31/00	17:58
Calcium	317.93	1.8	1090	100000		2	ICPST	7/31/00	18:03
Chromium	267.72	0.22	0.55	2.2		1	ICPST	7/31/00	17:58
Cobalt	228.62	0.24	5.5	0.24	U	1	ICPST	7/31/00	17:58
Copper	324.75	0.21	2.7	0.21	U	1	ICPST	7/31/00	17:58
Iron	271.44	3.0	10.9	645		1	ICPST	7/31/00	17:58
Lead	220.35	0.14	0.33	1.1		1	ICPST	7/31/00	17:58
Magnesium	279.08	1.5	546	293	B	1	ICPST	7/31/00	17:58
Manganese	257.61	0.044	1.6	16.0		1	ICPST	7/31/00	17:58
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	7/27/00	16:23
Nickel	231.60	0.21	4.4	0.48	B*	1	ICPST	7/31/00	17:58
Potassium	766.49	5.7	546	51.0	B	1	ICPST	7/31/00	17:58
Selenium	196.03	0.47	0.55	0.47	U	1	ICPST	7/31/00	17:58
Silver	328.07	0.34	0.55	0.34	U	1	ICPST	7/31/00	17:58
Sodium	330.23	47.9	546	900		1	ICPST	7/31/00	17:58
Thallium	190.86	0.58	1.1	0.58	U	1	ICPST	7/31/00	17:58
Tin	189.99	0.31	10.9	1.2	B	1	ICPST	7/31/00	17:58
Vanadium	292.40	0.15	5.5	2.4	B	1	ICPST	7/31/00	17:58
Zinc	213.86	0.066	2.2	3.9	NL*	1	ICPST	7/31/00	17:58

Comments: Lot #: A0G130119 Sample #: 5

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DG4LN Client ID: MPT-G4-SU-55-05
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 17.65

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.3	24.3	1240	N	1	ICPST	7/28/00	19:37
Antimony	206.84	0.52	1.2	0.52	U	1	ICPST	7/28/00	19:37
Arsenic	189.04	0.44	1.2	1.1	B	1	ICPST	7/28/00	19:37
Barium	493.41	0.049	24.3	7.3	B	1	ICPST	7/28/00	19:37
Beryllium	313.04	0.024	0.61	0.078	B	1	ICPST	7/28/00	19:37
Cadmium	226.50	0.049	0.24	0.049	U	1	ICPST	7/28/00	19:37
Calcium	317.93	1.0	607	64300		1	ICPST	7/28/00	19:37
Chromium	267.72	0.24	0.61	3.4		1	ICPST	7/28/00	19:37
Cobalt	228.62	0.27	6.1	0.39	B	1	ICPST	7/28/00	19:37
Copper	324.75	0.23	3.0	1.1	B	1	ICPST	7/28/00	19:37
Iron	271.44	3.3	12.1	1680		1	ICPST	7/28/00	19:37
Lead	220.35	0.16	0.36	2.3		1	ICPST	7/28/00	19:37
Magnesium	279.08	1.6	607	429	B	1	ICPST	7/31/00	18:08
Manganese	257.61	0.049	1.8	27.2		1	ICPST	7/28/00	19:37
Mercury	253.7	0.020	0.12	0.020	U	1	CVAA	7/27/00	16:24
Nickel	231.60	0.23	4.9	1.1	B*	1	ICPST	7/28/00	19:37
Potassium	766.49	6.4	607	112	B	1	ICPST	7/28/00	19:37
Selenium	196.03	0.52	0.61	0.52	U	1	ICPST	7/28/00	19:37
Silver	328.07	0.38	0.61	0.38	U	1	ICPST	7/28/00	19:37
Sodium	330.23	53.3	607	573	B	1	ICPST	7/28/00	19:37
Thallium	190.86	0.64	1.2	0.64	U	1	ICPST	7/28/00	19:37
Tin	189.99	0.34	12.1	1.6	B	1	ICPST	7/28/00	19:37
Vanadium	292.40	0.17	6.1	3.6	B	1	ICPST	7/28/00	19:37
Zinc	213.86	0.073	2.4	6.4	NL*	1	ICPST	7/28/00	19:37

Comments: Lot #: A0G130119 Sample #: 6

APPENDIX C
SUPPORT DOCUMENTATION

MP018

HOLDING TIME
08/18/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-36-05	A0G080139004	NORMAL	MP018	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-38-05	A0G080139001	NORMAL	MP018	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-39-05	A0G080139002	NORMAL	MP018	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-40-05	A0G080139003	NORMAL	MP018	CN	07/07/00	07/19/00	07/21/00	12	2	14
MG/KG	MPT-G4-SU-41-06	A0G110127001	NORMAL	MP018	CN	07/10/00	07/20/00	07/21/00	10	1	11
MG/KG	MPT-G4-SU-42-04	A0G110127002	NORMAL	MP018	CN	07/10/00	07/20/00	07/21/00	10	1	11
MG/KG	MPT-G4-SU-43-04	A0G110127003	NORMAL	MP018	CN	07/10/00	07/20/00	07/21/00	10	1	11
MG/KG	MPT-G4-SU-44-04	A0G110127004	NORMAL	MP018	CN	07/10/00	07/20/00	07/21/00	10	1	11
MG/KG	MPT-G4-SU-45-04	A0G120141001	NORMAL	MP018	CN	07/11/00	07/20/00	07/21/00	9	1	10
MG/KG	MPT-G4-SU-46-03	A0G120141002	NORMAL	MP018	CN	07/11/00	07/20/00	07/21/00	9	1	10
MG/KG	MPT-G4-SU-47-02	A0G120141003	NORMAL	MP018	CN	07/11/00	07/20/00	07/21/00	9	1	10
MG/KG	MPT-G4-SU-48-04	A0G120141004	NORMAL	MP018	CN	07/11/00	07/20/00	07/21/00	9	1	10
MG/KG	MPT-G4-SU-49-03	A0G120141005	NORMAL	MP018	CN	07/11/00	07/20/00	07/21/00	9	1	10
MG/KG	MPT-G4-SU-50-05	A0G130119001	NORMAL	MP018	CN	07/12/00	07/26/00	07/26/00	14	0	14
MG/KG	MPT-G4-SU-51-05	A0G130119002	NORMAL	MP018	CN	07/12/00	07/26/00	07/26/00	14	0	14
MG/KG	MPT-G4-SU-52-05	A0G130119003	NORMAL	MP018	CN	07/12/00	07/26/00	07/26/00	14	0	14
MG/KG	MPT-G4-SU-53-05	A0G130119004	NORMAL	MP018	CN	07/12/00	07/26/00	07/26/00	14	0	14
MG/KG	MPT-G4-SU-54-05	A0G130119005	NORMAL	MP018	CN	07/12/00	07/26/00	07/26/00	14	0	14
MG/KG	MPT-G4-SU-55-05	A0G130119006	NORMAL	MP018	CN	07/12/00	07/26/00	07/26/00	14	0	14
MG/KG	MPT-G4-SU-36-05	A0G080139004	NORMAL	MP018	HG	07/07/00	07/26/00	07/27/00	19	1	20
MG/KG	MPT-G4-SU-38-05	A0G080139001	NORMAL	MP018	HG	07/07/00	07/26/00	07/27/00	19	1	20
MG/KG	MPT-G4-SU-39-05	A0G080139002	NORMAL	MP018	HG	07/07/00	07/26/00	07/27/00	19	1	20
MG/KG	MPT-G4-SU-40-05	A0G080139003	NORMAL	MP018	HG	07/07/00	07/26/00	07/27/00	19	1	20
MG/KG	MPT-G4-SU-41-06	A0G110127001	NORMAL	MP018	HG	07/10/00	07/26/00	07/27/00	16	1	17
MG/KG	MPT-G4-SU-42-04	A0G110127002	NORMAL	MP018	HG	07/10/00	07/26/00	07/27/00	16	1	17

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-43-04	A0G110127003	NORMAL	MP018	HG	07/10/00	07/26/00	07/27/00	16	1	17
MG/KG	MPT-G4-SU-44-04	A0G110127004	NORMAL	MP018	HG	07/10/00	07/26/00	07/27/00	16	1	17
MG/KG	MPT-G4-SU-45-04	A0G120141001	NORMAL	MP018	HG	07/11/00	07/26/00	07/27/00	15	1	16
MG/KG	MPT-G4-SU-46-03	A0G120141002	NORMAL	MP018	HG	07/11/00	07/26/00	07/27/00	15	1	16
MG/KG	MPT-G4-SU-47-02	A0G120141003	NORMAL	MP018	HG	07/11/00	07/26/00	07/27/00	15	1	16
MG/KG	MPT-G4-SU-48-04	A0G120141004	NORMAL	MP018	HG	07/11/00	07/26/00	07/27/00	15	1	16
MG/KG	MPT-G4-SU-49-03	A0G120141005	NORMAL	MP018	HG	07/11/00	07/26/00	07/27/00	15	1	16
MG/KG	MPT-G4-SU-50-05	A0G130119001	NORMAL	MP018	HG	07/12/00	07/26/00	07/27/00	14	1	15
MG/KG	MPT-G4-SU-51-05	A0G130119002	NORMAL	MP018	HG	07/12/00	07/26/00	07/27/00	14	1	15
MG/KG	MPT-G4-SU-52-05	A0G130119003	NORMAL	MP018	HG	07/12/00	07/26/00	07/27/00	14	1	15
MG/KG	MPT-G4-SU-53-05	A0G130119004	NORMAL	MP018	HG	07/12/00	07/26/00	07/27/00	14	1	15
MG/KG	MPT-G4-SU-54-05	A0G130119005	NORMAL	MP018	HG	07/12/00	07/26/00	07/27/00	14	1	15
MG/KG	MPT-G4-SU-55-05	A0G130119006	NORMAL	MP018	HG	07/12/00	07/26/00	07/27/00	14	1	15
MG/KG	MPT-G4-SU-36-05	A0G080139004	NORMAL	MP018	M	07/07/00	07/26/00	07/28/00	19	2	21
MG/KG	MPT-G4-SU-38-05	A0G080139001	NORMAL	MP018	M	07/07/00	07/26/00	07/28/00	19	2	21
MG/KG	MPT-G4-SU-39-05	A0G080139002	NORMAL	MP018	M	07/07/00	07/26/00	07/28/00	19	2	21
MG/KG	MPT-G4-SU-40-05	A0G080139003	NORMAL	MP018	M	07/07/00	07/26/00	07/28/00	19	2	21
MG/KG	MPT-G4-SU-41-06	A0G110127001	NORMAL	MP018	M	07/10/00	07/26/00	07/28/00	16	2	18
MG/KG	MPT-G4-SU-42-04	A0G110127002	NORMAL	MP018	M	07/10/00	07/26/00	07/28/00	16	2	18
MG/KG	MPT-G4-SU-43-04	A0G110127003	NORMAL	MP018	M	07/10/00	07/26/00	07/28/00	16	2	18
MG/KG	MPT-G4-SU-44-04	A0G110127004	NORMAL	MP018	M	07/10/00	07/26/00	07/28/00	16	2	18
MG/KG	MPT-G4-SU-45-04	A0G120141001	NORMAL	MP018	M	07/11/00	07/26/00	07/28/00	15	2	17
MG/KG	MPT-G4-SU-46-03	A0G120141002	NORMAL	MP018	M	07/11/00	07/26/00	07/31/00	15	5	20
MG/KG	MPT-G4-SU-47-02	A0G120141003	NORMAL	MP018	M	07/11/00	07/26/00	07/31/00	15	5	20
MG/KG	MPT-G4-SU-48-04	A0G120141004	NORMAL	MP018	M	07/11/00	07/26/00	07/28/00	15	2	17
MG/KG	MPT-G4-SU-49-03	A0G120141005	NORMAL	MP018	M	07/11/00	07/26/00	07/28/00	15	2	17
MG/KG	MPT-G4-SU-50-05	A0G130119001	NORMAL	MP018	M	07/12/00	07/26/00	07/28/00	14	2	16

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-51-05	A0G130119002	NORMAL	MP018	M	07/12/00	07/26/00	07/28/00	14	2	16
MG/KG	MPT-G4-SU-52-05	A0G130119003	NORMAL	MP018	M	07/12/00	07/26/00	07/28/00	14	2	16
MG/KG	MPT-G4-SU-53-05	A0G130119004	NORMAL	MP018	M	07/12/00	07/26/00	07/28/00	14	2	16
MG/KG	MPT-G4-SU-54-05	A0G130119005	NORMAL	MP018	M	07/12/00	07/26/00	07/31/00	14	5	19
MG/KG	MPT-G4-SU-55-05	A0G130119006	NORMAL	MP018	M	07/12/00	07/26/00	07/28/00	14	2	16
UG/KG	MPT-G4-SU-36-05	A0G080139004	NORMAL	MP018	OS	07/07/00	07/11/00	07/24/00	4	13	17
UG/KG	MPT-G4-SU-38-05	A0G080139001	NORMAL	MP018	OS	07/07/00	07/11/00	07/24/00	4	13	17
UG/KG	MPT-G4-SU-39-05	A0G080139002	NORMAL	MP018	OS	07/07/00	07/11/00	07/24/00	4	13	17
UG/KG	MPT-G4-SU-40-05	A0G080139003	NORMAL	MP018	OS	07/07/00	07/11/00	07/24/00	4	13	17
UG/KG	MPT-G4-SU-41-06	A0G110127001	NORMAL	MP018	OS	07/10/00	07/13/00	07/24/00	3	11	14
UG/KG	MPT-G4-SU-42-04	A0G110127002	NORMAL	MP018	OS	07/10/00	07/13/00	07/24/00	3	11	14
UG/KG	MPT-G4-SU-43-04	A0G110127003	NORMAL	MP018	OS	07/10/00	07/13/00	07/24/00	3	11	14
UG/KG	MPT-G4-SU-44-04	A0G110127004	NORMAL	MP018	OS	07/10/00	07/13/00	07/24/00	3	11	14
UG/KG	MPT-G4-SU-45-04	A0G120141001	NORMAL	MP018	OS	07/11/00	07/13/00	07/27/00	2	14	16
UG/KG	MPT-G4-SU-46-03	A0G120141002	NORMAL	MP018	OS	07/11/00	07/13/00	07/25/00	2	12	14
UG/KG	MPT-G4-SU-47-02	A0G120141003	NORMAL	MP018	OS	07/11/00	07/13/00	07/25/00	2	12	14
UG/KG	MPT-G4-SU-48-04	A0G120141004	NORMAL	MP018	OS	07/11/00	07/13/00	07/27/00	2	14	16
UG/KG	MPT-G4-SU-49-03	A0G120141005	NORMAL	MP018	OS	07/11/00	07/13/00	07/27/00	2	14	16
UG/KG	MPT-G4-SU-50-05	A0G130119001	NORMAL	MP018	OS	07/12/00	07/14/00	07/27/00	2	13	15
UG/KG	MPT-G4-SU-51-05	A0G130119002	NORMAL	MP018	OS	07/12/00	07/14/00	07/28/00	2	14	16
UG/KG	MPT-G4-SU-52-05	A0G130119003	NORMAL	MP018	OS	07/12/00	07/14/00	07/28/00	2	14	16
UG/KG	MPT-G4-SU-53-05	A0G130119004	NORMAL	MP018	OS	07/12/00	07/14/00	07/28/00	2	14	16
UG/KG	MPT-G4-SU-54-05	A0G130119005	NORMAL	MP018	OS	07/12/00	07/14/00	07/28/00	2	14	16
UG/KG	MPT-G4-SU-55-05	A0G130119006	NORMAL	MP018	OS	07/12/00	07/14/00	07/28/00	2	14	16
UG/KG	MPT-G4-SU-36-05	A0G080139004	NORMAL	MP018	OV	07/07/00	07/14/00	07/14/00	7	0	7
UG/KG	MPT-G4-SU-38-05	A0G080139001	NORMAL	MP018	OV	07/07/00	07/14/00	07/14/00	7	0	7
UG/KG	MPT-G4-SU-39-05	A0G080139002	NORMAL	MP018	OV	07/07/00	07/14/00	07/14/00	7	0	7

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-G4-SU-40-05	A0G080139003	NORMAL	MP018	OV	07/07/00	07/15/00	07/15/00	8	0	8
UG/KG	MPT-G4-SU-41-06	A0G110127001	NORMAL	MP018	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/KG	MPT-G4-SU-42-04	A0G110127002	NORMAL	MP018	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/KG	MPT-G4-SU-43-04	A0G110127003	NORMAL	MP018	OV	07/10/00	07/19/00	07/19/00	9	0	9
UG/KG	MPT-G4-SU-44-04	A0G110127004	NORMAL	MP018	OV	07/10/00	07/17/00	07/17/00	7	0	7
UG/KG	MPT-G4-SU-45-04	A0G120141001	NORMAL	MP018	OV	07/11/00	07/20/00	07/20/00	9	0	9
UG/KG	MPT-G4-SU-46-03	A0G120141002	NORMAL	MP018	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/KG	MPT-G4-SU-47-02	A0G120141003	NORMAL	MP018	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/KG	MPT-G4-SU-48-04	A0G120141004	NORMAL	MP018	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/KG	MPT-G4-SU-49-03	A0G120141005	NORMAL	MP018	OV	07/11/00	07/17/00	07/17/00	6	0	6
UG/KG	MPT-G4-SU-50-05	A0G130119001	NORMAL	MP018	OV	07/12/00	07/19/00	07/19/00	7	0	7
UG/KG	MPT-G4-SU-51-05	A0G130119002	NORMAL	MP018	OV	07/12/00	07/19/00	07/19/00	7	0	7
UG/KG	MPT-G4-SU-52-05	A0G130119003	NORMAL	MP018	OV	07/12/00	07/19/00	07/19/00	7	0	7
UG/KG	MPT-G4-SU-53-05	A0G130119004	NORMAL	MP018	OV	07/12/00	07/19/00	07/19/00	7	0	7
UG/KG	MPT-G4-SU-54-05	A0G130119005	NORMAL	MP018	OV	07/12/00	07/19/00	07/19/00	7	0	7
UG/KG	MPT-G4-SU-55-05	A0G130119006	NORMAL	MP018	OV	07/12/00	07/19/00	07/19/00	7	0	7

SDG NARRATIVE
MP018

The following report contains the analytical results for nineteen solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV site, project number N0123. The samples were received July 8, 11, 12 and 13, 2000, according to documented sample acceptance procedures.

This SDG consists of four (4) laboratory ID's: A0G080139, A0G110127, A0G120141 and A0G130119.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000 and August 8, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 2.1, 2.4, 2.4, 3.0, 1.2, 2.1 and 1.8° C.

(See STL's Cooler Receipt Form for additional information.)

ANALYTICAL METHODS SUMMARY

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0G080139

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DFWCA	001	MPT-G4-SU-38-05	07/07/00	12:50
DFWCD	002	MPT-G4-SU-39-05	07/07/00	13:30
DFWCE	003	MPT-G4-SU-40-05	07/07/00	14:40
DFWCF	004	MPT-G4-SU-36-05	07/07/00	10:15

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G110127

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DGOVA	001	MPT-G4-SU-41-06		07/10/00	10:25
DGOVF	002	MPT-G4-SU-42-04		07/10/00	13:45
DGOVH	003	MPT-G4-SU-43-04		07/10/00	14:57
DGOVK	004	MPT-G4-SU-44-04		07/10/00	16:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G120141

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DG2TN	001	MPT-G4-SU-45-04	07/11/00	08:10
DG2VL	002	MPT-G4-SU-46-03	07/11/00	09:55
DG2VM	003	MPT-G4-SU-47-02	07/11/00	13:00
DG2VN	004	MPT-G4-SU-48-04	07/11/00	14:30
DG2VQ	005	MPT-G4-SU-49-03	07/11/00	15:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0G130119

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DG4KV	001	MPT-G4-SU-50-05	07/12/00	08:10
DG4L8	002	MPT-G4-SU-51-05	07/12/00	09:17
DG4LE	003	MPT-G4-SU-52-05	07/12/00	10:20
DG4LH	004	MPT-G4-SU-53-05	07/12/00	12:45
DG4LK	005	MPT-G4-SU-54-05	07/12/00	14:15
DG4LN	006	MPT-G4-SU-55-05	07/12/00	15:10

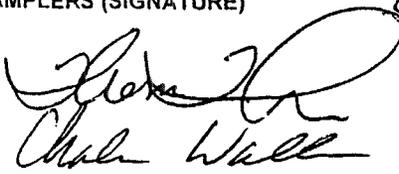
NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

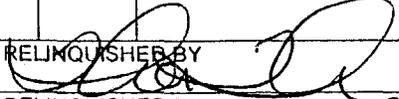
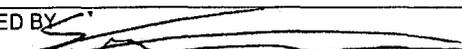


PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen				LABORATORY NAME AND CONTACT: Quanterra									
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson (904) 281-0400				ADDRESS 4101 Shuffel Dr NW											
SAMPLERS (SIGNATURE) 		CARRIER/WAYBILL NUMBER 7911 0738 9714 FedEx: 07911 0738 9600				CITY, STATE N. Canton, OH											
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED											
DATE YEAR 2009		TIME		MATRIX		GRAB (G) COMP (C)		No. OF CONTAINERS		TYPE OF ANALYSIS		COMMENTS					
		SAMPLE ID								TCL VOC							
										TCL SVOC							
										TAL Metals + Tin							
										Cyanide							
										HCl							
										HNO3							
										NaOH							
7-7		0750		MPT-G4-SU-34-05		S		G		5		X X X X		Cool to 4°C			
		0815		MPT-G4-GW-34-05		GW				7		X X X X					
		0910		MPT-G4-SU-35-05		S				5		X X X X					
		0940		MPT-G4-GW-35-05		GW				7		X X X X					
		1110		MPT-G4-SU-36-37-05		S				5		X X X X					
		1135		MPT-G4-GW-37-05		GW				7		X X X X					
		1250		MPT-G4-SU-38-05 ✓		S				5		X X X X					
				TBO70700-		W				2		X X					
		1325		MPT-G4-GW-38-04		GW				7		X X X X					
		1330		MPT-G4-SU-39-05 ✓		S				5		X X X X					
		1425		MPT-G4-GW-39-04		GW				7		X X X X					
		1446		MPT-G4-SU-40-05 ✓		S				5		X X X X					
		1525		MPT-G4-GW-40-04		GW				7		X X X X					
1. RELINQUISHED BY				DATE		7-7-00		TIME		1900		1. RECEIVED BY		DATE		TIME	
2. RELINQUISHED BY				DATE				TIME				2. RECEIVED BY		DATE		7/8/09	
3. RELINQUISHED BY				DATE				TIME				3. RECEIVED BY		DATE		1015	
COMMENTS 2 Coolers - ID#5: 000 070700-1 & 070700-2																	



PROJECT NO: No 123	SITE NAME: NS Mayport Exp IV	PROJECT MANAGER AND PHONE NUMBER: T. Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE): 		FIELD OPERATIONS LEADER AND PHONE NUMBER: T. Thompson	ADDRESS: 4101 Shuffel Dr NW
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER: Fed Ex 7908 5994 0010	CITY, STATE: N. Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS						COMMENTS
						TC-VOC	TC-SVOC	TAL Metals + Tin	Cyanide	HCl	HNO3		NaOH
7-10	1025	MPT-G4-SU-41-06 ✓	S	G	5	X	X	X	X			Cool to 4°C
	1150	MPT-G4-GW-41-06	GW		7	X	X	X	X			
	1345	MPT-G4-SU-42-04 ✓	S		5	X	X	X	X			
	1430	MPT-G4-GW-42-04	GW		7	X	X	X	X			
	1457	MPT-G4-SU-43-04 ✓	S		5	X	X	X	X			
	1527	MPT-G4-GW-43-04	GW		7	X	X	X	X			
	1600	MPT-G4-SU-44- ✓	S		5	X	X	X	X			
	1630	MPT-G4-GW-44-04	GW		7	X	X	X	X			
		TB07000	W		2	X						

1. RELINQUISHED BY: 	DATE 7-10-00	TIME 1900	1. RECEIVED BY:	DATE	TIME
2. RELINQUISHED BY:	DATE	TIME	2. RECEIVED BY: 	DATE 7/10/00	TIME 910
3. RELINQUISHED BY:	DATE	TIME	3. RECEIVED BY:	DATE	TIME

COMMENTS

PROJECT NO: N0123	SITE NAME: Magport Grp IV	PROJECT MANAGER AND PHONE NUMBER T. Hansen	LABORATORY NAME AND CONTACT QJantenna
SAMPLERS (SIGNATURE) 	FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400		ADDRESS 4101 Shuffel Dr NW
	CARRIERWAYBILL NUMBER 7911 1012 7614 FedEx 1923 5223 0232		CITY, STATE N. Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)						COMMENTS	
						PRESERVATIVE USED							
						TYPE OF ANALYSIS							
						TOL VOC	TOL SVOC	TAL Metals + Tin	Cyanide	HNO ₃	NaOH		
7-11	0810	MPT-G4-SU-45-04 ✓	S	G	5	X	X	X	X				Cool to 4°C
	0927	MPT-G4-GW-45-07	GW		7	X	X	X	X				
	0955	MPT-G4-SU-46-03 ✓	S		5	X	X	X	X				
	1100	MPT-G4-GW-46-07	GW		7	X	X	X	X				
	1300	MPT-G4-SU-47-02 ✓	S		5	X	X	X	X				
	1345	MPT-G4-GW-47-07	GW		7	X	X	X	X				
	1430	MPT-G4-SU-48-04 ✓	S		5	X	X	X	X				
	1520	MPT-G4-GW-48-07	GW		7	X	X	X	X				
	1545	MPT-G4-SU-49-03 ✓	S		5	X	X	X	X				
	1635	MPT-G4-GW-49-07	GW		7	X	X	X	X				
		TB071100	W		2	X							

RECEIVED BY 	DATE 7-11-00	TIME 1900	1. RECEIVED BY 	DATE 7-12-00	TIME 975/a
RECEIVED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
RECEIVED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

071100-1 & 071100-2



PROJECT NO: N0123	SITE NAME: US Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: T. Hansen	LABORATORY NAME AND CONTACT: Quanterra
SAMPLERS (SIGNATURE): <i>[Signatures]</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER: T. Thompson (904) 281-0400	ADDRESS: 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER: Fed Ex 7923 5273 0475	CITY, STATE: N. Canton, OH

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)					PRESERVATIVE USED	COMMENTS
						TCL VOC	TCL SVOC	TAL Metal+Tin	Cyanide	HCl			HNO3	NaOH
7-12	0810	MPT-G4-SU-50-05 ✓	Soil	G	5	X	X	X	X			Cool to 4°C
	0845	MPT-G4-GW-50-05	GW		7							
	0917	MPT-G4-SU-51-05 ✓	S		5							
	0950	MPT-G4-GW-51-05	GW		7							
	1020	MPT-G4-SU-52-05 ✓	S		5							
	1100	MPT-G4-GW-52-05	GW		7							
	1245	MPT-G4-SU-53-05 ✓	S		5							
	1320	MPT-G4-GW-53-05	GW		7							
	1445	MPT-G4-SU-54-05 ✓	S		5							
	1440	MPT-G4-GW-54-05	GW		7							
	1510	MPT-G4-SU-55-05 ✓	S		5							
	1545	MPT-G4-GW-55-05	GW		7		X	X	X			
			W		2	X						

1. RELINQUISHED BY: <i>[Signature]</i>	DATE 7-12-00	TIME 1900	1. RECEIVED BY: <i>[Signature]</i>	DATE 7/13/00	TIME 9:05
2. RELINQUISHED BY:	DATE	TIME	2. RECEIVED BY:	DATE	TIME
3. RELINQUISHED BY:	DATE	TIME	3. RECEIVED BY:	DATE	TIME

COMMENTS: 2 Cooler IDs: 071200-1 & 071200-2 21, 1.8°C

**SDG NARRATIVE
MP018**

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

The 0.025 and 0.075 standards for the Total Cyanide analysis for the following samples on batch 0202469 failed high. The LCS and prep blanks met acceptance criteria. Due to holding times, the samples were not re-digested and reanalyzed. The results for the samples were ND; therefore, the results were accepted.

MPT-G4-SU-41-06
MPT-G4-SU-44-04
MPT-G4-SU-47-02

MPT-G4-SU-42-04
MPT-G4-SU-45-04
MPT-G4-SU-48-04

MPT-G4-SU-43-04
MPT-G4-SU-46-03

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0G080139

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	0.50	mg/kg	SW846 9012A	07/19-07/21/00	0201487
		Dilution Factor: 1				
Percent Solids	ND	10.0	%	MCAWW 160.3 MOD	07/24-07/25/00	0206415
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G110127

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DGJKJ101 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	A0G200000-469 07/20-07/21/00	0202469
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGQWL101 10.0	‡	MB Lot-Sample #: MCAWW 160.3 MOD	A0G250000-368 07/25-07/26/00	0207368
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0G120141

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DGJKE101 0.50	mg/kg	MB Lot-Sample #: A0G200000-467 SW846 9012A	07/20-07/21/00	0202467
		Dilution Factor: 1				
Cyanide, Total	ND	Work Order #: DGJKJ101 0.50	mg/kg	MB Lot-Sample #: A0G200000-469 SW846 9012A	07/20-07/21/00	0202469
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGQWL101 10.0	%	MB Lot-Sample #: A0G250000-368 MCAWW 160.3 MOD	07/25-07/26/00	0207368
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DGX66101 10.0	%	MB Lot-Sample #: A0G270000-427 MCAWW 160.3 MOD	07/27-07/28/00	0209427
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0G130119

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	0.50	mg/kg	SW846 9012A	07/26/00	0208419
		Dilution Factor: 1				
Percent Solids	ND	10.0	%	MCAWW 160.3 MOD	07/27-07/28/00	0209461
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A0G110127

Matrix.....: SOLID

Date Sampled....: 07/11/00 08:10 Date Received...: 07/12/00

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>PREPARATION-</u>	<u>PREP</u>
	<u>RECOVERY LIMITS</u>	<u>RPD LIMITS</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Cyanide, Total		WO#: DG0K2125-MS/DG0K2126-MSD	MS Lot-Sample #:	A0G110101-020
	122	(12 - 147)	SW846 9012A	07/20-07/21/00 0202469
	74	(12 - 147) 45 (0-99)	SW846 9012A	07/20-07/21/00 0202469
		Dilution Factor: 1		
Cyanide, Total		WO#: DG2TN106-MS/DG2TN107-MSD	MS Lot-Sample #:	A0G120141-001
	90	(12 - 147)	SW846 9012A	07/20-07/21/00 0202469
	109	(12 - 147) 19 (0-99)	SW846 9012A	07/20-07/21/00 0202469
		Dilution Factor: 1		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: AOG120141

Matrix.....: SOLID

Date Sampled....: 07/09/00 08:20 Date Received...: 07/10/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#:	DG0K0125-MS/DG0K0126-MSD	MS	Lot-Sample #:	AOG110101-018
	476 N	(12 - 147)			SW846 9012A	07/20-07/21/00	0202467
	69 *	(12 - 147)	149	(0-99)	SW846 9012A	07/20-07/21/00	0202467
			Dilution Factor: 1				

Cyanide, Total			WO#:	DG0K2125-MS/DG0K2126-MSD	MS	Lot-Sample #:	AOG110101-020
	122	(12 - 147)			SW846 9012A	07/20-07/21/00	0202469
	74	(12 - 147)	45	(0-99)	SW846 9012A	07/20-07/21/00	0202469
			Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

Batches: 0201487
0201491

STL NORTH CANTON 0201521

TRAACS ANALYTICAL REPORT

Name of Run	: 000721A	Name of Analysis	: CYANIDE2.ANL
Date of Report	: 7/21/00	System No.	: 2
Date of Run	: 7/21/00	Type of System	: TRAACS
Operator	: DNM/ML	Start/Stop time	: 09:14 - 10:50
Comment	:		

Channel Type	:	Real		Data		Data	
Channel	:	1		1		2	
Method	:	CYANIDE		Weight		Dilution	
Unit	:	mg/L		mg/kg			
Calibr. Fit	:	Linear					
Corr. Coeff.	:	0.9999 ✓					
Base	:	58					
Gain	:	160					
Sensitivity	:	0.0404					
Sample Limit 1	:						
Sample Limit 2	:						

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0012	0.0000	0.0000
1	1	P Primer	0.0996	1.0000	1.0000
2	2	C 0.1000	0.1000	1.0000	1.0000
3	3	C 0.0500	0.0503	1.0000	1.0000
4	4	C 0.0250	0.0242	1.0000	1.0000
5	5	C 0.0100	0.0103	1.0000	1.0000
6	6	C 0.0050	0.0053	1.0000	1.0000
7	2	H1 High	0.1005	1.0000	1.0000
8	0	L1 Low	-0.0002	1.0000	1.0000
9	0	L1 Low	-0.0002	1.0000	1.0000
10	0	B Baseline	-0.0012	1.0000	1.0000
11	4	D Drift	0.0233	1.0000	1.0000
12	8	N Null	-0.0003N	1.0000	1.0000
13	7	QC1 ICV/LCS ✓	0.0390/0.04	1.0000	1.0000 = 98%
14	8	QC2 ICB	-0.0000	1.0000	1.0000
15	9	QC3 PREP BLANK	0.0003 ✓	1.0000	1.0000
16	10	QC4 DFWAG	0.0016x50	1.0000	1.0000 0.08
17	11	S DFWAK	0.0021	1.0000	1.0000 0.105
18	12	S DFWAL	0.0001	1.0000	1.0000 0.005
19	13	S DFWCA	0.0014	1.0000	1.0000 0.07
20	14	S DFWCD	0.0000	1.0000	1.0000 ND
21	15	S DFWCE	0.0007	1.0000	1.0000 0.035
22	16	S DFWCF	0.0024	1.0000	1.0000 0.12
23	17	S DFXCG	0.0104	1.0000	1.0000 0.52
24	18	S DFXXQ	0.0009	1.0000	1.0000 0.015

25	3	QC1	CCV ✓	0.0505/0.05	1.0000	1.0000 = 100%
26	8	QC2	CCB	0.0009 ✓	1.0000	1.0000
27	19	S	DFXXV	0.0005 x50	1.0000	1.0000 0.025
28	20	S	DFXXW	0.0017	1.0000	1.0000 0.085
29	21	S	DFXXX	-0.0004	1.0000	1.0000 ND
30	22	S	DG002	0.0739	1.0000	1.0000 3.695
31	23	S	DG004	0.0046	1.0000	1.0000 0.23
32	24	S	DG005	0.0036	1.0000	1.0000 0.18
33	25	S	DG006	0.0060	1.0000	1.0000 0.30
34	26	S	DG007	0.0014	1.0000	1.0000 0.07
35	27	S	DG008	0.0020	1.0000	1.0000 0.10
36	28	S	DG008 MS	0.0437	1.0000	1.0000 2.185
37	3	QC1	CCV ✓	0.0506/0.05	1.0000	1.0000 101%
38	8	QC2	CCB	0.0008	1.0000	1.0000 100%
39	29	S	DG008 MSD	0.0383 x50	1.0000	1.0000 1.915
40	30	S	DG00C	0.0102	1.0000	1.0000 0.51
41	31	S	DG00E	0.0232	1.0000	1.0000 1.16
42	3	QC1	CCV ✓	0.0507/0.05	1.0000	1.0000 100%
43	8	QC2	CCB	0.0003 ✓	1.0000	1.0000
44	32	S	ICV/LCS ✓	0.0369/0.04	1.0000	1.0000 92% x50 = 1.85
45	8	QC2	ICB	0.0008 ✓	1.0000	1.0000
46	33	S	PREP BLK	0.0036 ✓	1.0000	1.0000 x50 = 1.8
47	34	S	DFXR2	0.0015 x50	1.0000	1.0000 0.075
48	35	S	DFXR4	0.0018	1.0000	1.0000 0.9 0.09 1.50 = 1.500
49	36	S	DFXR5	0.0037	1.0000	1.0000 0.185
50	37	S	DFXR6	0.0036	1.0000	1.0000 0.18
51	38	S	DFXR7	0.0017	1.0000	1.0000 0.085
52	39	S	DFXRQ	0.0013	1.0000	1.0000 0.065
53	40	S	DFXT1	0.0011	1.0000	1.0000 0.055
54	3	QC1	CCV ✓	0.0501/0.05	1.0000	1.0000 = 100%
55	8	QC2	CCB	-0.0007	1.0000	1.0000
56	41	S	DFXT1 MS	0.0408 x50	1.0000	1.0000 2.04
57	42	S	DFXT1 MSD	0.0435	1.0000	1.0000 2.175
58	43	S	DG00F	0.0014	1.0000	1.0000 0.07
59	44	S	DG00G	0.0014	1.0000	1.0000 0.07
60	45	S	DG00M	0.0000	1.0000	1.0000 ND
61	46	S	DG00R	0.0004	1.0000	1.0000 0.02
62	47	S	DG00V	0.0015	1.0000	1.0000 0.075
63	48	S	DG00X	0.0034	1.0000	1.0000 0.17
64	49	S	DG0J9	-0.0002	1.0000	1.0000 ND
65	50	S	DG0JA	0.0013	1.0000	1.0000 0.065
66	3	QC1	CCV ✓	0.0503/0.05	1.0000	1.0000 101%
67	8	QC2	CCB	0.0005	1.0000	1.0000
68	51	S	DG0JC	0.0025 x50	1.0000	1.0000 0.125
69	52	S	DG0JD	0.0002	1.0000	1.0000 0.01
70	53	S	DG0JE	-0.0000	1.0000	1.0000 ND
71	54	S	DG0JF	0.0008	1.0000	1.0000 0.04
72	3	QC1	CCV ✓	0.0493/0.05	1.0000	1.0000 99%
73	8	QC2	CCB	0.0001	1.0000	1.0000
74	55	QC6	ICV/LCS ✓	0.0388/0.04	1.0000	1.0000 97%
75	8	QC2	ICB	-0.0009	1.0000	1.0000
76	56	S	PREP BLK	-0.0002	1.0000	1.0000

} rerun for CCV failure

77	57	S	DFWD1	0.0001	1.0000	1.0000
78	58	S	DFWD4	0.0006	1.0000	1.0000
79	59	S	DFWD5	0.0003	1.0000	1.0000
80	60	S	DFWD8	0.0005	1.0000	1.0000
81	61	S	DFWD9	0.0000	1.0000	1.0000
82	62	S	DFWDA	-0.0004	1.0000	1.0000
83	63	S	DFWDC	0.0008	1.0000	1.0000
84	64	S	DFWH5	18.9054*	1.0000	100.0000
85	65	S	DFWHF	18.6722*	1.0000	100.0000
86	3	QC1	CCV	0.0677	1.0000	1.0000
87	8	QC2	CCB	0.0044	1.0000	1.0000
88	66	S	DFWHM	0.1748	1.0000	100.0000
89	67	S	DFWHR	0.0141	1.0000	100.0000
90	68	S	DFXRJ	-0.0739	1.0000	100.0000
91	69	S	DFXKD	-0.0761	1.0000	100.0000
92	70	S	DG00H	-0.0828	1.0000	100.0000
93	71	S	DG0JG	-0.0921	1.0000	100.0000
94	72	S	DG0JH	-0.0603	1.0000	100.0000
95	73	S	DG0JJ	-0.1224	1.0000	100.0000
96	74	S	DG0JK	-0.1088	1.0000	100.0000
97	75	S	DG0JL	-0.1561	1.0000	100.0000
98	3	QC1	CCV	0.0500/0.05	1.0000	1.0000
99	8	QC2	CCB	-0.0008	1.0000	1.0000
100	76	S	DG0TK	-0.1113	1.0000	100.0000
101	77	S	DG0TK MS	-0.0251	1.0000	100.0000
102	78	S	DG0TK MSD	-0.0615	1.0000	100.0000
103	79	S	DFT7F	83.7430	1.0000	1000.0000
104	80	S	DG9V9	0.1229	1.0000	2.0000
105	81	S	DG7P1	0.1002	1.0000	10.0000
106	3	QC1	CCV	0.0499/0.05	1.0000	1.0000
107	8	QC2	CCB	-0.0004	1.0000	1.0000
108	4	D	Drift	0.0233	1.0000	1.0000
109	0	B	FinalBase	-0.0012	1.0000	1.0000

rerun for CCV failure

rerun @ 100% del
13570

rerun for CCV failure

100%

rerun @ 1K del.

rerun @ 2K del

QC Limits

Channel	:	1
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		1.2

-
- * ... Sample offscale
 - + ... Result higher than sample limit
 - ... Result lower than sample limit
 - P ... Standard passed
 - F ... Standard failed
 - N ... Value not calculated or not used
 - R ... Resample after offscale
 - M ... Peak marker moved manually
 - D ... Diluted sample

** <END OF REPORT> **

rerun batch:
0201521

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run	: 000721B	Name of Analysis	: CYANIDE2.ANL
Date of Report	: 7/21/00	System No.	: 2
Date of Run	: 7/21/00	Type of System	: TRAACS
Operator	: DNM	Start/Stop time	: 11:33 - 12:21
Comment	:		

Channel Type	:	Real	Data	Data
Channel	:	1	1	2
Method	:	CYANIDE	Weight	Dilution
Unit	:	mg/L	mg/kg	
Calibr. Fit	:	Linear		
Corr. Coeff.	:	0.9999 ✓		
Base	:	58		
Gain	:	160		
Sensitivity	:	0.0404		
Sample Limit 1	:			
Sample Limit 2	:			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0011	0.0000	0.0000
1	1	P Primer	0.0985	1.0000	1.0000
2	2	C 0.1000	0.0999	1.0000	1.0000
3	3	C 0.0500	0.0506	1.0000	1.0000
4	4	C 0.0250	0.0242	1.0000	1.0000
5	5	C 0.0100	0.0099	1.0000	1.0000
6	6	C 0.0050	0.0055	1.0000	1.0000
7	2	H1 High	0.0993	1.0000	1.0000
8	0	L1 Low	-0.0005	1.0000	1.0000
9	0	L1 Low	-0.0005	1.0000	1.0000
10	0	B Baseline	-0.0011	1.0000	1.0000
11	4	D Drift	0.0239	1.0000	1.0000
12	8	N Null	0.0000N	1.0000	1.0000
13	7	QC1 ICV/LCS	0.0403/0.04	1.0000	1.0000 = 101% ✓
14	8	QC2 ICB	0.0008	1.0000	1.0000
15	9	QC3 PREP BLANK	0.0012 ✓	1.0000	1.0000
16	10	S DFWD1	0.0022	1.0000	1.0000
17	11	S DFWD4	0.0018	1.0000	1.0000
18	12	S DFWD5	0.0023	1.0000	1.0000
19	13	S DFWD8	0.0029	1.0000	1.0000
20	14	S DFWD9	0.0022	1.0000	1.0000
21	15	S DFWDA	0.0005	1.0000	1.0000
22	16	S DFWDC	0.0028	1.0000	1.0000
23	17	S DFWH5	75.5124	1.0000	1000.0000
24	18	S DFWHF	172.1482	1.0000	1000.0000

25	3	QC1	CCV	0.0523/0.05	1.0000	1.0000 = 105% ✓
26	8	QC2	CCB	0.0013 ✓	1.0000	1.0000
27	19	S	DFWHM	0.0063	1.0000	2.0000 - rerun @ 1x
28	20	S	DFWHR	0.0209	1.0000	1.0000
29	21	S	DFXRJ	0.0002	1.0000	1.0000
30	22	S	DFXXD	0.0026	1.0000	1.0000
31	23	S	DG00H	0.0004	1.0000	1.0000
32	24	S	DG0JG	0.0024	1.0000	1.0000
33	25	S	DG0JH	0.0037	1.0000	1.0000
34	26	S	DG0JJ	0.0025	1.0000	1.0000
35	27	S	DG0JK	0.0006	1.0000	1.0000
36	28	S	DG0JL	0.0002	1.0000	1.0000
37	3	QC1	CCV	0.0508/0.05	1.0000	1.0000 = 102% ✓
38	8	QC2	CCB	0.0007	1.0000	1.0000
39	29	S	DG0TK	0.0004	1.0000	1.0000
40	30	S	DG0TK MS	0.0429	1.0000	1.0000
41	31	S	DG0TK MSD	0.0438	1.0000	1.0000
42	32	S	DFT7F	73.0676	1.0000	1000.0000
43	33	S	DG9V9	0.1288	1.0000	2.0000
44	34	S	DG7P1	0.1075	1.0000	2.0000
45	3	QC1	CCV	0.0525/0.05	1.0000	1.0000 105% ✓
46	8	QC2	CCB	-0.0002	1.0000	1.0000
47	4	D	Drift	0.0239	1.0000	1.0000
48	0	B	FinalBase	-0.0011	1.0000	1.0000

QC Limits

Channel	:	1
QC 1	:	Unused
QC 2	:	Unused
QC 3	:	Unused
QC 4	:	Unused
QC 5	:	Unused
QC 6	:	Unused
QC 7	:	Unused
QC 8	:	Unused
QC 9	:	Unused
QC10	:	Unused

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
θ:	:	0.3

Re-run of DFWHM for confirmation

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000725B
 Date of Report : 7/25/00
 Date of Run : 7/25/00
 Operator : MEL
 Comment :

Name of Analysis : CYANIDE2.ANL
 System No. : 2
 Type of System : TRAACS
 Start/Stop time : 15:52 - 16:29

Channel Type : Real Data Data
 Channel : 1 1 2
 Method : CYANIDE Weight Dilution
 Unit : µg/L mg/kg
 Calibr. Fit : Linear
 Corr. Coeff. : 0.9997
 Base : 51
 Gain : 169
 Sensitivity : 0.0325
 Sample Limit 1 :
 Sample Limit 2 :

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-1.8545	0.0000	0.0000
1	1	P Primer	99.4991	1.0000	1.0000
2	2	C 100.000	99.6162	1.0000	1.0000
3	3	C 50.000	51.2280	1.0000	1.0000
4	4	C 25.000	23.7913	1.0000	1.0000
5	5	C 10.000	10.4156	1.0000	1.0000
6	6	C 5.000	4.9488	1.0000	1.0000
7	2	H1 High	98.4811	1.0000	1.0000
8	0	L1 Low	0.0788	1.0000	1.0000
9	0	L1 Low	0.1118	1.0000	1.0000
10	0	B Baseline	-1.8545	1.0000	1.0000
11	4	D Drift	22.0192	1.0000	1.0000
12	8	N Null	-0.4082N	1.0000	1.0000
13	7	QC1 ICV/LCS	38.7931/40	1.0000	1.0000 97% ✓
14	8	QC2 ICB	0.6317	1.0000	1.0000
15	9	S PBW	5.8459 ✓	1.0000	1.0000
16	10	S PBS	-0.2690 ✓	1.0000	1.0000 ND
17	11	S LCS-S	45.5817/34.2	1.0000	1.0000 133% ✓
18	12	S DG5G4	5.3479	1.0000	1.0000
19	13	S DG5G4 DUP	2.0378.50	1.0000	1.0000 101.87
20	14	S DG5G4 SPIKE	104.8487.50	1.0000	1.0000 5242.435
21	15	S DG5G4 SPIKE 2X	50.4114.100	1.0000	1.0000 490.8228 5041.14
22	16	S DG5GK	9.3244	1.0000	1.0000
23	17	S DG5GM	3.0447	1.0000	1.0000
24	18	S *DFWHM (CONFIRMATION)	5.0293	1.0000	1.0000

* Non-CLP, Run for confirmation

25	19	QC1	CCV	47.8849/50	1.0000	1.0000	96% ✓
26	20	QC2	CCB	2.7701	1.0000	1.0000	
27	0	B	Baseline	-1.8545	1.0000	1.0000	
28	4	D	Drift	22.0192	1.0000	1.0000	
29	0	B	FinalBase	-1.8545	1.0000	1.0000	

QC Limits

Channel	:	1
QC 1	:	Unused
QC 2	:	Unused
QC 3	:	Unused
QC 4	:	Unused
QC 5	:	Unused
QC 6	:	Unused
QC 7	:	Unused
QC 8	:	Unused
QC 9	:	Unused
QC10	:	Unused

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
§:	:	1.9

- * ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

** <END OF REPORT> **

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000721C
 Date of Report : 7/21/00
 Date of Run : 7/21/00
 Operator : DNM
 Comment :

Name of Analysis : CYANIDE2.ANL
 System No. : 2
 Type of System : TRAACS
 Start/Stop time : 13:35 - 14:55

Channel Type :	Real	Data	Data
Channel :	1	1	2
Method :	CYANIDE	Weight	Dilution
Unit :	mg/L	mg/kg	
Calibr. Fit :	Linear		
Corr. Coeff. :	0.9999 ✓		
Base :	58		
Gain :	160		
Sensitivity :	0.0389		
Sample Limit 1 :			
Sample Limit 2 :			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0026	0.0000	0.0000
1	1	P Primer	0.0956	1.0000	1.0000
2	2	C 0.1000	0.0996	1.0000	1.0000
3	3	C 0.0500	0.0510	1.0000	1.0000
4	4	C 0.0250	0.0245	1.0000	1.0000
5	5	C 0.0100	0.0098	1.0000	1.0000
6	6	C 0.0050	0.0051	1.0000	1.0000
7	2	H1 High	0.0974	1.0000	1.0000
8	0	L1 Low	0.0019	1.0000	1.0000
9	0	L1 Low	0.0025	1.0000	1.0000
10	0	B Baseline	-0.0026	1.0000	1.0000
11	4	D Drift	0.0217	1.0000	1.0000
12	8	N Null	-0.0019N	1.0000	1.0000
13	7	QC1 ICV/LCS batch 0202167	0.0385/004	1.0000	1.0000 = 96% ✓
14	8	QC2 ICB	-0.0013	1.0000	1.0000
15	9	QC3 PREP BLANK	-0.0002	1.0000	1.0000
16	10	S DFX87	-0.0000	1.0000	1.0000 ND
17	11	S DFX8C	0.0079	1.0000	1.0000 0.395
18	12	S DFX8D	0.0007	1.0000	1.0000 0.035
19	13	S DFXT4	-0.0001	1.0000	1.0000 ND
20	14	S DFXT8	0.0003	1.0000	1.0000 0.015
21	15	S DFXTA	0.1829	1.0000	1.0000 - rerun @ 2x dil
22	16	S DFXTF	0.0066	1.0000	1.0000 0.33
23	17	S DFXTK	0.0031	1.0000	1.0000 0.155
24	18	S DFXTM	0.0000	1.0000	1.0000 ND

25	3	QC1	CCV	0.0489/0.05	1.0000	1.0000 = 98% ✓
26	8	QC2	CCB	0.0003 ✓	1.0000	1.0000
27	19	S	DFXTP	-0.0010 x50=	1.0000	1.0000 = ND
28	20	S	DFXTV	-0.0012	1.0000	1.0000 = ND
29	21	S	DFXVA	-0.0000	1.0000	1.0000 ND
30	22	S	DG0JP	0.0015	1.0000	1.0000 0.075
31	23	S	DG0JQ	0.0005	1.0000	1.0000 0.025
32	24	S	DG0JR	-0.0005	1.0000	1.0000 ND
33	25	S	DG0JT	-0.0011	1.0000	1.0000 ND
34	26	S	DG0JV	-0.0002	1.0000	1.0000 ND
35	27	S	DG0K0	-0.0005	1.0000	1.0000 ND
36	28	S	DG0K0 MS	0.1713	1.0000	1.0000 - rerun @ 2x dil
37	3	QC1	CCV	0.0532/0.05	1.0000	1.0000 = 106% ✓
38	8	QC2	CCB	0.0014 ✓	1.0000	1.0000
39	29	S	DG0K0 MSD	0.0276 x50	1.0000	1.0000 1.38
40	30	S	DG2VM	-0.0001	1.0000	1.0000 ND
41	31	S	DG2VN	0.0024	1.0000	1.0000 0.12
42	3	QC1	CCV	0.0479/0.05	1.0000	1.0000 96%
43	8	QC2	CCB	-0.0005 ✓	1.0000	1.0000
44	32	S	ICV/LCS batch 0002469	0.0409/0.04	1.0000	1.0000 = 102% ✓
45	8	S	ICB	-0.0004 ✓	1.0000	1.0000
46	33	S	PREP BLK	0.0022 ✓	1.0000	1.0000
47	34	S	DG0JW	0.0044 x50=	1.0000	1.0000 0.22
48	35	S	DG0K1	0.0072	1.0000	1.0000 0.36
49	36	S	DG0K2	0.0027	1.0000	1.0000 0.135
50	37	S	DG0K2 MS	0.0515	1.0000	1.0000 2.575
51	38	S	DG0K2 MSD	0.0325	1.0000	1.0000 1.625
52	39	S	DG0K7	0.0028	1.0000	1.0000 0.14
53	40	S	DG0K8	0.0037	1.0000	1.0000 0.185
54	41	S	DG0K9	-0.0008	1.0000	1.0000 ND
55	42	S	DG0KA	-0.0003	1.0000	1.0000 ND
56	3	QC1	CCV	0.0489/0.05	1.0000	1.0000 98% ✓
57	8	QC2	CCB	0.0007 ✓	1.0000	1.0000
58	43	S	DG0KG	0.0073 x50=	1.0000	1.0000 0.365
59	44	S	DG0KH	0.0521	1.0000	1.0000 2.605
60	45	S	DG0VA 41	0.0007	1.0000	1.0000 0.035
61	46	S	DG0VF 42	0.0021	1.0000	1.0000 0.105
62	47	S	DG0VH 43	-0.0002	1.0000	1.0000 ND
63	48	S	DG0VK 44	0.0019	1.0000	1.0000 0.095
64	49	S	DG1H8	0.0131	1.0000	1.0000 0.655
65	50	S	DG2TN 45	-0.0001	1.0000	1.0000 ND
66	51	S	DG2TN MS	0.0362	1.0000	1.0000 1.81
67	52	S	DG2TN MSD	0.0436	1.0000	1.0000 2.18
68	3	QC1	CCV	0.0494/0.05	1.0000	1.0000 99% ✓
69	8	QC2	CCB	0.0006 ✓	1.0000	1.0000
70	53	S	DG2VL 46	0.0003 x50	1.0000	1.0000 0.015
71	54	S	DG2VQ 49	0.0004	1.0000	1.0000 0.02
72	3	QC1	CCV	0.0479/0.05	1.0000	1.0000 96%
73	8	QC2	CCB	0.0000 ✓	1.0000	1.0000
74	55	S	ICV/LCS 0202470	0.0355/0.04	1.0000	1.0000 = 89% ✓
75	9	S	ICB	0.0023 ✓	1.0000	1.0000
76	56	S	PREP BLK	0.0003 ✓	1.0000	1.0000

785% - OK
 yep
 10800

77	57	S	DG0TV	0.0002	1.0000	1.0000
78	58	S	DG0TV MS	0.0427	1.0000	1.0000
79	59	S	DG0TV MSD	0.0298	1.0000	1.0000
80	60	S	DG0TX	0.0015	1.0000	1.0000
81	61	S	DG0V0	-0.0001	1.0000	1.0000
82	62	S	DG17P	0.0303	1.0000	1.0000
83	63	S	0.025	0.0499	1.0000	1.0000
84	64	S	0.075	0.0928	1.0000	1.0000
85	3	QC1	CCV	0.0515/0.05	1.0000	1.0000
86	8	QC2	CCB	0.0009 ✓	1.0000	1.0000
87	4	D	Drift	0.0217	1.0000	1.0000
88	0	B	FinalBase	-0.0026	1.0000	1.0000

rerun
103% ✓

QC Limits

Channel	:	1
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	No
%:		Negative

- * ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

** <END OF REPORT> **

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run : 000721D
 Date of Report : 7/21/00
 Date of Run : 7/21/00
 Operator : DNM
 Comment :

Name of Analysis : CYANIDE2.ANL
 System No. : 2
 Type of System : TRAACS
 Start/Stop time : 15:53 - 16:36

Channel Type :	Real	Data	Data
Channel :	1	1	2
Method :	CYANIDE	Weight	Dilution
Unit :	mg/L	mg/kg	
Calibr. Fit :	Linear		
Corr. Coeff. :	0.9997 ✓		
Base :	57		
Gain :	164		
Sensitivity :	0.0400		
Sample Limit 1 :			
Sample Limit 2 :			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0012	0.0000	0.0000
1	1	P Primer	0.0981	1.0000	1.0000
2	2	C 0.1000	0.0994	1.0000	1.0000
3	3	C 0.0500	0.0516	1.0000	1.0000
4	4	C 0.0250	0.0241	1.0000	1.0000
5	5	C 0.0100	0.0103	1.0000	1.0000
6	6	C 0.0050	0.0045	1.0000	1.0000
7	2	H1 High	0.0983	1.0000	1.0000
8	0	L1 Low	0.0011	1.0000	1.0000
9	0	L1 Low	0.0011	1.0000	1.0000
10	0	B Baseline	-0.0012	1.0000	1.0000
11	4	D Drift	0.0237	1.0000	1.0000
12	8	N Null	-0.0007N	1.0000	1.0000
13	7	S ICV/LCS	0.0424 / 0.04	1.0000	1.0000 106% ✓
14	8	S ICB	0.0002 ✓	1.0000	1.0000
15	9	S 0.025	0.0522	1.0000	1.0000
16	10	S 0.075	0.0967	1.0000	1.0000
17	11	S DFXTA	0.1977 x50	1.0000	2.0000 = 9.885
18	12	S DG0K0	0.0034	1.0000	1.0000 = 0.17
19	13	S DG0K0 MS	0.1906	1.0000	2.0000 = 9.53
20	14	S DG0K0 MSD	0.0296	1.0000	1.0000 = 1.48
21	3	QC1 CCV	0.0510 / 0.05	1.0000	1.0000 = 102% ✓
22	8	QC2 CCB	0.0001 ✓	1.0000	1.0000
23	4	D Drift	0.0237	1.0000	1.0000
24	0	B FinalBase	-0.0012	1.0000	1.0000

QC Limits

Channel	:	1
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	1
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.2

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

*Batch# 0000711
0206603*

STL NORTH CANTON

TRAACS ANALYTICAL REPORT

Name of Run	: 000726B	Name of Analysis	: CYANIDE2.ANL
Date of Report	: 7/26/00	System No.	: 2
Date of Run	: 7/26/00	Type of System	: TRAACS
Operator	: MEL	Start/Stop time	: 14:13 - 15:19
Comment	:		

Channel Type	:	Real	Data	Data
Channel	:	1	1	2
Method	:	CYANIDE	Weight	Dilution
Unit	:	mg/L	mg/kg	
Calibr. Fit	:	Linear		
Corr. Coeff.	:	0.9998 ✓		
Base	:	51		
Gain	:	169		
Sensitivity	:	0.0325		
Sample Limit 1	:			
Sample Limit 2	:			

Pk	Cup	Sample Id	Conc	Conc	Conc
0	0	B Baseline	-0.0014	0.0000	0.0000
1	1	P Primer	0.0975	1.0000	1.0000
2	2	C 0.1000	0.0999	1.0000	1.0000
3	3	C 0.0500	0.0506	1.0000	1.0000
4	4	C 0.0250	0.0240	1.0000	1.0000
5	5	C 0.0100	0.0107	1.0000	1.0000
6	6	C 0.0050	0.0048	1.0000	1.0000
7	2	H1 High	0.1024	1.0000	1.0000
8	0	L1 Low	-0.0002	1.0000	1.0000
9	0	L1 Low	-0.0002	1.0000	1.0000
10	0	B Baseline	-0.0014	1.0000	1.0000
11	4	D Drift	0.0237	1.0000	1.0000
12	8	N Null	0.0015N	1.0000	1.0000
13	7	QC1 ICV <i>DGVOK 102</i>	0.0438/04	1.0000	1.0000 <i>109% 2.19 ✓</i>
14	8	QC2 ICB	0.0014	1.0000	1.0000
15	9	S PREP BLANK <i>DGVOK 101</i>	0.0002.50	1.0000	1.0000 <i>0.01 K 7-27-00</i>
16	10	S .025	0.0269/025	1.0000	1.0000 <i>108%</i>
17	11	S .075	0.0832/075	1.0000	1.0000 <i>110%</i>
18	12	S DG4KV	0.0001.50	1.0000	1.0000 <i>.005</i>
19	13	S DG4KV MS	0.0493.50	1.0000	1.0000 <i>2.465</i>
20	14	S DG4KV MSD	0.0441.50	1.0000	1.0000 <i>2.205</i>
21	15	S DG4L8	0.0018.50	1.0000	1.0000 <i>.07</i>
22	16	S DG4LE	0.0026.50	1.0000	1.0000 <i>0.13</i>
23	17	S DG4LH	0.0009.50	1.0000	1.0000 <i>.045</i>
24	18	S DG4LK	0.0028.50	1.0000	1.0000 <i>.114</i>

25	19	QC1	CCV	0.0527/05	1.0000	1.0000	105% ✓
26	20	QC2	CCB	0.0018	1.0000	1.0000	
27	21	S	DG4LN	0.0018/50	1.0000	1.0000	.08
28	19	QC1	CCV	0.0507/05	1.0000	1.0000	101% ✓
29	20	QC2	CCB	0.0012	1.0000	1.0000	
30	22	S	ICV/LCS	0.0433/04	1.0000	1.0000	107% ✓ 0433.50 = 2.165
31	23	S	ICB	0.0013/50	1.0000	1.0000	
32	24	S	PREP BLK	0.0013/50	1.0000	1.0000	.065
33	25	S	DG9LJ	0.0034/50	1.0000	1.0000	.045 0.17 K ₉₋₂₇₋₀₁
34	26	S	DG9LQ	0.0014/50	1.0000	1.0000	.07
35	27	S	DG9LR	0.0020/50	1.0000	1.0000	.10
36	28	S	DG9LT	0.0008/50	1.0000	1.0000	.04
37	29	S	DG9LV	0.0003/50	1.0000	1.0000	.0015 0.015 K ₉₋₂₇₋₀₁
38	30	S	DG9LV MS	0.0418/50	1.0000	1.0000	2.09
39	31	S	DG9LV MSD	0.0406/50	1.0000	1.0000	2.03
40	19	QC1	CCV	0.0503/50	1.0000	1.0000	100% ✓
41	20	QC2	CCB	0.0024	1.0000	1.0000	.12 NFG 00072L
42	32	S	DG9LW	0.0024/50	1.0000	1.0000	.12
43	33	S	DGA9D	0.0018/50	1.0000	1.0000	.09
44	34	S	DGA9E	0.0033/50	1.0000	1.0000	.165
45	35	S	DGA9F	0.0011/50	1.0000	1.0000	.085
46	36	S	DGA9G	0.0019/50	1.0000	1.0000	.095
47	37	S	DGA9H	0.0027/50	1.0000	1.0000	.135
48	38	S	DGA9K	0.0018/50	1.0000	1.0000	.07
49	39	S	DGA9N	0.0012/50	1.0000	1.0000	.06
50	40	S	DGA9L	0.0016/50	1.0000	1.0000	.08
51	41	S	DGA9P	0.0033/50	1.0000	1.0000	.165
52	19	QC1	CCV	0.0495/05	1.0000	1.0000	100% ✓
53	20	QC2	CCB	0.0009	1.0000	1.0000	.06 NFG 00072L
54	42	S	DGA9R	0.0012/50	1.0000	1.0000	.06
55	43	S	DGA9T	0.0018/50	1.0000	1.0000	.09
56	44	S	DGA9X	0.0007/50	1.0000	1.0000	.035
57	45	S	DGAA0	0.0017/50	1.0000	1.0000	.085
58	19	QC1	CCV	0.0505/05	1.0000	1.0000	101% ✓
59	20	QC2	CCB	0.0014	1.0000	1.0000	
60	46	S	DFM1N	0.0017	1.0000	1.0000	} returns from 7.13/7.14 NFG 00072L
61	47	S	DFN4A	0.0011	1.0000	1.0000	
62	48	S	DFN4E	0.0005	1.0000	1.0000	
63	49	S	DFN4F	0.0031	1.0000	1.0000	
64	50	S	DFN4G	0.0012	1.0000	1.0000	
65	19	QC1	CCV	0.0481/05	1.0000	1.0000	96% ✓
66	20	QC2	CCB	0.0023	1.0000	1.0000	
67	0	B	Baseline	-0.0014	1.0000	1.0000	
68	4	D	Drift	0.0237	1.0000	1.0000	
69	0	B	FinalBase	-0.0014	1.0000	1.0000	

QC Limits

Channel : 1
QC 1 Unused

**SDG NARRATIVE
MP018**

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

STL North Canton

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 8/9/00 6:43 PM		CCV 8/9/00 7:26 PM		CCV 8/9/00 7:59 PM		CCV 8/9/00 8:48 PM		CCV 8/9/00 10:02 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Magnesium	279.078	50000.0	53380.38	106.8	51094.21	102.2	38994.84	78.0	50828.96	101.7	51652.56	103.3

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10727b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 7/27/00 3:48 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.6	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST Units: ug/L

Chart Number: i60728a1.arc

Standard Source: _____ Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/28/00 11:39 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	18.8	U								
Antimony	206.838	10	4.3	U								
Arsenic	189.042	10	3.6	U								
Barium	493.409	200	0.5	B								
Beryllium	313.042	5	0.5	B								
Cadmium	226.502	2	0.4	U								
Calcium	317.933	5000	27.5	B								
Chromium	267.716	5	2.0	U								
Cobalt	228.616	50	2.2	U								
Copper	324.753	25	1.9	U								
Iron	271.441	100	27.3	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	31.6	B								
Manganese	257.61	15	0.4	B								
Nickel	231.604	40	1.9	U								
Potassium	766.491	5000	52.4	U								
Selenium	196.026	5	4.3	U								
Silver	328.068	5	3.1	U								
Sodium	330.232	5000	439.0	U								
Thallium	190.864	10	-5.4	B								
Tin	189.989	100	2.8	U								
Vanadium	292.402	50	1.4	U								
Zinc	213.856	20	0.6	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60731a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 7/31/00 4:03 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	18.8	U								
Antimony	206.838	10	4.3	U								
Arsenic	189.042	10	3.6	U								
Barium	493.409	200	0.4	U								
Beryllium	313.042	5	0.2	U								
Cadmium	226.502	2	0.4	U								
Calcium	317.933	5000	8.2	U								
Chromium	267.716	5	2.0	U								
Cobalt	228.616	50	2.2	U								
Copper	324.753	25	1.9	U								
Iron	271.441	100	27.3	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	13.4	U								
Manganese	257.61	15	0.4	U								
Nickel	231.604	40	1.9	U								
Potassium	766.491	5000	52.4	U								
Selenium	196.026	5	4.3	U								
Silver	328.068	5	3.1	U								
Sodium	330.232	5000	439.0	U								
Thallium	190.864	10	5.3	U								
Tin	189.989	100	2.8	U								
Vanadium	292.402	50	1.4	U								
Zinc	213.856	20	0.6	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 8/9/00 7:37 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Magnesium	279.078	5000	25.7	B								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10727b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 7/27/00 3:52 PM	Ck1CCB 7/27/00 4:01 PM	Ck1CCB 7/27/00 4:16 PM	Ck1CCB 7/27/00 4:29 PM				
			Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.6	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60728a1.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/28/00 12:10 PM		CCB 7/28/00 1:18 PM		CCB 7/28/00 2:24 PM		CCB 7/28/00 3:29 PM		CCB 7/28/00 4:30 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	56.4	B	18.8	U	18.8	U	18.8	U	25.3	B
Antimony	206.838	10	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
Barium	493.409	200	0.8	B	0.9	B	0.9	B	0.9	B	1.0	B
Beryllium	313.042	5	0.7	B	0.8	B	0.8	B	0.8	B	0.8	B
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Calcium	317.933	5000	74.8	B	27.1	B	19.2	B	16.4	B	25.1	B
Chromium	267.716	5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	228.616	50	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Copper	324.753	25	1.9	U	4.5	B	1.9	U	1.9	U	1.9	U
Iron	271.441	100	32.4	B	27.3	U	27.3	U	36.5	B	39.5	B
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	72.4	B	22.1	B	21.9	B	27.3	B	30.1	B
Manganese	257.61	15	0.8	B	0.9	B	0.7	B	0.9	B	0.9	B
Nickel	231.604	40	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U	52.4	U	52.4	U
Selenium	196.026	5	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Silver	328.068	5	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U	439.0	U	439.0	U
Thallium	190.864	10	5.3	U	5.3	U	5.3	U	5.3	U	5.3	U
Tin	189.989	100	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
Vanadium	292.402	50	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Zinc	213.856	20	1.1	B	7.2	B	1.3	B	0.8	B	0.8	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60728a1.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/28/00 5:12 PM		CCB 7/28/00 6:15 PM		CCB 7/28/00 7:18 PM		CCB 7/28/00 7:50 PM			
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	18.8	U	18.8	U	-35.0	B	18.8	U		
Antimony	206.838	10	4.3	U	4.3	U	4.3	U	4.3	U		
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U	3.6	U		
Barium	493.409	200	0.8	B	0.8	B	0.9	B	0.8	B		
Beryllium	313.042	5	0.8	B	0.8	B	1.0	B	0.8	B		
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U	0.4	U		
Calcium	317.933	5000	12.7	B	11.1	B	27.7	B	80.3	B		
Chromium	267.716	5	2.0	U	2.0	U	2.0	U	2.0	U		
Cobalt	228.616	50	2.2	U	2.2	U	2.2	U	2.2	U		
Copper	324.753	25	1.9	U	1.9	U	-2.8	B	1.9	U		
Iron	271.441	100	27.3	U	27.3	U	27.3	U	27.3	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	23.9	B	21.7	B	26.1	B	24.2	B		
Manganese	257.61	15	0.7	B	0.7	B	0.8	B	0.8	B		
Nickel	231.604	40	1.9	U	1.9	U	1.9	U	1.9	U		
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U	52.4	U		
Selenium	196.026	5	4.3	U	4.3	U	4.3	U	4.3	U		
Silver	328.068	5	3.1	U	3.1	U	3.1	U	3.1	U		
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U	439.0	U		
Thallium	190.864	10	5.3	U	5.3	U	5.3	U	5.3	U		
Tin	189.989	100	2.8	U	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	50	1.4	U	1.4	U	1.4	U	1.4	U		
Zinc	213.856	20	0.8	B	0.8	B	0.9	B	0.7	B		

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60731a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 7/31/00 4:36 PM		CCB 7/31/00 5:44 PM		CCB 7/31/00 6:29 PM		Found	O
			Found	O	Found	O	Found	O		
Aluminum	308.215	200	39.5	B	-40.0	B	-83.0	B		
Antimony	206.838	10	4.3	U	4.3	U	4.3	U		
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U		
Barium	493.409	200	0.9	B	0.9	B	1.0	B		
Beryllium	313.042	5	0.9	B	1.0	B	1.2	B		
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U		
Calcium	317.933	5000	46.2	B	15.0	B	53.1	B		
Chromium	267.716	5	2.0	U	2.0	U	2.0	U		
Cobalt	228.616	50	2.2	U	2.2	U	2.2	U		
Copper	324.753	25	1.9	U	-2.7	B	-3.4	B		
Iron	271.441	100	36.8	B	27.3	U	27.3	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	73.0	B	24.2	B	24.5	B		
Manganese	257.61	15	0.8	B	0.8	B	0.8	B		
Nickel	231.604	40	1.9	U	1.9	U	1.9	U		
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U		
Selenium	196.026	5	4.3	U	4.3	U	4.3	U		
Silver	328.068	5	3.1	U	3.1	U	3.1	U		
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U		
Thallium	190.864	10	5.3	U	5.3	U	5.3	U		
Tin	189.989	100	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	50	1.4	U	1.4	U	1.4	U		
Zinc	213.856	20	0.6	U	0.6	U	0.6	U		

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/9/00 9:00 AM		CCB 8/9/00 10:04 AM		CCB 8/9/00 11:12 AM		CCB 8/9/00 12:16 PM		CCB 8/9/00 1:19 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Magnesium	279.078	5000	83.4	B	29.7	B	86.6	B	26.6	B	79.8	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/9/00 2:03 PM		CCB 8/9/00 2:29 PM		CCB 8/9/00 3:36 PM		CCB 8/9/00 4:39 PM		CCB 8/9/00 5:43 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Magnesium	279.078	5000	81.6	B	25.5	B	35.7	B	95.4	B	27.1	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/9/00 6:48 PM		CCB 8/9/00 7:31 PM		CCB 8/9/00 8:04 PM		CCB 8/9/00 8:53 PM		CCB 8/9/00 10:08 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Magnesium	279.078	5000	87.5	B	31.8	B	84.5	B	32.0	B	65.0	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/9/00 11:13 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Magnesium	279.078	5000	31.3	B								

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DGQX5B
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	1.9	20.0	1.9	U	1	ICPST	7/28/00	17:17
Antimony	206.838	0.43	1.0	0.43	U	1	ICPST	7/28/00	17:17
Arsenic	189.042	0.36	1.0	0.36	U	1	ICPST	7/28/00	17:17
Barium	493.409	0.040	20.0	0.049	B	1	ICPST	7/28/00	17:17
Beryllium	313.042	0.020	0.50	0.029	B	1	ICPST	7/28/00	17:17
Cadmium	226.502	0.040	0.20	0.040	U	1	ICPST	7/28/00	17:17
Calcium	317.933	0.82	500	9.9	B	1	ICPST	7/28/00	17:17
Chromium	267.716	0.20	0.50	0.20	U	1	ICPST	7/28/00	17:17
Cobalt	228.616	0.22	5.0	0.22	U	1	ICPST	7/28/00	17:17
Copper	324.753	0.19	2.5	0.19	U	1	ICPST	7/28/00	17:17
Iron	271.441	2.7	10.0	2.7	U	1	ICPST	7/28/00	17:17
Lead	220.353	0.13	0.30	0.13	U	1	ICPST	7/28/00	17:17
Magnesium	279.078	1.3	500	1.4	B	1	ICPST	7/28/00	17:17
Manganese	257.61	0.040	1.5	0.12	B	1	ICPST	7/28/00	17:17
Mercury	253.7	0.017	0.10	0.017	U	1	CVAA	7/27/00	15:53
Nickel	231.604	0.19	4.0	0.19	U	1	ICPST	7/28/00	17:17
Potassium	766.491	5.2	500	5.2	U	1	ICPST	7/28/00	17:17
Selenium	196.026	0.43	0.50	0.43	U	1	ICPST	7/28/00	17:17
Silver	328.068	0.31	0.50	0.31	U	1	ICPST	7/28/00	17:17
Sodium	330.232	43.9	500	43.9	U	1	ICPST	7/28/00	17:17
Thallium	190.864	0.53	1.0	0.53	U	1	ICPST	7/28/00	17:17
Tin	189.989	0.28	10.0	2.7	B	1	ICPST	7/28/00	17:17
Vanadium	292.402	0.14	5.0	0.14	U	1	ICPST	7/28/00	17:17
Zinc	213.856	0.060	2.0	0.68	B	1	ICPST	7/28/00	17:17

Comments: Lot #: A0G120141

STL North Canton
Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60728a1.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/28/00 11:52 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	497000					
Antimony	206.838	10		0					
Arsenic	189.042	10		2					
Barium	493.409	200		2					
Beryllium	313.042	5		1					
Cadmium	226.502	2		1					
Calcium	317.933		500000	546000					
Chromium	267.716	5		-2					
Cobalt	228.616	50		3					
Copper	324.753	25		3					
Iron	271.441		200000	202000					
Lead	220.353	3		4					
Magnesium	279.078		500000	517000					
Manganese	257.61	15		9					
Nickel	231.604	40		3					
Potassium	766.491	5000		13					
Selenium	196.026	5		8					
Silver	328.068	5		0					
Sodium	330.232	5000		45					
Thallium	190.864	10		1					
Tin	189.989	100		1					
Vanadium	292.402	50		-2					
Zinc	213.856	20		23					

STL North Canton
Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60731a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/31/00 4:18 PM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	487000					
Antimony	206.838	10		2					
Arsenic	189.042	10		2					
Barium	493.409	200		2					
Beryllium	313.042	5		1					
Cadmium	226.502	2		0					
Calcium	317.933		500000	528000					
Chromium	267.716	5		-1					
Cobalt	228.616	50		3					
Copper	324.753	25		1					
Iron	271.441		200000	194000					
Lead	220.353	3		5					
Magnesium	279.078		500000	495000					
Manganese	257.61	15		8					
Nickel	231.604	40		3					
Potassium	766.491	5000		11					
Selenium	196.026	5		-9					
Silver	328.068	5		1					
Sodium	330.232	5000		-130					
Thallium	190.864	10		1					
Tin	189.989	100		1					
Vanadium	292.402	50		-1					
Zinc	213.856	20		21					

STL North Canton
Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 8/9/00 8:39 AM				
				Found	Found	Found	Found	Found
Magnesium	279.078		500000	498000				

STL North Canton
Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60728a1.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 7/28/00 11:57 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	490030.6	98.0								
Antimony	206.838	1000	1042.3	104.2								
Arsenic	189.042	1000	1005.4	100.5								
Barium	493.409	500	525.5	105.1								
Beryllium	313.042	500	511.0	102.2								
Cadmium	226.502	1000	943.6	94.4								
Calcium	317.933	500000	529631.5	105.9								
Chromium	267.716	500	489.2	97.8								
Cobalt	228.616	500	488.0	97.6								
Copper	324.753	500	525.8	105.2								
Iron	271.441	200000	199392.8	99.7								
Lead	220.353	1000	978.1	97.8								
Magnesium	279.078	500000	510092.0	102.0								
Manganese	257.61	500	519.6	103.9								
Nickel	231.604	1000	969.3	96.9								
Potassium	766.491	10000	11608.3	116.1								
Selenium	196.026	1000	992.3	99.2								
Silver	328.068	1000	1045.5	104.5								
Sodium	330.232	10000	10671.7	106.7								
Thallium	190.864	1000	1007.0	100.7								
Tin	189.989	1000	975.9	97.6								
Vanadium	292.402	500	494.5	98.9								
Zinc	213.856	1000	1049.5	104.9								

STL NORTH CANTON

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60731a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 7/31/00 4:22 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	481614.7	96.3								
Antimony	206.838	1000	1006.1	100.6								
Arsenic	189.042	1000	977.2	97.7								
Barium	493.409	500	514.2	102.8								
Beryllium	313.042	500	498.0	99.6								
Cadmium	226.502	1000	905.8	90.6								
Calcium	317.933	500000	512832.2	102.6								
Chromium	267.716	500	477.0	95.4								
Cobalt	228.616	500	467.9	93.6								
Copper	324.753	500	507.2	101.4								
Iron	271.441	200000	192043.1	96.0								
Lead	220.353	1000	962.0	96.2								
Magnesium	279.078	500000	491293.6	98.3								
Manganese	257.61	500	503.1	100.6								
Nickel	231.604	1000	959.7	96.0								
Potassium	766.491	10000	11407.6	114.1								
Selenium	196.026	1000	923.5	92.4								
Silver	328.068	1000	1027.5	102.8								
Sodium	330.232	10000	10188.6	101.9								
Thallium	190.864	1000	958.4	95.8								
Tin	189.989	1000	924.3	92.4								
Vanadium	292.402	500	478.4	95.7								
Zinc	213.856	1000	1040.3	104.0								

STL NORTH CANTON
Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60809a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 8/9/00 8:50 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Magnesium	279.078	500000	491814.7	98.4								

Comparison of ICP Interference Affects
SDG MP018
Mayport

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-GW-SU-45-04	4.9	Calcium	500000	2	35100	0.14	—
Beryllium	MPT-GW-SU-45-04	0.06	Calcium	500000	1	35100	0.07	—u—
Cadmium	MPT-GW-SU-45-04	0.12	Calcium	500000	1	35100	0.07	—
Cobalt	MPT-GW-SU-45-04	0.51	Calcium	500000	3	35100	0.21	—
Copper	MPT-GW-SU-45-04	203	Calcium	500000	3	35100	0.21	—
Lead	MPT-GW-SU-45-04	11.1	Calcium	500000	5	35100	0.35	—
Manganese	MPT-GW-SU-45-04	17.9	Calcium	500000	9	35100	0.63	—
Nickel	MPT-GW-SU-45-04	7.8	Calcium	500000	3	35100	0.21	—
Selenium	MPT-GW-SU-45-04	0.54U	Calcium	500000	-9	35100	-0.63	—
Vanadium	MPT-GW-SU-45-04	4.9	Calcium	500000	-2	35100	-0.14	—
Zinc	MPT-GW-SU-45-04	59.3	Calcium	500000	23	35100	1.61	—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-GW-SU-52-05	6.9	Calcium	500000	2	84600	0.34	—
Beryllium	MPT-GW-SU-52-05	0.1	Calcium	500000	1	84600	0.17	—u—
Cadmium	MPT-GW-SU-52-05	0.05U	Calcium	500000	1	84600	0.17	—
Cobalt	MPT-GW-SU-52-05	0.26U	Calcium	500000	3	84600	0.51	—
Copper	MPT-GW-SU-52-05	0.28	Calcium	500000	3	84600	0.51	—
Lead	MPT-GW-SU-52-05	0.8	Calcium	500000	5	84600	0.85	—
Manganese	MPT-GW-SU-52-05	20.4	Calcium	500000	9	84600	1.52	—
Nickel	MPT-GW-SU-52-05	0.65	Calcium	500000	3	84600	0.51	—
Selenium	MPT-GW-SU-52-05	0.52U	Calcium	500000	-9	84600	-1.52	—
Vanadium	MPT-GW-SU-52-05	2.2	Calcium	500000	-2	84600	-0.34	—
Zinc	MPT-GW-SU-52-05	6.8	Calcium	500000	23	84600	3.89	—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-GW-SU-53-05	3.6	Calcium	500000	2	64500	0.26	—
Beryllium	MPT-GW-SU-53-05	0.09	Calcium	500000	1	64500	0.13	—u—
Cadmium	MPT-GW-SU-53-05	0.05U	Calcium	500000	1	64500	0.13	—
Cobalt	MPT-GW-SU-53-05	0.33	Calcium	500000	3	64500	0.39	—
Copper	MPT-GW-SU-53-05	0.23U	Calcium	500000	3	64500	0.39	—
Lead	MPT-GW-SU-53-05	0.75	Calcium	500000	5	64500	0.65	—
Manganese	MPT-GW-SU-53-05	26.9	Calcium	500000	9	64500	1.16	—
Nickel	MPT-GW-SU-53-05	0.73	Calcium	500000	3	64500	0.39	—
Selenium	MPT-GW-SU-53-05	0.51U	Calcium	500000	-9	64500	-1.16	—
Vanadium	MPT-GW-SU-53-05	1.8	Calcium	500000	-2	64500	-0.26	—
Zinc	MPT-GW-SU-53-05	3.5	Calcium	500000	23	64500	2.97	—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-GW-SU-54-05	6	Calcium	500000	2	100000	0.40	—
Beryllium	MPT-GW-SU-54-05	0.08	Calcium	500000	1	100000	0.20	—u—
Cadmium	MPT-GW-SU-54-05	0.07	Calcium	500000	1	100000	0.20	—
Cobalt	MPT-GW-SU-54-05	0.24U	Calcium	500000	3	100000	0.60	—
Copper	MPT-GW-SU-54-05	0.21U	Calcium	500000	3	100000	0.60	—
Lead	MPT-GW-SU-54-05	1.1	Calcium	500000	5	100000	1.00	—
Manganese	MPT-GW-SU-54-05	16	Calcium	500000	9	100000	1.80	—
Nickel	MPT-GW-SU-54-05	0.48	Calcium	500000	3	100000	0.60	—
Selenium	MPT-GW-SU-54-05	0.47U	Calcium	500000	-9	100000	-1.80	—
Vanadium	MPT-GW-SU-54-05	2.4	Calcium	500000	-2	100000	-0.40	—
Zinc	MPT-GW-SU-54-05	3.9	Calcium	500000	23	100000	4.60	—u—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-GW-SU-55-05	7.3	Calcium	500000	2	64300	0.26	—
Beryllium	MPT-GW-SU-55-05	0.08	Calcium	500000	1	64300	0.13	—u—
Cadmium	MPT-GW-SU-55-05	0.05U	Calcium	500000	1	64300	0.13	—
Cobalt	MPT-GW-SU-55-05	0.39	Calcium	500000	3	64300	0.39	—
Copper	MPT-GW-SU-55-05	1.1	Calcium	500000	3	64300	0.39	—u—
Lead	MPT-GW-SU-55-05	2.3	Calcium	500000	5	64300	0.64	—
Manganese	MPT-GW-SU-55-05	27.2	Calcium	500000	9	64300	1.16	—
Nickel	MPT-GW-SU-55-05	1.1	Calcium	500000	3	64300	0.39	—
Selenium	MPT-GW-SU-55-05	0.52U	Calcium	500000	-9	64300	-1.16	—
Vanadium	MPT-GW-SU-55-05	3.6	Calcium	500000	-2	64300	-0.26	—
Zinc	MPT-GW-SU-55-05	6.4	Calcium	500000	23	64300	2.96	—

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DG2TNS
 Original Sample ID: DG2TN Client ID: MPT-G4-SU-45-04S
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 20.16

OK → 4x Rule

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	1000		2640	N	250.50	655.9	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Antimony	206.8	0.54	U	55.2		62.625	88.1	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Arsenic	189.0	3.1		220		250.50	86.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Barium	493.4	4.9	B	240		250.50	93.8	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Beryllium	313.0	0.063	B	6.0		6.2625	95.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Cadmium	226.5	0.12	B	5.9		6.2625	91.8	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Calcium	317.9	35100		28400	NC	6262.5		1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Chromium	267.7	3.9		29.3		25.050	101.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Cobalt	228.6	0.51	B	58.7		62.625	92.8	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Copper	324.8	203		334	NC	31.313		1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Iron	271.4	2650		2690	NC	125.25		1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Lead	220.4	11.1		66.0		62.625	87.7	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Magnesium	279.1	428	B	6040		6262.5	89.6	1	1	ICPST	7/31/00	16:50	7/31/00	16:55
Manganese	257.6	17.9		78.3		62.625	96.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Mercury	253.7	0.031	B	0.21		0.2088	87.6	1	1	CVAA	7/27/00	16:08	7/27/00	16:09
Nickel	231.6	7.8		84.0		62.625	121.6	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Potassium	766.5	109	B	6420		6262.5	100.8	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Selenium	196.0	0.54	U	230		250.50	92.0	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Silver	328.1	0.39	U	7.0		6.2625	111.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Sodium	330.2	365	B	6530		6262.5	98.4	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Thallium	190.9	0.66	U	243		250.50	97.2	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Tin	190	2.2	B	235		250.50	92.9	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Vanadium	292.4	4.9	B	65.5		62.625	96.7	1	1	ICPST	7/28/00	18:24	7/28/00	18:29
Zinc	213.9	59.3		159	N	62.625	159.9	1	1	ICPST	7/28/00	18:24	7/28/00	18:29

*Yap
10-8-00*

Comments: Lot #: A0G120141 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated

Form 5A Equivalent

* Duplicate analysis RPD was not within limits

STL North Canton

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DG2TND
Original Sample ID: DG2TN **Client ID:** MPT-G4-SU-45-04D
Matrix: Soil **Units:** mg/kg **Prep Date:** 7/26/00 **Prep Batch:** 0207373
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 20.16

→ OK - 4x RULE

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	1000	N	2800	N	250.50	717.6	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Antimony	206.8	0.54	U	56.6		62.625	90.4	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Arsenic	189.0	3.1		224		250.50	88.3	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Barium	493.4	4.9	B	247		250.50	96.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Beryllium	313.0	0.063	B	6.2		6.2625	98.2	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Cadmium	226.5	0.12	B	6.0		6.2625	94.6	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Calcium	317.9	35100		31100	NC	6262.5		1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Chromium	267.7	3.9		30.4		25.050	105.6	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Cobalt	228.6	0.51	B	60.2		62.625	95.3	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Copper	324.8	203		41.5	NC	31.313		1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Iron	271.4	2650		2680	NC	125.25		1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Lead	220.4	11.1		70.4		62.625	94.7	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Magnesium	279.1	428	B	6300		6262.5	93.7	1	1	ICPST	7/31/00	16:50	7/31/00	17:00
Manganese	257.6	17.9		83.4		62.625	104.6	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Mercury	253.7	0.031	B	0.22		0.2088	91.0	1	1	CVAA	7/27/00	16:08	7/27/00	16:11
Nickel	231.6	7.8		59.0	*	62.625	81.8	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Potassium	766.5	109	B	6560		6262.5	103.1	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Selenium	196.0	0.54	U	235		250.50	93.8	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Silver	328.1	0.39	U	7.1		6.2625	113.3	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Sodium	330.2	365	B	6710		6262.5	101.3	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Thallium	190.9	0.66	U	250		250.50	99.9	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Tin	190	2.2	B	241		250.50	95.3	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Vanadium	292.4	4.9	B	67.6		62.625	100.0	1	1	ICPST	7/28/00	18:24	7/28/00	18:34
Zinc	213.9	59.3	N	78.4	N*	62.625	30.5	1	1	ICPST	7/28/00	18:24	7/28/00	18:34

*Yup
10-8-00*

Comments: Lot #: A0G120141 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form SA Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DG2TND
 Matrix Spike Sample ID: DG2TNS Client ID: MPT-G4-SU-45-04D
 Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373
 Weight: 1.00 Volume: 100 Percent Moisture: 20.16

Element	WL/ Mass	MS Conc	O	MSD Conc	O	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	2640	N	2800	N	9.0 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Antimony	206.838	55.2		56.6		2.6 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Arsenic	189.042	220		224		2.1 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Barium	493.409	240		247		2.8 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Beryllium	313.042	6.0		6.2		2.8 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Cadmium	226.502	5.9		6.0		2.9 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Calcium	317.933	28400	NC	31100	NC		1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Chromium	267.716	29.3		30.4		4.0 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Cobalt	228.616	58.7		60.2		2.6 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Copper	324.753	334	NC	41.5	NC		1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Iron	271.441	2690	NC	2680	NC		1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Lead	220.353	66.0		70.4		7.6 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Magnesium	279.078	6040		6300		6.2 %	1	1	ICPST	7/31/00	16:55	7/31/00	17:00
Manganese	257.61	78.3		83.4		8.0 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Mercury	253.7	0.21		0.22		3.8 %	1	1	CVAA	7/27/00	16:09	7/27/00	16:11
Nickel	231.604	84.0		59.0	*	39.2 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Potassium	766.491	6420		6560		2.2 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Selenium	196.026	230		235		1.9 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Silver	328.068	7.0		7.1		1.6 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Sodium	330.232	6530		6710		2.9 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Thallium	190.864	243		250		2.8 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Tin	189.989	235		241		2.5 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Vanadium	292.402	65.5		67.6		3.4 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34
Zinc	213.856	159	N	78.4	N*	135.9 %	1	1	ICPST	7/28/00	18:29	7/28/00	18:34

Comments: Lot #: A0G120141 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DFWCAL

Original Sample ID: DFWCA Client ID: MPT-G4-SU-38-05

Matrix: Soil Units: mg/kg Prep Date: 7/26/00 Prep Batch: 0207373

Weight: 1.00 Volume: 100 Percent Moisture: 5.87

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	454	N	449		1.2 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Antimony	206.838	0.46	U	2.3	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Arsenic	189.042	0.70	B	1.9	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Barium	493.409	2.4	B	2.5	B	3.0 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Beryllium	313.042	0.021	U	0.11	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Cadmium	226.502	0.050	B	0.21	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Calcium	317.933	10500		10500		0.0 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Chromium	267.716	2.2		2.3	B		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Cobalt	228.616	0.23	U	1.2	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Copper	324.753	0.66	B	1.0	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Iron	271.441	657		665		1.2 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Lead	220.353	1.9		1.6			1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Magnesium	279.078	188	B	194	B	3.4 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Manganese	257.61	7.6		7.8	B	2.2 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Nickel	231.604	0.50	B	1.0	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Potassium	766.491	53.1	B	52.6	B		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Selenium	196.026	0.46	U	2.3	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Silver	328.068	0.33	U	1.7	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Sodium	330.232	84.6	B	233	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Thallium	190.864	0.56	U	2.8	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Tin	189.989	1.4	B	1.5	U		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Vanadium	292.402	2.0	B	2.0	B		1	5	ICPST	7/28/00	17:28	7/28/00	17:33
Zinc	213.856	4.9	N	7.1	BL	46.0 %	1	5	ICPST	7/28/00	17:28	7/28/00	17:33

Comments: _____

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.6	0.10	7/7/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	18.8	7/14/00
Antimony	206.84	10	4.3	7/14/00
Arsenic	189.04	10	3.6	7/14/00
Barium	493.41	200	0.40	7/14/00
Beryllium	313.04	5	0.20	7/14/00
Cadmium	226.50	2	0.40	7/14/00
Calcium	317.93	5000	8.2	7/14/00
Chromium	267.72	5	2.0	7/14/00
Cobalt	228.62	50	2.2	7/14/00
Copper	324.75	25	1.9	7/14/00
Iron	271.44	100	27.3	7/14/00
Lead	220.35	3	1.3	7/14/00
Magnesium	279.08	5000	13.4	7/14/00
Manganese	257.61	15	0.40	7/14/00
Nickel	231.60	40	1.9	7/14/00
Potassium	766.49	5000	52.4	7/14/00
Selenium	196.03	5	4.3	7/14/00
Silver	328.07	5	3.1	7/14/00
Sodium	330.23	5000	439	7/14/00
Thallium	190.86	10	5.3	7/14/00
Tin	189.99	100	2.8	7/14/00
Vanadium	292.40	50	1.4	7/14/00
Zinc	213.86	20	0.60	7/14/00

Analysts Run Log ICP-16

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: Instrument Upload                               Run Log - Page 1 :
: Started Mon Jul 31 13:54:44 2000 by OMEARAP      :
: Data File: UPL$CAN_DATA_ROOT:<TJA>I60728A1.ARC;1 :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	28-JUL-2000	10:12:00			I6
2	CALSTD	1	28-JUL-2000	10:17:00			I6
3	CAL	1	28-JUL-2000	10:22:00			I6
4	S100	1	28-JUL-2000	10:25:00			I6
5	S0	1	28-JUL-2000	11:16:00			I6
6	CALSTD	1	28-JUL-2000	11:21:00			I6
7	CAL	1	28-JUL-2000	11:25:00			I6
8	S100	1	28-JUL-2000	11:29:00			I6
9	ICV	1	28-JUL-2000	11:32:00			I6
10	ICB	1	28-JUL-2000	11:39:00			I6
11	CRI	1	28-JUL-2000	11:43:00			I6
12	ICSA	1	28-JUL-2000	11:52:00			I6
13	ICSAB	1	28-JUL-2000	11:57:00			I6
14	CCV	1	28-JUL-2000	12:04:00			I6
15	CCB	1	28-JUL-2000	12:10:00			I6
16	DGDEQB	1	28-JUL-2000	12:15:00	0200281	A0G180000	I6
17	DG9NC	2	28-JUL-2000	12:20:00	0200281	MP020	I6
18	DFWXA	2	28-JUL-2000	12:27:00			I6
19	DGJ04D	1	28-JUL-2000	12:33:00			I6
20	DG88CF	1	28-JUL-2000	12:39:00			I6
21	DG88FF	1	28-JUL-2000	12:43:00			I6
22	DGRLCB	1	28-JUL-2000	12:50:00	0208106	A0G260000	I6
23	DGRLCC	1	28-JUL-2000	12:55:00	0208106	A0G260000	I6
24	DGQLK	1	28-JUL-2000	13:00:00	0208106	A0G250217	I6
25	DGQLKL	1	28-JUL-2000	13:04:00			I6
26	CCV	1	28-JUL-2000	13:11:00			I6
27	CCB	1	28-JUL-2000	13:18:00			I6
28	DGQLKS	1	28-JUL-2000	13:22:00	0208106	A0G250217	I6
29	DGQLKD	1	28-JUL-2000	13:27:00	0208106	A0G250217	I6
30	DGQM6	1	28-JUL-2000	13:34:00	0208106	A0G250217	I6
31	DGVTJB	1	28-JUL-2000	13:40:00	0209105	A0G270000	I6
32	DGVTJC	1	28-JUL-2000	13:45:00	0209105	A0G270000	I6
33	DGT63	1	28-JUL-2000	13:52:00	0209105	A0G260133	I6
34	DGT63L	1	28-JUL-2000	13:57:00			I6
35	DGT63S	1	28-JUL-2000	14:01:00	0209105	A0G260133	I6
36	DGT63D	1	28-JUL-2000	14:06:00	0209105	A0G260133	I6
37	DGV4RB	1	28-JUL-2000	14:13:00	0208447	A0G260000	I6
38	CCV	1	28-JUL-2000	14:18:00			I6
39	CCB	1	28-JUL-2000	14:24:00			I6
40	DG4RVC	1	28-JUL-2000	14:29:00			I6
41	DGT4W	1	28-JUL-2000	14:36:00	0208447	A0G260133	I6
42	DGT4WL	1	28-JUL-2000	14:40:00			I6
43	DGT4WS	1	28-JUL-2000	14:45:00	0208447	A0G260133	I6
44	DGT4WD	1	28-JUL-2000	14:50:00	0208447	A0G260133	I6

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:      Instrument Upload                               Run Log - Page 2 :
:      Started Mon Jul 31 13:54:44 2000 by OMEARAP      :
:      Data File: UPL$CAN_DATA_ROOT:<TJA>I60728A1.ARC;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DGT53	1	28-JUL-2000	14:57:00	0208447	A0G260133	I6
46	DGT54	1	28-JUL-2000	15:01:00	0208447	A0G260133	I6
47	DGT55	1	28-JUL-2000	15:06:00	0208447	A0G260133	I6
48	DGT5N	1	28-JUL-2000	15:11:00	0208447	A0G260133	I6
49	DGT5P	1	28-JUL-2000	15:16:00	0208447	A0G260133	I6
50	CCV	1	28-JUL-2000	15:22:00			I6
51	CCB	1	28-JUL-2000	15:29:00			I6
52	DGT5R	1	28-JUL-2000	15:34:00	0208447	A0G260133	I6
53	DGT5X	1	28-JUL-2000	15:39:00	0208447	A0G260133	I6
54	DGT61	1	28-JUL-2000	15:43:00	0208447	A0G260133	I6
55	DGT62	1	28-JUL-2000	15:48:00	0208447	A0G260133	I6
56	DGT67	1	28-JUL-2000	15:53:00	0208447	A0G260133	I6
57	DGT6A	2	28-JUL-2000	15:58:00	0208447	A0G260133	I6
58	DGT6C	1	28-JUL-2000	16:03:00	0208447	A0G260133	I6
59	DGT6E	1	28-JUL-2000	16:07:00	0208447	A0G260133	I6
60	DGT6G	1	28-JUL-2000	16:12:00	0208447	A0G260133	I6
61	DGT6J	1	28-JUL-2000	16:17:00	0208447	A0G260133	I6
62	CCV	1	28-JUL-2000	16:24:00			I6
63	CCB	1	28-JUL-2000	16:30:00			I6
64	CCV	1	28-JUL-2000	17:05:00			I6
65	CCB	1	28-JUL-2000	17:12:00			I6
66	DGQX5B	1	28-JUL-2000	17:17:00	0207373	A0G250000	I6
67	DGQX5C	1	28-JUL-2000	17:21:00	0207373	A0G250000	I6
68	DFWCA	1	28-JUL-2000	17:28:00	0207373	MP018	I6
69	DFWCAL	1	28-JUL-2000	17:33:00			I6
70	DFWCD	1	28-JUL-2000	17:37:00	0207373	MP018	I6
71	DFWCE	1	28-JUL-2000	17:42:00	0207373	MP018	I6
72	DFWCF	1	28-JUL-2000	17:47:00	0207373	MP018	I6
73	DG0VA	1	28-JUL-2000	17:52:00	0207373	MP018	I6
74	DG0VF	1	28-JUL-2000	17:57:00	0207373	MP018	I6
75	DG0VH	1	28-JUL-2000	18:01:00	0207373	MP018	I6
76	CCV	1	28-JUL-2000	18:08:00			I6
77	CCB	1	28-JUL-2000	18:15:00			I6
78	DG0VK	1	28-JUL-2000	18:19:00	0207373	MP018	I6
79	DG2TN	1	28-JUL-2000	18:24:00	0207373	MP018	I6
80	DG2TNS	1	28-JUL-2000	18:29:00	0207373	MP018	I6
81	DG2TND	1	28-JUL-2000	18:34:00	0207373	MP018	I6
82	DG2VL	1	28-JUL-2000	18:40:00	0207373	MP018	I6
83	DG2VM	1	28-JUL-2000	18:45:00	0207373	MP018	I6
84	DG2VN	1	28-JUL-2000	18:50:00	0207373	MP018	I6
85	DG2VQ	1	28-JUL-2000	18:55:00	0207373	MP018	I6
86	DG4KV	1	28-JUL-2000	19:00:00	0207373	MP018	I6
87	DG4L8	1	28-JUL-2000	19:04:00	0207373	MP018	I6
88	CCV	1	28-JUL-2000	19:11:00			I6

: Instrument Upload Run Log - Page 3 :
: Started Mon Jul 31 13:54:44 2000 by OMEARAP :
: Data File: UPL\$CAN_DATA_ROOT:<TJA>I60728A1.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	CCB	1	28-JUL-2000	19:18:00			I6
90	DG4LE	1	28-JUL-2000	19:22:00	0207373	MP018	I6
91	DG4LH	1	28-JUL-2000	19:27:00	0207373	MP018	I6
92	DG4LK	1	28-JUL-2000	19:32:00	0207373	MP018	I6
93	DG4LN	1	28-JUL-2000	19:37:00	0207373	MP018	I6
94	CCV	1	28-JUL-2000	19:43:00			I6
95	CCB	1	28-JUL-2000	19:50:00			I6

----- End of Report -----

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SO	I60731A	TOTAL	07/31/00	14:56		X	IR
2	CALSTD	I60731A	TOTAL	07/31/00	15:01		X	IR
3	CAL 2	I60731A	TOTAL	07/31/00	15:06		X	IR
4	S100	I60731A	TOTAL	07/31/00	15:09		X	IR
5	ICV	I60731A	TOTAL	07/31/00	15:12	RKT	Q	CONC
6	ICV SN B	I60731A	TOTAL	07/31/00	15:52		S	CONC
7	ICB	I60731A	TOTAL	07/31/00	16:03	RKT	Q	CONC
8	CRI	I60731A	TOTAL	07/31/00	16:08	RKT	Q	CONC
9	ICSA	I60731A	TOTAL	07/31/00	16:18	MJC	Q	CONC
10	ICSAB	I60731A	TOTAL	07/31/00	16:22	MJC	Q	CONC
11	CCV	I60731A	TOTAL	07/31/00	16:29	MJC	Q	CONC
12	CCB	I60731A	TOTAL	07/31/00	16:36	MJC	Q	CONC
13	DGQX5B 0207373	I60731A	TOTAL	07/31/00	16:46	MJC	S	CONC
14	DG2TN	I60731A	TOTAL	07/31/00	16:50	MJC	S	CONC
15	DG2TNS	I60731A	TOTAL	07/31/00	16:55	MJC	S	CONC
16	DG2TND	I60731A	TOTAL	07/31/00	17:00	MJC	S	CONC
17	DG2VL	I60731A	TOTAL	07/31/00	17:07	MJC	S	CONC
18	DG2VM	I60731A	TOTAL	07/31/00	17:11	MJC	S	CONC
19	DG2VN	I60731A	TOTAL	07/31/00	17:16	MJC	S	CONC
20	DG2VQ	I60731A	TOTAL	07/31/00	17:21	MJC	S	CONC
21	DG4KV	I60731A	TOTAL	07/31/00	17:26	MJC	S	CONC
22	DG4L8	I60731A	TOTAL	07/31/00	17:31	MJC	S	CONC
23	CCV	I60731A	TOTAL	07/31/00	17:37	MJC	Q	CONC
24	CCB	I60731A	TOTAL	07/31/00	17:44	MJC	Q	CONC
25	DG4LE/2	I60731A	TOTAL	07/31/00	17:49	MJC	S	CONC
26	DG4LH	I60731A	TOTAL	07/31/00	17:53	MJC	S	CONC
27	DG4LK	I60731A	TOTAL	07/31/00	17:58	MJC	S	CONC
28	DG4LK/2	I60731A	TOTAL	07/31/00	18:03	MJC	S	CONC
29	DG4LN	I60731A	TOTAL	07/31/00	18:08	MJC	S	CONC
30	DG4LE	I60731A	TOTAL	07/31/00	18:16	MJC	S	CONC
31	CCV	I60731A	TOTAL	07/31/00	18:22	MJC	Q	CONC
32	CCB	I60731A	TOTAL	07/31/00	18:29	MJC	Q	CONC
33	CCY	I60731A	TOTAL	07/31/00	19:14	MJC	Q	CONC
34	CCB	I60731A	TOTAL	07/31/00	19:20	MJC	Q	CONC
35	DGV2WB 0208433	I60731A	TOTAL	07/31/00	19:25	MJC	S	CONC
36	DGV2WC	I60731A	TOTAL	07/31/00	19:30	MJC	S	CONC
37	DGRPK	I60731A	TOTAL	07/31/00	19:35	MJC	S	CONC
38	DGRPKL	I60731A	TOTAL	07/31/00	19:40	MJC	S	CONC
39	DGRPKS	I60731A	TOTAL	07/31/00	19:45	MJC	S	CONC
40	DGRPKD	I60731A	TOTAL	07/31/00	19:50	MJC	S	CONC
41	DGRQ0	I60731A	TOTAL	07/31/00	19:56	MJC	S	CONC
42	DGRQ3	I60731A	TOTAL	07/31/00	20:00	MJC	S	CONC
43	DGRQ7	I60731A	TOTAL	07/31/00	20:05	MJC	S	CONC
44	DGRQ9	I60731A	TOTAL	07/31/00	20:10	MJC	S	CONC
45	CCV	I60731A	TOTAL	07/31/00	20:17	MJC	Q	CONC
46	CCB	I60731A	TOTAL	07/31/00	20:23	MJC	Q	CONC
47	DGRQR	I60731A	TOTAL	07/31/00	20:28	MJC	S	CONC
48	DGL4EF	I60731A	TOTAL	07/31/00	20:33	MJC	S	CONC
49	DGL4H	I60731A	TOTAL	07/31/00	20:38	MJC	S	CONC
50	DGL4HF	I60731A	TOTAL	07/31/00	20:42	MJC	S	CONC
51	DGL4J	I60731A	TOTAL	07/31/00	20:47	MJC	S	CONC
52	DGL4JF	I60731A	TOTAL	07/31/00	20:52	MJC	S	CONC
53	DGL4K	I60731A	TOTAL	07/31/00	20:57	MJC	S	CONC

VOID
 MR
 87400

Analysis Run Log

: Instrument Upload Run Log - Page 1 :
: Started Thu Aug 10 06:51:42 2000 by COUNTSK :
: Data File: UPL\$CAN_DATA_ROOT:<TJA>I60809A.ARC;1 :

ICP-I6

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	09-AUG-2000	07:15:00			I6
2	CALSTD	1	09-AUG-2000	07:20:00			I6
3	CAL	1	09-AUG-2000	07:25:00			I6
4	S100	1	09-AUG-2000	07:29:00			I6
5	ICV	1	09-AUG-2000	07:32:00			I6
6	ICB	1	09-AUG-2000	07:37:00			I6
7	CRI	1	09-AUG-2000	07:42:00			I6
8	CRI	1	09-AUG-2000	07:49:00			I6
9	ICSA	1	09-AUG-2000	07:58:00			I6
10	FE	1	09-AUG-2000	08:30:00			I6
11	ICSA	1	09-AUG-2000	08:39:00			I6
12	ICSAB4.0	1	09-AUG-2000	08:45:00			I6
13	ICSAB	1	09-AUG-2000	08:50:00			I6
14	CCV	1	09-AUG-2000	08:55:00			I6
15	CCB	1	09-AUG-2000	09:00:00			I6
16	PBW	1	09-AUG-2000	09:05:00			I6
17	LCSW	1	09-AUG-2000	09:10:00			I6
18	DGQAJ	1	09-AUG-2000	09:17:00	0216149	G24128	I6
19	DGQAJL	1	09-AUG-2000	09:22:00			I6
20	DGQAJD	1	09-AUG-2000	09:27:00			I6
21	DGQAJST	1	09-AUG-2000	09:32:00			I6
22	DGQAJJS	1	09-AUG-2000	09:37:00	0216149	G24128	I6
23	DGQAJF	1	09-AUG-2000	09:44:00	0216149	G24128	I6
24	DGQAJFD	1	09-AUG-2000	09:49:00			I6
25	DGQAJFST	1	09-AUG-2000	09:54:00			I6
26	CCV	1	09-AUG-2000	09:59:00			I6
27	CCB	1	09-AUG-2000	10:04:00			I6
28	DGQAJFS	1	09-AUG-2000	10:09:00	0216149	G24128	I6
29	DGQC2	1	09-AUG-2000	10:16:00	0216149	G24128	I6
30	DGQC2F	1	09-AUG-2000	10:21:00	0216149	G24128	I6
31	DGQCA	1	09-AUG-2000	10:26:00	0216149	G24128	I6
32	DGQCAF	1	09-AUG-2000	10:31:00	0216149	G24128	I6
33	DGQCTF	1	09-AUG-2000	10:36:00	0216149	G24128	I6
34	PBS	1	09-AUG-2000	10:44:00			I6
35	CRI	1	09-AUG-2000	10:52:00			I6
36	ICSA	1	09-AUG-2000	10:57:00			I6
37	ICSAB4.0	1	09-AUG-2000	11:02:00			I6
38	CCV	1	09-AUG-2000	11:07:00			I6
39	CCB	1	09-AUG-2000	11:12:00			I6
40	LCSS	1	09-AUG-2000	11:17:00			I6
41	DGNW9	1	09-AUG-2000	11:24:00	0216151	G24128	I6
42	DGNW9L	1	09-AUG-2000	11:29:00			I6
43	DGNW9D	1	09-AUG-2000	11:34:00			I6
44	DGNW9ST	1	09-AUG-2000	11:39:00			I6

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Instrument Upload

Run Log - Page 2 :

Started Thu Aug 10 06:51:42 2000 by COUNTSK

Data File: UPL\$CAN_DATA_ROOT:<TJA>I60809A.ARC;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DGNW9S	1	09-AUG-2000	11:44:00	0216151	G24128	I6
46	DGNWG	1	09-AUG-2000	11:51:00	0216151	G24128	I6
47	DGNWK	1	09-AUG-2000	11:56:00	0216151	G24128	I6
48	DGQCC	1	09-AUG-2000	12:01:00	0216151	G24128	I6
49	DGQCC	1	09-AUG-2000	12:06:00	0216151	G24128	I6
50	CCV	1	09-AUG-2000	12:11:00			I6
51	CCB	1	09-AUG-2000	12:16:00			I6
52	DGQCR	1	09-AUG-2000	12:21:00	0216151	G24128	I6
53	DGWGQ	1	09-AUG-2000	12:26:00	0216151	G24128	I6
54	DGWGX	1	09-AUG-2000	12:31:00	0216151	G24128	I6
55	DGWH0	1	09-AUG-2000	12:36:00	0216151	G24128	I6
56	DGWH2	1	09-AUG-2000	12:41:00	0216151	G24128	I6
57	DGWH4	1	09-AUG-2000	12:46:00	0216151	G24128	I6
58	DGWH5	1	09-AUG-2000	12:51:00	0216151	G24128	I6
59	CRI	1	09-AUG-2000	12:59:00			I6
60	ICSA	1	09-AUG-2000	13:04:00			I6
61	ICSAB4.0	1	09-AUG-2000	13:09:00			I6
62	CCV	1	09-AUG-2000	13:14:00			I6
63	CCB	1	09-AUG-2000	13:19:00			I6
64	DGWH8	1	09-AUG-2000	13:24:00	0216151	G24128	I6
65	DGWHC	1	09-AUG-2000	13:29:00	0216151	G24128	I6
66	DGWGQ	2	09-AUG-2000	13:34:00	0216151	G24128	I6
67	CRI	1	09-AUG-2000	13:43:00			I6
68	ICSA	1	09-AUG-2000	13:48:00			I6
69	ICSAB4.0	1	09-AUG-2000	13:53:00			I6
70	CCV	1	09-AUG-2000	13:58:00			I6
71	CCB	1	09-AUG-2000	14:03:00			I6
72	CCV	1	09-AUG-2000	14:24:00			I6
73	CCB	1	09-AUG-2000	14:29:00			I6
74	PBW	1	09-AUG-2000	14:34:00			I6
75	LCSW	1	09-AUG-2000	14:39:00			I6
76	DGWJP	1	09-AUG-2000	14:46:00	0220385	G27185	I6
77	DGWKL	1	09-AUG-2000	14:51:00	0220385	G27185	I6
78	DH103	1	09-AUG-2000	14:56:00	0220385	G27185	I6
79	DH53N	1	09-AUG-2000	15:01:00	0220385	G27185	I6
80	PBS	1	09-AUG-2000	15:08:00			I6
81	LCSS	1	09-AUG-2000	15:13:00			I6
82	DGWJ7	1	09-AUG-2000	15:21:00	0220375	G27185	I6
83	DGWJF	1	09-AUG-2000	15:26:00	0220375	G27185	I6
84	CCV	1	09-AUG-2000	15:31:00			I6
85	CCB	1	09-AUG-2000	15:36:00			I6
86	DGWJK	1	09-AUG-2000	15:41:00	0220375	G27185	I6
87	DGWJM	1	09-AUG-2000	15:46:00	0220375	G27185	I6
88	DHOXL	1	09-AUG-2000	15:51:00	0220375	G27185	I6

(continued)

Instrument Upload

Started Thu Aug 10 06:51:42 2000 by COUNTSK

Data File: UPL\$CAN_DATA_ROOT:<TJA>I60809A.ARC;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	DH0XQ	1	09-AUG-2000	15:56:00	0220375	G27185	I6
90	DH0XT	1	09-AUG-2000	16:01:00	0220375	G27185	I6
91	DH0XV	1	09-AUG-2000	16:06:00	0220375	G27185	I6
92	DH0XW	1	09-AUG-2000	16:11:00	0220375	G27185	I6
93	CRI	1	09-AUG-2000	16:19:00			I6
94	ICSA	1	09-AUG-2000	16:24:00			I6
95	ICSAB4.0	1	09-AUG-2000	16:29:00			I6
96	CCV	1	09-AUG-2000	16:34:00			I6
97	CCB	1	09-AUG-2000	16:39:00			I6
98	DH101	1	09-AUG-2000	16:44:00	0220375	G27185	I6
99	DH52R	1	09-AUG-2000	16:51:00	0220375	G27185	I6
100	DH52RL	1	09-AUG-2000	16:56:00			I6
101	DH52RX	1	09-AUG-2000	17:01:00	0220375	G27185	I6
102	DH52RST	1	09-AUG-2000	17:06:00			I6
103	DH52RS	1	09-AUG-2000	17:11:00	0220375	G27185	I6
104	DH52V	1	09-AUG-2000	17:18:00	0220375	G27185	I6
105	DH52W	1	09-AUG-2000	17:23:00	0220375	G27185	I6
106	DH52X	1	09-AUG-2000	17:28:00	0220375	G27185	I6
107	DH536	1	09-AUG-2000	17:33:00	0220375	G27185	I6
108	CCV	1	09-AUG-2000	17:38:00			I6
109	CCB	1	09-AUG-2000	17:43:00			I6
110	DH53C	1	09-AUG-2000	17:48:00	0220375	G27185	I6
111	DH53F	1	09-AUG-2000	17:53:00	0220375	G27185	I6
112	DH53H	1	09-AUG-2000	17:58:00	0220375	G27185	I6
113	DH53M	1	09-AUG-2000	18:03:00	0220375	G27185	I6
114	LCSS	1	09-AUG-2000	18:08:00			I6
115	DH0XV	1	09-AUG-2000	18:14:00	0220375	G27185	I6
116	DH52RA	1	09-AUG-2000	18:20:00	0220375	G27185	I6
117	CRI	1	09-AUG-2000	18:28:00			I6
118	ICSA	1	09-AUG-2000	18:33:00			I6
119	ICSAB4.0	1	09-AUG-2000	18:38:00			I6
120	CCV	1	09-AUG-2000	18:43:00			I6
121	CCB	1	09-AUG-2000	18:48:00			I6
122	CCV	1	09-AUG-2000	19:26:00			I6
123	CCB	1	09-AUG-2000	19:31:00			I6
124	DH52W	1	09-AUG-2000	19:36:00	0220375	G27185	I6
125	CRI	1	09-AUG-2000	19:44:00			I6
126	ICSA	1	09-AUG-2000	19:49:00			I6
127	ICSAB4.0	1	09-AUG-2000	19:54:00			I6
128	CCV	1	09-AUG-2000	19:59:00			I6
129	CCB	1	09-AUG-2000	20:04:00			I6
130	CCV	1	09-AUG-2000	20:48:00			I6
131	CCB	1	09-AUG-2000	20:53:00			I6
132	ICSA	1	09-AUG-2000	21:50:00			I6

(continued)

→ Mg ✓
does not
bracket
samples
yup 10/8/00

 : Instrument Upload Run Log - Page 4 :
 : Started Thu Aug 10 06:51:42 2000 by COUNTSK :
 : Data File: UPL\$CAN_DATA_ROOT:<TJA>I60809A.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	ICSAB	1	09-AUG-2000	21:55:00			I6
134	CCV	1	09-AUG-2000	22:02:00			I6
135	CCB	1	09-AUG-2000	22:08:00			I6
136	DGQX5B	1	09-AUG-2000	22:13:00	0207373	A0G250000	I6
137	DG0VK	1	09-AUG-2000	22:18:00	0207373	MP018	I6
138	DGTPQ	5	09-AUG-2000	22:23:00	0217427	G26189	I6
139	DGTPT	2	09-AUG-2000	22:27:00	0217427	G26189	I6
140	DHDK5B	1	09-AUG-2000	22:34:00	0217357	A0H040000	I6
141	DHDK5C	1	09-AUG-2000	22:39:00	0217357	A0H040000	I6
142	DGTF7	1	09-AUG-2000	22:45:00	0217357	A0G260164	I6
143	DGTF7L	1	09-AUG-2000	22:50:00			I6
144	DGTJ4	10	09-AUG-2000	22:55:00	0217357	A0G260164	I6
145	DGTJ9	10	09-AUG-2000	23:00:00	0217357	A0G260164	I6
146	CCV	1	09-AUG-2000	23:06:00			I6
147	CCB	1	09-AUG-2000	23:13:00			I6
148	DGTHL	10	09-AUG-2000	23:18:00	0217357	A0G260164	I6
149	DGTJR	2	09-AUG-2000	23:23:00	0217357	A0G260164	I6
150	DGWEX	5	09-AUG-2000	23:27:00	0210109	A0G270197	I6
151	DH1H0P	5	09-AUG-2000	23:32:00	0221122	A0G280231	I6
152	DH61VB	1	09-AUG-2000	23:39:00			I6
153	DH61VC	1	09-AUG-2000	23:44:00			I6
154	DH2FV	10	09-AUG-2000	23:50:00	0215105	A0G290103	I6
155	DH2FX	10	09-AUG-2000	23:55:00	0215105	A0G290103	I6
156	DH2G0	10	10-AUG-2000	00:00:00	0215105	A0G290103	I6
157	DH2G1	10	10-AUG-2000	00:05:00	0215105	A0G290103	I6
158	CCV	1	10-AUG-2000	00:11:00			I6
159	CCB	1	10-AUG-2000	00:18:00			I6
160	DH2G5	10	10-AUG-2000	00:23:00	0215105	A0G290104	I6
161	DH2GC	5	10-AUG-2000	00:27:00	0215105	A0G290106	I6
162	ICSA	1	10-AUG-2000	00:35:00			I6
163	ICSAB	1	10-AUG-2000	00:39:00			I6
164	CCV	1	10-AUG-2000	00:46:00			I6
165	CCB	1	10-AUG-2000	00:53:00			I6
166	DH1M4BT	1	10-AUG-2000	00:57:00	0221282	A0H080000	I6
167	DH1M4CT	1	10-AUG-2000	01:02:00	0221282	A0H080000	I6
168	DH598TR	1	10-AUG-2000	01:09:00	0221282	A0H010164	I6
169	DH598TRL	1	10-AUG-2000	01:14:00			I6
170	DH598TS	1	10-AUG-2000	01:18:00	0220131	A0H010164	I6
171	DH598TD	1	10-AUG-2000	01:23:00	0220131	A0H010164	I6
172	DHJLWB	1	10-AUG-2000	01:30:00	0222107	A0H090000	I6
173	DHJLWC	1	10-AUG-2000	01:35:00	0222107	A0H090000	I6
174	DH3P4	1	10-AUG-2000	01:41:00	0222107	A0G310114	I6
175	DH3P4L	1	10-AUG-2000	01:46:00			I6
176	CCV	1	10-AUG-2000	01:53:00			I6

VOID
me
814-00

----- (continued) -----

Analysis Run Log CAAA

: Instrument Upload Run Log - Page 1 :
: Started Fri Jul 28 10:39:56 2000 by DIPOFIA :
: Data File: UPL\$CAN_DATA_ROOT:<LHG>HG10727B.PRN;1 :

Ag-41

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	27-JUL-2000	15:38:40			H1
2	STD2REP1	1	27-JUL-2000	15:39:48			H1
3	STD3REP1	1	27-JUL-2000	15:40:55			H1
4	STD4REP1	1	27-JUL-2000	15:42:15			H1
5	STD5REP1	1	27-JUL-2000	15:43:56			H1
6	STD6REP1	1	27-JUL-2000	15:45:32			H1
7	CK5ICV	1	27-JUL-2000	15:46:48			H1
8	CK4ICB	1	27-JUL-2000	15:48:19			H1
9	CK3CRA	1	27-JUL-2000	15:49:26			H1
10	CK2CCV	1	27-JUL-2000	15:50:44			H1
11	CK1CCB	1	27-JUL-2000	15:52:10			H1
12	DGQX5B	1	27-JUL-2000	15:53:26	0207373	A0G250000	H1
13	DGQX5C	5	27-JUL-2000	15:54:33	0207373	A0G250000	H1
14	DFWCA	1	27-JUL-2000	15:55:47	0207373	MP018	H1
15	DFWCD	1	27-JUL-2000	15:56:55	0207373	MP018	H1
16	DFWCE	1	27-JUL-2000	15:58:15	0207373	MP018	H1
17	CK2CCV	1	27-JUL-2000	15:59:52			H1
18	CK1CCB	1	27-JUL-2000	16:01:16			H1
19	DFWCF	1	27-JUL-2000	16:02:21	0207373	MP018	H1
20	DG0VA	1	27-JUL-2000	16:03:28	0207373	MP018	H1
21	DG0VF	1	27-JUL-2000	16:04:39	0207373	MP018	H1
22	DG0VH	1	27-JUL-2000	16:05:46	0207373	MP018	H1
23	DG0VK	1	27-JUL-2000	16:07:12	0207373	MP018	H1
24	DG2TN	1	27-JUL-2000	16:08:19	0207373	MP018	H1
25	DG2TNS	1	27-JUL-2000	16:09:24	0207373	MP018	H1
26	DG2TND	1	27-JUL-2000	16:11:04	0207373	MP018	H1
27	DG2VL	1	27-JUL-2000	16:12:10	0207373	MP018	H1
28	DG2VM	1	27-JUL-2000	16:13:25	0207373	MP018	H1
29	CK2CCV	1	27-JUL-2000	16:14:41			H1
30	CK1CCB	1	27-JUL-2000	16:16:01			H1
31	DG2VN	1	27-JUL-2000	16:17:21	0207373	MP018	H1
32	DG2VQ	1	27-JUL-2000	16:18:36	0207373	MP018	H1
33	DG4KV	1	27-JUL-2000	16:19:57	0207373	MP018	H1
34	DG4LE	1	27-JUL-2000	16:21:08	0207373	MP018	H1
35	DG4LH	1	27-JUL-2000	16:22:15	0207373	MP018	H1
36	DG4LK	1	27-JUL-2000	16:23:26	0207373	MP018	H1
37	DG4LN	1	27-JUL-2000	16:24:35	0207373	MP018	H1
38	DG4L8	1	27-JUL-2000	16:25:46	0207373	MP018	H1
39	DGQX5C	5	27-JUL-2000	16:26:51	0207373	A0G250000	H1
40	CK2CCV	1	27-JUL-2000	16:28:05			H1
41	CK1CCB	1	27-JUL-2000	16:29:23			H1

----- End of Report -----

BATCH NUMBER: 0207373

PREP DATE: 7/26/00
DUE DATE 7/28/00

INITIALS: LPM

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
A0G080139	DFWCA	50	X 1.00 g	X 0.60 g	_____g	_____g
SOLID	TO DUE DATE:		7/28/00			
A0G080139	DFWCD	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/28/00			
A0G080139	DFWCE	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/28/00			
A0G080139	DFWCF	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/28/00			
A0G110127	DGOVA	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/31/00			
A0G110127	DGOVF	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/31/00			
A0G110127	DGOVH	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/31/00			
A0G110127	DGOVK	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		7/31/00			
A0G120141	DG2TN	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/01/00			
	DG2TNS		_____g	_____g	_____g	_____g
	DG2TND		_____g	_____g	_____g	_____g
A0G120141	DG2VL	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/01/00			
A0G120141	DG2VM	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/01/00			
A0G120141	DG2VN	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/01/00			
A0G120141	DG2VQ	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/01/00			
A0G130119	DG4KV	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/02/00			

DO NOT
UPLOAD
Save 1 yr.
Client 375241
SDG-MP018

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 7/25/00
Time: 15:00:07

BATCH NUMBER: 0207373

PREP DATE: 7/26/00
DUE DATE 7/28/00

INITIALS: LM

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
A0G130119	DG4L8	50	X <u>1.00</u> g	X <u>0.60</u> g	_____g	_____g
SOLID	TO DUE DATE:		8/02/00			
A0G130119	DG4LE	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/02/00			
A0G130119	DG4LH	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/02/00			
A0G130119	DG4LK	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/02/00			
A0G130119	DG4LN	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/02/00			

A0G250000 DGQX5B 50 X _____g X _____g
 SOLID DUE DATE: 0/00/00

DGQX5C

LM 7-26-00

1.00 g
0.5

0.60 g LCSS Lot # 243 g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH

MS/MSD AND PDS ON BATCH

CURVE PREPPED FOR HG

CORRECT SPIKES ADDED

SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS:

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY LM

BATCH NUMBER: 0207373

PREP DATE: 7/26/00
DUE DATE 7/28/00

INITIALS: LPM

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KI MG MN NA NI PB SB SE SN TL VX

MS/MSD 1: ICP - 1 ICP - 2A GFAA HG ODD Ag

DG2TN

MS/MSD 2: ICP - 1 ICP - 2 GFAA HG ODD

MS/MSD 3: ICP - 1 ICP - 2 GFAA HG ODD

CHECK : ICP - 1 ICP - 2 GFAA ~~HG~~ ODD

DGAXS
CHECK DUP:

ICP - 1 ICP - 2 GFAA HG ODD

LPM 726.00

0.5g LCSS Lot #243
for ICP
0.6g LCSS Lot #243
for Hg

STANDARD NUMBERS _____ OG749 _____

Method: TOTAL Sample Name: DGOVK
 Run Time: 07/28/00 18:19:58
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: MJC

Elem	Ag	Al	As	B	Ba	Be	Ca
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-.7077	5470.	13.71	10.51	34.28	.1082	53630.
SDev	.4328	7.	.61	.92	.09	.0737	115.
%RSD	61.15	.1253	4.472	8.732	.2583	68.08	.2144
#1	-.4017	5465.	14.15	11.16	34.35	.1603	53710.
#2	-1.014	5475.	13.28	9.860	34.22	.0561	53550.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2000.	500000.	10000.	50000.	25000.	4000.	600000.
Low	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.
Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.5361	3.827	24.15	40.67	23760.	526.5	2017.
SDev	.0873	.136	.49	.10	10.	7.2	8.
%RSD	16.28	3.548	2.024	.2512	.0427	1.376	.4140
#1	.5978	3.923	24.50	40.60	23760.	531.6	2023.
#2	.4744	3.731	23.81	40.74	23770.	521.4	2011.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	50000.	50000.	30000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.
Elem	Mn	Mo	Na3302	Ni	Pb	Se	Sb
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	164.6	2.061	537.4	8.776	439.5	-.5679	1.642
SDev	.2	.089	63.4	.243	2.0	2.9054	1.132
%RSD	.1415	4.321	11.79	2.774	.4535	511.6	68.95
#1	164.8	1.998	582.2	8.948	440.9	-2.622	2.443
#2	164.4	2.124	492.6	8.604	438.1	1.487	.8415
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.
Elem	Sn	Tl	V	Zn	2203/1	2203/2	2068/2
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	960.8	-1.401	24.20	89.08	445.2	436.6	2.143
SDev	2.6	.513	.26	.70	.7	3.3	.198
%RSD	.2751	36.60	1.056	.7821	.1611	.7665	9.228
#1	958.9	-1.039	24.38	89.57	444.7	439.0	2.283
#2	962.6	-1.764	24.01	88.59	445.7	434.3	2.004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	25000.	20000.	50000.	10000.			
Low	-1000.	-1000.	-1000.	-1000.			

Elem 2068/1 1960/1 1960/2
 STE North Canton

CLIENT	Mayport	JOB NUMBER		
SUBJECT	Sample Calculation			
BASED ON	MPT-G4-SU-44-04	DRAWING NUMBER		
BY	yap	CHECKED BY	APPROVED BY	DATE

lead 48.9 mg/kg

$$\frac{439.5 \mu\text{g}}{\text{L}} \times \frac{1 \text{ L}}{1000 \text{ mL}} \times \frac{100 \text{ mL}}{1 \text{ g}} \times \frac{1000 \text{ g}}{1 \text{ Kg}} \times \frac{1 \text{ mg}}{1000 \mu\text{g}} \times 0.899 =$$

48.9 mg/kg

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 7/19/00
Time: 35:07

*
* QC BATCH: 0199321 *
*

PREP DATE: 7/18/00
COMP DATE: 7/18/00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH*S			SOLVENTS		VOL	SPIKE STANDARD/ SURROGATE ID
								INIT	ADJ1	ADJ2	EXTRACTION	VOL EXCHANGE		
7/27/00 COMMENTS:	0/00/00	A0G170000-321 DGC40-1-01B		13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/27/00 COMMENTS:	0/00/00	A0G170000-321 DGC40-1-02C		13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SPIKE #89303 0.5ML SUP #90291
7/28/00 COMMENTS:	8/04/00	A0G150133-001 DG9LJ-1-0W	D	13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/28/00 COMMENTS:	8/04/00	A0G150133-002 DG9LQ-1-0W	D	13	QL	SOLID	30.03g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/28/00 COMMENTS:	8/04/00	A0G150133-003 DG9LR-1-0W DECANT H2O	D	13	QL	SOLID	30.15g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/28/00 COMMENTS:	8/04/00	A0G150133-004 DG9LT-1-0W	D	13	QL	SOLID	30.12g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/28/00 COMMENTS:	8/04/00	A0G150133-005 DG9LV-1-0W	D	13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/28/00 COMMENTS:	8/04/00	A0G150133-006 DG9LW-1-0W	D	13	QL	SOLID	30.15g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/27/00 COMMENTS:	8/04/00	A0G150130-001 DG9L0-1-0W	D	13	QL	SOLID	30.15g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
7/27/00 COMMENTS:	8/04/00	A0G150130-001 DG9L0-1-0XS	D	13	QL	SOLID	30.14g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SPIKE #89303 0.5ML SUP #90291

MEMO TO: T. HANSEN – PAGE 3

DATE: 12/11/00

An initial calibration %RSD exceeded the 30% (but < 50%) quality control limit for hexachlorocyclopentadiene on instrument A4HP6, on 7/25/00. Only nondetected results were reported for hexachlorocyclopentadiene, therefore, no action was taken based on this noncompliance.

A continuing calibration verification %D exceeded the 25% quality control limit for 1,3,5-trinitrobenzene on instrument A4HP6, on 7/24/00. Only nondetected results were reported for 1,3,5-trinitrobenzene and these were qualified as estimated (UJ) in samples MPT-G4-SU-58-05, MPT-G4-SU-59-05, MPT-G4-SU-61-05, MPT-G4-SU-62-05, MPT-G4-SU-63-05, MPT-G4-SU-64-05, MPT-G4-SU-65-05, MPT-G4-SU-DU04 and MPT-G4-SU-DU05.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on instrument A4HP6, on 7/25/00. Only nondetected results were reported for 4-nitroquinoline-1-oxide and these were rejected (UR) in samples MPT-G4-SU-56-05, MPT-G4-SU-57-03, MPT-G4-SU-60-05 and MPT-G4-SU-DU03.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 4-nitroquinoline-1-oxide, 1,3,5-trinitrobenzene and 2-naphthylamine. Nondetected results were reported for 1,3,5-trinitrobenzene and 2-naphthylamine and these were qualified as estimated (UJ) in samples MPT-G4-SU-56-05, MPT-G4-SU-57-03, MPT-G4-SU-60-05 and MPT-G4-SU-DU03.

Additional Comments

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

The laboratory did perform an MS / MSD analysis, however, the sample was not relevant to this SDG.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Volatile LCS % recovery of acetone exceeded quality control limits on instrument A3UX9. Acetone and methylene chloride were detected in laboratory method blanks. Initial and continuing calibration noncompliances were noted affecting both volatile and semivolatile analysis.

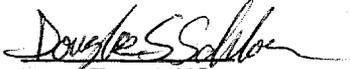
Other Factors Affecting Data Quality: None

MEMO TO: T. HANSEN – PAGE 4

DATE: 12/11/00

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator



TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

FIELD DUPLICATES MP021											
FRACTION	COMPOUND	MPT-G4-SU-59-05 RESULT (ug/kg)	MPT-G4-SU-DU03 RESULT (ug/kg)	RPD	MPT-G4-SU-63-05	MPT-G4-SU-DU04	RPD	MPT-G4-SU-65-05	MPT-G4-SU-DU05	RPD	
Volatile	acetone	7.6 J	3.5 J	73.9	3.2 J	3.4 J	-6.1	6.2 J	6.5 J	-4.7	
	carbon disulfide	3.3 J	ND	NC							
	methylene chloride				1.6 J	1.7 J	-6.1	6.8 J	1.6 J	123.8	
Semivolatile											
ND - Compound not detected.											
NC - RPD not calculated.											

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

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APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-56-05	MPT-G4-SU-57-03	MPT-G4-SU-58-05	MPT-G4-SU-59-05
SAMPLE DATE:	07/13/00	07/13/00	07/13/00	07/13/00
LABORATORY ID:	A0G150130001	A0G150130002	A0G150130003	A0G150130004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	86.0 %	85.0 %	84.0 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,1,1-TRICHLOROETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,1,2,2-TETRACHLOROETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,1,2-TRICHLOROETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,1-DICHLOROETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,1-DICHLOROETHENE	5.4	U		0.86	J	P	5.6	U		5.4	U	
1,2,3-TRICHLOROPROPANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,2-DIBROMO-3-CHLOROPROPANE	11	U										
1,2-DIBROMOETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,2-DICHLOROETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
1,2-DICHLOROETHENE (TOTAL)	5.4	U		5.7	U		5.6	U		5.4	U	
1,2-DICHLOROPROPANE	5.4	U		5.7	U		5.6	U		5.4	U	
2-BUTANONE	22	U		23	U		23	U		21	U	
2-CHLOROETHYL VINYL ETHER	54	U		57	U		56	U		54	U	
2-HEXANONE	22	U		23	U		23	U		21	U	
4-METHYL-2-PENTANONE	22	U		23	U		23	U		21	U	
ACETONE	22	U	A	23	U	A	23	U	A	21	U	A
ACETONITRILE	110	U		110	U		110	U		110	U	
ACROLEIN	110	U		110	U		110	U		110	U	
ACRYLONITRILE	110	U		110	U		110	U		110	U	
ALLYL CHLORIDE	11	U		11	U		11	U		11	U	
BENZENE	5.4	U		5.7	U		5.6	U		5.4	U	
BROMODICHLOROMETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
BROMOFORM	5.4	U		5.7	U		5.6	U		5.4	U	
BROMOMETHANE	11	U		11	U		11	U		11	U	
CARBON DISULFIDE	1.6	J	P	5.7	U		5.6	U		3.3	J	P
CARBON TETRACHLORIDE	5.4	U		5.7	U		5.6	U		5.4	U	
CHLOROBENZENE	5.4	U		5.7	U		5.6	U		5.4	U	
CHLOROETHANE	11	U		11	U		11	U		11	U	
CHLOROFORM	5.4	U		5.7	U		5.6	U		5.4	U	
CHLOROMETHANE	11	U		11	U		11	U		11	U	
CHLOROPRENE	5.4	U		5.7	U		5.6	U		5.4	U	
CIS-1,2-DICHLOROETHENE	2.7	U		2.8	U		2.8	U		2.7	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-56-05	MPT-G4-SU-57-03	MPT-G4-SU-58-05	MPT-G4-SU-59-05
SAMPLE DATE:	07/13/00	07/13/00	07/13/00	07/13/00
LABORATORY ID:	A0G150130001	A0G150130002	A0G150130003	A0G150130004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	86.0 %	85.0 %	84.0 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.4	U		5.7	U		5.6	U		5.4	U	
DIBROMOCHLOROMETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
DIBROMOMETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
DICHLORODIFLUOROMETHANE	11	U		11	U		11	U		11	U	
ETHYL METHACRYLATE	5.4	U		5.7	U		5.6	U		5.4	U	
ETHYLBENZENE	5.4	U		5.7	U		5.6	U		5.4	U	
IODOMETHANE	5.4	U		5.7	U		5.6	U		5.4	U	
ISOBUTYL ALCOHOL	220	UR	C	230	UR	C	230	UR	C	210	UR	C
METHACRYLONITRILE	5.4	U		5.7	U		5.6	U		5.4	U	
METHYL METHACRYLATE	5.4	U		5.7	U		5.6	U		5.4	U	
METHYL TERT-BUTYL ETHER	22	U		23	U		23	U		21	U	
METHYLENE CHLORIDE	5.4	U		5.7	U		5.6	U		5.4	U	
PROPIONITRILE	22	UJ	C	23	UJ	C	23	UJ	C	21	UJ	C
STYRENE	5.4	U		5.7	U		5.6	U		5.4	U	
TETRACHLOROETHENE	5.4	U		5.7	U		5.6	U		5.4	U	
TOLUENE	5.4	U		5.7	U		5.6	U		5.4	U	
TRANS-1,2-DICHLOROETHENE	2.7	U		2.8	U		2.8	U		2.7	U	
TRANS-1,3-DICHLOROPROPENE	5.4	U		5.7	U		5.6	U		5.4	U	
TRANS-1,4-DICHLORO-2-BUTENE	5.4	U		5.7	U		5.6	U		5.4	U	
TRICHLOROETHENE	5.4	U		5.7	U		5.6	U		5.4	U	
TRICHLOROFLUOROMETHANE	11	U		11	U		11	U		11	U	
VINYL ACETATE	11	U		11	U		11	U		11	U	
VINYL CHLORIDE	11	U		11	U		11	U		11	U	
XYLENES, TOTAL	5.4	U		5.7	U		5.6	U		5.4	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP021**

SAMPLE NUMBER:	MPT-G4-SU-60-05	MPT-G4-SU-61-05	MPT-G4-SU-62-05	MPT-G4-SU-63-05
SAMPLE DATE:	07/13/00	07/13/00	07/14/00	07/14/00
LABORATORY ID:	A0G150130005	A0G150130006	A0G150133001	A0G150133002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	81.0 %	72.0 %	92.8 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,1,1-TRICHLOROETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,1,2,2-TETRACHLOROETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,1,2-TRICHLOROETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,1-DICHLOROETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,1-DICHLOROETHENE	6.2	U		7.1	U		5.3	U		5.4	U	
1,2,3-TRICHLOROPROPANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,2-DIBROMO-3-CHLOROPROPANE	12	U		14	U		11	U		11	U	
1,2-DIBROMOETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,2-DICHLOROETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
1,2-DICHLOROETHENE (TOTAL)	6.2	U		7.1	U		5.3	U		5.4	U	
1,2-DICHLOROPROPANE	6.2	U		7.1	U		5.3	U		5.4	U	
2-BUTANONE	25	U		28	U		21	U		22	U	
2-CHLOROETHYL VINYL ETHER	62	U		71	U		53	U		54	U	
2-HEXANONE	25	U		28	U		21	U		22	U	
4-METHYL-2-PENTANONE	25	U		28	U		21	U		22	U	
ACETONE	25	U	A	28	U	A	21	U	A	22	U	A
ACETONITRILE	120	U		140	U		110	U		110	U	
ACROLEIN	120	U		140	U		110	U		110	U	
ACRYLONITRILE	120	U		140	U		110	U		110	U	
ALLYL CHLORIDE	12	U		14	U		11	U		11	U	
BENZENE	6.2	U		7.1	U		5.3	U		5.4	U	
BROMODICHLOROMETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
BROMOFORM	6.2	U		7.1	U		5.3	U		5.4	U	
BROMOMETHANE	12	U		14	U		11	U		11	U	
CARBON DISULFIDE	6.2	U		7.1	U		5.3	U		5.4	U	
CARBON TETRACHLORIDE	6.2	U		7.1	U		5.3	U		5.4	U	
CHLOROBENZENE	6.2	U		7.1	U		5.3	U		5.4	U	
CHLOROETHANE	12	U		14	U		11	U		11	U	
CHLOROFORM	6.2	U		7.1	U		5.3	U		5.4	U	
CHLOROMETHANE	12	U		14	U		11	U		11	U	
CHLOROPRENE	6.2	U		7.1	U		5.3	U		5.4	U	
CIS-1,2-DICHLOROETHENE	3.1	U		3.5	U		2.6	U		2.7	U	

CTO091-NS MAYPORT

SOIL DATA
 QUANTERRA
 SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-60-05	MPT-G4-SU-61-05	MPT-G4-SU-62-05	MPT-G4-SU-63-05
SAMPLE DATE:	07/13/00	07/13/00	07/14/00	07/14/00
LABORATORY ID:	A0G150130005	A0G150130006	A0G150133001	A0G150133002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	81.0 %	72.0 %	92.8 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	6.2	U		7.1	U		5.3	U		5.4	U	
DIBROMOCHLOROMETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
DIBROMOMETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
DICHLORODIFLUOROMETHANE	12	U		14	U		11	U		11	U	
ETHYL METHACRYLATE	6.2	U		7.1	U		5.3	U		5.4	U	
ETHYLBENZENE	6.2	U		7.1	U		5.3	U		5.4	U	
IODOMETHANE	6.2	U		7.1	U		5.3	U		5.4	U	
ISOBUTYL ALCOHOL	250	UR	C	280	UR	C	210	UR	C	220	UR	C
METHACRYLONITRILE	6.2	U		7.1	U		5.3	U		5.4	U	
METHYL METHACRYLATE	6.2	U		7.1	U		5.3	U		5.4	U	
METHYL TERT-BUTYL ETHER	25	U		28	U		21	U		22	U	
METHYLENE CHLORIDE	6.2	U		7.1	U		5.3	U	A	5.4	U	A
PROPIONITRILE	25	UJ	C	28	UJ	C	21	UJ	C	22	UJ	C
STYRENE	6.2	U		7.1	U		5.3	U		5.4	U	
TETRACHLOROETHENE	6.2	U		7.1	U		5.3	U		5.4	U	
TOLUENE	6.2	U		7.1	U		5.3	U		5.4	U	
TRANS-1,2-DICHLOROETHENE	3.1	U		3.5	U		2.6	U		2.7	U	
TRANS-1,3-DICHLOROPROPENE	6.2	U		7.1	U		5.3	U		5.4	U	
TRANS-1,4-DICHLORO-2-BUTENE	6.2	U		7.1	U		5.3	U		5.4	U	
TRICHLOROETHENE	6.2	U		7.1	U		5.3	U		5.4	U	
TRICHLOROFLUOROMETHANE	12	U		14	U		11	U		11	U	
VINYL ACETATE	12	U		14	U		11	U		11	U	
VINYL CHLORIDE	12	U		14	U		11	U		11	U	
XYLENES, TOTAL	6.2	U		7.1	U		5.3	U		5.4	U	

CT091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-64-05	MPT-G4-SU-65-05	MPT-G4-SU-DU03	MPT-G4-SU-DU04
SAMPLE DATE:	07/14/00	07/14/00	07/13/00	07/14/00
LABORATORY ID:	A0G150133003	A0G150133004	A0G150130007	A0G150133005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	80.0 %	88.0 %	91.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:			MPT-G4-SU-59-05	MPT-G4-SU-63-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,1,1-TRICHLOROETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,1,2,2-TETRACHLOROETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,1,2-TRICHLOROETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,1-DICHLOROETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,1-DICHLOROETHENE	6.3	U		6.8	U		6.1	U		5.7	U	
1,2,3-TRICHLOROPROPANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,2-DIBROMO-3-CHLOROPROPANE	13	U		14	U		12	U		11	U	
1,2-DIBROMOETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,2-DICHLOROETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
1,2-DICHLOROETHENE (TOTAL)	6.3	U		6.8	U		6.1	U		5.7	U	
1,2-DICHLOROPROPANE	6.3	U		6.8	U		6.1	U		5.7	U	
2-BUTANONE	25	U		27	U		24	U		23	U	
2-CHLOROETHYL VINYL ETHER	63	U		68	U		61	U		57	U	
2-HEXANONE	25	U		27	U		24	U		23	U	
4-METHYL-2-PENTANONE	25	U		27	U		24	U		23	U	
ACETONE	25	U	A	27	U	A	24	U	A	23	U	A
ACETONITRILE	130	U		140	U		120	U		110	U	
ACROLEIN	130	U		140	U		120	U		110	U	
ACRYLONITRILE	130	U		140	U		120	U		110	U	
ALLYL CHLORIDE	13	U		14	U		12	U		11	U	
BENZENE	6.3	U		6.8	U		6.1	U		5.7	U	
BROMODICHLOROMETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
BROMOFORM	6.3	U		6.8	U		6.1	U		5.7	U	
BROMOMETHANE	13	U		14	U		12	U		11	U	
CARBON DISULFIDE	6.3	U		6.8	U		6.1	U		5.7	U	
CARBON TETRACHLORIDE	6.3	U		6.8	U		6.1	U		5.7	U	
CHLOROBENZENE	6.3	U		6.8	U		6.1	U		5.7	U	
CHLOROETHANE	13	U		14	U		12	U		11	U	
CHLOROFORM	6.3	U		6.8	U		6.1	U		5.7	U	
CHLOROMETHANE	13	U		14	U		12	U		11	U	
CHLOROPRENE	6.3	U		6.8	U		6.1	U		5.7	U	
CIS-1,2-DICHLOROETHENE	3.1	U		3.4	U		3	U		2.8	U	

**CTO091-NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP021**

SAMPLE NUMBER:	MPT-G4-SU-64-05	MPT-G4-SU-65-05	MPT-G4-SU-DU03	MPT-G4-SU-DU04
SAMPLE DATE:	07/14/00	07/14/00	07/13/00	07/14/00
LABORATORY ID:	A0G150133003	A0G150133004	A0G150130007	A0G150133005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	80.0 %	88.0 %	91.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:			MPT-G4-SU-59-05	MPT-G4-SU-63-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	6.3	U		6.8	U		6.1	U		5.7	U	
DIBROMOCHLOROMETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
DIBROMOMETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
DICHLORODIFLUOROMETHANE	13	U		14	U		12	U		11	U	
ETHYL METHACRYLATE	6.3	U		6.8	U		6.1	U		5.7	U	
ETHYLBENZENE	6.3	U		6.8	U		6.1	U		5.7	U	
IODOMETHANE	6.3	U		6.8	U		6.1	U		5.7	U	
ISOBUTYL ALCOHOL	250	UR	C	270	UR	C	240	UR	C	230	UR	C
METHACRYLONITRILE	6.3	U		6.8	U		6.1	U		5.7	U	
METHYL METHACRYLATE	6.3	U		6.8	U		6.1	U		5.7	U	
METHYL TERT-BUTYL ETHER	25	U		27	U		24	U		23	U	
METHYLENE CHLORIDE	6.3	U		6.8	U	A	6.1	U		5.7	U	A
PROPIONITRILE	25	UJ	C	27	UJ	C	24	UJ	C	23	UJ	C
STYRENE	6.3	U		6.8	U		6.1	U		5.7	U	
TETRACHLOROETHENE	6.3	U		6.8	U		6.1	U		5.7	U	
TOLUENE	6.3	U		6.8	U		6.1	U		5.7	U	
TRANS-1,2-DICHLOROETHENE	3.1	U		3.4	U		3	U		2.8	U	
TRANS-1,3-DICHLOROPROPENE	6.3	U		6.8	U		6.1	U		5.7	U	
TRANS-1,4-DICHLORO-2-BUTENE	6.3	U		6.8	U		6.1	U		5.7	U	
TRICHLOROETHENE	6.3	U		6.8	U		6.1	U		5.7	U	
TRICHLOROFLUOROMETHANE	13	U		14	U		12	U		11	U	
VINYL ACETATE	13	U		14	U		12	U		11	U	
VINYL CHLORIDE	13	U		14	U		12	U		11	U	
XYLENES, TOTAL	6.3	U		6.8	U		6.1	U		5.7	U	

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP021

SAMPLE NUMBER: MPT-G4-SU-DU05
 SAMPLE DATE: 07/14/00
 LABORATORY ID: A0G150133006
 QC_TYPE: NORMAL
 % SOLIDS: 81.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF: MPT-G4-SU-65-05

//

//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	5.9	U										
1,1,1-TRICHLOROETHANE	5.9	U										
1,1,2,2-TETRACHLOROETHANE	5.9	U										
1,1,2-TRICHLOROETHANE	5.9	U										
1,1-DICHLOROETHANE	5.9	U										
1,1-DICHLOROETHENE	5.9	U										
1,2,3-TRICHLOROPROPANE	5.9	U										
1,2-DIBROMO-3-CHLOROPROPANE	12	U										
1,2-DIBROMOETHANE	5.9	U										
1,2-DICHLOROETHANE	5.9	U										
1,2-DICHLOROETHENE (TOTAL)	5.9	U										
1,2-DICHLOROPROPANE	5.9	U										
2-BUTANONE	24	U										
2-CHLOROETHYL VINYL ETHER	59	U										
2-HEXANONE	24	U										
4-METHYL-2-PENTANONE	24	U										
ACETONE	24	U	A									
ACETONITRILE	120	U										
ACROLEIN	120	U										
ACRYLONITRILE	120	U										
ALLYL CHLORIDE	12	U										
BENZENE	5.9	U										
BROMODICHLOROMETHANE	5.9	U										
BROMOFORM	5.9	U										
BROMOMETHANE	12	U										
CARBON DISULFIDE	5.9	U										
CARBON TETRACHLORIDE	5.9	U										
CHLOROBENZENE	5.9	U										
CHLOROETHANE	12	U										
CHLOROFORM	5.9	U										
CHLOROMETHANE	12	U										
CHLOROPRENE	5.9	U										
CIS-1,2-DICHLOROETHENE	3	U										

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP021

SAMPLE NUMBER: MPT-G4-SU-DU05
 SAMPLE DATE: 07/14/00
 LABORATORY ID: AOG150133006
 QC_TYPE: NORMAL
 % SOLIDS: 81.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF: MPT-G4-SU-65-05

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	5.9	U										
DIBROMOCHLOROMETHANE	5.9	U										
DIBROMOMETHANE	5.9	U										
DICHLORODIFLUOROMETHANE	12	U										
ETHYL METHACRYLATE	5.9	U										
ETHYLBENZENE	5.9	U										
IODOMETHANE	5.9	U										
ISOBUTYL ALCOHOL	240	UR	C									
METHACRYLONITRILE	5.9	U										
METHYL METHACRYLATE	5.9	U										
METHYL TERT-BUTYL ETHER	24	U										
METHYLENE CHLORIDE	5.9	U	A									
PROPIONITRILE	24	UJ	C									
STYRENE	5.9	U										
TETRACHLOROETHENE	5.9	U										
TOLUENE	5.9	U										
TRANS-1,2-DICHLOROETHENE	3	U										
TRANS-1,3-DICHLOROPROPENE	5.9	U										
TRANS-1,4-DICHLORO-2-BUTENE	5.9	U										
TRICHLOROETHENE	5.9	U										
TRICHLOROFLUOROMETHANE	12	U										
VINYL ACETATE	12	U										
VINYL CHLORIDE	12	U										
XYLENES, TOTAL	5.9	U										

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:

MPT-G4-SU-56-05

MPT-G4-SU-57-03

MPT-G4-SU-58-05

MPT-G4-SU-59-05

SAMPLE DATE:

07/13/00

07/13/00

07/13/00

07/13/00

LABORATORY ID:

A0G150130001

A0G150130002

A0G150130003

A0G150130004

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

86.0 %

85.0 %

84.0 %

90.0 %

UNITS:

UG/KG

UG/KG

UG/KG

UG/KG

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	380	U		390	U		390	U		370	U	
1,2,4-TRICHLOROENZENE	380	U		390	U		390	U		370	U	
1,2-DICHLOROENZENE	380	U		390	U		390	U		370	U	
1,3,5-TRINITROENZENE	1900	UJ	C	1900	UJ	C	1900	UJ	C	1800	UJ	C
1,3-DICHLOROENZENE	380	U		390	U		390	U		370	U	
1,3-DINITROENZENE	380	U		390	U		390	U		370	U	
1,4-DICHLOROENZENE	380	U		390	U		390	U		370	U	
1,4-DIOXANE	380	U		390	U		390	U		370	U	
1,4-NAPHTHOQUINONE	1900	U		1900	U		1900	U		1800	U	
1-NAPHTHYLAMINE	380	U		390	U		390	U		370	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	380	U		390	U		390	U		370	U	
2,3,4,6-TETRACHLOROPHENOL	1900	U		1900	U		1900	U		1800	U	
2,4,5-TRICHLOROPHENOL	380	U		390	U		390	U		370	U	
2,4,6-TRICHLOROPHENOL	380	U		390	U		390	U		370	U	
2,4-DICHLOROPHENOL	380	U		390	U		390	U		370	U	
2,4-DIMETHYLPHENOL	380	U		390	U		390	U		370	U	
2,4-DINITROPHENOL	1900	U		1900	U		1900	U		1800	U	
2,4-DINITROTOLUENE	380	U		390	U		390	U		370	U	
2,6-DICHLOROPHENOL	380	U		390	U		390	U		370	U	
2,6-DINITROTOLUENE	380	U		390	U		390	U		370	U	
2-ACETYLAMINOFLUORENE	3800	U		3900	U		3900	U		3700	U	
2-CHLORONAPHTHALENE	380	U		390	U		390	U		370	U	
2-CHLOROPHENOL	380	U		390	U		390	U		370	U	
2-METHYLNAPHTHALENE	380	U		390	U		390	U		370	U	
2-METHYLPHENOL	380	U		390	U		390	U		370	U	
2-NAPHTHYLAMINE	380	UJ	C	390	UJ	C	390	U		370	U	
2-NITROANILINE	1900	U		1900	U		1900	U		1800	U	
2-NITROPHENOL	380	U		390	U		390	U		370	U	
2-PICOLINE	770	U		780	U		780	U		740	U	
3,3'-DICHLOROBENZIDINE	1900	U		1900	U		1900	U		1800	U	
3,3'-DIMETHYLBENZIDINE	1900	U		1900	U		1900	U		1800	U	
3-METHYLCHOLANTHRENE	770	U		780	U		780	U		740	U	
3-METHYLPHENOL	380	U		390	U		390	U		370	U	

CONTENTS MATPORT
SOIL DATA
QUANTERRA
SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-56-05	MPT-G4-SU-57-03	MPT-G4-SU-58-05	MPT-G4-SU-59-05
SAMPLE DATE:	07/13/00	07/13/00	07/13/00	07/13/00
LABORATORY ID:	A0G150130001	A0G150130002	A0G150130003	A0G150130004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	86.0 %	85.0 %	84.0 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	1900	U		1900	U		1900	U		1800	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U		1900	U		1900	U		1800	U	
4-AMINOBIHENYL	1900	U		1900	U		1900	U		1800	U	
4-BROMOPHENYL PHENYL ETHER	380	U		390	U		390	U		370	U	
4-CHLORO-3-METHYLPHENOL	380	U		390	U		390	U		370	U	
4-CHLOROANILINE	380	U		390	U		390	U		370	U	
4-CHLOROPHENYL PHENYL ETHER	380	U		390	U		390	U		370	U	
4-METHYLPHENOL	380	U		390	U		390	U		370	U	
4-NITROANILINE	1900	U		1900	U		1900	U		1800	U	
4-NITROPHENOL	1900	U		1900	U		1900	U		1800	U	
4-NITROQUINOLINE-1-OXIDE	3800	UR	C	3900	UR	C	3900	UR	C	3700	UR	C
5-NITRO-O-TOLUIDINE	770	U		780	U		780	U		740	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	770	U		780	U		780	U		740	U	
A,A-DIMETHYLPHENETHYLAMINE	1900	U		1900	U		1900	U		1800	U	
ACENAPHTHENE	380	U		390	U		390	U		370	U	
ACENAPHTHYLENE	380	U		390	U		390	U		370	U	
ACETOPHENONE	380	U		390	U		390	U		370	U	
ANILINE	380	U		390	U		390	U		370	U	
ANTHRACENE	380	U		390	U		390	U		370	U	
ARAMITE	770	U		780	U		780	U		740	U	
BENZO(A)ANTHRACENE	380	U		390	U		390	U		370	U	
BENZO(A)PYRENE	380	U		390	U		390	U		370	U	
BENZO(B)FLUORANTHENE	380	U		390	U		390	U		370	U	
BENZO(G,H,I)PERYLENE	380	U		390	U		390	U		370	U	
BENZO(K)FLUORANTHENE	380	U		390	U		390	U		370	U	
BENZYL ALCOHOL	380	U		390	U		390	U		370	U	
BIS(2-CHLOROETHOXY)METHANE	380	U		390	U		390	U		370	U	
BIS(2-CHLOROETHYL)ETHER	380	U		390	U		390	U		370	U	
BIS(2-ETHYLHEXYL)PHTHALATE	380	U		390	U		390	U		370	U	
BUTYLBENZYL PHTHALATE	380	U		390	U		390	U		370	U	
CARBAZOLE	380	U		390	U		390	U		370	U	
CHLOROBENZILATE	380	U		390	U		390	U		370	U	
CHRYSENE	380	U		390	U		390	U		370	U	

SOIL DATA
QUANTERRA
SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-56-05	MPT-G4-SU-57-03	MPT-G4-SU-58-05	MPT-G4-SU-59-05
SAMPLE DATE:	07/13/00	07/13/00	07/13/00	07/13/00
LABORATORY ID:	A0G150130001	A0G150130002	A0G150130003	A0G150130004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	86.0 %	85.0 %	84.0 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	380	U		390	U		390	U		370	U	
DI-N-OCTYL PHTHALATE	380	U		390	U		390	U		370	U	
DIALATE	770	U		780	U		780	U		740	U	
DIBENZO(A,H)ANTHRACENE	380	U		390	U		390	U		370	U	
DIBENZOFURAN	380	U		390	U		390	U		370	U	
DIETHYL PHTHALATE	380	U		390	U		390	U		370	U	
DIMETHYL PHTHALATE	380	U		390	U		390	U		370	U	
DINOSEB	770	U		780	U		780	U		740	U	
DIPHENYLAMINE	380	U		390	U		390	U		370	U	
ETHYL METHANESULFONATE	380	U		390	U		390	U		370	U	
FLUORANTHENE	380	U		390	U		390	U		370	U	
FLUORENE	380	U		390	U		390	U		370	U	
HEXACHLOROBENZENE	380	U		390	U		390	U		370	U	
HEXACHLOROBUTADIENE	380	U		390	U		390	U		370	U	
HEXACHLOROCYCLOPENTADIENE	1900	U		1900	U		1900	U		1800	U	
HEXACHLOROETHANE	380	U		390	U		390	U		370	U	
HEXACHLOROPROPENE	3800	U		3900	U		3900	U		3700	U	
INDENO(1,2,3-CD)PYRENE	380	U		390	U		390	U		370	U	
ISOPHORONE	380	U		390	U		390	U		370	U	
ISOSAFROLE	770	U		780	U		780	U		740	U	
METHAPYRILENE	1900	U		1900	U		1900	U		1800	U	
METHYL METHANESULFONATE	380	U		390	U		390	U		370	U	
N-NITROSO-DI-N-BUTYLAMINE	380	U		390	U		390	U		370	U	
N-NITROSO-DI-N-PROPYLAMINE	380	U		390	U		390	U		370	U	
N-NITROSODIETHYLAMINE	380	U		390	U		390	U		370	U	
N-NITROSODIMETHYLAMINE	380	U		390	U		390	U		370	U	
N-NITROSODIPHENYLAMINE	380	U		390	U		390	U		370	U	
N-NITROSOMETHYLETHYLAMINE	380	U		390	U		390	U		370	U	
N-NITROSOMORPHOLINE	380	U		390	U		390	U		370	U	
N-NITROSOPIPERIDINE	380	U		390	U		390	U		370	U	
N-NITROSOPYRROLIDINE	380	U		390	U		390	U		370	U	
NAPHTHALENE	380	U		390	U		390	U		370	U	
NITROBENZENE	380	U		390	U		390	U		370	U	

CTO091-NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-56-05	MPT-G4-SU-57-03	MPT-G4-SU-58-05	MPT-G4-SU-59-05
SAMPLE DATE:	07/13/00	07/13/00	07/13/00	07/13/00
LABORATORY ID:	A0G150130001	A0G150130002	A0G150130003	A0G150130004
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	86.0 %	85.0 %	84.0 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	770	U		780	U		780	U		740	U	
P-DIMETHYLAMINOAZOBENZENE	770	U		780	U		780	U		740	U	
P-PHENYLENEDIAMINE	3800	U		3900	U		3900	U		3700	U	
PENTACHLOROBENZENE	380	U		390	U		390	U		370	U	
PENTACHLOROETHANE	1900	U		1900	U		1900	U		1800	U	
PENTACHLORONITROBENZENE	1900	U		1900	U		1900	U		1800	U	
PENTACHLOROPHENOL	1900	U		1900	U		1900	U		1800	U	
PHENACETIN	770	U		780	U		780	U		740	U	
PHENANTHRENE	380	U		390	U		390	U		370	U	
PHENOL	380	U		390	U		390	U		370	U	
PRONAMIDE	770	U		780	U		780	U		740	U	
PYRENE	380	U		390	U		390	U		370	U	
PYRIDINE	770	U		780	U		780	U		740	U	
SAFROLE	770	U		780	U		780	U		740	U	

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 UNITS:
 FIELD DUPLICATE OF:

MPT-G4-SU-60-05
 07/13/00
 A0G150130005
 NORMAL
 81.0 %
 UG/KG

MPT-G4-SU-61-05
 07/13/00
 A0G150130006
 NORMAL
 72.0 %
 UG/KG

MPT-G4-SU-62-05
 07/14/00
 A0G150133001
 NORMAL
 92.8 %
 UG/KG

MPT-G4-SU-63-05
 07/14/00
 A0G150133002
 NORMAL
 90.0 %
 UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	410	U		460	U		360	U		370	U	
1,2,4-TRICHLORO BENZENE	410	U		460	U		360	U		370	U	
1,2-DICHLORO BENZENE	410	U		460	U		360	U		370	U	
1,3,5-TRINITRO BENZENE	2000	UJ	C	2200	UJ	C	1700	UJ	C	1800	UJ	C
1,3-DICHLORO BENZENE	410	U		460	U		360	U		370	U	
1,3-DINITRO BENZENE	410	U		460	U		360	U		370	U	
1,4-DICHLORO BENZENE	410	U		460	U		360	U		370	U	
1,4-DIOXANE	410	U		460	U		360	U		370	U	
1,4-NAPHTHOQUINONE	2000	U		2200	U		1700	U		1800	U	
1-NAPHTHYLAMINE	410	U		460	U		360	U		370	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	410	U		460	U		360	U		370	U	
2,3,4,6-TETRACHLOROPHENOL	2000	U		2200	U		1700	U		1800	U	
2,4,5-TRICHLOROPHENOL	410	U		460	U		360	U		370	U	
2,4,6-TRICHLOROPHENOL	410	U		460	U		360	U		370	U	
2,4-DICHLOROPHENOL	410	U		460	U		360	U		370	U	
2,4-DIMETHYLPHENOL	410	U		460	U		360	U		370	U	
2,4-DINITROPHENOL	2000	U		2200	U		1700	U		1800	U	
2,4-DINITROTOLUENE	410	U		460	U		360	U		370	U	
2,6-DICHLOROPHENOL	410	U		460	U		360	U		370	U	
2,6-DINITROTOLUENE	410	U		460	U		360	U		370	U	
2-ACETYLAMINOFUORENE	4100	U		4600	U		3600	U		3700	U	
2-CHLORONAPHTHALENE	410	U		460	U		360	U		370	U	
2-CHLOROPHENOL	410	U		460	U		360	U		370	U	
2-METHYLNAPHTHALENE	410	U		460	U		360	U		370	U	
2-METHYLPHENOL	410	U		460	U		360	U		370	U	
2-NAPHTHYLAMINE	410	UJ	C	460	U		360	U		370	U	
2-NITROANILINE	2000	U		2200	U		1700	U		1800	U	
2-NITROPHENOL	410	U		460	U		360	U		370	U	
2-PICOLINE	810	U		920	U		710	U		740	U	
3,3'-DICHLORO BENZIDINE	2000	U		2200	U		1700	U		1800	U	
3,3'-DIMETHYLBENZIDINE	2000	U		2200	U		1700	U		1800	U	
3-METHYLCHOLANTHRENE	810	U		920	U		710	U		740	U	
3-METHYLPHENOL	410	U		460	U		360	U		370	U	

SAMPLE NUMBER:	MPT-G4-SU-60-05	MPT-G4-SU-61-05	MPT-G4-SU-62-05	MPT-G4-SU-63-05
SAMPLE DATE:	07/13/00	07/13/00	07/14/00	07/14/00
LABORATORY ID:	A0G150130005	A0G150130006	A0G150133001	A0G150133002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	81.0 %	72.0 %	92.8 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	2000	U		2200	U		1700	U		1800	U	
4,6-DINITRO-2-METHYLPHENOL	2000	U		2200	U		1700	U		1800	U	
4-AMINOBIHENYL	2000	U		2200	U		1700	U		1800	U	
4-BROMOPHENYL PHENYL ETHER	410	U		460	U		360	U		370	U	
4-CHLORO-3-METHYLPHENOL	410	U		460	U		360	U		370	U	
4-CHLOROANILINE	410	U		460	U		360	U		370	U	
4-CHLOROPHENYL PHENYL ETHER	410	U		460	U		360	U		370	U	
4-METHYLPHENOL	410	U		460	U		360	U		370	U	
4-NITROANILINE	2000	U		2200	U		1700	U		1800	U	
4-NITROPHENOL	2000	U		2200	U		1700	U		1800	U	
4-NITROQUINOLINE-1-OXIDE	4100	UR	C	4600	UR	C	3600	UR	C	3700	UR	C
5-NITRO-O-TOLUIDINE	810	U		920	U		710	U		740	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	810	U		920	U		710	U		740	U	
A,A-DIMETHYLPHENETHYLAMINE	2000	U		2200	U		1700	U		1800	U	
ACENAPHTHENE	410	U		460	U		360	U		370	U	
ACENAPHTHYLENE	410	U		460	U		360	U		370	U	
ACETOPHENONE	410	U		460	U		360	U		370	U	
ANILINE	410	U		460	U		360	U		370	U	
ANTHRACENE	410	U		460	U		360	U		370	U	
ARAMITE	810	U		920	U		710	U		740	U	
BENZO(A)ANTHRACENE	410	U		460	U		360	U		370	U	
BENZO(A)PYRENE	410	U		460	U		360	U		370	U	
BENZO(B)FLUORANTHENE	410	U		460	U		360	U		370	U	
BENZO(G,H,I)PERYLENE	410	U		460	U		360	U		370	U	
BENZO(K)FLUORANTHENE	410	U		460	U		360	U		370	U	
BENZYL ALCOHOL	410	U		460	U		360	U		370	U	
BIS(2-CHLOROETHOXY)METHANE	410	U		460	U		360	U		370	U	
BIS(2-CHLOROETHYL)ETHER	410	U		460	U		360	U		370	U	
BIS(2-ETHYLHEXYL)PHTHALATE	410	U		460	U		360	U		370	U	
BUTYLBENZYL PHTHALATE	410	U		460	U		360	U		370	U	
CARBAZOLE	410	U		460	U		360	U		370	U	
CHLOROBENZILATE	410	U		460	U		360	U		370	U	
CHRYSENE	410	U		460	U		360	U		370	U	

SOIL DATA
QUANTERRA
SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-60-05	MPT-G4-SU-61-05	MPT-G4-SU-62-05	MPT-G4-SU-63-05
SAMPLE DATE:	07/13/00	07/13/00	07/14/00	07/14/00
LABORATORY ID:	A0G150130005	A0G150130006	A0G150133001	A0G150133002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	81.0 %	72.0 %	92.8 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	410	U		460	U		360	U		370	U	
DI-N-OCTYL PHTHALATE	410	U		460	U		360	U		370	U	
DIALLATE	810	U		920	U		710	U		740	U	
DIBENZO(A,H)ANTHRACENE	410	U		460	U		360	U		370	U	
DIBENZOFURAN	410	U		460	U		360	U		370	U	
DIETHYL PHTHALATE	410	U		460	U		360	U		370	U	
DIMETHYL PHTHALATE	410	U		460	U		360	U		370	U	
DINOSEB	810	U		920	U		710	U		740	U	
DIPHENYLAMINE	410	U		460	U		360	U		370	U	
ETHYL METHANESULFONATE	410	U		460	U		360	U		370	U	
FLUORANTHENE	410	U		460	U		360	U		370	U	
FLUORENE	410	U		460	U		360	U		370	U	
HEXACHLOROENZENE	410	U		460	U		360	U		370	U	
HEXACHLOROBUTADIENE	410	U		460	U		360	U		370	U	
HEXACHLOROCYCLOPENTADIENE	2000	U		2200	U		1700	U		1800	U	
HEXACHLOROETHANE	410	U		460	U		360	U		370	U	
HEXACHLOROPROPENE	4100	U		4600	U		3600	U		3700	U	
INDENO(1,2,3-CD)PYRENE	410	U		460	U		360	U		370	U	
ISOPHORONE	410	U		460	U		360	U		370	U	
ISOSAFROLE	810	U		920	U		710	U		740	U	
METHAPYRILENE	2000	U		2200	U		1700	U		1800	U	
METHYL METHANESULFONATE	410	U		460	U		360	U		370	U	
N-NITROSO-DI-N-BUTYLAMINE	410	U		460	U		360	U		370	U	
N-NITROSO-DI-N-PROPYLAMINE	410	U		460	U		360	U		370	U	
N-NITROSODIETHYLAMINE	410	U		460	U		360	U		370	U	
N-NITROSODIMETHYLAMINE	410	U		460	U		360	U		370	U	
N-NITROSODIPHENYLAMINE	410	U		460	U		360	U		370	U	
N-NITROSOMETHYLETHYLAMINE	410	U		460	U		360	U		370	U	
N-NITROSOMORPHOLINE	410	U		460	U		360	U		370	U	
N-NITROSOPIPERIDINE	410	U		460	U		360	U		370	U	
N-NITROSOPYRROLIDINE	410	U		460	U		360	U		370	U	
NAPHTHALENE	410	U		460	U		360	U		370	U	
NITROBENZENE	410	U		460	U		360	U		370	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-60-05	MPT-G4-SU-61-05	MPT-G4-SU-62-05	MPT-G4-SU-63-05
SAMPLE DATE:	07/13/00	07/13/00	07/14/00	07/14/00
LABORATORY ID:	A0G150130005	A0G150130006	A0G150133001	A0G150133002
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	81.0 %	72.0 %	92.8 %	90.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	810	U		920	U		710	U		740	U	
P-DIMETHYLAMINOAZOBENZENE	810	U		920	U		710	U		740	U	
P-PHENYLENEDIAMINE	4100	U		4600	U		3600	U		3700	U	
PENTACHLOROBENZENE	410	U		460	U		360	U		370	U	
PENTACHLOROETHANE	2000	U		2200	U		1700	U		1800	U	
PENTACHLORONITROBENZENE	2000	U		2200	U		1700	U		1800	U	
PENTACHLOROPHENOL	2000	U		2200	U		1700	U		1800	U	
PHENACETIN	810	U		920	U		710	U		740	U	
PHENANTHRENE	410	U		460	U		360	U		370	U	
PHENOL	410	U		460	U		360	U		370	U	
PRONAMIDE	810	U		920	U		710	U		740	U	
PYRENE	410	U		460	U		360	U		370	U	
PYRIDINE	810	U		920	U		710	U		740	U	
SAFROLE	810	U		920	U		710	U		740	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-64-05	MPT-G4-SU-65-05	MPT-G4-SU-DU03	MPT-G4-SU-DU04
SAMPLE DATE:	07/14/00	07/14/00	07/13/00	07/14/00
LABORATORY ID:	A0G150133003	A0G150133004	A0G150130007	A0G150133005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	80.0 %	88.0 %	91.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:			MPT-G4-SU-59-05	MPT-G4-SU-63-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	400	U		410	U		370	U		360	U	
1,2,4-TRICHLORO BENZENE	400	U		410	U		370	U		360	U	
1,2-DICHLORO BENZENE	400	U		410	U		370	U		360	U	
1,3,5-TRINITRO BENZENE	2000	UJ	C	2000	UJ	C	1800	UJ	C	1700	UJ	C
1,3-DICHLORO BENZENE	400	U		410	U		370	U		360	U	
1,3-DINITRO BENZENE	400	U		410	U		370	U		360	U	
1,4-DICHLORO BENZENE	400	U		410	U		370	U		360	U	
1,4-DIOXANE	400	U		410	U		370	U		360	U	
1,4-NAPHTHOQUINONE	2000	U		2000	U		1800	U		1700	U	
1-NAPHTHYLAMINE	400	U		410	U		370	U		360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U		410	U		370	U		360	U	
2,3,4,6-TETRACHLOROPHENOL	2000	U		2000	U		1800	U		1700	U	
2,4,5-TRICHLOROPHENOL	400	U		410	U		370	U		360	U	
2,4,6-TRICHLOROPHENOL	400	U		410	U		370	U		360	U	
2,4-DICHLOROPHENOL	400	U		410	U		370	U		360	U	
2,4-DIMETHYLPHENOL	400	U		410	U		370	U		360	U	
2,4-DINITROPHENOL	2000	U		2000	U		1800	U		1700	U	
2,4-DINITROTOLUENE	400	U		410	U		370	U		360	U	
2,6-DICHLOROPHENOL	400	U		410	U		370	U		360	U	
2,6-DINITROTOLUENE	400	U		410	U		370	U		360	U	
2-ACETYLAMINOFUORENE	4000	U		4100	U		3700	U		3600	U	
2-CHLORONAPHTHALENE	400	U		410	U		370	U		360	U	
2-CHLOROPHENOL	400	U		410	U		370	U		360	U	
2-METHYLNAPHTHALENE	400	U		410	U		370	U		360	U	
2-METHYLPHENOL	400	U		410	U		370	U		360	U	
2-NAPHTHYLAMINE	400	U		410	U		370	UJ	C	360	U	
2-NITROANILINE	2000	U		2000	U		1800	U		1700	U	
2-NITROPHENOL	400	U		410	U		370	U		360	U	
2-PICOLINE	810	U		820	U		750	U		720	U	
3,3'-DICHLORO BENZIDINE	2000	U		2000	U		1800	U		1700	U	
3,3'-DIMETHYLBENZIDINE	2000	U		2000	U		1800	U		1700	U	
3-METHYLCHOLANTHRENE	810	U		820	U		750	U		720	U	
3-METHYLPHENOL	400	U		410	U		370	U		360	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:

MPT-G4-SU-64-05

MPT-G4-SU-65-05

MPT-G4-SU-DU03

MPT-G4-SU-DU04

SAMPLE DATE:

07/14/00

07/14/00

07/13/00

07/14/00

LABORATORY ID:

A0G150133003

A0G150133004

A0G150130007

A0G150133005

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

82.0 %

80.0 %

88.0 %

91.8 %

UNITS:

UG/KG

UG/KG

UG/KG

UG/KG

FIELD DUPLICATE OF:

MPT-G4-SU-59-05

MPT-G4-SU-63-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	2000	U		2000	U		1800	U		1700	U	
4,6-DINITRO-2-METHYLPHENOL	2000	U		2000	U		1800	U		1700	U	
4-AMINOBIIPHENYL	2000	U		2000	U		1800	U		1700	U	
4-BROMOPHENYL PHENYL ETHER	400	U		410	U		370	U		360	U	
4-CHLORO-3-METHYLPHENOL	400	U		410	U		370	U		360	U	
4-CHLOROANILINE	400	U		410	U		370	U		360	U	
4-CHLOROPHENYL PHENYL ETHER	400	U		410	U		370	U		360	U	
4-METHYLPHENOL	400	U		410	U		370	U		360	U	
4-NITROANILINE	2000	U		2000	U		1800	U		1700	U	
4-NITROPHENOL	2000	U		2000	U		1800	U		1700	U	
4-NITROQUINOLINE-1-OXIDE	4000	UR	C	4100	UR	C	3700	UR	C	3600	UR	C
5-NITRO-O-TOLUIDINE	810	U		820	U		750	U		720	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	810	U		820	U		750	U		720	U	
A,A-DIMETHYLPHENETHYLAMINE	2000	U		2000	U		1800	U		1700	U	
ACENAPHTHENE	400	U		410	U		370	U		360	U	
ACENAPHTHYLENE	400	U		410	U		370	U		360	U	
ACETOPHENONE	400	U		410	U		370	U		360	U	
ANILINE	400	U		410	U		370	U		360	U	
ANTHRACENE	400	U		410	U		370	U		360	U	
ARAMITE	810	U		820	U		750	U		720	U	
BENZO(A)ANTHRACENE	400	U		410	U		370	U		360	U	
BENZO(A)PYRENE	400	U		410	U		370	U		360	U	
BENZO(B)FLUORANTHENE	400	U		410	U		370	U		360	U	
BENZO(G,H,I)PERYLENE	400	U		410	U		370	U		360	U	
BENZO(K)FLUORANTHENE	400	U		410	U		370	U		360	U	
BENZYL ALCOHOL	400	U		410	U		370	U		360	U	
BIS(2-CHLOROETHOXY)METHANE	400	U		410	U		370	U		360	U	
BIS(2-CHLOROETHYL)ETHER	400	U		410	U		370	U		360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U		410	U		370	U		360	U	
BUTYLBENZYL PHTHALATE	400	U		410	U		370	U		360	U	
CARBAZOLE	400	U		410	U		370	U		360	U	
CHLOROBENZILATE	400	U		410	U		370	U		360	U	
CHRYSENE	400	U		410	U		370	U		360	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-64-05	MPT-G4-SU-65-05	MPT-G4-SU-DU03	MPT-G4-SU-DU04
SAMPLE DATE:	07/14/00	07/14/00	07/13/00	07/14/00
LABORATORY ID:	A0G150133003	A0G150133004	A0G150130007	A0G150133005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	80.0 %	88.0 %	91.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:			MPT-G4-SU-59-05	MPT-G4-SU-63-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	400	U		410	U		370	U		360	U	
DI-N-OCTYL PHTHALATE	400	U		410	U		370	U		360	U	
DIALLATE	810	U		820	U		750	U		720	U	
DIBENZO(A,H)ANTHRACENE	400	U		410	U		370	U		360	U	
DIBENZOFURAN	400	U		410	U		370	U		360	U	
DIETHYL PHTHALATE	400	U		410	U		370	U		360	U	
DIMETHYL PHTHALATE	400	U		410	U		370	U		360	U	
DINOSEB	810	U		820	U		750	U		720	U	
DIPHENYLAMINE	400	U		410	U		370	U		360	U	
ETHYL METHANESULFONATE	400	U		410	U		370	U		360	U	
FLUORANTHENE	400	U		410	U		370	U		360	U	
FLUORENE	400	U		410	U		370	U		360	U	
HEXACHLOROBENZENE	400	U		410	U		370	U		360	U	
HEXACHLOROBUTADIENE	400	U		410	U		370	U		360	U	
HEXACHLOROCYCLOPENTADIENE	2000	U		2000	U		1800	U		1700	U	
HEXACHLOROETHANE	400	U		410	U		370	U		360	U	
HEXACHLOROPROPENE	4000	U		4100	U		3700	U		3600	U	
INDENO(1,2,3-CD)PYRENE	400	U		410	U		370	U		360	U	
ISOPHORONE	400	U		410	U		370	U		360	U	
ISOSAFROLE	810	U		820	U		750	U		720	U	
METHAPYRILENE	2000	U		2000	U		1800	U		1700	U	
METHYL METHANESULFONATE	400	U		410	U		370	U		360	U	
N-NITROSO-DI-N-BUTYLAMINE	400	U		410	U		370	U		360	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U		410	U		370	U		360	U	
N-NITROSODIETHYLAMINE	400	U		410	U		370	U		360	U	
N-NITROSODIMETHYLAMINE	400	U		410	U		370	U		360	U	
N-NITROSODIPHENYLAMINE	400	U		410	U		370	U		360	U	
N-NITROSOMETHYLETHYLAMINE	400	U		410	U		370	U		360	U	
N-NITROSOMORPHOLINE	400	U		410	U		370	U		360	U	
N-NITROSOPIPERIDINE	400	U		410	U		370	U		360	U	
N-NITROSOPYRROLIDINE	400	U		410	U		370	U		360	U	
NAPHTHALENE	400	U		410	U		370	U		360	U	
NITROBENZENE	400	U		410	U		370	U		360	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER:	MPT-G4-SU-64-05	MPT-G4-SU-65-05	MPT-G4-SU-DU03	MPT-G4-SU-DU04
SAMPLE DATE:	07/14/00	07/14/00	07/13/00	07/14/00
LABORATORY ID:	A0G150133003	A0G150133004	A0G150130007	A0G150133005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	82.0 %	80.0 %	88.0 %	91.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:			MPT-G4-SU-59-05	MPT-G4-SU-63-05

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	810	U		820	U		750	U		720	U	
P-DIMETHYLAMINOAZOBENZENE	810	U		820	U		750	U		720	U	
P-PHENYLENEDIAMINE	4000	U		4100	U		3700	U		3600	U	
PENTACHLOROBENZENE	400	U		410	U		370	U		360	U	
PENTACHLOROETHANE	2000	U		2000	U		1800	U		1700	U	
PENTACHLORONITROBENZENE	2000	U		2000	U		1800	U		1700	U	
PENTACHLOROPHENOL	2000	U		2000	U		1800	U		1700	U	
PHENACETIN	810	U		820	U		750	U		720	U	
PHENANTHRENE	400	U		410	U		370	U		360	U	
PHENOL	400	U		410	U		370	U		360	U	
PRONAMIDE	810	U		820	U		750	U		720	U	
PYRENE	400	U		410	U		370	U		360	U	
PYRIDINE	810	U		820	U		750	U		720	U	
SAFROLE	810	U		820	U		750	U		720	U	

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER: MPT-G4-SU-DU05
 SAMPLE DATE: 07/14/00
 LABORATORY ID: AOG150133006
 QC_TYPE: NORMAL
 % SOLIDS: 81.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF: MPT-G4-SU-65-05

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//

//

100.0 %

100.0 %

100.0 %

	RESULT	QUAL	CODE									
SEMIVOLATILES												
1,2,4,5-TETRACHLORO BENZENE	410	U										
1,2,4-TRICHLORO BENZENE	410	U										
1,2-DICHLORO BENZENE	410	U										
1,3,5-TRINITRO BENZENE	2000	UJ	C									
1,3-DICHLORO BENZENE	410	U										
1,3-DINITRO BENZENE	410	U										
1,4-DICHLORO BENZENE	410	U										
1,4-DIOXANE	410	U										
1,4-NAPHTHOQUINONE	2000	U										
1-NAPHTHYLAMINE	410	U										
2,2'-OXYBIS(1-CHLOROPROPANE)	410	U										
2,3,4,6-TETRACHLOROPHENOL	2000	U										
2,4,5-TRICHLOROPHENOL	410	U										
2,4,6-TRICHLOROPHENOL	410	U										
2,4-DICHLOROPHENOL	410	U										
2,4-DIMETHYLPHENOL	410	U										
2,4-DINITROPHENOL	2000	U										
2,4-DINITROTOLUENE	410	U										
2,6-DICHLOROPHENOL	410	U										
2,6-DINITROTOLUENE	410	U										
2-ACETYLAMINOFLUORENE	4100	U										
2-CHLORONAPHTHALENE	410	U										
2-CHLOROPHENOL	410	U										
2-METHYLNAPHTHALENE	410	U										
2-METHYLPHENOL	410	U										
2-NAPHTHYLAMINE	410	U										
2-NITROANILINE	2000	U										
2-NITROPHENOL	410	U										
2-PICOLINE	820	U										
3,3'-DICHLOROBENZIDINE	2000	U										
3,3'-DIMETHYLBENZIDINE	2000	U										
3-METHYLCHOLANTHRENE	820	U										
3-METHYLPHENOL	410	U										

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER: MPT-G4-SU-DU05
 SAMPLE DATE: 07/14/00
 LABORATORY ID: AOG150133006
 QC_TYPE: NORMAL
 % SOLIDS: 81.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF: MPT-G4-SU-65-05

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	2000	U										
4,6-DINITRO-2-METHYLPHENOL	2000	U										
4-AMINOBIPHENYL	2000	U										
4-BROMOPHENYL PHENYL ETHER	410	U										
4-CHLORO-3-METHYLPHENOL	410	U										
4-CHLOROANILINE	410	U										
4-CHLOROPHENYL PHENYL ETHER	410	U										
4-METHYLPHENOL	410	U										
4-NITROANILINE	2000	U										
4-NITROPHENOL	2000	U										
4-NITROQUINOLINE-1-OXIDE	4100	UR	C									
5-NITRO-O-TOLUIDINE	820	U										
7,12-DIMETHYLBENZ(A)ANTHRACENE	820	U										
A,A-DIMETHYLPHENETHYLAMINE	2000	U										
ACENAPHTHENE	410	U										
ACENAPHTHYLENE	410	U										
ACETOPHENONE	410	U										
ANILINE	410	U										
ANTHRACENE	410	U										
ARAMITE	820	U										
BENZO(A)ANTHRACENE	410	U										
BENZO(A)PYRENE	410	U										
BENZO(B)FLUORANTHENE	410	U										
BENZO(G,H,I)PERYLENE	410	U										
BENZO(K)FLUORANTHENE	410	U										
BENZYL ALCOHOL	410	U										
BIS(2-CHLOROETHOXY)METHANE	410	U										
BIS(2-CHLOROETHYL)ETHER	410	U										
BIS(2-ETHYLHEXYL)PHTHALATE	410	U										
BUTYLBENZYL PHTHALATE	410	U										
CARBAZOLE	410	U										
CHLOROBENZILATE	410	U										
CHRYSENE	410	U										

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER: MPT-G4-SU-DU05
 SAMPLE DATE: 07/14/00
 LABORATORY ID: AOG150133006
 QC_TYPE: NORMAL
 % SOLIDS: 81.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF: MPT-G4-SU-65-05

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	410	U										
DI-N-OCTYL PHTHALATE	410	U										
DIALLATE	820	U										
DIBENZO(A,H)ANTHRACENE	410	U										
DIBENZOFURAN	410	U										
DIETHYL PHTHALATE	410	U										
DIMETHYL PHTHALATE	410	U										
DINOSEB	820	U										
DIPHENYLAMINE	410	U										
ETHYL METHANESULFONATE	410	U										
FLUORANTHENE	410	U										
FLUORENE	410	U										
HEXACHLOROBENZENE	410	U										
HEXACHLOROBUTADIENE	410	U										
HEXACHLOROCYCLOPENTADIENE	2000	U										
HEXACHLOROETHANE	410	U										
HEXACHLOROPROPENE	4100	U										
INDENO(1,2,3-CD)PYRENE	410	U										
ISOPHORONE	410	U										
ISOSAFROLE	820	U										
METHAPYRILENE	2000	U										
METHYL METHANESULFONATE	410	U										
N-NITROSO-DI-N-BUTYLAMINE	410	U										
N-NITROSO-DI-N-PROPYLAMINE	410	U										
N-NITROSODIETHYLAMINE	410	U										
N-NITROSODIMETHYLAMINE	410	U										
N-NITROSODIPHENYLAMINE	410	U										
N-NITROSOMETHYLETHYLAMINE	410	U										
N-NITROSOMORPHOLINE	410	U										
N-NITROSOPIPERIDINE	410	U										
N-NITROSOPYRROLIDINE	410	U										
NAPHTHALENE	410	U										
NITROBENZENE	410	U										

CTO091-NS MAYPORT

SOIL DATA

QUANTERRA

SDG: MP021

SAMPLE NUMBER: MPT-G4-SU-DU05
 SAMPLE DATE: 07/14/00
 LABORATORY ID: AOG150133006
 QC_TYPE: NORMAL
 % SOLIDS: 81.0 %
 UNITS: UG/KG
 FIELD DUPLICATE OF: MPT-G4-SU-65-05

//	//	//
100.0 %	100.0 %	100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	820	U										
P-DIMETHYLAMINOAZOBENZENE	820	U										
P-PHENYLENEDIAMINE	4100	U										
PENTACHLOROBENZENE	410	U										
PENTACHLOROETHANE	2000	U										
PENTACHLORONITROBENZENE	2000	U										
PENTACHLOROPHENOL	2000	U										
PHENACETIN	820	U										
PHENANTHRENE	410	U										
PHENOL	410	U										
PRONAMIDE	820	U										
PYRENE	410	U										
PYRIDINE	820	U										
SAFROLE	820	U										

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP021

Matrix: (soil/water) SO

Lab Sample ID:A0G150130 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L0102

Date Extracted:07/21/00

Dilution factor: 0.93

Date Analyzed: 07/21/00

Moisture %:14

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-56-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	10		J B
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.4		U
75-27-4	Bromodichloromethane	5.4		U
75-25-2	Bromoform	5.4		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	1.6		J
56-23-5	Carbon tetrachloride	5.4		U
108-90-7	Chlorobenzene	5.4		U
126-99-8	Chloroprene	5.4		U
124-48-1	Dibromochloromethane	5.4		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	54		U
67-66-3	Chloroform	5.4		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.4		U
110-57-6	trans-1,4-Dichloro-2-butene	5.4		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.4		U
107-06-2	1,2-Dichloroethane	5.4		U
75-35-4	1,1-Dichloroethene	5.4		U
156-59-2	cis-1,2-Dichloroethene	2.7		U
156-60-5	trans-1,2-Dichloroethene	2.7		U
540-59-0	1,2-Dichloroethene (total)	5.4		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP021

Matrix: (soil/water) SO

Lab Sample ID:A0G150130 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L0102

Date Extracted:07/21/00

Dilution factor: 0.93

Date Analyzed: 07/21/00

Moisture %:14

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-56-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.4		U
10061-01-5	cis-1,3-Dichloropropene	5.4		U
10061-02-6	trans-1,3-Dichloropropene	5.4		U
100-41-4	Ethylbenzene	5.4		U
97-63-2	Ethyl methacrylate	5.4		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	22		U
74-88-4	Iodomethane	5.4		U
78-83-1	Isobutyl alcohol	220		U
126-98-7	Methacrylonitrile	5.4		U
75-09-2	Methylene chloride	5.4		U
80-62-6	Methyl methacrylate	5.4		U
107-12-0	Propionitrile	22		U
100-42-5	Styrene	5.4		U
630-20-6	1,1,1,2-Tetrachloroethane	5.4		U
79-34-5	1,1,2,2-Tetrachloroethane	5.4		U
127-18-4	Tetrachloroethene	5.4		U
108-88-3	Toluene	5.4		U
71-55-6	1,1,1-Trichloroethane	5.4		U
79-00-5	1,1,2-Trichloroethane	5.4		U
79-01-6	Trichloroethene	5.4		U
96-18-4	1,2,3-Trichloropropane	5.4		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.4		U
1634-04-4	Methyl tert-butyl ether	22		U
106-93-4	1,2-Dibromoethane (EDB)	5.4		U
78-93-3	2-Butanone (MEK)	22		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L0102

Date Extracted: 07/21/00

Dilution factor: 0.93

Date Analyzed: 07/21/00

Moisture %: 14

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-56-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	22		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: AOG150130 002

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/15/00

Work Order: DG9L4102 Date Extracted: 07/21/00

Dilution factor: 0.97 Date Analyzed: 07/21/00

Moisture %: 15

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-57-03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	3.7		J B
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.7		U
75-27-4	Bromodichloromethane	5.7		U
75-25-2	Bromoform	5.7		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.7		U
56-23-5	Carbon tetrachloride	5.7		U
108-90-7	Chlorobenzene	5.7		U
126-99-8	Chloroprene	5.7		U
124-48-1	Dibromochloromethane	5.7		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	57		U
67-66-3	Chloroform	5.7		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.7		U
110-57-6	trans-1,4-Dichloro-2-butene	5.7		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.7		U
107-06-2	1,2-Dichloroethane	5.7		U
75-35-4	1,1-Dichloroethene	0.86		J
156-59-2	cis-1,2-Dichloroethene	2.8		U
156-60-5	trans-1,2-Dichloroethene	2.8		U
540-59-0	1,2-Dichloroethene (total)	5.7		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L4102

Date Extracted: 07/21/00

Dilution factor: 0.97

Date Analyzed: 07/21/00

Moisture %: 15

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-57-03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	5.7		U
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
1634-04-4	Methyl tert-butyl ether	23		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L4102

Date Extracted: 07/21/00

Dilution factor: 0.97

Date Analyzed: 07/21/00

Moisture %: 15

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-57-03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L5102

Date Extracted: 07/21/00

Dilution factor: 0.95

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-58-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	17		J B
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.6		U
75-27-4	Bromodichloromethane	5.6		U
75-25-2	Bromoform	5.6		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.6		U
56-23-5	Carbon tetrachloride	5.6		U
108-90-7	Chlorobenzene	5.6		U
126-99-8	Chloroprene	5.6		U
124-48-1	Dibromochloromethane	5.6		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	56		U
67-66-3	Chloroform	5.6		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.6		U
110-57-6	trans-1,4-Dichloro-2-butene	5.6		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.6		U
107-06-2	1,2-Dichloroethane	5.6		U
75-35-4	1,1-Dichloroethene	5.6		U
156-59-2	cis-1,2-Dichloroethene	2.8		U
156-60-5	trans-1,2-Dichloroethene	2.8		U
540-59-0	1,2-Dichloroethene (total)	5.6		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L5102

Date Extracted: 07/21/00

Dilution factor: 0.95

Date Analyzed: 07/21/00

Moisture %: 16

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-58-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.6		U
10061-01-5	cis-1,3-Dichloropropene	5.6		U
10061-02-6	trans-1,3-Dichloropropene	5.6		U
100-41-4	Ethylbenzene	5.6		U
97-63-2	Ethyl methacrylate	5.6		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.6		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.6		U
75-09-2	Methylene chloride	5.6		U
80-62-6	Methyl methacrylate	5.6		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.6		U
630-20-6	1,1,1,2-Tetrachloroethane	5.6		U
79-34-5	1,1,2,2-Tetrachloroethane	5.6		U
127-18-4	Tetrachloroethene	5.6		U
108-88-3	Toluene	5.6		U
71-55-6	1,1,1-Trichloroethane	5.6		U
79-00-5	1,1,2-Trichloroethane	5.6		U
79-01-6	Trichloroethene	5.6		U
96-18-4	1,2,3-Trichloropropane	5.6		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.6		U
1634-04-4	Methyl tert-butyl ether	23		U
106-93-4	1,2-Dibromoethane (EDB)	5.6		U
78-93-3	2-Butanone (MEK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: AOG150130 003

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g
Work Order: DG9L5102
Dilution factor: 0.95
Moisture %: 16

Date Received: 07/15/00
Date Extracted: 07/21/00
Date Analyzed: 07/21/00

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-58-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: AOG150130 004
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/15/00
 Work Order: DG9L6102 Date Extracted: 07/21/00
 Dilution factor: 0.96 Date Analyzed: 07/21/00
 Moisture %: 10

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-59-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	7.6	J B
75-05-8	Acetonitrile	110	U
107-02-8	Acrolein	110	U
107-13-1	Acrylonitrile	110	U
71-43-2	Benzene	5.4	U
75-27-4	Bromodichloromethane	5.4	U
75-25-2	Bromoform	5.4	U
74-83-9	Bromomethane	11	U
75-15-0	Carbon disulfide	3.3	J
56-23-5	Carbon tetrachloride	5.4	U
108-90-7	Chlorobenzene	5.4	U
126-99-8	Chloroprene	5.4	U
124-48-1	Dibromochloromethane	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
75-00-3	Chloroethane	11	U
110-75-8	2-Chloroethyl vinyl ether	54	U
67-66-3	Chloroform	5.4	U
74-87-3	Chloromethane	11	U
107-05-1	Allyl chloride	11	U
74-95-3	Dibromomethane	5.4	U
110-57-6	trans-1,4-Dichloro-2-butene	5.4	U
75-71-8	Dichlorodifluoromethane	11	U
75-34-3	1,1-Dichloroethane	5.4	U
107-06-2	1,2-Dichloroethane	5.4	U
75-35-4	1,1-Dichloroethene	5.4	U
156-59-2	cis-1,2-Dichloroethene	2.7	U
156-60-5	trans-1,2-Dichloroethene	2.7	U
540-59-0	1,2-Dichloroethene (total)	5.4	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L6102

Date Extracted: 07/21/00

Dilution factor: 0.96

Date Analyzed: 07/21/00

Moisture %: 10

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-59-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.4		U
10061-01-5	cis-1,3-Dichloropropene	5.4		U
10061-02-6	trans-1,3-Dichloropropene	5.4		U
100-41-4	Ethylbenzene	5.4		U
97-63-2	Ethyl methacrylate	5.4		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	21		U
74-88-4	Iodomethane	5.4		U
78-83-1	Isobutyl alcohol	210		U
126-98-7	Methacrylonitrile	5.4		U
75-09-2	Methylene chloride	5.4		U
80-62-6	Methyl methacrylate	5.4		U
107-12-0	Propionitrile	21		U
100-42-5	Styrene	5.4		U
630-20-6	1,1,1,2-Tetrachloroethane	5.4		U
79-34-5	1,1,2,2-Tetrachloroethane	5.4		U
127-18-4	Tetrachloroethene	5.4		U
108-88-3	Toluene	5.4		U
71-55-6	1,1,1-Trichloroethane	5.4		U
79-00-5	1,1,2-Trichloroethane	5.4		U
79-01-6	Trichloroethene	5.4		U
96-18-4	1,2,3-Trichloropropane	5.4		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.4		U
1634-04-4	Methyl tert-butyl ether	21		U
106-93-4	1,2-Dibromoethane (EDB)	5.4		U
78-93-3	2-Butanone (MEK)	21		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L7102

Date Extracted: 07/21/00

Dilution factor: 1.01

Date Analyzed: 07/21/00

Moisture %: 19

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-60-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	8.4		J B
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.2		U
75-27-4	Bromodichloromethane	6.2		U
75-25-2	Bromoform	6.2		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.2		U
56-23-5	Carbon tetrachloride	6.2		U
108-90-7	Chlorobenzene	6.2		U
126-99-8	Chloroprene	6.2		U
124-48-1	Dibromochloromethane	6.2		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	62		U
67-66-3	Chloroform	6.2		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.2		U
110-57-6	trans-1,4-Dichloro-2-butene	6.2		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.2		U
107-06-2	1,2-Dichloroethane	6.2		U
75-35-4	1,1-Dichloroethene	6.2		U
156-59-2	cis-1,2-Dichloroethene	3.1		U
156-60-5	trans-1,2-Dichloroethene	3.1		U
540-59-0	1,2-Dichloroethene (total)	6.2		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L7102

Date Extracted: 07/21/00

Dilution factor: 1.01

Date Analyzed: 07/21/00

Moisture %: 19

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-60-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
100-41-4	Ethylbenzene	6.2	U
97-63-2	Ethyl methacrylate	6.2	U
75-69-4	Trichlorofluoromethane	12	U
591-78-6	2-Hexanone	25	U
74-88-4	Iodomethane	6.2	U
78-83-1	Isobutyl alcohol	250	U
126-98-7	Methacrylonitrile	6.2	U
75-09-2	Methylene chloride	6.2	U
80-62-6	Methyl methacrylate	6.2	U
107-12-0	Propionitrile	25	U
100-42-5	Styrene	6.2	U
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
127-18-4	Tetrachloroethene	6.2	U
108-88-3	Toluene	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
79-01-6	Trichloroethene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Xylenes (total)	6.2	U
1634-04-4	Methyl tert-butyl ether	25	U
106-93-4	1,2-Dibromoethane (EDB)	6.2	U
78-93-3	2-Butanone (MEK)	25	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021
Matrix: (soil/water) SO Lab Sample ID: AOG150130 005
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/15/00
Work Order: DG9L7102 Date Extracted: 07/21/00
Dilution factor: 1.01 Date Analyzed: 07/21/00
Moisture %: 19

Client Sample Id: MPT-G4-SU-60-05 QC Batch: 0203196

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L8102

Date Extracted: 07/21/00

Dilution factor: 1.02

Date Analyzed: 07/21/00

Moisture %: 28

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-61-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	9.8		J B
75-05-8	Acetonitrile	140		U
107-02-8	Acrolein	140		U
107-13-1	Acrylonitrile	140		U
71-43-2	Benzene	7.1		U
75-27-4	Bromodichloromethane	7.1		U
75-25-2	Bromoform	7.1		U
74-83-9	Bromomethane	14		U
75-15-0	Carbon disulfide	7.1		U
56-23-5	Carbon tetrachloride	7.1		U
108-90-7	Chlorobenzene	7.1		U
126-99-8	Chloroprene	7.1		U
124-48-1	Dibromochloromethane	7.1		U
96-12-8	1,2-Dibromo-3-chloropropane	14		U
75-00-3	Chloroethane	14		U
110-75-8	2-Chloroethyl vinyl ether	71		U
67-66-3	Chloroform	7.1		U
74-87-3	Chloromethane	14		U
107-05-1	Allyl chloride	14		U
74-95-3	Dibromomethane	7.1		U
110-57-6	trans-1,4-Dichloro-2-butene	7.1		U
75-71-8	Dichlorodifluoromethane	14		U
75-34-3	1,1-Dichloroethane	7.1		U
107-06-2	1,2-Dichloroethane	7.1		U
75-35-4	1,1-Dichloroethene	7.1		U
156-59-2	cis-1,2-Dichloroethene	3.5		U
156-60-5	trans-1,2-Dichloroethene	3.5		U
540-59-0	1,2-Dichloroethene (total)	7.1		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L8102

Date Extracted: 07/21/00

Dilution factor: 1.02

Date Analyzed: 07/21/00

Moisture %: 28

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-61-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	7.1		U
10061-01-5	cis-1,3-Dichloropropene	7.1		U
10061-02-6	trans-1,3-Dichloropropene	7.1		U
100-41-4	Ethylbenzene	7.1		U
97-63-2	Ethyl methacrylate	7.1		U
75-69-4	Trichlorofluoromethane	14		U
591-78-6	2-Hexanone	28		U
74-88-4	Iodomethane	7.1		U
78-83-1	Isobutyl alcohol	280		U
126-98-7	Methacrylonitrile	7.1		U
75-09-2	Methylene chloride	7.1		U
80-62-6	Methyl methacrylate	7.1		U
107-12-0	Propionitrile	28		U
100-42-5	Styrene	7.1		U
630-20-6	1,1,1,2-Tetrachloroethane	7.1		U
79-34-5	1,1,2,2-Tetrachloroethane	7.1		U
127-18-4	Tetrachloroethene	7.1		U
108-88-3	Toluene	7.1		U
71-55-6	1,1,1-Trichloroethane	7.1		U
79-00-5	1,1,2-Trichloroethane	7.1		U
79-01-6	Trichloroethene	7.1		U
96-18-4	1,2,3-Trichloropropane	7.1		U
108-05-4	Vinyl acetate	14		U
75-01-4	Vinyl chloride	14		U
1330-20-7	Xylenes (total)	7.1		U
1634-04-4	Methyl tert-butyl ether	28		U
106-93-4	1,2-Dibromoethane (EDB)	7.1		U
78-93-3	2-Butanone (MEK)	28		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L8102

Date Extracted: 07/21/00

Dilution factor: 1.02

Date Analyzed: 07/21/00

Moisture %: 28

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-61-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	28		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LJ102

Date Extracted: 07/21/00

Dilution factor: 0.98

Date Analyzed: 07/21/00

Moisture %: 7.2

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	4.9		J B
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.3		U
75-27-4	Bromodichloromethane	5.3		U
75-25-2	Bromoform	5.3		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.3		U
56-23-5	Carbon tetrachloride	5.3		U
108-90-7	Chlorobenzene	5.3		U
126-99-8	Chloroprene	5.3		U
124-48-1	Dibromochloromethane	5.3		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	53		U
67-66-3	Chloroform	5.3		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.3		U
110-57-6	trans-1,4-Dichloro-2-butene	5.3		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.3		U
107-06-2	1,2-Dichloroethane	5.3		U
75-35-4	1,1-Dichloroethene	5.3		U
156-59-2	cis-1,2-Dichloroethene	2.6		U
156-60-5	trans-1,2-Dichloroethene	2.6		U
540-59-0	1,2-Dichloroethene (total)	5.3		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LJ102

Date Extracted: 07/21/00

Dilution factor: 0.98

Date Analyzed: 07/21/00

Moisture %: 7.2

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-62-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.3		U
10061-01-5	cis-1,3-Dichloropropene	5.3		U
10061-02-6	trans-1,3-Dichloropropene	5.3		U
100-41-4	Ethylbenzene	5.3		U
97-63-2	Ethyl methacrylate	5.3		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	21		U
74-88-4	Iodomethane	5.3		U
78-83-1	Isobutyl alcohol	210		U
126-98-7	Methacrylonitrile	5.3		U
75-09-2	Methylene chloride	2.1		J B
80-62-6	Methyl methacrylate	5.3		U
107-12-0	Propionitrile	21		U
100-42-5	Styrene	5.3		U
630-20-6	1,1,1,2-Tetrachloroethane	5.3		U
79-34-5	1,1,2,2-Tetrachloroethane	5.3		U
127-18-4	Tetrachloroethene	5.3		U
108-88-3	Toluene	5.3		U
71-55-6	1,1,1-Trichloroethane	5.3		U
79-00-5	1,1,2-Trichloroethane	5.3		U
79-01-6	Trichloroethene	5.3		U
96-18-4	1,2,3-Trichloropropane	5.3		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.3		U
1634-04-4	Methyl tert-butyl ether	21		U
106-93-4	1,2-Dibromoethane (EDB)	5.3		U
78-93-3	2-Butanone (MEK)	21		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LJ102

Date Extracted: 07/21/00

Dilution factor: 0.98

Date Analyzed: 07/21/00

Moisture %: 7.2

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	21		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150133 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LQ102

Date Extracted: 07/21/00

Dilution factor: 0.97

Date Analyzed: 07/21/00

Moisture %: 10

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-63-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	3.2		J B
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.4		U
75-27-4	Bromodichloromethane	5.4		U
75-25-2	Bromoform	5.4		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.4		U
56-23-5	Carbon tetrachloride	5.4		U
108-90-7	Chlorobenzene	5.4		U
126-99-8	Chloroprene	5.4		U
124-48-1	Dibromochloromethane	5.4		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	54		U
67-66-3	Chloroform	5.4		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.4		U
110-57-6	trans-1,4-Dichloro-2-butene	5.4		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.4		U
107-06-2	1,2-Dichloroethane	5.4		U
75-35-4	1,1-Dichloroethene	5.4		U
156-59-2	cis-1,2-Dichloroethene	2.7		U
156-60-5	trans-1,2-Dichloroethene	2.7		U
540-59-0	1,2-Dichloroethene (total)	5.4		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150133 002

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/15/00
 Work Order: DG9LQ102 Date Extracted: 07/21/00
 Dilution factor: 0.97 Date Analyzed: 07/21/00
 Moisture %: 10

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-63-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.4		U
10061-01-5	cis-1,3-Dichloropropene	5.4		U
10061-02-6	trans-1,3-Dichloropropene	5.4		U
100-41-4	Ethylbenzene	5.4		U
97-63-2	Ethyl methacrylate	5.4		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	22		U
74-88-4	Iodomethane	5.4		U
78-83-1	Isobutyl alcohol	220		U
126-98-7	Methacrylonitrile	5.4		U
75-09-2	Methylene chloride	1.6	J B	
80-62-6	Methyl methacrylate	5.4		U
107-12-0	Propionitrile	22		U
100-42-5	Styrene	5.4		U
630-20-6	1,1,1,2-Tetrachloroethane	5.4		U
79-34-5	1,1,2,2-Tetrachloroethane	5.4		U
127-18-4	Tetrachloroethene	5.4		U
108-88-3	Toluene	5.4		U
71-55-6	1,1,1-Trichloroethane	5.4		U
79-00-5	1,1,2-Trichloroethane	5.4		U
79-01-6	Trichloroethene	5.4		U
96-18-4	1,2,3-Trichloropropane	5.4		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.4		U
1634-04-4	Methyl tert-butyl ether	22		U
106-93-4	1,2-Dibromoethane (EDB)	5.4		U
78-93-3	2-Butanone (MEK)	22		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150133 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LQ102

Date Extracted: 07/21/00

Dilution factor: 0.97

Date Analyzed: 07/21/00

Moisture %: 10

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-63-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	22		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150133 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LR102

Date Extracted: 07/21/00

Dilution factor: 1.03

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-64-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	4.1		J B
75-05-8	Acetonitrile	130		U
107-02-8	Acrolein	130		U
107-13-1	Acrylonitrile	130		U
71-43-2	Benzene	6.3		U
75-27-4	Bromodichloromethane	6.3		U
75-25-2	Bromoform	6.3		U
74-83-9	Bromomethane	13		U
75-15-0	Carbon disulfide	6.3		U
56-23-5	Carbon tetrachloride	6.3		U
108-90-7	Chlorobenzene	6.3		U
126-99-8	Chloroprene	6.3		U
124-48-1	Dibromochloromethane	6.3		U
96-12-8	1,2-Dibromo-3-chloropropane	13		U
75-00-3	Chloroethane	13		U
110-75-8	2-Chloroethyl vinyl ether	63		U
67-66-3	Chloroform	6.3		U
74-87-3	Chloromethane	13		U
107-05-1	Allyl chloride	13		U
74-95-3	Dibromomethane	6.3		U
110-57-6	trans-1,4-Dichloro-2-butene	6.3		U
75-71-8	Dichlorodifluoromethane	13		U
75-34-3	1,1-Dichloroethane	6.3		U
107-06-2	1,2-Dichloroethane	6.3		U
75-35-4	1,1-Dichloroethene	6.3		U
156-59-2	cis-1,2-Dichloroethene	3.1		U
156-60-5	trans-1,2-Dichloroethene	3.1		U
540-59-0	1,2-Dichloroethene (total)	6.3		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LR102

Date Extracted: 07/21/00

Dilution factor: 1.03

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-64-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.3		U
10061-01-5	cis-1,3-Dichloropropene	6.3		U
10061-02-6	trans-1,3-Dichloropropene	6.3		U
100-41-4	Ethylbenzene	6.3		U
97-63-2	Ethyl methacrylate	6.3		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.3		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.3		U
75-09-2	Methylene chloride	6.3		U
80-62-6	Methyl methacrylate	6.3		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.3		U
630-20-6	1,1,1,2-Tetrachloroethane	6.3		U
79-34-5	1,1,2,2-Tetrachloroethane	6.3		U
127-18-4	Tetrachloroethene	6.3		U
108-88-3	Toluene	6.3		U
71-55-6	1,1,1-Trichloroethane	6.3		U
79-00-5	1,1,2-Trichloroethane	6.3		U
79-01-6	Trichloroethene	6.3		U
96-18-4	1,2,3-Trichloropropane	6.3		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.3		U
1634-04-4	Methyl tert-butyl ether	25		U
106-93-4	1,2-Dibromoethane (EDB)	6.3		U
78-93-3	2-Butanone (MEK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LR102

Date Extracted: 07/21/00

Dilution factor: 1.03

Date Analyzed: 07/21/00

Moisture %: 18

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-64-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LT102

Date Extracted: 07/21/00

Dilution factor: 1.1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-65-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	6.2		J B
75-05-8	Acetonitrile	140		U
107-02-8	Acrolein	140		U
107-13-1	Acrylonitrile	140		U
71-43-2	Benzene	6.8		U
75-27-4	Bromodichloromethane	6.8		U
75-25-2	Bromoform	6.8		U
74-83-9	Bromomethane	14		U
75-15-0	Carbon disulfide	6.8		U
56-23-5	Carbon tetrachloride	6.8		U
108-90-7	Chlorobenzene	6.8		U
126-99-8	Chloroprene	6.8		U
124-48-1	Dibromochloromethane	6.8		U
96-12-8	1,2-Dibromo-3-chloropropane	14		U
75-00-3	Chloroethane	14		U
110-75-8	2-Chloroethyl vinyl ether	68		U
67-66-3	Chloroform	6.8		U
74-87-3	Chloromethane	14		U
107-05-1	Allyl chloride	14		U
74-95-3	Dibromomethane	6.8		U
110-57-6	trans-1,4-Dichloro-2-butene	6.8		U
75-71-8	Dichlorodifluoromethane	14		U
75-34-3	1,1-Dichloroethane	6.8		U
107-06-2	1,2-Dichloroethane	6.8		U
75-35-4	1,1-Dichloroethene	6.8		U
156-59-2	cis-1,2-Dichloroethene	3.4		U
156-60-5	trans-1,2-Dichloroethene	3.4		U
540-59-0	1,2-Dichloroethene (total)	6.8		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150133 004

Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/15/00
 Work Order: DG9LT102 Date Extracted: 07/21/00
 Dilution factor: 1.1 Date Analyzed: 07/21/00
 Moisture %: 20

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-65-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.8		U
10061-01-5	cis-1,3-Dichloropropene	6.8		U
10061-02-6	trans-1,3-Dichloropropene	6.8		U
100-41-4	Ethylbenzene	6.8		U
97-63-2	Ethyl methacrylate	6.8		U
75-69-4	Trichlorofluoromethane	14		U
591-78-6	2-Hexanone	27		U
74-88-4	Iodomethane	6.8		U
78-83-1	Isobutyl alcohol	270		U
126-98-7	Methacrylonitrile	6.8		U
75-09-2	Methylene chloride	2.1		J B
80-62-6	Methyl methacrylate	6.8		U
107-12-0	Propionitrile	27		U
100-42-5	Styrene	6.8		U
630-20-6	1,1,1,2-Tetrachloroethane	6.8		U
79-34-5	1,1,2,2-Tetrachloroethane	6.8		U
127-18-4	Tetrachloroethene	6.8		U
108-88-3	Toluene	6.8		U
71-55-6	1,1,1-Trichloroethane	6.8		U
79-00-5	1,1,2-Trichloroethane	6.8		U
79-01-6	Trichloroethene	6.8		U
96-18-4	1,2,3-Trichloropropane	6.8		U
108-05-4	Vinyl acetate	14		U
75-01-4	Vinyl chloride	14		U
1330-20-7	Xylenes (total)	6.8		U
1634-04-4	Methyl tert-butyl ether	27		U
106-93-4	1,2-Dibromoethane (EDB)	6.8		U
78-93-3	2-Butanone (MEK)	27		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LT102

Date Extracted: 07/21/00

Dilution factor: 1.1

Date Analyzed: 07/21/00

Moisture %: 20

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-65-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	27		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L9102

Date Extracted: 07/21/00

Dilution factor: 1.07

Date Analyzed: 07/21/00

Moisture %: 12

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	3.5		J B
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.1		U
75-27-4	Bromodichloromethane	6.1		U
75-25-2	Bromoform	6.1		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.1		U
56-23-5	Carbon tetrachloride	6.1		U
108-90-7	Chlorobenzene	6.1		U
126-99-8	Chloroprene	6.1		U
124-48-1	Dibromochloromethane	6.1		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	61		U
67-66-3	Chloroform	6.1		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.1		U
110-57-6	trans-1,4-Dichloro-2-butene	6.1		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.1		U
107-06-2	1,2-Dichloroethane	6.1		U
75-35-4	1,1-Dichloroethene	6.1		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	6.1		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L9102

Date Extracted: 07/21/00

Dilution factor: 1.07

Date Analyzed: 07/21/00

Moisture %: 12

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.1		U
10061-01-5	cis-1,3-Dichloropropene	6.1		U
10061-02-6	trans-1,3-Dichloropropene	6.1		U
100-41-4	Ethylbenzene	6.1		U
97-63-2	Ethyl methacrylate	6.1		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	6.1		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	6.1		U
75-09-2	Methylene chloride	6.1		U
80-62-6	Methyl methacrylate	6.1		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	6.1		U
630-20-6	1,1,1,2-Tetrachloroethane	6.1		U
79-34-5	1,1,2,2-Tetrachloroethane	6.1		U
127-18-4	Tetrachloroethene	6.1		U
108-88-3	Toluene	6.1		U
71-55-6	1,1,1-Trichloroethane	6.1		U
79-00-5	1,1,2-Trichloroethane	6.1		U
79-01-6	Trichloroethene	6.1		U
96-18-4	1,2,3-Trichloropropane	6.1		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	6.1		U
1634-04-4	Methyl tert-butyl ether	24		U
106-93-4	1,2-Dibromoethane (EDB)	6.1		U
78-93-3	2-Butanone (MEK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 007

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9L9102

Date Extracted: 07/21/00

Dilution factor: 1.07

Date Analyzed: 07/21/00

Moisture %: 12

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LV102

Date Extracted: 07/21/00

Dilution factor: 1.04

Date Analyzed: 07/21/00

Moisture %: 8.2

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	3.4		J B
75-05-8	Acetonitrile	110		U
107-02-8	Acrolein	110		U
107-13-1	Acrylonitrile	110		U
71-43-2	Benzene	5.7		U
75-27-4	Bromodichloromethane	5.7		U
75-25-2	Bromoform	5.7		U
74-83-9	Bromomethane	11		U
75-15-0	Carbon disulfide	5.7		U
56-23-5	Carbon tetrachloride	5.7		U
108-90-7	Chlorobenzene	5.7		U
126-99-8	Chloroprene	5.7		U
124-48-1	Dibromochloromethane	5.7		U
96-12-8	1,2-Dibromo-3-chloropropane	11		U
75-00-3	Chloroethane	11		U
110-75-8	2-Chloroethyl vinyl ether	57		U
67-66-3	Chloroform	5.7		U
74-87-3	Chloromethane	11		U
107-05-1	Allyl chloride	11		U
74-95-3	Dibromomethane	5.7		U
110-57-6	trans-1,4-Dichloro-2-butene	5.7		U
75-71-8	Dichlorodifluoromethane	11		U
75-34-3	1,1-Dichloroethane	5.7		U
107-06-2	1,2-Dichloroethane	5.7		U
75-35-4	1,1-Dichloroethene	5.7		U
156-59-2	cis-1,2-Dichloroethene	2.8		U
156-60-5	trans-1,2-Dichloroethene	2.8		U
540-59-0	1,2-Dichloroethene (total)	5.7		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LV102

Date Extracted: 07/21/00

Dilution factor: 1.04

Date Analyzed: 07/21/00

Moisture %: 8.2

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.7		U
10061-01-5	cis-1,3-Dichloropropene	5.7		U
10061-02-6	trans-1,3-Dichloropropene	5.7		U
100-41-4	Ethylbenzene	5.7		U
97-63-2	Ethyl methacrylate	5.7		U
75-69-4	Trichlorofluoromethane	11		U
591-78-6	2-Hexanone	23		U
74-88-4	Iodomethane	5.7		U
78-83-1	Isobutyl alcohol	230		U
126-98-7	Methacrylonitrile	5.7		U
75-09-2	Methylene chloride	1.7		J E
80-62-6	Methyl methacrylate	5.7		U
107-12-0	Propionitrile	23		U
100-42-5	Styrene	5.7		U
630-20-6	1,1,1,2-Tetrachloroethane	5.7		U
79-34-5	1,1,2,2-Tetrachloroethane	5.7		U
127-18-4	Tetrachloroethene	5.7		U
108-88-3	Toluene	5.7		U
71-55-6	1,1,1-Trichloroethane	5.7		U
79-00-5	1,1,2-Trichloroethane	5.7		U
79-01-6	Trichloroethene	5.7		U
96-18-4	1,2,3-Trichloropropane	5.7		U
108-05-4	Vinyl acetate	11		U
75-01-4	Vinyl chloride	11		U
1330-20-7	Xylenes (total)	5.7		U
1634-04-4	Methyl tert-butyl ether	23		U
106-93-4	1,2-Dibromoethane (EDB)	5.7		U
78-93-3	2-Butanone (MEK)	23		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021
Matrix: (soil/water) SO Lab Sample ID: A0G150133 005
Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)
Sample WT/Vol: 5 / g Date Received: 07/15/00
Work Order: DG9LV102 Date Extracted: 07/21/00
Dilution factor: 1.04 Date Analyzed: 07/21/00
Moisture %: 8.2
 QC Batch: 0203196
Client Sample Id: MPT-G4-SU-DU04

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	23	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150133 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LW102

Date Extracted: 07/21/00

Dilution factor: 0.96

Date Analyzed: 07/21/00

Moisture %: 19

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	6.5		J B
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	5.9		U
75-27-4	Bromodichloromethane	5.9		U
75-25-2	Bromoform	5.9		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	5.9		U
56-23-5	Carbon tetrachloride	5.9		U
108-90-7	Chlorobenzene	5.9		U
126-99-8	Chloroprene	5.9		U
124-48-1	Dibromochloromethane	5.9		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	59		U
67-66-3	Chloroform	5.9		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	5.9		U
110-57-6	trans-1,4-Dichloro-2-butene	5.9		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	5.9		U
107-06-2	1,2-Dichloroethane	5.9		U
75-35-4	1,1-Dichloroethene	5.9		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	5.9		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150133 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LW102

Date Extracted: 07/21/00

Dilution factor: 0.96

Date Analyzed: 07/21/00

Moisture %: 19

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	5.9		U
10061-01-5	cis-1,3-Dichloropropene	5.9		U
10061-02-6	trans-1,3-Dichloropropene	5.9		U
100-41-4	Ethylbenzene	5.9		U
97-63-2	Ethyl methacrylate	5.9		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	5.9		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	5.9		U
75-09-2	Methylene chloride	1.6		J B
80-62-6	Methyl methacrylate	5.9		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	5.9		U
630-20-6	1,1,1,2-Tetrachloroethane	5.9		U
79-34-5	1,1,2,2-Tetrachloroethane	5.9		U
127-18-4	Tetrachloroethene	5.9		U
108-88-3	Toluene	5.9		U
71-55-6	1,1,1-Trichloroethane	5.9		U
79-00-5	1,1,2-Trichloroethane	5.9		U
79-01-6	Trichloroethene	5.9		U
96-18-4	1,2,3-Trichloropropane	5.9		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	5.9		U
1634-04-4	Methyl tert-butyl ether	24		U
106-93-4	1,2-Dibromoethane (EDB)	5.9		U
78-93-3	2-Butanone (MEK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 006

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/15/00

Work Order: DG9LW102

Date Extracted: 07/21/00

Dilution factor: 0.96

Date Analyzed: 07/21/00

Moisture %: 19

QC Batch: 0203196

Client Sample Id: MPT-G4-SU-DU05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9L010W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 14

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-56-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	380		U
205-99-2	Benzo(b)fluoranthene	380		U
207-08-9	Benzo(k)fluoranthene	380		U
191-24-2	Benzo(ghi)perylene	380		U
50-32-8	Benzo(a)pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	770		U
53-70-3	Dibenz(a,h)anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9L010W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 14

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-56-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	380		U
95-50-1	1,2-Dichlorobenzene	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	380		U
87-65-0	2,6-Dichlorophenol	380		U
84-66-2	Diethyl phthalate	380		U
60-11-7	p-Dimethylaminoazobenzene	770		U
57-97-6	7,12-Dimethylbenz(a)anthracene	770		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	380		U
131-11-3	Dimethyl phthalate	380		U
117-84-0	Di-n-octyl phthalate	380		U
99-65-0	1,3-Dinitrobenzene	380		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770		U
123-91-1	1,4-Dioxane	380		U
122-39-4	Diphenylamine	380		U
62-50-0	Ethyl methanesulfonate	380		U
206-44-0	Fluoranthene	380		U
86-73-7	Fluorene	380		U
118-74-1	Hexachlorobenzene	380		U
87-68-3	Hexachlorobutadiene	380		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9L010W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 14

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-56-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	380		U
1888-71-7	Hexachloropropene	3800		U
193-39-5	Indeno(1,2,3-cd)pyrene	380		U
78-59-1	Isophorone	380		U
120-58-1	Isosafrole	770		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	770		U
56-49-5	3-Methylcholanthrene	770		U
66-27-3	Methyl methanesulfonate	380		U
91-57-6	2-Methylnaphthalene	380		U
95-48-7	2-Methylphenol	380		U
108-39-4	3-Methylphenol	380		U
106-44-5	4-Methylphenol	380		U
91-20-3	Naphthalene	380		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	380		U
91-59-8	2-Naphthylamine	380		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	380		U
88-75-5	2-Nitrophenol	380		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3800		U
924-16-3	N-Nitrosodi-n-butylamine	380		U
55-18-5	N-Nitrosodiethylamine	380		U
62-75-9	N-Nitrosodimethylamine	380		U
621-64-7	N-Nitrosodi-n-propylamine	380		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9L010W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 14

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-56-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	380		U
10595-95-6	N-Nitrosomethylethylamine	380		U
59-89-2	N-Nitrosomorpholine	380		U
100-75-4	N-Nitrosopiperidine	380		U
930-55-2	N-Nitrosopyrrolidine	380		U
99-55-8	5-Nitro-o-toluidine	770		U
608-93-5	Pentachlorobenzene	380		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	770		U
85-01-8	Phenanthrene	380		U
108-95-2	Phenol	380		U
106-50-3	p-Phenylene diamine	3800		U
109-06-8	2-Picoline	770		U
23950-58-5	Pronamide	770		U
129-00-0	Pyrene	380		U
110-86-1	Pyridine	770		U
94-59-7	Safrole	770		U
95-94-3	1,2,4,5-Tetrachlorobenzene	380		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	380		U
95-95-4	2,4,5-Trichlorophenol	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	380		U
510-15-6	Chlorobenzilate	380		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9L010W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 14

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-56-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		770	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 07/15/00

Work Order: DG9L410W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-57-03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
98-86-2	Acetophenone	390		U
53-96-3	2-Acetylaminofluorene	3900		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo (a) anthracene	390		U
205-99-2	Benzo (b) fluoranthene	390		U
207-08-9	Benzo (k) fluoranthene	390		U
191-24-2	Benzo (ghi) perylene	390		U
50-32-8	Benzo (a) pyrene	390		U
100-51-6	Benzyl alcohol	390		U
111-91-1	bis (2-Chloroethoxy) methane	390		U
111-44-4	bis (2-Chloroethyl) ether	390		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	390		U
117-81-7	bis (2-Ethylhexyl) phthalate	390		U
101-55-3	4-Bromophenyl phenyl ether	390		U
85-68-7	Butyl benzyl phthalate	390		U
106-47-8	4-Chloroaniline	390		U
59-50-7	4-Chloro-3-methylphenol	390		U
91-58-7	2-Chloronaphthalene	390		U
95-57-8	2-Chlorophenol	390		U
7005-72-3	4-Chlorophenyl phenyl ether	390		U
218-01-9	Chrysene	390		U
2303-16-4	Diallate	780		U
53-70-3	Dibenz (a, h) anthracene	390		U
132-64-9	Dibenzofuran	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 07/15/00

Work Order: DG9L410W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-57-03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	390		U
95-50-1	1,2-Dichlorobenzene	390		U
541-73-1	1,3-Dichlorobenzene	390		U
106-46-7	1,4-Dichlorobenzene	390		U
91-94-1	3,3'-Dichlorobenzidine	1900		U
120-83-2	2,4-Dichlorophenol	390		U
87-65-0	2,6-Dichlorophenol	390		U
84-66-2	Diethyl phthalate	390		U
60-11-7	p-Dimethylaminoazobenzene	780		U
57-97-6	7,12-Dimethylbenz(a)anthrace	780		U
119-93-7	3,3'-Dimethylbenzidine	1900		U
105-67-9	2,4-Dimethylphenol	390		U
131-11-3	Dimethyl phthalate	390		U
117-84-0	Di-n-octyl phthalate	390		U
99-65-0	1,3-Dinitrobenzene	390		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
51-28-5	2,4-Dinitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	390		U
606-20-2	2,6-Dinitrotoluene	390		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	780		U
123-91-1	1,4-Dioxane	390		U
122-39-4	Diphenylamine	390		U
62-50-0	Ethyl methanesulfonate	390		U
206-44-0	Fluoranthene	390		U
86-73-7	Fluorene	390		U
118-74-1	Hexachlorobenzene	390		U
87-68-3	Hexachlorobutadiene	390		U
77-47-4	Hexachlorocyclopentadiene	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 07/15/00

Work Order: DG9L410W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-57-03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	390		U
1888-71-7	Hexachloropropene	3900		U
193-39-5	Indeno (1,2,3-cd)pyrene	390		U
78-59-1	Isophorone	390		U
120-58-1	Isosafrole	780		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	780		U
56-49-5	3-Methylcholanthrene	780		U
66-27-3	Methyl methanesulfonate	390		U
91-57-6	2-Methylnaphthalene	390		U
95-48-7	2-Methylphenol	390		U
108-39-4	3-Methylphenol	390		U
106-44-5	4-Methylphenol	390		U
91-20-3	Naphthalene	390		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	390		U
91-59-8	2-Naphthylamine	390		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	390		U
88-75-5	2-Nitrophenol	390		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3900		U
924-16-3	N-Nitrosodi-n-butylamine	390		U
55-18-5	N-Nitrosodiethylamine	390		U
62-75-9	N-Nitrosodimethylamine	390		U
621-64-7	N-Nitrosodi-n-propylamine	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 07/15/00

Work Order: DG9L410W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-57-03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
86-30-6	N-Nitrosodiphenylamine	390	U
10595-95-6	N-Nitrosomethylethylamine	390	U
59-89-2	N-Nitrosomorpholine	390	U
100-75-4	N-Nitrosopiperidine	390	U
930-55-2	N-Nitrosopyrrolidine	390	U
99-55-8	5-Nitro-o-toluidine	780	U
608-93-5	Pentachlorobenzene	390	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	780	U
85-01-8	Phenanthrene	390	U
108-95-2	Phenol	390	U
106-50-3	p-Phenylene diamine	3900	U
109-06-8	2-Picoline	780	U
23950-58-5	Pronamide	780	U
129-00-0	Pyrene	390	U
110-86-1	Pyridine	780	U
94-59-7	Safrole	780	U
95-94-3	1,2,4,5-Tetrachlorobenzene	390	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	390	U
510-15-6	Chlorobenzilate	390	U
122-09-8	a,a-Dimethylphenethylamine	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 07/15/00

Work Order: DG9L410W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 15

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-57-03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	780		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L510W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 16

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-58-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	390		U
208-96-8	Acenaphthylene	390		U
98-86-2	Acetophenone	390		U
53-96-3	2-Acetylaminofluorene	3900		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	390		U
120-12-7	Anthracene	390		U
56-55-3	Benzo(a)anthracene	390		U
205-99-2	Benzo(b)fluoranthene	390		U
207-08-9	Benzo(k)fluoranthene	390		U
191-24-2	Benzo(ghi)perylene	390		U
50-32-8	Benzo(a)pyrene	390		U
100-51-6	Benzyl alcohol	390		U
111-91-1	bis(2-Chloroethoxy)methane	390		U
111-44-4	bis(2-Chloroethyl) ether	390		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390		U
117-81-7	bis(2-Ethylhexyl) phthalate	390		U
101-55-3	4-Bromophenyl phenyl ether	390		U
85-68-7	Butyl benzyl phthalate	390		U
106-47-8	4-Chloroaniline	390		U
59-50-7	4-Chloro-3-methylphenol	390		U
91-58-7	2-Chloronaphthalene	390		U
95-57-8	2-Chlorophenol	390		U
7005-72-3	4-Chlorophenyl phenyl ether	390		U
218-01-9	Chrysene	390		U
2303-16-4	Diallate	780		U
53-70-3	Dibenz(a,h)anthracene	390		U
132-64-9	Dibenzofuran	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L510W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 16

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-58-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	390	U
95-50-1	1,2-Dichlorobenzene	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	390	U
87-65-0	2,6-Dichlorophenol	390	U
84-66-2	Diethyl phthalate	390	U
60-11-7	p-Dimethylaminoazobenzene	780	U
57-97-6	7,12-Dimethylbenz(a)anthrace	780	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	390	U
131-11-3	Dimethyl phthalate	390	U
117-84-0	Di-n-octyl phthalate	390	U
99-65-0	1,3-Dinitrobenzene	390	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
88-85-7	2-sec-Butyl-4,6-dinitropheno	780	U
123-91-1	1,4-Dioxane	390	U
122-39-4	Diphenylamine	390	U
62-50-0	Ethyl methanesulfonate	390	U
206-44-0	Fluoranthene	390	U
86-73-7	Fluorene	390	U
118-74-1	Hexachlorobenzene	390	U
87-68-3	Hexachlorobutadiene	390	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L510W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 16

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-58-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	390		U
1888-71-7	Hexachloropropene	3900		U
193-39-5	Indeno(1,2,3-cd)pyrene	390		U
78-59-1	Isophorone	390		U
120-58-1	Isosafrole	780		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	780		U
56-49-5	3-Methylcholanthrene	780		U
66-27-3	Methyl methanesulfonate	390		U
91-57-6	2-Methylnaphthalene	390		U
95-48-7	2-Methylphenol	390		U
108-39-4	3-Methylphenol	390		U
106-44-5	4-Methylphenol	390		U
91-20-3	Naphthalene	390		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	390		U
91-59-8	2-Naphthylamine	390		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	390		U
88-75-5	2-Nitrophenol	390		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3900		U
924-16-3	N-Nitrosodi-n-butylamine	390		U
55-18-5	N-Nitrosodiethylamine	390		U
62-75-9	N-Nitrosodimethylamine	390		U
621-64-7	N-Nitrosodi-n-propylamine	390		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L510W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 16

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-58-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	390		U
10595-95-6	N-Nitrosomethylethylamine	390		U
59-89-2	N-Nitrosomorpholine	390		U
100-75-4	N-Nitrosopiperidine	390		U
930-55-2	N-Nitrosopyrrolidine	390		U
99-55-8	5-Nitro-o-toluidine	780		U
608-93-5	Pentachlorobenzene	390		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	780		U
85-01-8	Phenanthrene	390		U
108-95-2	Phenol	390		U
106-50-3	p-Phenylene diamine	3900		U
109-06-8	2-Picoline	780		U
23950-58-5	Pronamide	780		U
129-00-0	Pyrene	390		U
110-86-1	Pyridine	780		U
94-59-7	Safrole	780		U
95-94-3	1,2,4,5-Tetrachlorobenzene	390		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	390		U
95-95-4	2,4,5-Trichlorophenol	390		U
88-06-2	2,4,6-Trichlorophenol	390		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	390		U
510-15-6	Chlorobenzilate	390		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L510W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 16

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-58-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		780	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9L610W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-59-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	370	U
208-96-8	Acenaphthylene	370	U
98-86-2	Acetophenone	370	U
53-96-3	2-Acetylaminofluorene	3700	U
92-67-1	4-Aminobiphenyl	1800	U
62-53-3	Aniline	370	U
120-12-7	Anthracene	370	U
56-55-3	Benzo (a) anthracene	370	U
205-99-2	Benzo (b) fluoranthene	370	U
207-08-9	Benzo (k) fluoranthene	370	U
191-24-2	Benzo (ghi) perylene	370	U
50-32-8	Benzo (a) pyrene	370	U
100-51-6	Benzyl alcohol	370	U
111-91-1	bis (2-Chloroethoxy) methane	370	U
111-44-4	bis (2-Chloroethyl) ether	370	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	370	U
117-81-7	bis (2-Ethylhexyl) phthalate	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
85-68-7	Butyl benzyl phthalate	370	U
106-47-8	4-Chloroaniline	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-58-7	2-Chloronaphthalene	370	U
95-57-8	2-Chlorophenol	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
218-01-9	Chrysene	370	U
2303-16-4	Diallate	740	U
53-70-3	Dibenz (a, h) anthracene	370	U
132-64-9	Dibenzofuran	370	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9L610W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-59-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	370		U
95-50-1	1,2-Dichlorobenzene	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
91-94-1	3,3'-Dichlorobenzidine	1800		U
120-83-2	2,4-Dichlorophenol	370		U
87-65-0	2,6-Dichlorophenol	370		U
84-66-2	Diethyl phthalate	370		U
60-11-7	p-Dimethylaminoazobenzene	740		U
57-97-6	7,12-Dimethylbenz(a)anthracene	740		U
119-93-7	3,3'-Dimethylbenzidine	1800		U
105-67-9	2,4-Dimethylphenol	370		U
131-11-3	Dimethyl phthalate	370		U
117-84-0	Di-n-octyl phthalate	370		U
99-65-0	1,3-Dinitrobenzene	370		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
51-28-5	2,4-Dinitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	370		U
606-20-2	2,6-Dinitrotoluene	370		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	740		U
123-91-1	1,4-Dioxane	370		U
122-39-4	Diphenylamine	370		U
62-50-0	Ethyl methanesulfonate	370		U
206-44-0	Fluoranthene	370		U
86-73-7	Fluorene	370		U
118-74-1	Hexachlorobenzene	370		U
87-68-3	Hexachlorobutadiene	370		U
77-47-4	Hexachlorocyclopentadiene	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9L610W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-59-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	370		U
1888-71-7	Hexachloropropene	3700		U
193-39-5	Indeno(1,2,3-cd)pyrene	370		U
78-59-1	Isophorone	370		U
120-58-1	Isosafrole	740		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	740		U
56-49-5	3-Methylcholanthrene	740		U
66-27-3	Methyl methanesulfonate	370		U
91-57-6	2-Methylnaphthalene	370		U
95-48-7	2-Methylphenol	370		U
108-39-4	3-Methylphenol	370		U
106-44-5	4-Methylphenol	370		U
91-20-3	Naphthalene	370		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	370		U
91-59-8	2-Naphthylamine	370		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	370		U
88-75-5	2-Nitrophenol	370		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3700		U
924-16-3	N-Nitrosodi-n-butylamine	370		U
55-18-5	N-Nitrosodiethylamine	370		U
62-75-9	N-Nitrosodimethylamine	370		U
621-64-7	N-Nitrosodi-n-propylamine	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150130 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9L610W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-59-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	370		U
10595-95-6	N-Nitrosomethylethylamine	370		U
59-89-2	N-Nitrosomorpholine	370		U
100-75-4	N-Nitrosopiperidine	370		U
930-55-2	N-Nitrosopyrrolidine	370		U
99-55-8	5-Nitro-o-toluidine	740		U
608-93-5	Pentachlorobenzene	370		U
76-01-7	Pentachloroethane	1800		U
82-68-8	Pentachloronitrobenzene	1800		U
87-86-5	Pentachlorophenol	1800		U
62-44-2	Phenacetin	740		U
85-01-8	Phenanthrene	370		U
108-95-2	Phenol	370		U
106-50-3	p-Phenylene diamine	3700		U
109-06-8	2-Picoline	740		U
23950-58-5	Pronamide	740		U
129-00-0	Pyrene	370		U
110-86-1	Pyridine	740		U
94-59-7	Safrole	740		U
95-94-3	1,2,4,5-Tetrachlorobenzene	370		U
58-90-2	2,3,4,6-Tetrachlorophenol	1800		U
120-82-1	1,2,4-Trichlorobenzene	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
99-35-4	1,3,5-Trinitrobenzene	1800		U
86-74-8	Carbazole	370		U
510-15-6	Chlorobenzilate	370		U
122-09-8	a,a-Dimethylphenethylamine	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9L610W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-59-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		740	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/15/00

Work Order: DG9L710W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-60-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	410		U
208-96-8	Acenaphthylene	410		U
98-86-2	Acetophenone	410		U
53-96-3	2-Acetylaminofluorene	4100		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	410		U
120-12-7	Anthracene	410		U
56-55-3	Benzo (a) anthracene	410		U
205-99-2	Benzo (b) fluoranthene	410		U
207-08-9	Benzo (k) fluoranthene	410		U
191-24-2	Benzo (ghi) perylene	410		U
50-32-8	Benzo (a) pyrene	410		U
100-51-6	Benzyl alcohol	410		U
111-91-1	bis(2-Chloroethoxy) methane	410		U
111-44-4	bis(2-Chloroethyl) ether	410		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410		U
117-81-7	bis(2-Ethylhexyl) phthalate	410		U
101-55-3	4-Bromophenyl phenyl ether	410		U
85-68-7	Butyl benzyl phthalate	410		U
106-47-8	4-Chloroaniline	410		U
59-50-7	4-Chloro-3-methylphenol	410		U
91-58-7	2-Chloronaphthalene	410		U
95-57-8	2-Chlorophenol	410		U
7005-72-3	4-Chlorophenyl phenyl ether	410		U
218-01-9	Chrysene	410		U
2303-16-4	Diallate	810		U
53-70-3	Dibenz (a, h) anthracene	410		U
132-64-9	Dibenzofuran	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/15/00

Work Order: DG9L710W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-60-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	410		U
95-50-1	1,2-Dichlorobenzene	410		U
541-73-1	1,3-Dichlorobenzene	410		U
106-46-7	1,4-Dichlorobenzene	410		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	410		U
87-65-0	2,6-Dichlorophenol	410		U
84-66-2	Diethyl phthalate	410		U
60-11-7	p-Dimethylaminoazobenzene	810		U
57-97-6	7,12-Dimethylbenz(a)anthrace	810		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	410		U
131-11-3	Dimethyl phthalate	410		U
117-84-0	Di-n-octyl phthalate	410		U
99-65-0	1,3-Dinitrobenzene	410		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	410		U
606-20-2	2,6-Dinitrotoluene	410		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	810		U
123-91-1	1,4-Dioxane	410		U
122-39-4	Diphenylamine	410		U
62-50-0	Ethyl methanesulfonate	410		U
206-44-0	Fluoranthene	410		U
86-73-7	Fluorene	410		U
118-74-1	Hexachlorobenzene	410		U
87-68-3	Hexachlorobutadiene	410		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/15/00

Work Order: DG9L710W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-60-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	410		U
1888-71-7	Hexachloropropene	4100		U
193-39-5	Indeno (1,2,3-cd) pyrene	410		U
78-59-1	Isophorone	410		U
120-58-1	Isosafrole	810		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	810		U
56-49-5	3-Methylcholanthrene	810		U
66-27-3	Methyl methanesulfonate	410		U
91-57-6	2-Methylnaphthalene	410		U
95-48-7	2-Methylphenol	410		U
108-39-4	3-Methylphenol	410		U
106-44-5	4-Methylphenol	410		U
91-20-3	Naphthalene	410		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	410		U
91-59-8	2-Naphthylamine	410		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	410		U
88-75-5	2-Nitrophenol	410		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4100		U
924-16-3	N-Nitrosodi-n-butylamine	410		U
55-18-5	N-Nitrosodiethylamine	410		U
62-75-9	N-Nitrosodimethylamine	410		U
621-64-7	N-Nitrosodi-n-propylamine	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/15/00

Work Order: DG9L710W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-60-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	410		U
10595-95-6	N-Nitrosomethylethylamine	410		U
59-89-2	N-Nitrosomorpholine	410		U
100-75-4	N-Nitrosopiperidine	410		U
930-55-2	N-Nitrosopyrrolidine	410		U
99-55-8	5-Nitro-o-toluidine	810		U
608-93-5	Pentachlorobenzene	410		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	810		U
85-01-8	Phenanthrene	410		U
108-95-2	Phenol	410		U
106-50-3	p-Phenylene diamine	4100		U
109-06-8	2-Picoline	810		U
23950-58-5	Pronamide	810		U
129-00-0	Pyrene	410		U
110-86-1	Pyridine	810		U
94-59-7	Safrole	810		U
95-94-3	1,2,4,5-Tetrachlorobenzene	410		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	410		U
95-95-4	2,4,5-Trichlorophenol	410		U
88-06-2	2,4,6-Trichlorophenol	410		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	410		U
510-15-6	Chlorobenzilate	410		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.07 / g

Date Received: 07/15/00

Work Order: DG9L710W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-60-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	810		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9L810W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 28

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-61-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	460		U
208-96-8	Acenaphthylene	460		U
98-86-2	Acetophenone	460		U
53-96-3	2-Acetylaminofluorene	4600		U
92-67-1	4-Aminobiphenyl	2200		U
62-53-3	Aniline	460		U
120-12-7	Anthracene	460		U
56-55-3	Benzo(a)anthracene	460		U
205-99-2	Benzo(b)fluoranthene	460		U
207-08-9	Benzo(k)fluoranthene	460		U
191-24-2	Benzo(ghi)perylene	460		U
50-32-8	Benzo(a)pyrene	460		U
100-51-6	Benzyl alcohol	460		U
111-91-1	bis(2-Chloroethoxy)methane	460		U
111-44-4	bis(2-Chloroethyl) ether	460		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	460		U
117-81-7	bis(2-Ethylhexyl) phthalate	460		U
101-55-3	4-Bromophenyl phenyl ether	460		U
85-68-7	Butyl benzyl phthalate	460		U
106-47-8	4-Chloroaniline	460		U
59-50-7	4-Chloro-3-methylphenol	460		U
91-58-7	2-Chloronaphthalene	460		U
95-57-8	2-Chlorophenol	460		U
7005-72-3	4-Chlorophenyl phenyl ether	460		U
218-01-9	Chrysene	460		U
2303-16-4	Diallate	920		U
53-70-3	Dibenz(a,h)anthracene	460		U
132-64-9	Dibenzofuran	460		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150130 006

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DG9L810W Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: 28

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-61-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	460	U
95-50-1	1,2-Dichlorobenzene	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
91-94-1	3,3'-Dichlorobenzidine	2200	U
120-83-2	2,4-Dichlorophenol	460	U
87-65-0	2,6-Dichlorophenol	460	U
84-66-2	Diethyl phthalate	460	U
60-11-7	p-Dimethylaminoazobenzene	920	U
57-97-6	7,12-Dimethylbenz(a)anthrace	920	U
119-93-7	3,3'-Dimethylbenzidine	2200	U
105-67-9	2,4-Dimethylphenol	460	U
131-11-3	Dimethyl phthalate	460	U
117-84-0	Di-n-octyl phthalate	460	U
99-65-0	1,3-Dinitrobenzene	460	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
51-28-5	2,4-Dinitrophenol	2200	U
121-14-2	2,4-Dinitrotoluene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	920	U
123-91-1	1,4-Dioxane	460	U
122-39-4	Diphenylamine	460	U
62-50-0	Ethyl methanesulfonate	460	U
206-44-0	Fluoranthene	460	U
86-73-7	Fluorene	460	U
118-74-1	Hexachlorobenzene	460	U
87-68-3	Hexachlorobutadiene	460	U
77-47-4	Hexachlorocyclopentadiene	2200	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150130 006
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
 Work Order: DG9L810W Date Extracted: 07/18/00
 Dilution factor: 1 Date Analyzed: 07/24/00
 Moisture %: 28

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-61-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	460		U
1888-71-7	Hexachloropropene	4600		U
193-39-5	Indeno (1,2,3-cd)pyrene	460		U
78-59-1	Isophorone	460		U
120-58-1	Isosafrole	920		U
91-80-5	Methapyrilene	2200		U
95-53-4	o-Toluidine	920		U
56-49-5	3-Methylcholanthrene	920		U
66-27-3	Methyl methanesulfonate	460		U
91-57-6	2-Methylnaphthalene	460		U
95-48-7	2-Methylphenol	460		U
108-39-4	3-Methylphenol	460		U
106-44-5	4-Methylphenol	460		U
91-20-3	Naphthalene	460		U
130-15-4	1,4-Naphthoquinone	2200		U
134-32-7	1-Naphthylamine	460		U
91-59-8	2-Naphthylamine	460		U
88-74-4	2-Nitroaniline	2200		U
99-09-2	3-Nitroaniline	2200		U
100-01-6	4-Nitroaniline	2200		U
98-95-3	Nitrobenzene	460		U
88-75-5	2-Nitrophenol	460		U
100-02-7	4-Nitrophenol	2200		U
56-57-5	4-Nitroquinoline-1-oxide	4600		U
924-16-3	N-Nitrosodi-n-butylamine	460		U
55-18-5	N-Nitrosodiethylamine	460		U
62-75-9	N-Nitrosodimethylamine	460		U
621-64-7	N-Nitrosodi-n-propylamine	460		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9L810W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 28

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-61-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	460	U
10595-95-6	N-Nitrosomethylethylamine	460	U
59-89-2	N-Nitrosomorpholine	460	U
100-75-4	N-Nitrosopiperidine	460	U
930-55-2	N-Nitrosopyrrolidine	460	U
99-55-8	5-Nitro-o-toluidine	920	U
608-93-5	Pentachlorobenzene	460	U
76-01-7	Pentachloroethane	2200	U
82-68-8	Pentachloronitrobenzene	2200	U
87-86-5	Pentachlorophenol	2200	U
62-44-2	Phenacetin	920	U
85-01-8	Phenanthrene	460	U
108-95-2	Phenol	460	U
106-50-3	p-Phenylene diamine	4600	U
109-06-8	2-Picoline	920	U
23950-58-5	Pronamide	920	U
129-00-0	Pyrene	460	U
110-86-1	Pyridine	920	U
94-59-7	Safrole	920	U
95-94-3	1,2,4,5-Tetrachlorobenzene	460	U
58-90-2	2,3,4,6-Tetrachlorophenol	2200	U
120-82-1	1,2,4-Trichlorobenzene	460	U
95-95-4	2,4,5-Trichlorophenol	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
99-35-4	1,3,5-Trinitrobenzene	2200	U
86-74-8	Carbazole	460	U
510-15-6	Chlorobenzilate	460	U
122-09-8	a,a-Dimethylphenethylamine	2200	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150130 006
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DG9L810W Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: 28

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-61-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	920		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LJ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 7.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo(a)anthracene	360		U
205-99-2	Benzo(b)fluoranthene	360		U
207-08-9	Benzo(k)fluoranthene	360		U
191-24-2	Benzo(ghi)perylene	360		U
50-32-8	Benzo(a)pyrene	360		U
100-51-6	Benzyl alcohol	360		U
111-91-1	bis(2-Chloroethoxy)methane	360		U
111-44-4	bis(2-Chloroethyl) ether	360		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	360		U
117-81-7	bis(2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	360		U
2303-16-4	Diallate	710		U
53-70-3	Dibenz(a,h)anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LJ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 7.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	360		U
95-50-1	1,2-Dichlorobenzene	360		U
541-73-1	1,3-Dichlorobenzene	360		U
106-46-7	1,4-Dichlorobenzene	360		U
91-94-1	3,3'-Dichlorobenzidine	1700		U
120-83-2	2,4-Dichlorophenol	360		U
87-65-0	2,6-Dichlorophenol	360		U
84-66-2	Diethyl phthalate	360		U
60-11-7	p-Dimethylaminoazobenzene	710		U
57-97-6	7,12-Dimethylbenz(a)anthracene	710		U
119-93-7	3,3'-Dimethylbenzidine	1700		U
105-67-9	2,4-Dimethylphenol	360		U
131-11-3	Dimethyl phthalate	360		U
117-84-0	Di-n-octyl phthalate	360		U
99-65-0	1,3-Dinitrobenzene	360		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
51-28-5	2,4-Dinitrophenol	1700		U
121-14-2	2,4-Dinitrotoluene	360		U
606-20-2	2,6-Dinitrotoluene	360		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	710		U
123-91-1	1,4-Dioxane	360		U
122-39-4	Diphenylamine	360		U
62-50-0	Ethyl methanesulfonate	360		U
206-44-0	Fluoranthene	360		U
86-73-7	Fluorene	360		U
118-74-1	Hexachlorobenzene	360		U
87-68-3	Hexachlorobutadiene	360		U
77-47-4	Hexachlorocyclopentadiene	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LJ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 7.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	360		U
1888-71-7	Hexachloropropene	3600		U
193-39-5	Indeno (1,2,3-cd) pyrene	360		U
78-59-1	Isophorone	360		U
120-58-1	Isosafrole	710		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	710		U
56-49-5	3-Methylcholanthrene	710		U
66-27-3	Methyl methanesulfonate	360		U
91-57-6	2-Methylnaphthalene	360		U
95-48-7	2-Methylphenol	360		U
108-39-4	3-Methylphenol	360		U
106-44-5	4-Methylphenol	360		U
91-20-3	Naphthalene	360		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	360		U
91-59-8	2-Naphthylamine	360		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	360		U
88-75-5	2-Nitrophenol	360		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3600		U
924-16-3	N-Nitrosodi-n-butylamine	360		U
55-18-5	N-Nitrosodiethylamine	360		U
62-75-9	N-Nitrosodimethylamine	360		U
621-64-7	N-Nitrosodi-n-propylamine	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LJ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 7.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	360		U
10595-95-6	N-Nitrosomethylethylamine	360		U
59-89-2	N-Nitrosomorpholine	360		U
100-75-4	N-Nitrosopiperidine	360		U
930-55-2	N-Nitrosopyrrolidine	360		U
99-55-8	5-Nitro-o-toluidine	710		U
608-93-5	Pentachlorobenzene	360		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	710		U
85-01-8	Phenanthrene	360		U
108-95-2	Phenol	360		U
106-50-3	p-Phenylene diamine	3600		U
109-06-8	2-Picoline	710		U
23950-58-5	Pronamide	710		U
129-00-0	Pyrene	360		U
110-86-1	Pyridine	710		U
94-59-7	Safrole	710		U
95-94-3	1,2,4,5-Tetrachlorobenzene	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	360		U
95-95-4	2,4,5-Trichlorophenol	360		U
88-06-2	2,4,6-Trichlorophenol	360		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	360		U
510-15-6	Chlorobenzilate	360		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP021

Matrix: (soil/water) SO

Lab Sample ID:A0G150133 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LJ10W

Date Extracted:07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %:7.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-62-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
140-57-8	Aramite		710	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AQG150133 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 07/15/00

Work Order: DG9LQ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-63-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo(a)anthracene	370		U
205-99-2	Benzo(b)fluoranthene	370		U
207-08-9	Benzo(k)fluoranthene	370		U
191-24-2	Benzo(ghi)perylene	370		U
50-32-8	Benzo(a)pyrene	370		U
100-51-6	Benzyl alcohol	370		U
111-91-1	bis(2-Chloroethoxy)methane	370		U
111-44-4	bis(2-Chloroethyl) ether	370		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370		U
117-81-7	bis(2-Ethylhexyl) phthalate	370		U
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	370		U
2303-16-4	Diallate	740		U
53-70-3	Dibenz(a,h)anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 07/15/00

Work Order: DG9LQ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-63-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	370		U
95-50-1	1,2-Dichlorobenzene	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
91-94-1	3,3'-Dichlorobenzidine	1800		U
120-83-2	2,4-Dichlorophenol	370		U
87-65-0	2,6-Dichlorophenol	370		U
84-66-2	Diethyl phthalate	370		U
60-11-7	p-Dimethylaminoazobenzene	740		U
57-97-6	7,12-Dimethylbenz (a) anthrace	740		U
119-93-7	3,3'-Dimethylbenzidine	1800		U
105-67-9	2,4-Dimethylphenol	370		U
131-11-3	Dimethyl phthalate	370		U
117-84-0	Di-n-octyl phthalate	370		U
99-65-0	1,3-Dinitrobenzene	370		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
51-28-5	2,4-Dinitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	370		U
606-20-2	2,6-Dinitrotoluene	370		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	740		U
123-91-1	1,4-Dioxane	370		U
122-39-4	Diphenylamine	370		U
62-50-0	Ethyl methanesulfonate	370		U
206-44-0	Fluoranthene	370		U
86-73-7	Fluorene	370		U
118-74-1	Hexachlorobenzene	370		U
87-68-3	Hexachlorobutadiene	370		U
77-47-4	Hexachlorocyclopentadiene	1800		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150133 002

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g Date Received: 07/15/00
Work Order: DG9LQ10W Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-63-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	370		U
1888-71-7	Hexachloropropene	3700		U
193-39-5	Indeno (1, 2, 3-cd) pyrene	370		U
78-59-1	Isophorone	370		U
120-58-1	Isosafrole	740		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	740		U
56-49-5	3-Methylcholanthrene	740		U
66-27-3	Methyl methanesulfonate	370		U
91-57-6	2-Methylnaphthalene	370		U
95-48-7	2-Methylphenol	370		U
108-39-4	3-Methylphenol	370		U
106-44-5	4-Methylphenol	370		U
91-20-3	Naphthalene	370		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	370		U
91-59-8	2-Naphthylamine	370		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	370		U
88-75-5	2-Nitrophenol	370		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3700		U
924-16-3	N-Nitrosodi-n-butylamine	370		U
55-18-5	N-Nitrosodiethylamine	370		U
62-75-9	N-Nitrosodimethylamine	370		U
621-64-7	N-Nitrosodi-n-propylamine	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SO Lab Sample ID: A0G150133 002
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g Date Received: 07/15/00
 Work Order: DG9LQ10W Date Extracted: 07/18/00
 Dilution factor: 1 Date Analyzed: 07/24/00
 Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-63-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	370	U
10595-95-6	N-Nitrosomethylethylamine	370	U
59-89-2	N-Nitrosomorpholine	370	U
100-75-4	N-Nitrosopiperidine	370	U
930-55-2	N-Nitrosopyrrolidine	370	U
99-55-8	5-Nitro-o-toluidine	740	U
608-93-5	Pentachlorobenzene	370	U
76-01-7	Pentachloroethane	1800	U
82-68-8	Pentachloronitrobenzene	1800	U
87-86-5	Pentachlorophenol	1800	U
62-44-2	Phenacetin	740	U
85-01-8	Phenanthrene	370	U
108-95-2	Phenol	370	U
106-50-3	p-Phenylene diamine	3700	U
109-06-8	2-Picoline	740	U
23950-58-5	Pronamide	740	U
129-00-0	Pyrene	370	U
110-86-1	Pyridine	740	U
94-59-7	Safrole	740	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
99-35-4	1,3,5-Trinitrobenzene	1800	U
86-74-8	Carbazole	370	U
510-15-6	Chlorobenzilate	370	U
122-09-8	a,a-Dimethylphenethylamine	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.03 / g

Date Received: 07/15/00

Work Order: DG9LQ10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 10

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-63-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	740		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LR10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 18

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-64-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	400		U
208-96-8	Acenaphthylene	400		U
98-86-2	Acetophenone	400		U
53-96-3	2-Acetylaminofluorene	4000		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	400		U
120-12-7	Anthracene	400		U
56-55-3	Benzo (a) anthracene	400		U
205-99-2	Benzo (b) fluoranthene	400		U
207-08-9	Benzo (k) fluoranthene	400		U
191-24-2	Benzo (ghi) perylene	400		U
50-32-8	Benzo (a) pyrene	400		U
100-51-6	Benzyl alcohol	400		U
111-91-1	bis (2-Chloroethoxy) methane	400		U
111-44-4	bis (2-Chloroethyl) ether	400		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	400		U
117-81-7	bis (2-Ethylhexyl) phthalate	400		U
101-55-3	4-Bromophenyl phenyl ether	400		U
85-68-7	Butyl benzyl phthalate	400		U
106-47-8	4-Chloroaniline	400		U
59-50-7	4-Chloro-3-methylphenol	400		U
91-58-7	2-Chloronaphthalene	400		U
95-57-8	2-Chlorophenol	400		U
7005-72-3	4-Chlorophenyl phenyl ether	400		U
218-01-9	Chrysene	400		U
2303-16-4	Diallate	810		U
53-70-3	Dibenz (a, h) anthracene	400		U
132-64-9	Dibenzofuran	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LR10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 18

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-64-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	400	U
95-50-1	1,2-Dichlorobenzene	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	400	U
87-65-0	2,6-Dichlorophenol	400	U
84-66-2	Diethyl phthalate	400	U
60-11-7	p-Dimethylaminoazobenzene	810	U
57-97-6	7,12-Dimethylbenz(a)anthrace	810	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	400	U
131-11-3	Dimethyl phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
99-65-0	1,3-Dinitrobenzene	400	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	810	U
123-91-1	1,4-Dioxane	400	U
122-39-4	Diphenylamine	400	U
62-50-0	Ethyl methanesulfonate	400	U
206-44-0	Fluoranthene	400	U
86-73-7	Fluorene	400	U
118-74-1	Hexachlorobenzene	400	U
87-68-3	Hexachlorobutadiene	400	U
77-47-4	Hexachlorocyclopentadiene	2000	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LR10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 18

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-64-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	400		U
1888-71-7	Hexachloropropene	4000		U
193-39-5	Indeno (1,2,3-cd) pyrene	400		U
78-59-1	Isophorone	400		U
120-58-1	Isosafrole	810		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	810		U
56-49-5	3-Methylcholanthrene	810		U
66-27-3	Methyl methanesulfonate	400		U
91-57-6	2-Methylnaphthalene	400		U
95-48-7	2-Methylphenol	400		U
108-39-4	3-Methylphenol	400		U
106-44-5	4-Methylphenol	400		U
91-20-3	Naphthalene	400		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	400		U
91-59-8	2-Naphthylamine	400		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	400		U
88-75-5	2-Nitrophenol	400		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4000		U
924-16-3	N-Nitrosodi-n-butylamine	400		U
55-18-5	N-Nitrosodiethylamine	400		U
62-75-9	N-Nitrosodimethylamine	400		U
621-64-7	N-Nitrosodi-n-propylamine	400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LR10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 18

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-64-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	400		U
10595-95-6	N-Nitrosomethylethylamine	400		U
59-89-2	N-Nitrosomorpholine	400		U
100-75-4	N-Nitrosopiperidine	400		U
930-55-2	N-Nitrosopyrrolidine	400		U
99-55-8	5-Nitro-o-toluidine	810		U
608-93-5	Pentachlorobenzene	400		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	810		U
85-01-8	Phenanthrene	400		U
108-95-2	Phenol	400		U
106-50-3	p-Phenylene diamine	4000		U
109-06-8	2-Picoline	810		U
23950-58-5	Pronamide	810		U
129-00-0	Pyrene	400		U
110-86-1	Pyridine	810		U
94-59-7	Safrole	810		U
95-94-3	1,2,4,5-Tetrachlorobenzene	400		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	400		U
95-95-4	2,4,5-Trichlorophenol	400		U
88-06-2	2,4,6-Trichlorophenol	400		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	400		U
510-15-6	Chlorobenzilate	400		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9LT10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 20

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-65-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	410		U
208-96-8	Acenaphthylene	410		U
98-86-2	Acetophenone	410		U
53-96-3	2-Acetylaminofluorene	4100		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	410		U
120-12-7	Anthracene	410		U
56-55-3	Benzo (a) anthracene	410		U
205-99-2	Benzo (b) fluoranthene	410		U
207-08-9	Benzo (k) fluoranthene	410		U
191-24-2	Benzo (ghi) perylene	410		U
50-32-8	Benzo (a) pyrene	410		U
100-51-6	Benzyl alcohol	410		U
111-91-1	bis (2-Chloroethoxy) methane	410		U
111-44-4	bis (2-Chloroethyl) ether	410		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	410		U
117-81-7	bis (2-Ethylhexyl) phthalate	410		U
101-55-3	4-Bromophenyl phenyl ether	410		U
85-68-7	Butyl benzyl phthalate	410		U
106-47-8	4-Chloroaniline	410		U
59-50-7	4-Chloro-3-methylphenol	410		U
91-58-7	2-Chloronaphthalene	410		U
95-57-8	2-Chlorophenol	410		U
7005-72-3	4-Chlorophenyl phenyl ether	410		U
218-01-9	Chrysene	410		U
2303-16-4	Diallate	820		U
53-70-3	Dibenz (a, h) anthracene	410		U
132-64-9	Dibenzofuran	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9LT10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 20

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-65-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	410		U
95-50-1	1,2-Dichlorobenzene	410		U
541-73-1	1,3-Dichlorobenzene	410		U
106-46-7	1,4-Dichlorobenzene	410		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	410		U
87-65-0	2,6-Dichlorophenol	410		U
84-66-2	Diethyl phthalate	410		U
60-11-7	p-Dimethylaminoazobenzene	820		U
57-97-6	7,12-Dimethylbenz(a)anthracene	820		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	410		U
131-11-3	Dimethyl phthalate	410		U
117-84-0	Di-n-octyl phthalate	410		U
99-65-0	1,3-Dinitrobenzene	410		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	410		U
606-20-2	2,6-Dinitrotoluene	410		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	820		U
123-91-1	1,4-Dioxane	410		U
122-39-4	Diphenylamine	410		U
62-50-0	Ethyl methanesulfonate	410		U
206-44-0	Fluoranthene	410		U
86-73-7	Fluorene	410		U
118-74-1	Hexachlorobenzene	410		U
87-68-3	Hexachlorobutadiene	410		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9LT10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 20

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-65-05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	410		U
1888-71-7	Hexachloropropene	4100		U
193-39-5	Indeno (1,2,3-cd) pyrene	410		U
78-59-1	Isophorone	410		U
120-58-1	Isosafrole	820		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	820		U
56-49-5	3-Methylcholanthrene	820		U
66-27-3	Methyl methanesulfonate	410		U
91-57-6	2-Methylnaphthalene	410		U
95-48-7	2-Methylphenol	410		U
108-39-4	3-Methylphenol	410		U
106-44-5	4-Methylphenol	410		U
91-20-3	Naphthalene	410		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	410		U
91-59-8	2-Naphthylamine	410		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	410		U
88-75-5	2-Nitrophenol	410		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4100		U
924-16-3	N-Nitrosodi-n-butylamine	410		U
55-18-5	N-Nitrosodiethylamine	410		U
62-75-9	N-Nitrosodimethylamine	410		U
621-64-7	N-Nitrosodi-n-propylamine	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150133 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9LT10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 20

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-65-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	410		U
10595-95-6	N-Nitrosomethylethylamine	410		U
59-89-2	N-Nitrosomorpholine	410		U
100-75-4	N-Nitrosopiperidine	410		U
930-55-2	N-Nitrosopyrrolidine	410		U
99-55-8	5-Nitro-o-toluidine	820		U
608-93-5	Pentachlorobenzene	410		U
76-01-7	Pentachloroethane	2000		U
82-68-8	Pentachloronitrobenzene	2000		U
87-86-5	Pentachlorophenol	2000		U
62-44-2	Phenacetin	820		U
85-01-8	Phenanthrene	410		U
108-95-2	Phenol	410		U
106-50-3	p-Phenylene diamine	4100		U
109-06-8	2-Picoline	820		U
23950-58-5	Pronamide	820		U
129-00-0	Pyrene	410		U
110-86-1	Pyridine	820		U
94-59-7	Safrole	820		U
95-94-3	1,2,4,5-Tetrachlorobenzene	410		U
58-90-2	2,3,4,6-Tetrachlorophenol	2000		U
120-82-1	1,2,4-Trichlorobenzene	410		U
95-95-4	2,4,5-Trichlorophenol	410		U
88-06-2	2,4,6-Trichlorophenol	410		U
99-35-4	1,3,5-Trinitrobenzene	2000		U
86-74-8	Carbazole	410		U
510-15-6	Chlorobenzilate	410		U
122-09-8	a,a-Dimethylphenethylamine	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.12 / g

Date Received: 07/15/00

Work Order: DG9LT10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 20

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-65-05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		820	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L910W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 12

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo(a)anthracene	370		U
205-99-2	Benzo(b)fluoranthene	370		U
207-08-9	Benzo(k)fluoranthene	370		U
191-24-2	Benzo(ghi)perylene	370		U
50-32-8	Benzo(a)pyrene	370		U
100-51-6	Benzyl alcohol	370		U
111-91-1	bis(2-Chloroethoxy)methane	370		U
111-44-4	bis(2-Chloroethyl) ether	370		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370		U
117-81-7	bis(2-Ethylhexyl) phthalate	370		U
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	370		U
2303-16-4	Diallate	750		U
53-70-3	Dibenz(a,h)anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021
 Matrix: (soil/water) SO Lab Sample ID: A0G150130 007
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)
 Sample WT/Vol: 30.01 / g Date Received: 07/15/00
 Work Order: DG9L910W Date Extracted: 07/18/00
 Dilution factor: 1 Date Analyzed: 07/25/00
 Moisture %: 12
 Client Sample Id: MPT-G4-SU-DU03 QC Batch: 0199321

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	370	U
87-65-0	2,6-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U
60-11-7	p-Dimethylaminoazobenzene	750	U
57-97-6	7,12-Dimethylbenz(a)anthrace	750	U
119-93-7	3,3'-Dimethylbenzidine	1800	U
105-67-9	2,4-Dimethylphenol	370	U
131-11-3	Dimethyl phthalate	370	U
117-84-0	Di-n-octyl phthalate	370	U
99-65-0	1,3-Dinitrobenzene	370	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	750	U
123-91-1	1,4-Dioxane	370	U
122-39-4	Diphenylamine	370	U
62-50-0	Ethyl methanesulfonate	370	U
206-44-0	Fluoranthene	370	U
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	1800	U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP021

Matrix: (soil/water) SO

Lab Sample ID:A0G150130 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L910W

Date Extracted:07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %:12

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU03

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	370	U
1888-71-7	Hexachloropropene	3700	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
78-59-1	Isophorone	370	U
120-58-1	Isosafrole	750	U
91-80-5	Methapyrilene	1800	U
95-53-4	o-Toluidine	750	U
56-49-5	3-Methylcholanthrene	750	U
66-27-3	Methyl methanesulfonate	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
108-39-4	3-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
130-15-4	1,4-Naphthoquinone	1800	U
134-32-7	1-Naphthylamine	370	U
91-59-8	2-Naphthylamine	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
56-57-5	4-Nitroquinoline-1-oxide	3700	U
924-16-3	N-Nitrosodi-n-butylamine	370	U
55-18-5	N-Nitrosodiethylamine	370	U
62-75-9	N-Nitrosodimethylamine	370	U
621-64-7	N-Nitrosodi-n-propylamine	370	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150130 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L910W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %: 12

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU03

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	370		U
10595-95-6	N-Nitrosomethylethylamine	370		U
59-89-2	N-Nitrosomorpholine	370		U
100-75-4	N-Nitrosopiperidine	370		U
930-55-2	N-Nitrosopyrrolidine	370		U
99-55-8	5-Nitro-o-toluidine	750		U
608-93-5	Pentachlorobenzene	370		U
76-01-7	Pentachloroethane	1800		U
82-68-8	Pentachloronitrobenzene	1800		U
87-86-5	Pentachlorophenol	1800		U
62-44-2	Phenacetin	750		U
85-01-8	Phenanthrene	370		U
108-95-2	Phenol	370		U
106-50-3	p-Phenylene diamine	3700		U
109-06-8	2-Picoline	750		U
23950-58-5	Pronamide	750		U
129-00-0	Pyrene	370		U
110-86-1	Pyridine	750		U
94-59-7	Safrole	750		U
95-94-3	1,2,4,5-Tetrachlorobenzene	370		U
58-90-2	2,3,4,6-Tetrachlorophenol	1800		U
120-82-1	1,2,4-Trichlorobenzene	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
99-35-4	1,3,5-Trinitrobenzene	1800		U
86-74-8	Carbazole	370		U
510-15-6	Chlorobenzilate	370		U
122-09-8	a,a-Dimethylphenethylamine	1800		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP021

Matrix: (soil/water) SO

Lab Sample ID:A0G150130 007

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.01 / g

Date Received: 07/15/00

Work Order: DG9L910W

Date Extracted:07/18/00

Dilution factor: 1

Date Analyzed: 07/25/00

Moisture %:12

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU03

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	750		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: AOG150133 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LV10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 8.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU04

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo (a) anthracene	360		U
205-99-2	Benzo (b) fluoranthene	360		U
207-08-9	Benzo (k) fluoranthene	360		U
191-24-2	Benzo (ghi) perylene	360		U
50-32-8	Benzo (a) pyrene	360		U
100-51-6	Benzyl alcohol	360		U
111-91-1	bis (2-Chloroethoxy) methane	360		U
111-44-4	bis (2-Chloroethyl) ether	360		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	360		U
117-81-7	bis (2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	360		U
2303-16-4	Diallate	720		U
53-70-3	Dibenz (a, h) anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LV10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 8.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	360		U
95-50-1	1,2-Dichlorobenzene	360		U
541-73-1	1,3-Dichlorobenzene	360		U
106-46-7	1,4-Dichlorobenzene	360		U
91-94-1	3,3'-Dichlorobenzidine	1700		U
120-83-2	2,4-Dichlorophenol	360		U
87-65-0	2,6-Dichlorophenol	360		U
84-66-2	Diethyl phthalate	360		U
60-11-7	p-Dimethylaminoazobenzene	720		U
57-97-6	7,12-Dimethylbenz(a)anthracene	720		U
119-93-7	3,3'-Dimethylbenzidine	1700		U
105-67-9	2,4-Dimethylphenol	360		U
131-11-3	Dimethyl phthalate	360		U
117-84-0	Di-n-octyl phthalate	360		U
99-65-0	1,3-Dinitrobenzene	360		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
51-28-5	2,4-Dinitrophenol	1700		U
121-14-2	2,4-Dinitrotoluene	360		U
606-20-2	2,6-Dinitrotoluene	360		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	720		U
123-91-1	1,4-Dioxane	360		U
122-39-4	Diphenylamine	360		U
62-50-0	Ethyl methanesulfonate	360		U
206-44-0	Fluoranthene	360		U
86-73-7	Fluorene	360		U
118-74-1	Hexachlorobenzene	360		U
87-68-3	Hexachlorobutadiene	360		U
77-47-4	Hexachlorocyclopentadiene	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LV10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 8.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	360		U
1888-71-7	Hexachloropropene	3600		U
193-39-5	Indeno (1,2,3-cd) pyrene	360		U
78-59-1	Isophorone	360		U
120-58-1	Isosafrole	720		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	720		U
56-49-5	3-Methylcholanthrene	720		U
66-27-3	Methyl methanesulfonate	360		U
91-57-6	2-Methylnaphthalene	360		U
95-48-7	2-Methylphenol	360		U
108-39-4	3-Methylphenol	360		U
106-44-5	4-Methylphenol	360		U
91-20-3	Naphthalene	360		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	360		U
91-59-8	2-Naphthylamine	360		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	360		U
88-75-5	2-Nitrophenol	360		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3600		U
924-16-3	N-Nitrosodi-n-butylamine	360		U
55-18-5	N-Nitrosodiethylamine	360		U
62-75-9	N-Nitrosodimethylamine	360		U
621-64-7	N-Nitrosodi-n-propylamine	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LV10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 8.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	360		U
10595-95-6	N-Nitrosomethylethylamine	360		U
59-89-2	N-Nitrosomorpholine	360		U
100-75-4	N-Nitrosopiperidine	360		U
930-55-2	N-Nitrosopyrrolidine	360		U
99-55-8	5-Nitro-o-toluidine	720		U
608-93-5	Pentachlorobenzene	360		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	720		U
85-01-8	Phenanthrene	360		U
108-95-2	Phenol	360		U
106-50-3	p-Phenylene diamine	3600		U
109-06-8	2-Picoline	720		U
23950-58-5	Pronamide	720		U
129-00-0	Pyrene	360		U
110-86-1	Pyridine	720		U
94-59-7	Safrole	720		U
95-94-3	1,2,4,5-Tetrachlorobenzene	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	360		U
95-95-4	2,4,5-Trichlorophenol	360		U
88-06-2	2,4,6-Trichlorophenol	360		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	360		U
510-15-6	Chlorobenzilate	360		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g

Date Received: 07/15/00

Work Order: DG9LV10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 8.2

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU04

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	720		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LW10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	410		U
208-96-8	Acenaphthylene	410		U
98-86-2	Acetophenone	410		U
53-96-3	2-Acetylaminofluorene	4100		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	410		U
120-12-7	Anthracene	410		U
56-55-3	Benzo(a)anthracene	410		U
205-99-2	Benzo(b)fluoranthene	410		U
207-08-9	Benzo(k)fluoranthene	410		U
191-24-2	Benzo(ghi)perylene	410		U
50-32-8	Benzo(a)pyrene	410		U
100-51-6	Benzyl alcohol	410		U
111-91-1	bis(2-Chloroethoxy)methane	410		U
111-44-4	bis(2-Chloroethyl) ether	410		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410		U
117-81-7	bis(2-Ethylhexyl) phthalate	410		U
101-55-3	4-Bromophenyl phenyl ether	410		U
85-68-7	Butyl benzyl phthalate	410		U
106-47-8	4-Chloroaniline	410		U
59-50-7	4-Chloro-3-methylphenol	410		U
91-58-7	2-Chloronaphthalene	410		U
95-57-8	2-Chlorophenol	410		U
7005-72-3	4-Chlorophenyl phenyl ether	410		U
218-01-9	Chrysene	410		U
2303-16-4	Diallate	820		U
53-70-3	Dibenz(a,h)anthracene	410		U
132-64-9	Dibenzofuran	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LW10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	410		U
95-50-1	1,2-Dichlorobenzene	410		U
541-73-1	1,3-Dichlorobenzene	410		U
106-46-7	1,4-Dichlorobenzene	410		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	410		U
87-65-0	2,6-Dichlorophenol	410		U
84-66-2	Diethyl phthalate	410		U
60-11-7	p-Dimethylaminoazobenzene	820		U
57-97-6	7,12-Dimethylbenz(a)anthracene	820		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	410		U
131-11-3	Dimethyl phthalate	410		U
117-84-0	Di-n-octyl phthalate	410		U
99-65-0	1,3-Dinitrobenzene	410		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	410		U
606-20-2	2,6-Dinitrotoluene	410		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	820		U
123-91-1	1,4-Dioxane	410		U
122-39-4	Diphenylamine	410		U
62-50-0	Ethyl methanesulfonate	410		U
206-44-0	Fluoranthene	410		U
86-73-7	Fluorene	410		U
118-74-1	Hexachlorobenzene	410		U
87-68-3	Hexachlorobutadiene	410		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LW10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU05

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	410		U
1888-71-7	Hexachloropropene	4100		U
193-39-5	Indeno(1,2,3-cd)pyrene	410		U
78-59-1	Isophorone	410		U
120-58-1	Isosafrole	820		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	820		U
56-49-5	3-Methylcholanthrene	820		U
66-27-3	Methyl methanesulfonate	410		U
91-57-6	2-Methylnaphthalene	410		U
95-48-7	2-Methylphenol	410		U
108-39-4	3-Methylphenol	410		U
106-44-5	4-Methylphenol	410		U
91-20-3	Naphthalene	410		U
130-15-4	1,4-Napthoquinone	2000		U
134-32-7	1-Naphthylamine	410		U
91-59-8	2-Naphthylamine	410		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	410		U
88-75-5	2-Nitrophenol	410		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4100		U
924-16-3	N-Nitrosodi-n-butylamine	410		U
55-18-5	N-Nitrosodiethylamine	410		U
62-75-9	N-Nitrosodimethylamine	410		U
621-64-7	N-Nitrosodi-n-propylamine	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LW10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	410	U
10595-95-6	N-Nitrosomethylethylamine	410	U
59-89-2	N-Nitrosomorpholine	410	U
100-75-4	N-Nitrosopiperidine	410	U
930-55-2	N-Nitrosopyrrolidine	410	U
99-55-8	5-Nitro-o-toluidine	820	U
608-93-5	Pentachlorobenzene	410	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	820	U
85-01-8	Phenanthrene	410	U
108-95-2	Phenol	410	U
106-50-3	p-Phenylene diamine	4100	U
109-06-8	2-Picoline	820	U
23950-58-5	Pronamide	820	U
129-00-0	Pyrene	410	U
110-86-1	Pyridine	820	U
94-59-7	Safrole	820	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	410	U
510-15-6	Chlorobenzilate	410	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP021

Matrix: (soil/water) SO

Lab Sample ID: A0G150133 006

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.15 / g

Date Received: 07/15/00

Work Order: DG9LW10W

Date Extracted: 07/18/00

Dilution factor: 1

Date Analyzed: 07/24/00

Moisture %: 19

QC Batch: 0199321

Client Sample Id: MPT-G4-SU-DU05

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	820		U

APPENDIX C

SUPPORT DOCUMENTATION

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-G4-SU-DU05	A0G150133006	NORMAL	MP021	HG	07/14/00	08/01/00	08/03/00	18	2	20
MG/KG	MPT-G4-SU-56-05	A0G150130001	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-57-03	A0G150130002	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-58-05	A0G150130003	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-59-05	A0G150130004	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-60-05	A0G150130005	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-61-05	A0G150130006	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-62-05	A0G150133001	NORMAL	MP021	M	07/14/00	08/01/00	08/02/00	18	1	19
MG/KG	MPT-G4-SU-63-05	A0G150133002	NORMAL	MP021	M	07/14/00	08/01/00	08/02/00	18	1	19
MG/KG	MPT-G4-SU-64-05	A0G150133003	NORMAL	MP021	M	07/14/00	08/01/00	08/02/00	18	1	19
MG/KG	MPT-G4-SU-65-05	A0G150133004	NORMAL	MP021	M	07/14/00	08/01/00	08/02/00	18	1	19
MG/KG	MPT-G4-SU-DU03	A0G150130007	NORMAL	MP021	M	07/13/00	08/01/00	08/02/00	19	1	20
MG/KG	MPT-G4-SU-DU04	A0G150133005	NORMAL	MP021	M	07/14/00	08/01/00	08/02/00	18	1	19
MG/KG	MPT-G4-SU-DU05	A0G150133006	NORMAL	MP021	M	07/14/00	08/01/00	08/02/00	18	1	19
UG/KG	MPT-G4-SU-56-05	A0G150130001	NORMAL	MP021	OS	07/13/00	07/18/00	07/25/00	5	7	12
UG/KG	MPT-G4-SU-57-03	A0G150130002	NORMAL	MP021	OS	07/13/00	07/18/00	07/25/00	5	7	12
UG/KG	MPT-G4-SU-58-05	A0G150130003	NORMAL	MP021	OS	07/13/00	07/18/00	07/24/00	5	6	11
UG/KG	MPT-G4-SU-59-05	A0G150130004	NORMAL	MP021	OS	07/13/00	07/18/00	07/24/00	5	6	11
UG/KG	MPT-G4-SU-60-05	A0G150130005	NORMAL	MP021	OS	07/13/00	07/18/00	07/25/00	5	7	12
UG/KG	MPT-G4-SU-61-05	A0G150130006	NORMAL	MP021	OS	07/13/00	07/18/00	07/24/00	5	6	11
UG/KG	MPT-G4-SU-62-05	A0G150133001	NORMAL	MP021	OS	07/14/00	07/18/00	07/24/00	4	6	10
UG/KG	MPT-G4-SU-63-05	A0G150133002	NORMAL	MP021	OS	07/14/00	07/18/00	07/24/00	4	6	10
UG/KG	MPT-G4-SU-64-05	A0G150133003	NORMAL	MP021	OS	07/14/00	07/18/00	07/24/00	4	6	10
UG/KG	MPT-G4-SU-65-05	A0G150133004	NORMAL	MP021	OS	07/14/00	07/18/00	07/24/00	4	6	10
UG/KG	MPT-G4-SU-DU03	A0G150130007	NORMAL	MP021	OS	07/13/00	07/18/00	07/25/00	5	7	12
UG/KG	MPT-G4-SU-DU04	A0G150133005	NORMAL	MP021	OS	07/14/00	07/18/00	07/24/00	4	6	10
UG/KG	MPT-G4-SU-DU05	A0G150133006	NORMAL	MP021	OS	07/14/00	07/18/00	07/24/00	4	6	10

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-G4-SU-56-05	A0G150130001	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-57-03	A0G150130002	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-58-05	A0G150130003	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-59-05	A0G150130004	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-60-05	A0G150130005	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-61-05	A0G150130006	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-62-05	A0G150133001	NORMAL	MP021	OV	07/14/00	07/21/00	07/21/00	7	0	7
UG/KG	MPT-G4-SU-63-05	A0G150133002	NORMAL	MP021	OV	07/14/00	07/21/00	07/21/00	7	0	7
UG/KG	MPT-G4-SU-64-05	A0G150133003	NORMAL	MP021	OV	07/14/00	07/21/00	07/21/00	7	0	7
UG/KG	MPT-G4-SU-65-05	A0G150133004	NORMAL	MP021	OV	07/14/00	07/21/00	07/21/00	7	0	7
UG/KG	MPT-G4-SU-DU03	A0G150130007	NORMAL	MP021	OV	07/13/00	07/21/00	07/21/00	8	0	8
UG/KG	MPT-G4-SU-DU04	A0G150133005	NORMAL	MP021	OV	07/14/00	07/21/00	07/21/00	7	0	7
UG/KG	MPT-G4-SU-DU05	A0G150133006	NORMAL	MP021	OV	07/14/00	07/21/00	07/21/00	7	0	7

SDG NARRATIVE MP021

The following report contains the analytical results for thirteen solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group site, project number N0123. The samples were received July 15, 2000, according to documented sample acceptance procedures.

This SDG consists of two (2) laboratory ID's: A0G150130 and A0G150133.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Tom Thompson on July 21, 2000.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The temperature of the coolers upon sample receipt was 1.4, 2.6, 3.0 and 1.5° C.

(See STL's Cooler Receipt Form for additional information.)

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: MMWent Project: _____ Quote#: _____
 Cooler Received on: 7/14-15/00 Opened on: 7/14-15/00 by: _____
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____

Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: See BACK

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 3 Location overlaid
 Were the custody seals signed and dated? Yes No NA
2. Shipper's packing slip attached to this form? Yes No
3. Were custody papers included inside the cooler and relinquished? Yes No
4. Did you sign the custody papers in the appropriate place? Yes No
5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
6. Cooler temperature upon receipt See BACK (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
7. Were all the bottles sealed in separate plastic bags? Yes No
8. Did all bottles arrive in good condition (Unbroken)? Yes No
9. Did all bottle labels and tags agree with the custody papers? Yes No
10. Were samples at the correct pH? Yes No NA
11. Were correct bottles used for the tests indicated? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a sufficient amount of sample sent in each bottle? Yes No

Contacted PM DSH Date: 7-15-00 by: TB via Voice Mail Verbal Other
 Concerning: Temp not recorded on 1 cooler

MACRO MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

<input checked="" type="checkbox"/> SR3A	Sample(s) <u>See Below</u> were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

SR4A	NCM has been generated. Refer to Clouseau for details
------	---

5. Other Anomalies (see below or back) 58-05 / 5905 / 60-05 / Duo 3 metals
LEADS NEEDED PRESERVED FOR ALL 4 SAMPLES

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativ\stl\cooler_stl.doc

STL Cooler Receipt Form/Narrative

North Canton Facility

Client: Mayport Project: _____ Quote#: _____
 Cooler Received on: 7/15/00 Opened on: 7/15/00 by: [Signature]
 Fedx: Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: SEBARK

- Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 2 Location OVERLID
 Were the custody seals signed and dated? Yes No NA
 - Shipper's packing slip attached to this form? Yes No
 - Were custody papers included inside the cooler and relinquished? Yes No
 - Did you sign the custody papers in the appropriate place? Yes No
 - Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 - Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 - Were all the bottles sealed in separate plastic bags? Yes No
 - Did all bottles arrive in good condition (Unbroken)? Yes No
 - Did all bottle labels and tags agree with the custody papers? Yes No NA
 - Were samples at the correct pH? Yes No NA
 - Were correct bottles used for the tests indicated? Yes No
 - Were air bubbles >6 mm in any VOA vials? Yes No NA
 - Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
- Concerning: _____

MACRO | MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred: <u>RECEIVED 2 TRIP BLANKS W/ WATER LOG 7/15/00</u>

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

SR4A	NCM has been generated. Refer to Clouseau for details
------	---

5. Other Anomalies (see below or back)

Revision 13: June 19, 2000
 SOP: NC-SC-0003, Sample Receiving
 n:\qaqc\narrativ\stlcooler_stl.doc



PROJECT NO: N0123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen			LABORATORY NAME AND CONTACT: Quanterra				
SAMPLERS (SIGNATURE) Thomas Homer Charles Walker		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400			ADDRESS 4101 Shuffel Dr NW						
		CARRIERWAYBILL NUMBER 7923 5382 7283 Fed Ex 7918 3197 3244			CITY, STATE N. Canton, OH 44720						
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CONTAINER TYPE PLASTIC (P) or GLASS (G)			PRESERVATIVE USED						
DATE YEAR	TIME	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS HCl MND3 NOOH IcL VOC F-TAL SVOC TAL Metals+Tin Cyanide					COMMENTS	
7/14	0750	MPT-G4-SU-62-05	S	G	5	X	X	X	X	Cool to 4°C	
	0815	MPT-G4-GW-62-05	GW		7	X	X	X	X	2 coolers:	
	0850	MPT-G4-SU-63-05	S		5	X	X	X	X	I.D.#'s	
	0937	MPT-G4-GW-63-05	GW		7	X	X	X	X	071400-1	
	1035	MPT-G4-SU-64-05	S		5	X	X	X	X	And 071400-2	
	1105	MPT-G4-GW-64-05	GW		7	X	X	X	X		
	1230	MPT-G4-SU-65-05	S		5	X	X	X	X		
	1320	MPT-G4-GW-65-06	GW		7	X	X	X	X		
	0937	MPT-G4-GW-MSMSD02	GW		7	X	X	X	X		
	0000	MPT-G4-SU-DU04	S		5	X	X	X	X		
	0000	MPT-G4-GW-DU04	GW		7	X	X	X	X		
	0000	MPT-G4-SU-DU05	S		5	X	X	X	X		
7/14	0000	MPT-G4-GW-DU05	GW	G	7	X	X	X	X		
1. RELINQUISHED BY		DATE		TIME		1. RECEIVED BY			DATE		TIME
		7/14/00		1200		T. Thompson			7/15/00		950
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY			DATE		TIME
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY			DATE		TIME

COMMENTS: Trip Blank - TB071400 analyzed for VOCs



PROJECT NO: N0123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen			LABORATORY NAME AND CONTACT: Quanterra			
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson			ADDRESS 4101 Shaffel Dr NW					
		CARRIER/WAYBILL NUMBER Fed Ex			CITY, STATE N. Canton, OH					
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day					CONTAINER TYPE PLASTIC (P) or GLASS (G)					
					PRESERVATIVE USED					
DATE YEAR 0000					TYPE OF ANALYSIS TCL Voc TCL SVOC TAL Metals + Tis Cyanide					
TIME	SAMPLE ID		MATRIX	GRAB (G) COMP (C)						No. OF CONTAINERS	COMMENTS
7-13	0740	MPT-G4-SU-56-05	S	G	5	X	X	X	X	Cool to 4°C
	0815	MPT-G4-GW-56-05	GW		7	X	X	X	X	
	0845	MPT-G4-SU-57-03	S		5	X	X	X	X	
	0940	MPT-G4-GW-57-05	GW		7	X	X	X	X	
	1000	MPT-G4-SU-58-05	S		5	X	X	X	X	
	1040	MPT-G4-GW-58-05	GW		7	X	X	X	X	
	1100	MPT-G4-SU-59-05	S		5	X	X	X	X	
	1210	MPT-G4-GW-59-05	GW		7	X	X	X	X	
	1240	MPT-G4-SU-60-05	S		5	X	X	X	X	
	1325	MPT-G4-GW-60-05	GW		7	X	X	X	X	
	1450 1524	MPT-G4-SU-61-05	S		5	X	X	X	X	
	1524	MPT-G4-GW-61-05	GW		7	X	X	X	X	
7-13	0815	MPT-G4-GW-MSMSD01	GW	G	14	X	X	X	X	
1. RELINQUISHED BY 		DATE 7-13-00		TIME 1900		1. RECEIVED BY			DATE	TIME
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY			DATE	TIME
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY			DATE	TIME
COMMENTS										

**SDG NARRATIVE
MP021**

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) which contain results between the MDL and the RL are flagged with "J". There is the possibility of false positive or misidentification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation will be performed only down to the standard reporting limit (SRL). The acceptance criteria for quality control criteria may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

Sample(s) which contain concentrations of target analyte(s) at a reportable level in the associated method blank(s) have been flagged with B. All target analytes in the method blank must be below the reporting limits (RL) or the associated sample(s) must be ND with the exception of Methylene chloride, Acetone, and 2-Butanone. These are common laboratory contaminants and may be present in concentrations up to five times the reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGKMA101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP021

Lab File ID: ux93792.d

Lot Number: A0G150133

Date Analyzed: 07/21/00

Time Analyzed: 10:30

Matrix: SOLID

Date Extracted:07/21/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 CHECK SAMPLE	DGKMA102 C	ux93790.d	07/21/00	09:44
02 DUPLICATE CHECK	DGKMA103 L	ux93791.d	07/21/00	10:07
03 INTRA-LAB QC	DG7AE101	ux93805.d	07/21/00	15:24
04 LAB MS/MSD	DG7AE102 S	ux93806.d	07/21/00	15:46
05 LAB MS/MSD	DG7AE103 D	ux93807.d	07/21/00	16:09
06 MPT-G4-SU-62-05	DG9LJ102	ux93804.d	07/21/00	15:00
07 MPT-G4-SU-63-05	DG9LQ102	ux93795.d	07/21/00	11:38
08 MPT-G4-SU-64-05	DG9LR102	ux93796.d	07/21/00	12:00
09 MPT-G4-SU-65-05	DG9LT102	ux93797.d	07/21/00	12:23
10 MPT-G4-SU-DU04	DG9LV102	ux93798.d	07/21/00	12:45
11 MPT-G4-SU-DU05	DG9LW102	ux93799.d	07/21/00	13:08
12				
13				
14				
15				
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17				
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COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGKMA101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP021

Lab File ID: ux93792.d

Lot Number: A0G150130

Date Analyzed: 07/21/00

Time Analyzed: 10:30

Matrix: SOLID

Date Extracted:07/21/00

GC Column: DB 624 ID: .18

Extraction Method: 5035

Instrument ID: UX9

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGKMA102 C ux93790.d	07/21/00	09:44
02	DUPLICATE CHECK	DGKMA103 L ux93791.d	07/21/00	10:07
03	INTRA-LAB QC	DG7AE101 ux93805.d	07/21/00	15:24
04	LAB MS/MSD	DG7AE102 S ux93806.d	07/21/00	15:46
05	LAB MS/MSD	DG7AE103 D ux93807.d	07/21/00	16:09
06	MPT-G4-SU-56-05	DG9L0102 ux93811.d	07/21/00	17:39
07	MPT-G4-SU-57-03	DG9L4102 ux93812.d	07/21/00	18:01
08	MPT-G4-SU-58-05	DG9L5102 ux93813.d	07/21/00	18:24
09	MPT-G4-SU-59-05	DG9L6102 ux93814.d	07/21/00	18:47
10	MPT-G4-SU-60-05	DG9L7102 ux93815.d	07/21/00	19:09
11	MPT-G4-SU-61-05	DG9L8102 ux93816.d	07/21/00	19:31
12	MPT-G4-SU-DU03	DG9L9102 ux93817.d	07/21/00	19:54
13				
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: AOG210000 196
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/17/00
Work Order: DGKMA101 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/21/00
Moisture %: NA

QC Batch: 0203196

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	2.4	J
75-05-8	Acetonitrile	100	U
107-02-8	Acrolein	100	U
107-13-1	Acrylonitrile	100	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
126-99-8	Chloroprene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
75-00-3	Chloroethane	10	U
110-75-8	2-Chloroethyl vinyl ether	50	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
107-05-1	Allyl chloride	10	U
74-95-3	Dibromomethane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
75-71-8	Dichlorodifluoromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
540-59-0	1,2-Dichloroethene (total)	5.0	U

FORM I

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: A0G210000 196

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 07/17/00

Work Order: DGKMA101

Date Extracted: 07/21/00

Dilution factor: 1

Date Analyzed: 07/21/00

Moisture %: NA

QC Batch: 0203196

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	5.0		U
10061-01-5	cis-1,3-Dichloropropene	5.0		U
10061-02-6	trans-1,3-Dichloropropene	5.0		U
100-41-4	Ethylbenzene	5.0		U
97-63-2	Ethyl methacrylate	5.0		U
75-69-4	Trichlorofluoromethane	10		U
591-78-6	2-Hexanone	20		U
74-88-4	Iodomethane	5.0		U
78-83-1	Isobutyl alcohol	200		U
126-98-7	Methacrylonitrile	5.0		U
75-09-2	Methylene chloride	1.6	J	
80-62-6	Methyl methacrylate	5.0		U
107-12-0	Propionitrile	20		U
100-42-5	Styrene	5.0		U
630-20-6	1,1,1,2-Tetrachloroethane	5.0		U
79-34-5	1,1,2,2-Tetrachloroethane	5.0		U
127-18-4	Tetrachloroethene	5.0		U
108-88-3	Toluene	5.0		U
71-55-6	1,1,1-Trichloroethane	5.0		U
79-00-5	1,1,2-Trichloroethane	5.0		U
79-01-6	Trichloroethene	5.0		U
96-18-4	1,2,3-Trichloropropane	5.0		U
108-05-4	Vinyl acetate	10		U
75-01-4	Vinyl chloride	10		U
1330-20-7	Xylenes (total)	5.0		U
1634-04-4	Methyl tert-butyl ether	20		U
106-93-4	1,2-Dibromoethane (EDB)	5.0		U
78-93-3	2-Butanone (MEK)	20		U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: A0G210000 196
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g Date Received: 07/17/00
Work Order: DGKMA101 Date Extracted: 07/21/00
Dilution factor: 1 Date Analyzed: 07/21/00
Moisture %: NA

QC Batch: 0203196

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	20		U

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP021

Lab File ID: BFB063 BFB Injection Date: 05/09/00

Instrument ID: A3UX9 BFB Injection Time: 0901

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.9
75	30.0 - 60.0% of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.9 (8.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.7 (96.1)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-A9IC	UX91652	05/09/00	1201
02	VSTD100	500NG-A9IC	UX91653	05/09/00	1226
03	VSTD050	250NG-A9IC	UX91654	05/09/00	1251
04	VSTD020	100NG-A9IC	UX91655	05/09/00	1315
05	VSTD005	25NG-A9IC	UX91656	05/09/00	1340
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP021

Lab File ID: BFB123 BFB Injection Date: 07/14/00

Instrument ID: A3UX9 BFB Injection Time: 1007

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	36.9
75	30.0 - 60.0% of mass 95	41.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	61.4
175	5.0 - 9.0% of mass 174	4.7 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	60.3 (98.2)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93630	07/14/00	1128
02	VSTD200	1000NG-IC	UX93633	07/14/00	1325
03	VSTD100	500NG-IC	UX93634	07/14/00	1348
04	VSTD020	100NG-IC	UX93635	07/14/00	1411
05	VSTD005	25NG-IC	UX93637	07/14/00	1524
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07					
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3ux9.i/N00628A.b/ux93156.d
 Level 2: /chem/can/msv/a3ux9.i/N00628A.b/ux93155.d
 Level 3: /chem/can/msv/a3ux9.i/N00628A.b/ux93154.d
 Level 4: /chem/can/msv/a3ux9.i/N00628A.b/ux93153.d
 Level 5: /chem/can/msv/a3ux9.i/N00628A.b/ux93152.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.13899	0.14944	0.15041	0.14587	0.11801	0.14054	9.514
9 Chloromethane	0.77557	0.67656	0.75914	0.64213	0.71390	0.71346	7.803
10 Vinyl Chloride	0.37288	0.37432	0.39577	0.36277	0.39338	0.37983	3.740
11 Bromomethane	0.13788	0.11380	0.10380	0.06891	0.05785	0.09645	34.078
12 Chloroethane	0.21506	0.18656	0.19039	0.13677	0.10223	0.16620	27.485
13 Trichlorofluoromethane	0.30154	0.25345	0.26112	0.24516	0.22456	0.25717	11.009
14 Acrolein	0.06815	0.06172	0.05802	0.05531	0.05326	0.05929	9.913
15 Acetone	0.33705	0.23352	0.22775	0.18237	0.18873	0.23389	26.508
16 1,1-Dichloroethene	0.19877	0.19927	0.20284	0.19454	0.21176	0.20144	3.214
17 Methylene Chloride	0.38028	0.24353	0.23154	0.20525	0.22265	0.25665	27.473
18 Carbon Disulfide	0.61990	0.66816	0.68656	0.63019	0.71695	0.66435	6.029
19 Acrylonitrile	0.28067	0.25642	0.23488	0.23684	0.23581	0.24893	7.983
20 trans-1,2-Dichloroethene	0.22933	0.22711	0.24263	0.22158	0.23377	0.23088	3.421
21 Vinyl acetate	0.91033	0.92583	0.86320	0.86746	0.90644	0.89465	3.104
22 1,1-Dichloroethane	0.62958	0.64771	0.62618	0.60133	0.63662	0.62829	2.733
23 2-Butanone	0.39031	0.35754	0.35604	0.30146	0.31805	0.34468	10.211
24 cis-1,2-dichloroethene	0.22661	0.24871	0.24297	0.22306	0.23598	0.23547	4.575
M 25 1,2-Dichloroethene (total)	0.22797	0.23791	0.24280	0.22232	0.23488	0.23317	3.476
26 Chloroform	0.33119	0.34280	0.33354	0.31285	0.33268	0.33061	3.303
27 1,1,1-Trichloroethane	0.30390	0.33663	0.31327	0.29458	0.30653	0.31098	5.089
28 Carbon Tetrachloride	0.21950	0.26215	0.24194	0.24388	0.24939	0.24337	6.369
29 1,2-Dichloroethane	0.49004	0.49291	0.48957	0.44893	0.45765	0.47582	4.379
30 Benzene	0.85439	0.88687	0.86970	0.81606	0.88098	0.86160	3.285
31 Trichloroethene	0.24551	0.23447	0.24149	0.22926	0.24232	0.23861	2.767
32 1,2-Dichloropropane	0.34084	0.35550	0.34728	0.32496	0.34430	0.34258	3.281
33 Bromodichloromethane	0.21705	0.23869	0.23911	0.22513	0.24180	0.23236	4.621

$$\%RSD = \frac{0.01074}{0.23236} (100) = 4.6$$

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
34 2-Chloroethyl vinyl ether	0.17513	0.17340	0.15892	0.16884	0.17205	0.16967	3.793
35 4-Methyl-2-pentanone	0.51113	0.55625	0.55950	0.49233	0.51763	0.52737	5.571
36 cis-1,3-Dichloropropene	0.26798	0.32754	0.31745	0.29424	0.32017	0.30548	7.983
37 Toluene	1.31103	1.39325	1.36454	1.30427	1.36578	1.34778	2.853
38 trans-1,3-Dichloropropene	0.36899	0.38401	0.39081	0.37891	0.39850	0.38425	2.931
39 2-Hexanone	0.50086	0.56714	0.59880	0.54844	0.55909	0.55487	6.408
40 1,1,2-Trichloroethane	0.24745	0.24664	0.25360	0.23040	0.23960	0.24354	3.640
41 Tetrachloroethane	0.18198	0.21923	0.21035	0.20832	0.21116	0.20621	6.870
42 Dibromochloromethane	0.21752	0.23402	0.24692	0.22979	0.24563	0.23478	5.165
43 Chlorobenzene	1.01146	0.96926	0.92458	0.89135	0.92342	0.94401	4.957
44 Ethylbenzene	0.49327	0.55425	0.54679	0.51911	0.54156	0.53100	4.676
45 m + p-Xylene	0.64769	0.69050	0.66521	0.63170	0.65242	0.65751	3.346
46 Xylene-o	0.59407	0.65455	0.63416	0.61897	0.62690	0.62573	3.529
M 47 Xylenes (total)	0.62982	0.67852	0.65486	0.62746	0.64391	0.64691	3.226
48 Styrene	0.94975	0.98855	1.00713	0.97918	1.00227	0.98538	2.312
49 Bromoform	0.09674	0.10943	0.11770	0.11094	0.11727	0.11042	7.685
50 1,1,1,2,2-Tetrachloroethane	0.64001	0.68464	0.67899	0.60765	0.63383	0.64903	4.987
51 1,3-Dichlorobenzene	1.43801	1.46889	1.40156	1.29839	1.32045	1.38546	5.327
52 1,4-Dichlorobenzene	1.57880	1.47266	1.43047	1.31519	1.36299	1.43203	7.123
53 1,2-Dichlorobenzene	1.34758	1.37833	1.31750	1.22424	1.25200	1.30393	4.951
54 Freon-113	0.14293	0.17507	0.15414	0.14149	0.15703	0.15413	8.779
55 Acetonitrile	0.06714	0.06356	0.06571	0.05625	0.05967	0.06247	7.158
56 Iodomethane	0.22380	0.32134	0.31480	0.28331	0.30123	0.28890	13.565
57 3-Chloropropene	0.10737	0.11156	0.10975	0.11360	0.11383	0.11122	2.443
58 2-Chloro-1,3-butadiene	0.54219	0.57641	0.58472	0.59927	0.60446	0.58141	4.235
59 Propionitrile	0.05785	0.06249	0.06022	0.06410	0.06843	0.06262	6.411
60 Methacrylonitrile	0.27041	0.27031	0.26853	0.27736	0.29071	0.27546	3.328
61 Isobutanol	0.01377	0.01547	0.01539	0.01718	0.01867	0.01610	11.671
62 Methyl Methacrylate	0.35113	0.37764	0.36957	0.40172	0.41617	0.38325	6.748
63 1,4-Dioxane	0.00126	0.00220	0.00210	0.00198	0.00200	0.00191	19.524
64 Dibromomethane	0.08844	0.10851	0.10940	0.09769	0.10327	0.10146	8.530
65 Ethyl Methacrylate	0.27866	0.31816	0.33513	0.33163	0.34427	0.32157	8.008
66 1,2-Dibromoethane	0.22570	0.25183	0.24767	0.22920	0.23645	0.23817	4.767

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	± RSD
67 1,1,1,2-Tetrachloroethane	0.25163	0.25911	0.25735	0.27604	0.27573	0.26397	4.251
68 1,2,3-Trichloropropane	0.69226	0.93634	0.89661	0.81090	0.81904	0.83103	11.287
69 1,4-Dichloro-2-butene	0.41106	0.57283	0.57570	0.48917	0.50541	0.51084	13.313
70 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
71 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
72 1,2-Dibromo-3-chloropropane	0.11816	0.12669	0.13137	0.14551	0.15803	0.13595	11.644
73 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
74 n-Butanol	0.01003	0.01178	0.01237	0.01403	0.01565	0.01277	16.847
75 Ethyl Acetate	0.45322	0.46028	0.44671	0.48155	0.51368	0.47109	5.768
76 Cyclohexanone	0.03840	0.04242	0.04219	0.04690	0.05108	0.04420	11.048
77 Ethyl Ether	0.30300	0.30790	0.29616	0.30911	0.30462	0.30416	1.676
78 Methyl tert-butyl ether	0.60722	0.62045	0.60163	0.55265	0.56716	0.58982	4.852
79 Tetrahydrofuran	0.16634	0.17460	0.18985	0.14680	0.15496	0.16651	10.105
80 Dichlorofluoromethane	0.30350	0.33178	0.34464	0.35176	0.34647	0.33563	5.781
81 2-Nitropropane	0.05959	0.06270	0.06506	0.07554	0.08696	0.06997	16.048
82 tert-Butyl Alcohol	0.04105	0.05157	0.04981	0.04393	0.04566	0.04640	9.250
83 Cyclohexane	0.84890	1.16210	1.01189	0.98454	1.08683	1.01885	11.535
84 Hexane	0.80202	1.04549	0.90697	0.87254	0.98895	0.92319	10.389
85 Isopropyl Ether	1.02365	1.04444	1.02170	1.02356	0.99063	1.02080	1.888
86 2,2-Dichloropropane	0.27882	0.32344	0.30688	0.30025	0.31201	0.30428	5.444
87 1,1-Dichloropropene	0.24219	0.28006	0.28649	0.26228	0.27823	0.26985	6.612
88 1,3-Dichloropropane	0.39586	0.42014	0.43947	0.39960	0.41159	0.41333	4.236
89 Isopropylbenzene	1.43197	1.58547	1.54063	1.50777	1.57458	1.52809	4.042
90 Bromobenzene	0.73474	0.72206	0.68313	0.64998	0.67937	0.69386	4.949
91 2-Chlorotoluene	0.79195	0.91883	0.88502	0.81268	0.86336	0.85437	6.084
92 n-Propylbenzene	1.05477	1.13053	1.05253	1.02403	1.07765	1.06790	3.731
93 4-Chlorotoluene	0.92495	0.93504	0.92226	0.84214	0.87721	0.90032	4.377
94 1,3,5-Trimethylbenzene	2.76274	3.02887	2.89574	2.77206	2.85623	2.86313	3.784
95 tert-Butylbenzene	2.53733	2.82857	2.66184	2.82421	2.74358	2.71911	4.502
96 1,2,4-Trimethylbenzene	2.83605	3.01326	2.88301	2.80037	2.90923	2.88838	2.820
97 sec-Butylbenzene	3.57736	3.90703	3.71011	3.58848	3.74343	3.70529	3.625
98 4-Isopropyltoluene	2.97388	3.34603	3.18202	3.07642	3.18651	3.15297	4.405
99 n-Butylbenzene	2.61642	2.89630	2.83797	2.73172	2.84687	2.78586	4.024

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2000 09:57
 End Cal Date : 14-JUL-2000 15:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3ux9.i/N00714A.b/N8260SUX9-3.m
 Cal Date : 14-Jul-2000 15:36 laveyt
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	0.84050	0.91484	0.89772	0.86795	0.87204	0.87861	3.263
101 Naphthalene	2.75038	2.64797	2.54616	2.59480	2.53971	2.61581	3.324
102 Hexachlorobutadiene	0.41655	0.41865	0.38676	0.39750	0.40822	0.40554	3.303
103 1,2,3-Trichlorobenzene	0.88476	0.86283	0.79094	0.80959	0.78743	0.82711	5.335
104 Isopropyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
105 N-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
106 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
107 N-Propyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
108 N-Butyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
109 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
110 3,3,5-Trimethylcyclohexanone	0.16209	0.18263	0.15887	0.18542	0.17131	0.17206	6.901
111 Bromochloromethane	0.10562	0.11131	0.10795	0.10076	0.10480	0.10609	3.679
112 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
135 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
136 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <--
137 1,3,5-Trichlorobenzene	0.77060	1.02674	0.96127	0.91491	0.93092	0.92089	10.238
138 Methyl Acetate	0.43579	0.53129	0.54312	0.45515	0.47401	0.48788	9.675
139 Methylcyclohexane	0.29587	0.44456	0.40756	0.37939	0.42494	0.39046	14.865

\$ 4 1,2-Dichloroethane-d4	0.28924	0.32398	0.30114	0.27771	0.28594	0.29560	6.075
\$ 5 Toluene-d8	1.21887	1.22854	0.99784	1.10095	1.12206	1.13365	8.359
\$ 6 Bromofluorobenzene	0.43951	0.44110	0.39218	0.40900	0.39811	0.41598	5.534
\$ 7 Dibromofluoromethane	0.17820	0.18598	0.16263	0.16133	0.16685	0.17100	6.252

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP021

Lab File ID: BFB129 BFB Injection Date: 07/21/00

Instrument ID: A3UX9 BFB Injection Time: 0830

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	38.7
75	30.0 - 60.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.2)1
174	50.0 - 120.0% of mass 95	64.5
175	5.0 - 9.0% of mass 174	4.2 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	64.6 (100.2)1
177	5.0 - 9.0% of mass 176	4.0 (6.2)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	UX93788	07/21/00	0843
02	VSTD050	250NG-A9CC	UX93789	07/21/00	0922
03	DGKMA-CHK	DGKMA102	UX93790	07/21/00	0944
04	DGKMA-CKDUP	DGKMA103	UX93791	07/21/00	1007
05	DGKMA-BLK	DGKMA101	UX93792	07/21/00	1030
06	MPT-G4-SU-63	DG9LQ102	UX93795	07/21/00	1138
07	MPT-G4-SU-64	DG9LR102	UX93796	07/21/00	1200
08	MPT-G4-SU-65	DG9LT102	UX93797	07/21/00	1223
09	MPT-G4-SU-DU	DG9LV102	UX93798	07/21/00	1245
10	MPT-G4-SU-DU	DG9LW102	UX93799	07/21/00	1308
11	MPT-G4-SU-62	DG9LJ102	UX93804	07/21/00	1500
12	MPT-G4-SU-56	DG9L0102	UX93811	07/21/00	1739
13	MPT-G4-SU-57	DG9L4102	UX93812	07/21/00	1801
14	MPT-G4-SU-58	DG9L5102	UX93813	07/21/00	1824
15	MPT-G4-SU-59	DG9L6102	UX93814	07/21/00	1847
16	MPT-G4-SU-60	DG9L7102	UX93815	07/21/00	1909
17	MPT-G4-SU-61	DG9L8102	UX93816	07/21/00	1931
18	MPT-G4-SU-DU	DG9L9102	UX93817	07/21/00	1954
19					
20					
21					
22					

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 21-JUL-2000 08:43
 Lab File ID: ux93788.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00721A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 1,2-Dichloroethane-d4	0.29560	0.30788	0.010	-4.2	50.0	Averaged	
\$ 5 Toluene-d8	1.13365	1.09226	0.010	3.7	50.0	Averaged	
\$ 6 Bromofluorobenzene	0.41598	0.40571	0.010	2.5	50.0	Averaged	
\$ 7 Dibromofluoromethane	0.17100	0.17777	0.010	-4.0	50.0	Averaged	
8 Dichlorodifluoromethane	0.14054	0.13612	0.010	3.1	50.0	Averaged	
9 Chloromethane	0.71346	0.72552	0.100	-1.7	50.0	Averaged	
10 Vinyl Chloride	0.37983	0.38481	0.010	-1.3	20.0	Averaged	
11 Bromomethane	0.09645	0.09220	0.010	4.4	50.0	Averaged	
12 Chloroethane	0.16620	0.17193	0.010	-3.4	50.0	Averaged	
13 Trichlorofluoromethane	0.25716	0.26381	0.010	-2.6	50.0	Averaged	
14 Acrolein	0.05929	0.06217	0.010	-4.8	50.0	Averaged	
16 1,1-Dichloroethene	0.20144	0.19441	0.050	3.5	20.0	Averaged	
15 Acetone	0.23389	0.23201	0.010	0.8	50.0	Averaged	
54 Freon-113	0.15413	0.15716	0.010	-2.0	50.0	Averaged	
56 Iodomethane	0.28890	0.30653	0.010	-6.1	50.0	Averaged	
18 Carbon Disulfide	0.66435	0.64704	0.010	2.6	50.0	Averaged	
55 Acetonitrile	0.06247	0.07527	0.010	-20.5	50.0	Averaged	
17 Methylene Chloride	0.25665	0.21361	0.010	16.8	50.0	Averaged	
19 Acrylonitrile	0.24893	0.24784	0.010	0.4	50.0	Averaged	
78 Methyl tert-butyl ether	0.58982	0.59828	0.010	-1.4	50.0	Averaged	
84 Hexane	0.92319	0.93537	0.010	-1.3	50.0	Averaged	
21 Vinyl acetate	0.89465	0.97085	0.010	-8.5	50.0	Averaged	
22 1,1-Dichloroethane	0.62828	0.60140	0.100	4.3	50.0	Averaged	
23 2-Butanone	0.34468	0.36113	0.010	-4.8	50.0	Averaged	
20 trans-1,2-Dichloroethene	0.23088	0.22030	0.010	4.6	50.0	Averaged	
24 cis-1,2-dichloroethene	0.23546	0.22781	0.010	3.3	50.0	Averaged	
M 25 1,2-Dichloroethene (total)	0.23317	0.22406	0.010	3.9	50.0	Averaged	
86 2,2-Dichloropropane	0.30428	0.29895	0.010	1.8	50.0	Averaged	
111 Bromochloromethane	0.10609	0.10469	0.010	1.3	50.0	Averaged	
79 Tetrahydrofuran	0.16651	0.18323	0.010	-10.0	50.0	Averaged	
26 Chloroform	0.33061	0.32775	0.010	0.9	20.0	Averaged	
27 1,1,1-Trichloroethane	0.31098	0.29557	0.010	5.0	50.0	Averaged	
87 1,1-Dichloropropene	0.26985	0.26330	0.010	2.4	50.0	Averaged	
28 Carbon Tetrachloride	0.24337	0.23988	0.010	1.4	50.0	Averaged	
29 1,2-Dichloroethane	0.47582	0.48028	0.010	-0.9	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 21-JUL-2000 08:43
 Lab File ID: ux93788.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00721A.b/N8260SUX9-3.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RF250	RRF	%D / %DRIFT		
30 Benzene	0.86150	0.82091	0.010	4.7	50.0	Averaged
31 Trichloroethene	0.23861	0.23190	0.010	2.8	50.0	Averaged
32 1,2-Dichloropropane	0.34258	0.33922	0.010	1.0	20.0	Averaged
63 1,4-Dioxane	0.00191	0.00228	0.010	-19.5	50.0	Averaged
64 Dibromomethane	0.10146	0.10504	0.010	-3.5	50.0	Averaged
33 Bromodichloromethane	0.23236	0.23470	0.010	-1.0	50.0	Averaged
34 2-Chloroethyl vinyl ether	0.16967	0.17385	0.010	-2.5	50.0	Averaged
36 cis-1,3-Dichloropropene	0.30548	0.30297	0.010	0.8	50.0	Averaged
35 4-Methyl-2-pentanone	0.52737	0.57261	0.010	-8.6	50.0	Averaged
37 Toluene	1.34777	1.23101	0.010	8.7	20.0	Averaged
38 trans-1,3-Dichloropropene	0.38425	0.38480	0.010	-0.1	50.0	Averaged
65 Ethyl Methacrylate	0.32157	0.32497	0.010	-1.1	50.0	Averaged
40 1,1,2-Trichloroethane	0.24354	0.23631	0.010	3.0	50.0	Averaged
88 1,3-Dichloropropane	0.41333	0.41001	0.010	0.8	50.0	Averaged
41 Tetrachloroethene	0.20621	0.19476	0.010	5.6	50.0	Averaged
39 2-Hexanone	0.55487	0.59246	0.010	-6.8	50.0	Averaged
42 Dibromochloromethane	0.23478	0.24751	0.010	-5.4	50.0	Averaged
66 1,2-Dibromoethane	0.23817	0.23371	0.010	1.9	50.0	Averaged
43 Chlorobenzene	0.94401	0.87889	0.300	6.9	50.0	Averaged
44 Ethylbenzene	0.53100	0.48610	0.010	8.5	20.0	Averaged
45 m + p-Xylene	0.65751	0.61465	0.010	6.5	50.0	Averaged
46 Xylene-o	0.62573	0.59567	0.010	4.8	50.0	Averaged
M 47 Xylenes (total)	0.64691	0.60833	0.010	6.0	50.0	Averaged
48 Styrene	0.98538	0.93933	0.010	4.7	50.0	Averaged
49 Bromoform	0.11042	0.11678	0.100	-5.8	50.0	Averaged
89 Isopropylbenzene	1.52808	1.42362	0.010	6.8	50.0	Averaged
50 1,1,2,2-Tetrachloroethane	0.64902	0.65236	0.300	-0.5	50.0	Averaged
90 Bromobenzene	0.69386	0.68131	0.010	1.8	50.0	Averaged
68 1,2,3-Trichloropropane	0.83103	0.86040	0.010	-3.5	50.0	Averaged
69 1,4-Dichloro-2-butene	0.51083	0.57744	0.010	-13.0	50.0	Averaged
92 n-Propylbenzene	1.06790	0.99762	0.010	6.6	50.0	Averaged
91 2-Chlorotoluene	0.85437	0.81559	0.010	4.5	50.0	Averaged
94 1,3,5-Trimethylbenzene	2.86313	2.67120	0.010	6.7	50.0	Averaged
93 4-Chlorotoluene	0.90032	0.83424	0.010	7.3	50.0	Averaged
95 tert-Butylbenzene	2.71911	2.50311	0.010	7.9	50.0	Averaged
96 1,2,4-Trimethylbenzene	2.88839	2.70755	0.010	6.3	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 21-JUL-2000 08:43
 Lab File ID: ux93788.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00721A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
97 sec-Butylbenzene	3.70528	3.41332	0.010	7.9	50.0	Averaged	
51 1,3-Dichlorobenzene	1.38546	1.30690	0.010	5.7	50.0	Averaged	
52 1,4-Dichlorobenzene	1.43202	1.31057	0.010	8.5	50.0	Averaged	
53 1,2-Dichlorobenzene	1.30393	1.22743	0.010	5.9	50.0	Averaged	
98 4-Isopropyltoluene	3.15297	2.93564	0.010	6.9	50.0	Averaged	
99 n-Butylbenzene	2.78586	2.58494	0.010	7.2	50.0	Averaged	
100 1,2,4-Trichlorobenzene	0.87861	0.79576	0.010	9.4	50.0	Averaged	
102 Hexachlorobutadiene	0.40554	0.34935	0.010	13.9	50.0	Averaged	
101 Naphthalene	2.61580	2.36355	0.010	9.6	50.0	Averaged	
103 1,2,3-Trichlorobenzene	0.82711	0.74197	0.010	10.3	50.0	Averaged	
82 tert-Butyl Alcohol	0.04640	0.05053	0.010	-8.9	50.0	Averaged	
138 Methyl Acetate	0.48787	0.50427	0.010	-3.4	50.0	Averaged	
139 Methylcyclohexane	0.39046	0.40582	0.010	-3.9	50.0	Averaged	
83 Cyclohexane	1.01885	1.06203	0.010	-4.2	50.0	Averaged	
137 1,3,5-Trichlorobenzene	0.92089	0.92428	0.010	-0.4	50.0	Averaged	

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux9.i Injection Date: 21-JUL-2000 09:22
 Lab File ID: ux93789.d Init. Cal. Date(s): 09-MAY-2000 14-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 09:57 15:24
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3ux9.i/N00721A.b/N8260SUX9-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
57 3-Chloropropene	0.11122	0.09370	0.010		15.8	50.0	Averaged
58 2-Chloro-1,3-butadiene	0.58141	0.76732	0.010		-32.0	50.0	Averaged
59 Propionitrile	0.06262	0.07982	0.010		-27.5	50.0	Averaged
60 Methacrylonitrile	0.27546	0.28816	0.010		-4.6	50.0	Averaged
61 Isobutanol	0.01610	0.01617	0.010		-0.4	50.0	Averaged
62 Methyl Methacrylate	0.38325	0.38331	0.010		0.0	50.0	Averaged
67 1,1,1,2-Tetrachloroethane	0.26397	0.25825	0.010		2.2	50.0	Averaged
72 1,2-Dibromo-3-chloropropane	0.13595	0.13048	0.010		4.0	50.0	Averaged
74 n-Butanol	0.01277	0.01475	0.010		-15.5	50.0	Averaged
75 Ethyl Acetate	0.47109	0.49184	0.010		-4.4	50.0	Averaged
76 Cyclohexanone	0.04420	0.05336	0.010		-20.7	50.0	Averaged
77 Ethyl Ether	0.30416	0.34441	0.010		-13.2	50.0	Averaged
80 Dichlorofluoromethane	0.33563	0.30126	0.010		10.2	50.0	Averaged
81 2-Nitropropane	0.06997	0.08593	0.010		-22.8	50.0	Averaged
85 Isopropyl Ether	1.02080	0.93061	0.010		8.8	50.0	Averaged
110 3,3,5-Trimethylcyclohexanon	0.17206	0.21132	0.010		-22.8	50.0	Averaged

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP021
 Lab File ID (Standard): UX93788 Date Analyzed: 07/21/00
 Instrument ID: A3UX9 Time Analyzed: 0843
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 AREA #	RT	IS2 (DCB) AREA #	RT	IS3 (CBZ) AREA #	RT
----- 12 HOUR STD -----	787552	5.31	253456	10.22	568644	7.99
----- UPPER LIMIT -----	1575104	5.81	506912	10.72	1137288	8.49
----- LOWER LIMIT -----	393776	4.81	126728	9.72	284322	7.49
----- EPA SAMPLE NO. -----						
01 DGKMA-CHK	833818	5.32	279133	10.23	608396	7.98
02 DGKMA-CKDUP	834096	5.32	286509	10.23	611461	7.98
03 DGKMA-BLK	817943	5.31	259357	10.22	588476	7.99
04 MPT-G4-SU-63	848040	5.32	270208	10.23	620549	7.98
05 MPT-G4-SU-64	838148	5.32	252134	10.23	597512	7.98
06 MPT-G4-SU-65	836927	5.32	257590	10.23	598855	7.99
07 MPT-G4-SU-DU	836007	5.31	225462	10.24	571477	7.99
08 MPT-G4-SU-DU	821947	5.32	259705	10.23	583273	7.98
09 MPT-G4-SU-62	652205	5.31	213389	10.23	472623	7.98
10 MPT-G4-SU-56	810030	5.32	232657	10.23	559555	8.00
11 MPT-G4-SU-57	759068	5.32	244932	10.23	549443	7.99
12 MPT-G4-SU-58	740741	5.32	228736	10.23	520216	7.98
13 MPT-G4-SU-59	835149	5.31	228642	10.22	564286	7.99
14 MPT-G4-SU-60	805325	5.33	243135	10.22	582692	7.99
15 MPT-G4-SU-61	813283	5.32	265736	10.23	584213	7.98
16 MPT-G4-SU-DU	832715	5.31	255459	10.22	572695	7.99
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 (CBZ) = Chlorobenzene-d5
 UPPER LIMIT = +100% of internal standard area.
 LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP021

Lot #: A0G150130

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	84	91	75	68	00
02	MPT-G4-SU-56-05	94	103	89	83	00
03	MPT-G4-SU-57-03	89	104	80	77	00
04	MPT-G4-SU-58-05	98	105	90	82	00
05	MPT-G4-SU-59-05	87	98	82	75	00
06	MPT-G4-SU-60-05	92	101	79	80	00
07	MPT-G4-SU-61-05	96	100	81	80	00
08	MPT-G4-SU-DU03	85	94	77	73	00
09	METHOD BLK. DGKMA101	98	105	91	93	00
10	LCS DGKMA102	93	100	87	84	00
11	LAB MS/MSD D	93	100	82	70	00
12	LCSD DGKMA103	99	104	92	94	00
13	LAB MS/MSD S	85	95	76	67	00

SURROGATES

SRG01 = Dibromofluoromethane
 SRG02 = 1,2-Dichloroethane-d4
 SRG03 = Toluene-d8
 SRG04 = 4-Bromofluorobenzene

QC LIMITS

(59-138)
 (61-130)
 (60-143)
 (47-158)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

QESSDG: MP021

Lot #: A0G150133

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
1	INTRA-LAB QC	84	91	75	68	00
2	MPT-G4-SU-62-05	104	115	71	51	00
3	MPT-G4-SU-63-05	91	99	78	85	00
4	MPT-G4-SU-64-05	88	100	78	78	00
5	MPT-G4-SU-65-05	91	97	82	82	00
6	MPT-G4-SU-DU04	92	99	82	80	00
7	MPT-G4-SU-DU05	100	102	87	84	00
8	METHOD BLK. DGKMA101	98	105	91	93	00
9	LCS DGKMA102	93	100	87	84	00
0	LAB MS/MSD D	93	100	82	70	00
1	LCSD DGKMA103	99	104	92	94	00
2	LAB MS/MSD S	85	95	76	67	00

SURROGATES

SRG01 = Dibromofluoromethane
 SRG02 = 1,2-Dichloroethane-d4
 SRG03 = Toluene-d8
 SRG04 = 4-Bromofluorobenzene

QC LIMITS

(59-138)
 (61-130)
 (60-143)
 (47-158)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP021

Lot #: A0G210000

WO #: DGKMA102

BATCH: 0203196

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Bromomethane	50	46	91	10 - 242	
Chloromethane	50	34	68	10 - 273	
Vinyl chloride	50	36	73	41 - 138	
Chloroethane	50	48	96	82 - 114	
Methylene chloride	50	41	81	10 - 221	
Acetone	50	61	122*	80 - 120	
Carbon disulfide	50	42	85	81 - 125	
1,1-Dichloroethene	50	47	95	55 - 142	
1,1-Dichloroethane	50	47	93	59 - 155	
1,2-Dichloroethene (total)	100	89	89	50 - 150	
Chloroform	50	48	95	77 - 126	
1,2-Dichloroethane	50	50	99	76 - 127	
2-Butanone (MEK)	50	52	104	20 - 155	
1,1,1-Trichloroethane	50	46	92	52 - 162	
Carbon tetrachloride	50	48	95	66 - 141	
Bromodichloromethane	50	51	102	35 - 155	
1,2-Dichloropropane	50	47	95	10 - 210	
cis-1,3-Dichloropropene	50	49	98	10 - 227	
Trichloroethene	50	48	96	70 - 131	
Dibromochloromethane	50	49	98	53 - 149	
1,1,2-Trichloroethane	50	47	94	52 - 150	
Benzene	50	46	93	75 - 129	
trans-1,3-Dichloropropene	50	49	99	17 - 183	
Bromoform	50	50	100	45 - 169	
2-Hexanone	50	52	105	87 - 129	
Tetrachloroethene	50	49	97	68 - 136	
4-Methyl-2-pentanone (MIB)	50	47	93	90 - 125	
1,1,2,2-Tetrachloroethane	50	44	89	46 - 157	
Toluene	50	43	87	71 - 130	
Chlorobenzene	50	46	92	75 - 127	
Ethylbenzene	50	46	92	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP021

Lot #: A0G210000

WO #: DGKMA102

BATCH: 0203196

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Styrene	50	46	92	79 - 100	
Xylenes (total)	150	130	90	83 - 129	
cis-1,2-Dichloroethene	50	45	90	50 - 150	
trans-1,2-Dichloroethene	50	44	87	54 - 156	
n-Hexane	50	47	93*	98 - 117	

NOTES (S):

Values outside of QC limits

pike Recovery: 2 out of 36 outside limits

COMMENTS:

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP021

Lot #: A0G210000

WO #: DGKMA103

BATCH: 0203196

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	50	35	69	10- 273	
Bromomethane	50	48	95	10- 242	
Vinyl chloride	50	37	75	41- 138	
Chloroethane	50	48	96	82- 114	
Methylene chloride	50	41	81	10- 221	
Acetone	50	62	123*	80- 120	
Carbon disulfide	50	42	84	81- 125	
1,1-Dichloroethene	50	46	92	55- 142	
1,1-Dichloroethane	50	49	97	59- 155	
1,2-Dichloroethene (total)	100	91	91	50- 150	
Chloroform	50	50	100	77- 126	
1,2-Dichloroethane	50	51	101	76- 127	
2-Butanone (MEK)	50	53	106	20- 155	
1,1,1-Trichloroethane	50	46	92	52- 162	
Carbon tetrachloride	50	50	99	66- 141	
Bromodichloromethane	50	51	103	35- 155	
1,2-Dichloropropane	50	48	96	10- 210	
cis-1,3-Dichloropropene	50	50	100	10- 227	
Trichloroethene	50	49	98	70- 131	
Dibromochloromethane	50	50	99	53- 149	
1,1,2-Trichloroethane	50	48	96	52- 150	
Benzene	50	48	95	75- 129	
trans-1,3-Dichloropropene	50	51	102	17- 183	
Bromoform	50	49	98	45- 169	
4-Methyl-2-pentanone (MIB)	50	46	92	90- 125	
2-Hexanone	50	52	104	87- 129	
Tetrachloroethene	50	48	96	68- 136	
1,1,2,2-Tetrachloroethane	50	46	91	46- 157	
Toluene	50	45	89	71- 130	
Chlorobenzene	50	47	94	75- 127	
Ethylbenzene	50	46	92	37- 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP021

Lot #: A0G210000

WO #: DGKMA103

BATCH: 0203196

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	† REC	QC LIMITS REC	QUAL
Styrene	50	47	94	79 - 100	
Xylenes (total)	150	140	92	83 - 129	
cis-1,2-Dichloroethene	50	47	94	50 - 150	
trans-1,2-Dichloroethene	50	45	89	54 - 156	
n-Hexane	50	48	96*	98 - 117	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 2 out of 36 outside limits

COMMENTS:

FORM III

CLIENT NS May part		JOB NUMBER	
SUBJECT Sample Calc.			
BASED ON MPT-64-SU-57-03 (DG9L4102)		DRAWING NUMBER	
BY Douglas S. Schloer	CHECKED BY	APPROVED BY	DATE 10/9/00

Fraction: ~~Organic~~ volatile
 Matrix: Soil
 Compound: Acetone
 Form I: 3.7 ug/kg

$$\text{ug/kg} = \frac{A_x (I_s \times Df)}{A_{is} (RRF \times W_s) (D)}$$

$A_x = 11561 \text{ Area}$

$$= \frac{11561 \text{ Area} (250 \text{ ng}) (1)}{759068 \text{ Area} (0.23389) (5.15 \text{ g}) (0.85)}$$

$I_s = 250 \text{ ng}$

$$= 3.71 \frac{\text{ng}}{\text{g}} \text{ or } \text{ug/kg}$$

$Df = 1$

$A_{is} = 759068 \text{ Area}$

$RRF = 0.23389$

$W_s = 5.15 \text{ g}$

$D = 0.85$

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3ux9.i/N00721A.b/ux93812.d
 Lab Smp Id: DG9L4102 Client Smp ID: MPT-G4-SU-57-03
 Inj Date : 21-JUL-2000 18:01
 Operator : 01903 Inst ID: a3ux9.i
 Smp Info : DG9L4102,, 5.15G/5ML
 Misc Info : UX9,N007121A,N8260SUX9,01903
 Comment :
 Method : /chem/can/msv/a3ux9.i/N00721A.b/N8260SUX9-3.m
 Meth Date : 21-Jul-2000 09:55 laveyt Quant Type: ISTD
 Cal Date : 28-JUN-2000 08:30 Cal File: ux93154.d
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-8260+A9+.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.15000	Sample Volume
Va	100.00000	Amount of extract

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	5.324	5.313	(1.000)	759068	250.000	
* 2 Chlorobenzene-d5	117	7.987	7.987	(1.000)	549443	250.000	
* 3 1,4-Dichlorobenzene-d4	152	10.235	10.223	(1.000)	244932	250.000	
\$ 4 1,2-Dichloroethane-d4	65	5.040	5.040	(0.947)	233323	259.962	50.478
\$ 5 Toluene-d8	98	6.673	6.673	(0.836)	497697	199.757	38.788
\$ 6 Bromofluorobenzene	95	9.099	9.099	(1.139)	176173	192.701	37.418
\$ 7 Dibromofluoromethane	113	4.756	4.745	(0.893)	116104	223.622	43.422
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
16 1,1-Dichloroethene	96	2.946	2.922	(0.553)	2308	3.77360	0.7327
15 Acetone	43	2.946	2.934	(0.553)	11561	16.2799	3.161
54 Freon-113	151	Compound Not Detected.					

UX9
Batch # 0103196

STL-North Canton
GC/MS VOA Run Log

7/21

Date: 1-21-00

Column Type: <u>624</u>	BFB <u>100</u> C for <u>0.1</u> min	Analysis <u>45</u> C for <u>2</u> min	Purge & Trap Trap: <u>10</u>
Length <u>20</u> M	to <u>200</u> C @ <u>20</u> C/min	to <u>200</u> C @ <u>15</u> C/min	Purge: <u>11</u>
I.D. <u>0.18</u> mm	Hold <u>1</u> min	to <u>1</u> C @ <u>1</u> C/min	Desorb: <u>1</u> min @ <u>150</u> C
Flow Rate <u>0.4</u>		Hold <u>1</u> min	Bake: <u>5</u> min @ <u>210</u> C
			Heated Purge: (Yes/No)

4P
5011

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Sample prep	Comments	Sample status
	BFB		BFB129	5.0g		8:30	OK
	8260 STD		UX93788	250g		NC0714	OK
	AD9 STD		89			519	OK
	CHECK		90			DGKMA	OK
	CHECK		91				OK
	BLANK		92	5g			OK
	DGCEM102		93	6.17g		ADG170152	OK
	DG9LJ102		94	5.11g		ISLOW	RR
	DG9LQ102		95	5.15g			OK
	DG9LR102		96	4.82g			OK
	DG9LT102		97	4.53g			OK
	DG9LV102		98	4.79g			OK
	DG9LW102		99	5.17g			OK
	DG7A9101		UX93800	3.20g		RR MLS 100µL	
	DG7AC101		01	5.24g			OK
	DG7AD101		02	5.24g			OK
	RUSH SAMPLE		03	1g		DGKVM-102	RR
	DG9LJ102		04	5.06g			OK
	DG7AE101		05	5.41g			OK
	DG7AE102	-MS	06	5.83g	+250g		OK
	DG7AE103	-MSD	07	5.09g	+250g		OK
	DG7AF101		08	5.92g			OK
	DG7AG101		09	5.44g			OK
	DGKVM102		10	5g			OK
	DG9LO102		11	5.35g			OK
	DG9L4102		12	5.15g			OK
	DG9L5102		13	5.23g			OK
	DG9L6102		14	5.30g			OK
	DG9L7102		15	4.38g			OK
	DG9L8102		16	4.86g			OK
	DG9L9102		17	4.62g			OK
			18				

Analyst: JA
Second level Review: TS

No 009

N:\QAQC\Lab Form\voa run logs

**SDG NARRATIVE
MP021**

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violations

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGC40101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP021

Lab File ID: DGC40101.

Lot Number: A0G150130

Date Analyzed: 07/24/00

Time Analyzed: 12:54

Matrix: SOLID

Date Extracted:07/18/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3550B

Instrument ID: HP6

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DGC40102 C	DGC40102.	07/24/00 13:31
02	MPT-G4-SU-56-05	DG9L010W	DG9L010W.	07/25/00 19:21
03	MPT-G4-SU-56-05	DG9L010X S	DG9L010X.	07/25/00 19:58
04	MPT-G4-SU-56-05	DG9L0110 D	DG9L0110.	07/25/00 20:36
05	MPT-G4-SU-57-03	DG9L410W	DG9L410W.	07/25/00 21:13
06	MPT-G4-SU-58-05	DG9L510W	DG9L510W.	07/24/00 22:45
07	MPT-G4-SU-59-05	DG9L610W	DG9L610W.	07/24/00 23:21
08	MPT-G4-SU-60-05	DG9L710W	DG9L710W.	07/25/00 15:01
09	MPT-G4-SU-61-05	DG9L810W	DG9L810W.	07/24/00 22:08
10	MPT-G4-SU-DU03	DG9L910W	DG9L910W.	07/25/00 15:38
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COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DGC40101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP021

Lab File ID: DGC40101.

Lot Number: A0G150133

Date Analyzed: 07/24/00

Time Analyzed: 12:54

Matrix: SOLID

Date Extracted:07/18/00

GC Column: DB-5.625 ID: .32

Extraction Method: 3550B

Instrument ID: HP6

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01 CHECK SAMPLE	DGC40102 C	DGC40102.	07/24/00	13:31
02 MPT-G4-SU-62-05	DG9LJ10W	DG9LJ10W.	07/24/00	18:27
03 MPT-G4-SU-63-05	DG9LQ10W	DG9LQ10W.	07/24/00	19:04
04 MPT-G4-SU-64-05	DG9LR10W	DG9LR10W.	07/24/00	19:41
05 MPT-G4-SU-65-05	DG9LT10W	DG9LT10W.	07/24/00	20:17
06 MPT-G4-SU-DU04	DG9LV10W	DG9LV10W.	07/24/00	20:54
07 MPT-G4-SU-DU05	DG9LW10W	DG9LW10W.	07/24/00	21:31
08 INTRA-LAB QC	DG9L010W	DG9L010W.	07/25/00	19:21
09 LAB MS/MSD	DG9L010X S	DG9L010X.	07/25/00	19:58
10 LAB MS/MSD	DG9L0110 D	DG9L0110.	07/25/00	20:36
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COMMENTS:

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: A0G170000 321
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DGC40101 Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0199321

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
98-86-2	Acetophenone	330	U
53-96-3	2-Acetylaminofluorene	3300	U
92-67-1	4-Aminobiphenyl	1600	U
62-53-3	Aniline	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
100-51-6	Benzyl alcohol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
2303-16-4	Diallate	660	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: A0G170000 321
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DGC40101 Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0199321

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
120-83-2	2,4-Dichlorophenol	330	U
87-65-0	2,6-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
60-11-7	p-Dimethylaminoazobenzene	660	U
57-97-6	7,12-Dimethylbenz(a)anthracene	660	U
119-93-7	3,3'-Dimethylbenzidine	1600	U
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
99-65-0	1,3-Dinitrobenzene	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	660	U
123-91-1	1,4-Dioxane	330	U
122-39-4	Diphenylamine	330	U
62-50-0	Ethyl methanesulfonate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: AOG170000 321
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DGC40101 Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0199321

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	330	U
1888-71-7	Hexachloropropene	3300	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
120-58-1	Isosafrole	660	U
91-80-5	Methapyrilene	1600	U
95-53-4	o-Toluidine	660	U
56-49-5	3-Methylcholanthrene	660	U
66-27-3	Methyl methanesulfonate	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
108-39-4	3-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
130-15-4	1,4-Naphthoquinone	1600	U
134-32-7	1-Naphthylamine	330	U
91-59-8	2-Naphthylamine	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
56-57-5	4-Nitroquinoline-1-oxide	3300	U
924-16-3	N-Nitrosodi-n-butylamine	330	U
55-18-5	N-Nitrosodiethylamine	330	U
62-75-9	N-Nitrosodimethylamine	330	U
621-64-7	N-Nitrosodi-n-propylamine	330	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: A0G170000 321
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DGC40101 Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0199321

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	330	U
10595-95-6	N-Nitrosomethylethylamine	330	U
59-89-2	N-Nitrosomorpholine	330	U
100-75-4	N-Nitrosopiperidine	330	U
930-55-2	N-Nitrosopyrrolidine	330	U
99-55-8	5-Nitro-o-toluidine	660	U
608-93-5	Pentachlorobenzene	330	U
76-01-7	Pentachloroethane	1600	U
82-68-8	Pentachloronitrobenzene	1600	U
87-86-5	Pentachlorophenol	1600	U
62-44-2	Phenacetin	660	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
106-50-3	p-Phenylene diamine	3300	U
109-06-8	2-Picoline	660	U
23950-58-5	Pronamide	660	U
129-00-0	Pyrene	330	U
110-86-1	Pyridine	660	U
94-59-7	Safrole	660	U
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	1600	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
99-35-4	1,3,5-Trinitrobenzene	1600	U
86-74-8	Carbazole	330	U
510-15-6	Chlorobenzilate	330	U
122-09-8	a,a-Dimethylphenethylamine	1600	U

TETRA TECH NUS, INC.
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP021

Matrix: (soil/water) SOLID Lab Sample ID: A0G170000 321
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30 / g Date Received: 07/15/00
Work Order: DGC40101 Date Extracted: 07/18/00
Dilution factor: 1 Date Analyzed: 07/24/00
Moisture %: NA

QC Batch: 0199321

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	660	U

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.: SDG No.: MP021

Lab File ID: 6DF0721C

DFTPP Injection Date: 07/21/00

Instrument ID: A4HP6

DFTPP Injection Time: 0737

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.7
68	Less than 2.0% of mass 69	0.8 (1.1)1
69	Mass 69 relative abundance	78.2
70	Less than 2.0% of mass 69	1.2 (1.6)1
127	40.0 - 60.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	28.4
365	Greater than 1.0% of mass 198	6.39
441	Present, but less than mass 443	10.0
442	Greater than 40.0% of mass 198	68.4
443	17.0 - 23.0% of mass 442	13.3 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0721	07/21/00	0756
02	SSTD024	SSTD024	6SMH0721	07/21/00	0834
03	SSTD010	SSTD010	6SML0721	07/21/00	0912
04	SSTD032	SSTD032	6SH0721	07/21/00	0950
05	SSTD004	SSTD004	6SL0721	07/21/00	1028
06	SSTD040	SSTD040	6SHH0721	07/21/00	1105
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DB
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.: SDG No.: MP021

Lab File ID: 6DF0724B

DFTPP Injection Date: 07/24/00

Instrument ID: A4HP6

DFTPP Injection Time: 0712

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.2
70	Less than 2.0% of mass 69	0.9 (1.3)1
127	40.0 - 60.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	26.6
365	Greater than 1.0% of mass 198	5.85
441	Present, but less than mass 443	10.4
442	Greater than 40.0% of mass 198	61.1
443	17.0 - 23.0% of mass 442	11.0 (18.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD004	ASTD004	6AL0724	07/24/00	0730
02	ASTD010	ASTD010	6AML0724	07/24/00	0807
03	ASTD016	ASTD016	6AM0724	07/24/00	0843
04	ASTD024	ASTD024	6AMH0724	07/24/00	0920
05	ASTD032	ASTD032	6AH0724	07/24/00	0957
06	ASTD040	ASTD040	6AHH0724	07/24/00	1034
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Report Date : 24-Jul-2000 11:17

Page 1

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-JUL-2000 07:56
 End Cal Date : 24-JUL-2000 10:34
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m
 Cal Date : 24-Jul-2000 11:15 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\6AL0724.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\6AML0724.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\6AM0724.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\6AMH0724.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\6AH0724.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\6AHH0724.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
198 1,4-Dioxane	0.69457	0.60836	0.69340	0.73397	0.71282	0.66025	0.68389	6.478
7 N-Nitrosomorpholine	0.74898	0.85034	0.89048	0.93216	0.96010	0.98463	0.89445	9.616
8 Ethyl methanesulfonate	1.58852	1.61451	1.65714	1.74015	1.73950	1.77145	1.68521	4.483
9 Pyridine	1.43621	1.58462	1.67858	1.64708	1.73452	1.66765	1.62478	6.422
10 N-Nitrosodimethylamine	0.96100	1.20754	1.25506	1.29788	1.39596	1.32113	1.23976	12.146
11 Ethyl methacrylate	1.59553	1.58570	1.93047	1.59593	1.86484	1.57505	1.69124	9.544
12 3-Chloropropionitrile	0.52447	0.62194	0.63796	0.62936	0.66554	0.65516	0.62240	8.134
13 Malononitrile	1.76227	1.81497	1.75398	1.78962	1.78137	1.63830	1.75673	3.523
14 2-Picoline	1.40728	1.76440	1.82656	1.94745	1.94104	1.99333	1.81334	11.934
15 N-Nitrosomethylethylamine	0.81323	0.83904	0.86498	0.90438	0.88163	0.91372	0.86950	4.435
16 Methyl methanesulfonate	1.48383	1.50411	1.42468	1.56398	1.55332	1.58596	1.51931	3.953
18 1,3-Dichloro-2-propanol	2.11837	2.11458	2.19701	2.29451	2.31260	2.35034	2.23123	4.585
19 N-Nitrosodiethylamine	0.73077	0.75278	0.76868	0.83421	0.85790	0.84658	0.79849	6.786
21 Aniline	2.46604	2.64589	2.71422	2.78401	2.83506	2.76688	2.70202	4.899
22 Phenol	2.05791	2.15762	2.29528	2.25170	2.32938	2.30162	2.23225	4.680
23 bis(2-Chloroethyl)ether	1.56690	1.68639	1.69854	1.73157	1.84104	1.78627	1.71845	5.471
24 2-Chlorophenol	1.16410	1.20628	1.21090	1.22227	1.28394	1.25947	1.22449	3.451
25 Pentachloroethane	0.59842	0.60391	0.62030	0.67497	0.68332	0.69669	0.64627	6.744
26 1,3-Dichlorobenzene	1.44853	1.52495	1.51247	1.54216	1.60500	1.59449	1.53793	3.738
27 1,4-Dichlorobenzene	1.46522	1.49351	1.51916	1.55220	1.59919	1.60360	1.53881	3.662
28 1,2-Dichlorobenzene	1.38311	1.40067	1.42254	1.45689	1.51658	1.53039	1.45170	4.200
29 Benzyl Alcohol	0.90271	1.05499	1.16683	1.15854	1.25161	1.24405	1.12979	11.692
30 2-Methylphenol	1.34021	1.39157	1.48624	1.44601	1.51161	1.48453	1.44336	4.545
31 bis(2-Chloroisopropyl)ether	0.93680	0.89519	1.02595	0.91588	0.94003	0.91151	0.93756	4.949
32 N-Nitroso-di-n-propylamine	1.62708	1.67173	1.80435	1.73769	1.77241	1.70540	1.71977	3.800

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-JUL-2000 07:56
 End Cal Date : 24-JUL-2000 10:34
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m
 Cal Date : 24-Jul-2000 11:15 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.70538	2.91520	3.21065	3.23978	3.37044	3.35260	3.13234	8.475
192 4-Methylphenol	1.36517	1.52363	1.72441	1.79377	1.85883	1.86807	1.68898	11.999
193 3-Methylphenol	1.22652	1.37552	1.53459	1.59384	1.70110	1.73959	1.52853	12.862
34 Hexachloroethane	0.66465	0.68038	0.74983	0.71987	0.73526	0.73977	0.71496	4.843
35 Nitrobenzene	0.81280	0.81241	0.82830	0.81673	0.82998	0.81617	0.81940	0.947
36 N-Nitrosopyrrolidine	0.68942	0.76091	0.84161	0.89757	0.95797	0.95555	0.85050	12.756
37 Acetophenone	2.28913	2.38655	2.60020	2.71249	2.77706	2.87400	2.60657	8.766
39 o-Toluidine	2.01576	2.22295	2.46256	2.62937	2.76131	2.82351	2.48591	12.735
40 N-Nitrosopiperidine	0.19857	0.19364	0.20165	0.21433	0.21646	0.21591	0.20676	4.840
41 Isophorone	1.17488	1.24799	1.33690	1.27907	1.29237	1.27153	1.26713	4.256
42 2-Nitrophenol	0.15761	0.17816	0.18661	0.20285	0.21218	0.21391	0.19189	11.437
43 2,4-Dimethylphenol	0.49471	0.50411	0.52075	0.52621	0.52989	0.52525	0.51682	2.731
44 bis(2-Chloroethoxy)methane	0.61781	0.63890	0.62114	0.65697	0.67414	0.67443	0.64723	3.893
45 O,C,O-Triethyl phosphorothioa	0.24122	0.23209	0.24127	0.26789	0.27355	0.28384	0.25664	8.228
46 2,4-Toluenediamene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
47 1,3,5-Trichlorobenzene	0.38902	0.42709	0.43532	0.46840	0.47955	0.48055	0.44666	8.095
48 2,4-Dichlorophenol	0.31066	0.34048	0.35655	0.36190	0.36693	0.36858	0.35085	6.310
49 Benzoic Acid	+++++	0.10769	0.05232	0.12444	0.11662	0.09197	0.09861	28.954 <-
50 1,2,4-Trichlorobenzene	0.38157	0.37565	0.40600	0.40776	0.40981	0.41480	0.39927	4.101
51 Naphthalene	1.06079	1.06352	1.10911	1.15346	1.19872	1.21205	1.13294	5.801
52 4-Chloroaniline	0.35849	0.41454	0.41540	0.43413	0.44141	0.44382	0.41797	7.593
53 a,a-Dimethyl-phenethylamine	+++++	0.33665	0.49528	0.60138	0.48221	0.50542	0.48419	19.615 <-
54 2,6-Dichlorophenol	0.28837	0.29996	0.31397	0.35294	0.36199	0.36790	0.33086	10.360
55 Hexachloropropene	0.17606	0.20452	0.23664	0.27398	0.30760	0.31138	0.25170	22.019
56 Hexachlorobutadiene	0.29684	0.31185	0.31316	0.32838	0.33220	0.33087	0.31889	4.388
57 1,2,3-Trichlorobenzene	0.36352	0.37430	0.39386	0.40836	0.40957	0.41783	0.39457	5.473
58 N-Nitrosodi-n-butylamine	0.39389	0.40111	0.41401	0.43653	0.43455	0.44290	0.42050	4.853
59 4-Chloro-3-Methylphenol	0.35846	0.39788	0.43316	0.42249	0.42834	0.42815	0.41141	7.003
60 p-Phenylene diamine	+++++	0.08336	0.12860	0.20946	0.28138	0.29703	0.19996	X 46.665 <-
61 Safrole	0.33522	0.32871	0.33813	0.36994	0.38147	0.38478	0.35637	7.062
62 2-Methylnaphthalene	0.67100	0.69170	0.75841	0.76492	0.79869	0.81565	0.75006	7.685
63 1-Methylnaphthalene	0.67373	0.70794	0.73479	0.76684	0.78385	0.79846	0.74427	6.415
64 Hexachlorocyclopentadiene	0.32692	0.41599	0.40177	0.43690	0.44107	0.41417	0.40614	10.225

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-JUL-2000 07:56
 End Cal Date : 24-JUL-2000 10:34
 Quant Method : ISTD
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00724a.b\8270c.m
 Cal Date : 24-Jul-2000 11:15 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.66581	0.65136	0.69395	0.76718	0.77031	0.76262	0.71854	7.594
66 2,4,6-Trichlorophenol	0.33854	0.37124	0.38655	0.38851	0.41255	0.38786	0.38088	6.461
67 2,4,5-Trichlorophenol	0.33638	0.38058	0.39506	0.38943	0.41162	0.38359	0.38278	6.594
68 1,2,3,5-Tetrachlorobenzene	0.64602	0.68520	0.72226	0.72064	0.76689	0.75152	0.71542	6.175
69 1,4-Dinitrobenzene	0.09666	0.11395	0.14387	0.15398	0.16538	0.16877	0.14043	20.732
70 2-Chloronaphthalene	1.09865	1.11894	1.19914	1.22621	1.32582	1.33060	1.21656	8.118
71 Isosafrole 1	0.15228	0.14507	0.15407	0.16551	0.15958	0.15672	0.15554	4.450
M 188 Isosafrole, Total	1.17169	1.13756	1.23215	1.36529	1.38988	1.40114	1.28295	9.109
72 Isosafrole 2	1.01941	0.99249	1.07808	1.19977	1.23030	1.24441	1.12741	9.862
73 2-Nitroaniline	0.47387	0.53373	0.55005	0.53528	0.54490	0.51157	0.52490	5.389
74 1,2,3,4-Tetrachlorobenzene	0.58723	0.60210	0.62340	0.62375	0.66163	0.64071	0.62314	4.260
75 1,4-Naphthoquinone	0.35217	0.37009	0.39239	0.44014	0.41902	0.42913	0.40049	8.693
76 Dimethylphthalate	1.28774	1.31593	1.31404	1.29101	1.40051	1.31691	1.32102	3.106
77 m-Dinitrobenzene	0.12808	0.14812	0.16922	0.18594	0.19079	0.19420	0.16939	15.633
78 2,6-Dinitrotoluene	0.21058	0.25077	0.27848	0.27137	0.30206	0.30180	0.26918	12.879
79 Acenaphthylene	1.69556	1.75542	1.82059	1.89475	2.07889	2.00527	1.87508	7.852
80 1,2-Dinitrobenzene	0.10111	0.11564	0.11460	0.11645	0.11949	0.11414	0.11357	5.629
81 3-Nitroaniline	0.18611	0.22189	0.21777	0.22437	0.23347	0.21278	0.21606	7.511
82 Acenaphthene	1.05943	1.11077	1.24833	1.15693	1.24235	1.20825	1.15434	5.694
83 2,4-Dinitrophenol	+++++	0.05728	0.07644	0.07671	0.07958	0.07779	0.07356	12.484 <-
84 Pentachlorobenzene	0.52065	0.52521	0.55870	0.61227	0.61435	0.63294	0.57735	8.471
85 4-Nitrophenol	+++++	0.26719	0.30427	0.29097	0.29215	0.26304	0.28352	6.227 <-
86 Dibenzofuran	1.50440	1.50954	1.52560	1.54693	1.65887	1.57843	1.55396	3.740
87 2,4-Dinitrotoluene	0.27775	0.32290	0.32769	0.30848	0.32225	0.30408	0.31052	5.947
88 2,3,4,6-Tetrachlorophenol	0.19608	0.21622	0.24416	0.26951	0.29057	0.29308	0.25160	15.849
89 1-Naphthylamine	0.78549	0.71456	0.82635	0.92017	0.96125	0.96678	0.86243	11.946
90 Zinophos	0.37769	0.40931	0.41497	0.44942	0.44820	0.45685	0.42607	7.216
91 2,3,5,6-Tetrachlorophenol	0.23127	0.31279	0.34875	0.34528	0.34918	0.33305	0.32006	14.258
92 2-Naphthylamine	0.64220	0.60096	0.61646	0.66272	0.74581	0.71968	0.66464	8.644
93 Diethylphthalate	1.31049	1.32174	1.43004	1.31006	1.38203	1.33017	1.34742	3.596
94 Fluorene	1.19960	1.29081	1.32069	1.31607	1.40092	1.34909	1.31287	5.104
95 4-Chlorophenyl-phenylether	0.63610	0.65203	0.70234	0.67539	0.72094	0.70604	0.68214	4.887
96 4-Nitroaniline	0.14722	0.18333	0.18257	0.19002	0.20174	0.17563	0.18009	10.191

STL - North Canton

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 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00724a.b\8270c.m
 Cal Date : 24-Jul-2000 11:15 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
97 5-Nitro-o-toluidine	0.22592	0.22696	0.27482	0.28259	0.29613	0.30465	0.26851	12.736
98 4,6-Dinitro-2-methylphenol	++++	0.08613	0.09825	0.10196	0.11561	0.11235	0.10286	11.449
99 N-Nitrosodiphenylamine	0.58224	0.58470	0.59283	0.61782	0.68335	0.67909	0.62334	7.474
100 1,2-Diphenylhydrazine	1.72848	1.71228	1.72836	1.70192	1.90285	1.80618	1.76335	4.401
101 Diphenylamine	0.58224	0.58470	0.59283	0.61782	0.68335	0.67909	0.62334	7.474
102 Tetraethyl dithiopyrophosphat	0.10185	0.11286	0.12195	0.14101	0.13696	0.14424	0.12648	13.462
103 Diallate 1	0.82557	0.85681	0.90284	1.01902	0.99634	1.01953	0.93669	9.193
M 189 Diallate, Total	3.33591	3.56397	3.76168	3.84512	3.98436	4.21076	3.78363	8.152
104 Phorate	0.13262	0.14272	0.15387	0.17261	0.16829	0.17896	0.15818	11.496
105 1,3,5-Trinitrobenzene	0.03820	0.04231	0.05244	0.06259	0.07080	0.07226	0.05643	25.587
106 4-Bromophenyl-phenylether	0.24846	0.25852	0.28117	0.29327	0.32465	0.31457	0.28677	10.517
107 Hexachlorobenzene	0.27865	0.27074	0.29610	0.30232	0.33765	0.32782	0.30221	8.748
108 Phenacetin	0.36184	0.40065	0.44969	0.47447	0.48853	0.50262	0.44630	12.263
109 Diallate 2	0.13656	0.13254	0.13336	0.14602	0.13764	0.14033	0.13774	3.600
110 Dimethoate	0.31054	0.33614	0.35799	0.37458	0.36808	0.38760	0.35582	7.904
111 Pentachlorophenol	++++	0.11104	0.14676	0.13867	0.15025	0.14365	0.13807	11.372
112 Pentachloronitrobenzene	0.11902	0.13746	0.15797	0.17558	0.17972	0.18076	0.15842	16.066
113 4-Aminobiphenyl	0.47885	0.32545	0.43461	0.53403	0.64206	0.64930	0.51072	24.477
114 Pronamide	0.38320	0.38500	0.41321	0.44792	0.45393	0.47439	0.42627	8.951
115 Phenanthrene	1.16989	1.18551	1.26341	1.31748	1.42666	1.39962	1.29376	8.283
116 Anthracene	1.09941	1.13759	1.23725	1.25214	1.33754	1.31976	1.23062	7.773
117 Dinoseb	0.05930	0.08546	0.12628	0.15302	0.18430	0.19611	0.13408	40.502
118 Disulfoton	0.48189	0.51632	0.53919	0.59126	0.58835	0.62079	0.55630	9.456
119 Carbazole	0.85549	0.91674	0.93975	0.96075	1.04364	0.99222	0.95143	6.779
120 Di-n-Butylphthalate	1.43268	1.49521	1.53552	1.55563	1.73257	1.68439	1.57266	7.268
121 4-Nitroquinoline 1-oxide	++++	0.02435	0.03675	0.04861	0.06315	0.06118	0.04681	35.147
122 Methapyrilene	0.22570	0.24999	0.25521	0.31060	0.31428	0.31008	0.27764	13.899
123 Fluoranthene	1.16319	1.26730	1.33625	1.36739	1.45425	1.39872	1.33118	7.759
124 Benzidine	0.29863	0.31517	0.32048	0.39416	0.46270	0.42800	0.36986	18.375
125 Pyrene	1.50907	1.47124	1.39301	1.39805	1.41389	1.42519	1.43508	3.189
126 Aramite 1	0.08442	0.08745	0.09321	0.09836	0.09283	0.10229	0.09309	7.117
M 191 Aramite, Total	0.49800	0.54215	0.59233	0.55066	0.58448	0.63745	0.56754	8.468
127 Aramite 2	0.11571	0.12356	0.13369	0.13994	0.13717	0.14712	0.13287	8.603

1/2 RSD (Pyrene) = $\frac{0.0457}{1.4351} = 3.18$ (100)

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 21-JUL-2000 07:56
 End Cal Date : 24-JUL-2000 10:34
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\ahp6.i\00724a.b\8270c.m
 Cal Date : 24-Jul-2000 11:15 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRP	% RSD
128 p-Dimethylamino azobenzene	0.33579	0.32702	0.35714	0.38239	0.38655	0.41040	0.36655	8.773
129 p-Chlorobenzilate	0.59010	0.63416	0.68927	0.75263	0.75467	0.80364	0.70408	11.526
130 Pamphur	0.61557	0.49827	0.40818	0.32160	0.29790	0.18638	0.38799	39.517
131 Butylbenzylphthalate	0.57356	0.66493	0.61193	0.59482	0.59177	0.58722	0.62070	6.221
132 3,3'-Dimethylbenzidine	0.41463	0.28793	0.33593	0.39769	0.46415	0.42311	0.38724	16.558
133 3,3'-Dimethoxybenzidine	0.20751	0.22280	0.19992	0.25680	0.27951	0.26181	0.23806	13.618
134 2-Acetylaminofluorene	0.31451	0.34953	0.43120	0.45642	0.48876	0.48661	0.42117	17.351
135 3,3'-Dichlorobenzidine	0.37339	0.41919	0.42629	0.44113	0.46492	0.42258	0.42458	7.111
136 Benzo(a)Anthracene	1.28868	1.27438	1.24205	1.18250	1.21326	1.13799	1.22314	4.665
137 Chrysene	1.16265	1.18037	1.12460	1.07053	1.13273	1.06695	1.12297	4.149
138 4,4'-Methylene bis(o-chloroan)	0.21627	0.22778	0.23146	0.23677	0.24406	0.23474	0.23185	4.051
139 bis(2-ethylhexyl)Phthalate	0.99304	0.95034	0.93585	0.87309	0.85961	0.85134	0.91054	6.315
140 Di-n-octylphthalate	1.62245	1.97359	2.07933	2.14034	2.07324	2.24849	2.02290	10.676
141 Benzo(b)fluoranthene	1.28274	1.41785	1.45551	1.47895	1.58176	1.58634	1.46719	7.714
142 Benzo(k)fluoranthene	1.30750	1.45951	1.51599	1.51628	1.56970	1.63211	1.50018	7.394
143 7,12-dimethylbenz[a]anthracen	0.78622	0.82354	0.70589	0.98382	0.99631	1.03355	0.88822	15.086
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
146 Benzo(a)pyrene	1.16383	1.21502	1.30630	1.28109	1.35079	1.36402	1.28017	6.099
148 3-Methylcholanthrene	0.73800	0.71011	0.61471	0.83200	0.84087	0.84475	0.76341	12.136
149 Indeno(1,2,3-cd)pyrene	1.00331	1.12673	1.24000	1.16832	1.28723	1.23582	1.17690	8.694
150 Dibenz(a,h)anthracene	1.01543	1.12652	1.12698	1.16173	1.27206	1.23017	1.15548	7.786
151 Benzo(g,h,i)perylene	1.08589	1.08679	1.14559	1.14126	1.22577	1.20957	1.14915	5.146
199 3-Picoline	1.01395	1.63915	1.67055	1.92988	1.96370	1.97972	1.69949	21.633
200 N,N-Dimethylacetamide	0.54513	0.64405	0.73584	0.75187	0.78333	0.79139	0.70860	13.528
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
209 Benzaldehyde	0.73355	1.00355	1.24462	1.32694	1.32373	1.10268	1.12251	20.433

STL - North Canton

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 Cal Date : 24-Jul-2000 11:15 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
210 Caprolactam	0.08293	0.10894	0.11279	0.10831	0.11229	0.10843	0.10561	10.685
211 1,1'-Biphenyl	1.39973	1.44383	1.53513	1.59735	1.74140	1.75931	1.57946	9.457
212 Atrazine	0.25627	0.24835	0.26039	0.26851	0.28402	0.27378	0.26522	4.845
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 154 Nitrobenzene-d5	0.71671	0.76005	0.78358	0.76014	0.76867	0.76083	0.75833	2.942
\$ 155 2-Fluorobiphenyl	1.28603	1.30301	1.34492	1.33745	1.47480	1.41907	1.36088	5.311
\$ 156 Terphenyl-d14	1.09070	1.04190	1.01992	1.03289	1.02785	1.03628	1.04159	2.419
\$ 157 Phenol-d5	1.91200	1.87448	1.94592	1.99677	2.04127	2.00802	1.96308	3.223
\$ 158 2-Fluorophenol	0.96098	1.08330	1.32949	1.31411	1.39715	1.37033	1.24256	14.286
\$ 159 2,4,6-Tribromophenol	0.13442	0.15624	0.18321	0.17450	0.16372	0.16165	0.16229	10.320
\$ 186 2-Chlorophenol-d4	1.00975	1.07864	1.15352	1.17213	1.20722	1.19986	1.13685	6.812
\$ 187 1,2-Dichlorobenzene-d4	0.90343	0.91530	1.01590	1.01483	1.08534	1.08331	1.00302	7.868

DE
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.:

SDG No.: MP021

Lab File ID: 6DF0724D

DFTPP Injection Date: 07/24/00

Instrument ID: A4HP6

DFTPP Injection Time: 1121

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	Less than 2.0% of mass 69	1.2 (1.7)1
69	Mass 69 relative abundance	70.7
70	Less than 2.0% of mass 69	0.8 (1.1)1
127	40.0 - 60.0% of mass 198	52.1
197	Less than 1.0% of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.7
365	Greater than 1.0% of mass 198	5.22
441	Present, but less than mass 443	8.0
442	Greater than 40.0% of mass 198	50.7
443	17.0 - 23.0% of mass 442	10.0 (19.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0724	07/24/00	1140
02	ASTD016	ASTD016	6AM0724A	07/24/00	1217
03	DGC40BLK	DGC40101	DGC40101	07/24/00	1254
04	DGC40CHK	DGC40102	DGC40102	07/24/00	1331
05	MPT-G4-SU-62	DG9LJ10W	DG9LJ10W	07/24/00	1827
06	MPT-G4-SU-63	DG9LQ10W	DG9LQ10W	07/24/00	1904
07	MPT-G4-SU-64	DG9LR10W	DG9LR10W	07/24/00	1941
08	MPT-G4-SU-65	DG9LT10W	DG9LT10W	07/24/00	2017
09	MPT-G4-SU-DU	DG9LV10W	DG9LV10W	07/24/00	2054
10	MPT-G4-SU-DU	DG9LW10W	DG9LW10W	07/24/00	2131
11	MPT-G4-SU-61	DG9L810W	DG9L810W	07/24/00	2208
12	MPT-G4-SU-58	DG9L510W	DG9L510W	07/24/00	2245
13	MPT-G4-SU-59	DG9L610W	DG9L610W	07/24/00	2321
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 24-JUL-2000 11:40
Lab File ID: 6SM0724.D Init. Cal. Date(s): 21-JUL-2000 24-JUL-2000
Analysis Type: SOIL Init. Cal. Times: 07:56 10:34
Lab Sample ID: sstd016 Quant Type: ISTD
Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.62478	1.57359	0.010	-3.2	50.0
10 N-Nitrosodimethylamine	1.23976	1.29346	0.010	4.3	50.0
11 Ethyl methacrylate	1.69124	1.56303	0.010	-7.6	50.0
12 3-Chloropropionitrile	0.62240	0.63026	0.010	1.3	50.0
13 Malononitrile	1.75673	1.71246	0.010	-2.5	50.0
209 Benzaldehyde	1.12251	1.17440	0.010	4.6	50.0
21 Aniline	2.70202	2.69673	0.010	-0.2	50.0
22 Phenol	2.23225	2.23313	0.010	0.0	20.0
23 bis(2-Chloroethyl)ether	1.71845	1.74621	0.010	1.6	50.0
24 2-Chlorophenol	1.22449	1.22034	0.010	-0.3	50.0
26 1,3-Dichlorobenzene	1.53793	1.47647	0.010	-4.0	50.0
27 1,4-Dichlorobenzene	1.53881	1.50547	0.010	-2.2	20.0
28 1,2-Dichlorobenzene	1.45170	1.43633	0.010	-1.1	50.0
29 Benzyl Alcohol	1.12979	1.15150	0.010	1.9	50.0
30 2-Methylphenol	1.44336	1.46784	0.010	1.7	50.0
31 bis(2-Chloroisopropyl) ether	0.93756	0.99509	0.010	6.1	50.0
37 Acetophenone	2.60657	2.53168	0.010	-2.9	50.0
32 N-Nitroso-di-n-propylamine	1.71977	1.66205	0.050	-3.4	50.0
192 4-Methylphenol	1.68898	1.65200	0.010	-2.2	50.0
34 Hexachloroethane	0.71496	0.70837	0.010	-0.9	50.0
35 Nitrobenzene	0.81940	0.76633	0.010	-6.5	50.0
41 Isophorone	1.26713	1.24726	0.010	-1.6	50.0
42 2-Nitrophenol	0.19189	0.19347	0.010	0.8	20.0
43 2,4-Dimethylphenol	0.51682	0.48590	0.010	-6.0	50.0
44 bis(2-Chloroethoxy)methane	0.64723	0.59961	0.010	-7.4	50.0
46 2,4-Toluediamene	++++	0.01486	0.010	++++	50.0 <-
47 1,3,5-Trichlorobenzene	0.44666	0.43557	0.010	-2.5	50.0
48 2,4-Dichlorophenol	0.35085	0.34355	0.010	-2.1	20.0
49 Benzoic Acid	0.09861	0.07612	0.010	-22.8	50.0
50 1,2,4-Trichlorobenzene	0.39927	0.40176	0.010	0.6	50.0
51 Naphthalene	1.13294	1.13070	0.010	-0.2	50.0
52 4-Chloroaniline	0.41797	0.41740	0.010	-0.1	50.0
56 Hexachlorobutadiene	0.31889	0.28716	0.010	-9.9	20.0
210 Caprolactam	0.10561	0.11465	0.010	8.6	50.0
57 1,2,3-Trichlorobenzene	0.39457	0.39277	0.010	-0.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 24-JUL-2000 11:40
 Lab File ID: 6SM0724.D Init. Cal. Date(s): 21-JUL-2000 24-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 07:56 10:34
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.41141	0.42912	0.010	4.3	20.0
62 2-Methylnaphthalene	0.75006	0.74364	0.010	-0.9	50.0
63 1-Methylnaphthalene	0.74427	0.73011	0.010	-1.9	50.0
64 Hexachlorocyclopentadiene	0.40614	0.35468	0.050	-12.7	50.0
66 2,4,6-Trichlorophenol	0.38088	0.39227	0.010	3.0	20.0
67 2,4,5-Trichlorophenol	0.38278	0.38395	0.010	0.3	50.0
211 1,1'-Biphenyl	1.57946	1.46684	0.010	-7.1	50.0
68 1,2,3,5-Tetrachlorobenzene	0.71542	0.65831	0.010	-8.0	50.0
70 2-Chloronaphthalene	1.21656	1.19095	0.010	-2.1	50.0
73 2-Nitroaniline	0.52490	0.53138	0.010	1.2	50.0
74 1,2,3,4-Tetrachlorobenzene	0.62314	0.59532	0.010	-4.5	50.0
76 Dimethylphthalate	1.32102	1.22945	0.010	-6.9	50.0
78 2,6-Dinitrotoluene	0.26918	0.28160	0.010	4.6	50.0
79 Acenaphthylene	1.87508	1.80118	0.010	-3.9	50.0
80 1,2-Dinitrobenzene	0.11357	0.11429	0.010	0.6	50.0
81 3-Nitroaniline	0.21606	0.22711	0.010	5.1	50.0
82 Acenaphthene	1.15434	1.11933	0.010	-3.0	20.0
83 2,4-Dinitrophenol	0.07356	0.07302	0.050	-0.7	50.0
85 4-Nitrophenol	0.28352	0.27523	0.050	-2.9	50.0
86 Dibenzofuran	1.55396	1.56786	0.010	0.9	50.0
87 2,4-Dinitrotoluene	0.31052	0.33992	0.010	9.5	50.0
91 2,3,5,6-Tetrachlorophenol	0.32006	0.35296	0.010	10.3	50.0
93 Diethylphthalate	1.34742	1.31073	0.010	-2.7	50.0
94 Fluorene	1.31287	1.34148	0.010	2.2	50.0
95 4-Chlorophenyl-phenylether	0.68214	0.69483	0.010	1.9	50.0
96 4-Nitroaniline	0.18009	0.19865	0.010	10.3	50.0
98 4,6-Dinitro-2-methylphenol	0.10286	0.09910	0.010	-3.7	50.0
99 N-Nitrosodiphenylamine	0.62334	0.57297	0.010	-8.1	20.0
100 1,2-Diphenylhydrazine	1.76335	1.54559	0.010	-12.3	50.0
106 4-Bromophenyl-phenylether	0.28677	0.25881	0.010	-9.8	50.0
107 Hexachlorobenzene	0.30221	0.26383	0.010	-12.7	50.0
212 Atrazine	0.26522	0.24333	0.010	-8.3	50.0
111 Pentachlorophenol	0.13807	0.11269	0.010	-18.4	20.0
115 Phenanthrene	1.29376	1.28793	0.010	-0.5	50.0
116 Anthracene	1.23062	1.26247	0.010	2.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 24-JUL-2000 11:40
 Lab File ID: 6SM0724.D Init. Cal. Date(s): 21-JUL-2000 24-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 07:56 10:34
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOHO5\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
119 Carbazole	0.95143	0.96630	0.010	1.6	50.0
120 Di-n-Butylphthalate	1.57266	1.54130	0.010	-2.0	50.0
123 Fluoranthene	1.33118	1.40446	0.010	5.5	20.0
124 Benzidine	0.36986	0.17135	0.010	-53.7	50.0
125 Pyrene	1.43508	1.46764	0.010	2.3	50.0
131 Butylbenzylphthalate	0.62070	0.64997	0.010	4.7	50.0
133 3,3'-Dimethoxybenzidine	0.23806	0.13950	0.010	-41.4	50.0
135 3,3'-Dichlorobenzidine	0.42458	0.40069	0.010	-5.6	50.0
136 Benzo(a)Anthracene	1.22314	1.24034	0.010	1.4	50.0
137 Chrysene	1.12297	1.17777	0.010	4.9	50.0
138 4,4'-Methylene bis(o-chloro	0.23185	0.21821	0.010	-5.9	50.0
139 bis(2-ethylhexyl)Phthalate	0.91054	0.98516	0.010	8.2	50.0
140 Di-n-octylphthalate	2.02290	2.26638	0.010	12.0	20.0
141 Benzo(b)fluoranthene	1.46719	1.45814	0.010	-0.6	50.0
142 Benzo(k)fluoranthene	1.50018	1.49008	0.010	-0.7	50.0
146 Benzo(a)pyrene	1.28017	1.25544	0.010	-1.9	20.0
149 Indeno(1,2,3-cd)pyrene	1.17690	1.27397	0.010	8.2	50.0
150 Dibenz(a,h)anthracene	1.15548	1.03922	0.010	-10.1	50.0
151 Benzo(g,h,i)perylene	1.14915	1.05029	0.010	-8.6	50.0
\$ 154 Nitrobenzene-d5	0.75833	0.75325	0.010	-0.7	50.0
\$ 155 2-Fluorobiphenyl	1.36088	1.30170	0.010	-4.3	50.0
\$ 156 Terphenyl-d14	1.04159	1.03207	0.010	-0.9	50.0
\$ 157 Phenol-d5	1.96308	1.94857	0.010	-0.7	50.0
\$ 158 2-Fluorophenol	1.24256	1.24458	0.010	0.2	50.0
\$ 159 2,4,6-Tribromophenol	0.16229	0.16259	0.010	0.2	50.0
\$ 186 2-Chlorophenol-d4	1.13685	1.15885	0.010	1.9	50.0
\$ 187 1,2-Dichlorobenzene-d4	1.00302	0.97417	0.010	-2.9	50.0
M 195 Cresols, total	3.13234	3.11983	0.010	-0.4	50.0
101 Diphenylamine	0.62334	0.57297	0.010	-8.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 24-JUL-2000 12:17
 Lab File ID: 6AM0724A.D Init. Cal. Date(s): 21-JUL-2000 24-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 07:56 10:34
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.89445	0.97500	0.010	9.0	50.0
8 Ethyl methanesulfonate	1.68521	1.75208	0.010	4.0	50.0
14 2-Picoline	1.81334	1.95603	0.010	7.9	50.0
15 N-Nitrosomethylethylamine	0.86950	0.83206	0.010	-4.3	50.0
16 Methyl methanesulfonate	1.51931	1.55006	0.010	2.0	50.0
18 1,3-Dichloro-2-propanol	2.23123	2.32586	0.010	4.2	50.0
19 N-Nitrosodiethylamine	0.79849	0.84489	0.010	5.8	50.0
25 Pentachloroethane	0.64627	0.64652	0.010	0.0	50.0
36 N-Nitrosopyrrolidine	0.85050	0.90767	0.010	6.7	50.0
37 Acetophenone	2.60657	2.74670	0.010	5.4	50.0
39 o-Toluidine	2.48591	2.66957	0.010	7.4	50.0
40 N-Nitrosopiperidine	0.20676	0.21335	0.010	3.2	50.0
45 O,O,O-Triethyl phosphorothi	0.25664	0.26108	0.010	1.7	50.0
53 a,a-Dimethyl-phenethylamine	0.48419	0.40606	0.010	-16.1	50.0
54 2,6-Dichlorophenol	0.33086	0.35043	0.010	5.9	50.0
55 Hexachloropropene	0.25170	0.25941	0.010	3.1	50.0
58 N-Nitrosodi-n-butylamine	0.42050	0.44292	0.010	5.3	50.0
60 p-Phenylene diamine	0.19996	0.12869	0.010	-35.6	50.0
61 Safrole	0.35637	0.36104	0.010	1.3	50.0
65 1,2,4,5-Tetrachlorobenzene	0.71854	0.70191	0.010	-2.3	50.0
71 Isosafrole 1	0.15554	0.14872	0.010	-4.4	50.0
M 188 Isosafrole, Total	1.28295	1.27705	0.010	-0.5	50.0
72 Isosafrole 2	1.12741	1.12833	0.010	0.1	50.0
75 1,4-Naphthoquinone	0.40049	0.39121	0.010	-2.3	50.0
84 Pentachlorobenzene	0.57735	0.58068	0.010	0.6	50.0
89 1-Naphthylamine	0.86243	0.85785	0.010	-0.5	50.0
92 2-Naphthylamine	0.66464	0.62554	0.010	-5.9	50.0
90 Zinophos	0.42607	0.42853	0.010	0.6	50.0
102 Tetraethyl dithiopyrophosph	0.12648	0.13073	0.010	3.4	50.0
103 Diallate 1	0.93669	0.95217	0.010	1.7	50.0
M 189 Diallate, Total	3.78363	4.09290	0.010	8.2	50.0
109 Diallate 2	0.13774	0.13957	0.010	1.3	50.0
104 Phorate	0.15818	0.16323	0.010	3.2	50.0
105 1,3,5-Trinitrobenzene	0.05643	0.07193	0.010	27.5	50.0
108 Phenacetin	0.44630	0.49344	0.010	10.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 24-JUL-2000 12:17
 Lab File ID: 6AM0724A.D Init. Cal. Date(s): 21-JUL-2000 24-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 07:56 10:34
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m

COMPOUND	RRP	RP16	MIN	RD	MAX
110 Dimethoate	0.35582	0.37321	0.010	4.9	50.0
112 Pentachloronitrobenzene	0.15842	0.17355	0.010	9.6	50.0
113 4-Aminobiphenyl	0.51072	0.53569	0.010	4.9	50.0
114 Pronamide	0.42627	0.44736	0.010	4.9	50.0
117 Dinoseb	0.13408	0.17360	0.010	29.5	50.0
118 Disulfoton	0.55630	0.57060	0.010	2.6	50.0
121 4-Nitroquinoline 1-oxide	0.04681	0.05731	0.010	22.4	50.0
122 Methapyrilene	0.27754	0.27324	0.010	-1.6	50.0
126 Aramite 1	0.09309	0.09214	0.010	-1.0	50.0
M 191 Aramite, Total	0.56754	0.66812	0.010	17.7	50.0
127 Aramite 2	0.13287	0.12640	0.010	-4.9	50.0
128 p-Dimethylamino azobenzene	0.36655	0.35334	0.010	-3.6	50.0
129 p-Chlorobenzilate	0.70408	0.68341	0.010	-2.9	50.0
130 Pamphur	0.39799	0.38673	0.010	-0.3	50.0
132 3,3'-Dimethylbensidine	0.38724	0.35415	0.010	-8.5	50.0
134 2-Acetylaminofluorene	0.42117	0.45500	0.010	8.0	50.0
143 7,12-dimethylbenz[<i>a</i>]anthrac	0.88822	0.79006	0.010	-11.1	50.0
144 Hexachlorophene	++++	0.00697	0.010	++++	50.0|<-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0|<-
148 3-Methylcholanthrene	0.76341	0.73660	0.010	-3.5	50.0
193 3-Methylphenol	1.52853	1.61371	0.010	5.6	50.0
69 1,4-Dinitrobenzene	0.14043	0.16323	0.010	16.2	50.0
77 m-Dinitrobenzene	0.16939	0.19013	0.010	12.2	50.0
198 1,4-Dioxane	0.68389	0.67458	0.010	-1.4	50.0
88 2,3,4,6-Tetrachlorophenol	0.25160	0.26705	0.010	6.1	50.0
97 5-Nitro-o-toluidine	0.26851	0.28253	0.010	5.2	50.0
199 3-Picoline	1.69949	1.82216	0.010	7.2	50.0
200 N,N-Dimethylacetamide	0.70860	0.79312	0.010	11.9	50.0

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.: SDG No.: MP021

Lab File ID: 6DF0725B

DFTPP Injection Date: 07/25/00

Instrument ID: A4HP6

DFTPP Injection Time: 0536

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.5
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	67.7
70	Less than 2.0% of mass 69	1.0 (1.4)1
127	40.0 - 60.0% of mass 198	51.0
197	Less than 1.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	25.5
365	Greater than 1.0% of mass 198	4.87
441	Present, but less than mass 443	9.2
442	Greater than 40.0% of mass 198	57.5
443	17.0 - 23.0% of mass 442	10.6 (18.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0725A	07/25/00	0631
02	SSTD004	SSTD004	6SL0725	07/25/00	0707
03	SSTD010	SSTD010	6SML0725	07/25/00	0744
04	SSTD024	SSTD024	6SMH0725	07/25/00	0821
05	SSTD032	SSTD032	6SH0725	07/25/00	0858
06	SSTD040	SSTD040	6SHH0725	07/25/00	0935
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STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2000 07:30
 End Cal Date : 25-JUL-2000 09:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m
 Cal Date : 25-Jul-2000 12:05 hulat
 Curve Type : Average

Calibration File Names:

Level 1: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SL0725.D
 Level 2: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SML0725.D
 Level 3: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SM0725A.D
 Level 4: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SMH0725.D
 Level 5: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SH0725.D
 Level 6: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SHH0725.D

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
198 1,4-Dioxane	0.69457	0.60836	0.69340	0.73397	0.71282	0.66025	0.68389	6.478
7 N-Nitrosomorpholine	0.74898	0.85034	0.89048	0.93216	0.96010	0.98463	0.89445	9.616
8 Ethyl methanesulfonate	1.58852	1.61451	1.65714	1.74015	1.73950	1.77145	1.68521	4.483
9 Pyridine	1.33011	1.56028	1.59966	1.59704	1.72270	1.53686	1.55778	8.259
10 N-Nitrosodimethylamine	1.20981	1.20427	1.27104	1.24091	1.27424	1.20873	1.23483	2.597
11 Ethyl methacrylate	1.53977	2.03502	1.70960	1.63158	2.00962	1.78920	1.78580	11.265
12 3-Chloropropionitrile	0.56325	0.56938	0.57499	0.62674	0.64549	0.57965	0.59325	5.760
13 Malononitrile	1.78564	1.85285	1.73395	1.78175	1.80073	1.52717	1.74701	6.541
14 2-Picoline	1.40728	1.76440	1.82656	1.94745	1.94104	1.99333	1.81334	11.934
15 N-Nitrosomethylethylamine	0.81323	0.83904	0.86498	0.90438	0.88163	0.91372	0.86950	4.435
16 Methyl methanesulfonate	1.48383	1.50411	1.42468	1.56398	1.55332	1.58596	1.51931	3.953
18 1,3-Dichloro-2-propanol	2.11837	2.11458	2.19701	2.29451	2.31260	2.35034	2.23123	4.585
19 N-Nitrosodiethylamine	0.73077	0.75278	0.76868	0.83421	0.85790	0.84658	0.79849	6.786
21 Aniline	2.40228	2.64215	2.67002	2.73156	2.86097	2.71438	2.67023	5.672
22 Phenol	1.94310	2.11242	2.16810	2.25927	2.31947	2.21617	2.16976	6.088
23 bis(2-Chloroethyl)ether	1.70772	1.76119	1.75425	1.70811	1.87835	1.71221	1.75364	3.740
24 2-Chlorophenol	1.13760	1.19467	1.20465	1.24315	1.30239	1.25260	1.22251	4.630
25 Pentachloroethane	0.59842	0.60391	0.62030	0.67497	0.68332	0.69669	0.64627	6.744
26 1,3-Dichlorobenzene	1.49245	1.57406	1.51658	1.53484	1.64356	1.58118	1.55711	3.478
27 1,4-Dichlorobenzene	1.52425	1.53130	1.54650	1.57280	1.67362	1.58895	1.57292	3.505
28 1,2-Dichlorobenzene	1.36364	1.46911	1.46028	1.48457	1.58776	1.58903	1.49240	5.736
29 Benzyl Alcohol	0.85821	1.00010	1.04745	1.11901	1.21039	1.24009	1.07921	13.155
30 2-Methylphenol	1.21326	1.31860	1.34247	1.40172	1.47932	1.38562	1.35683	6.602
31 bis(2-Chloroisopropyl)ether	0.88753	0.89495	0.99230	0.88764	0.92930	0.82810	0.90331	6.026
32 N-Nitroso-di-n-propylamine	1.55240	1.67903	1.66972	1.73092	1.80805	1.67447	1.68576	4.978

Handwritten notes:
 % RSD (2-Methyl) = 0.0895 / 1.3568 = 6.59 (100)

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2000 07:30
 End Cal Date : 25-JUL-2000 09:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00725a.b\8270c.m
 Cal Date : 25-Jul-2000 12:05 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
M 195 Cresols, total	2.45109	2.77525	2.86686	3.07092	3.29806	3.21555	2.94629	10.653
192 4-Methylphenol	1.23783	1.45665	1.52439	1.66920	1.81875	1.82993	1.58946	14.409
193 3-Methylphenol	1.22652	1.37552	1.53459	1.59384	1.70110	1.73959	1.52853	12.862
34 Hexachloroethane	0.64930	0.69463	0.69701	0.73784	0.76964	0.72508	0.71225	5.829
35 Nitrobenzene	0.70221	0.74679	0.74185	0.74379	0.79532	0.79605	0.75433	4.765
36 N-Nitrosopyrrolidine	0.68942	0.76091	0.84161	0.89757	0.95797	0.95555	0.85050	12.756
37 Acetophenone	1.99922	2.33212	2.40300	2.59411	2.78316	2.68825	2.46664	11.555
39 o-Toluidine	2.01576	2.22295	2.46256	2.62937	2.76131	2.82351	2.48591	12.735
40 N-Nitrosopiperidine	0.19857	0.19364	0.20165	0.21433	0.21646	0.21591	0.20676	4.840
41 Isophorone	1.15935	1.22408	1.24135	1.19433	1.28396	1.23082	1.22232	3.468
42 2-Nitrophenol	0.14649	0.17173	0.18098	0.19968	0.21870	0.23284	0.19173	16.564
43 2,4-Dimethylphenol	0.45935	0.49743	0.48938	0.49426	0.53354	0.52981	0.50063	5.518
44 bis(2-Chloroethoxy)methane	0.59585	0.61760	0.58335	0.61982	0.69030	0.66106	0.62800	6.439
45 O,O,O-Triethyl phosphorothioa	0.24122	0.23209	0.24127	0.26789	0.27355	0.28384	0.25664	8.228
46 2,4-Toluenediamens	++++	++++	++++	++++	++++	++++	++++	++++ <-
47 1,3,5-Trichlorobenzene	0.40670	0.41007	0.40492	0.42174	0.47358	0.50639	0.43723	9.735
48 2,4-Dichlorophenol	0.26386	0.31770	0.33497	0.33079	0.36717	0.36518	0.32995	11.478
49 Benzoic Acid	++++	0.11014	0.11106	0.11773	0.11913	0.11310	0.11423	3.510 <-
50 1,2,4-Trichlorobenzene	0.36841	0.36753	0.38918	0.38347	0.41493	0.42879	0.39205	6.367
51 Naphthalene	1.02574	1.08056	1.07051	1.10114	1.20556	1.25141	1.12249	7.746
52 4-Chloroaniline	0.34314	0.37304	0.38938	0.41100	0.43885	0.44498	0.40007	9.826
53 a,a-Dimethyl-phenethylamine	++++	0.33665	0.49528	0.60138	0.48221	0.50542	0.48419	19.615 <-
54 2,6-Dichlorophenol	0.28837	0.29996	0.31397	0.35294	0.36199	0.36790	0.33086	10.360
55 Hexachloropropene	0.17606	0.20452	0.23664	0.27398	0.30760	0.31138	0.25170	22.019
56 Hexachlorobutadiene	0.27745	0.29182	0.28845	0.29314	0.32922	0.34930	0.30490	9.155
57 1,2,3-Trichlorobenzene	0.36593	0.37544	0.36822	0.37597	0.41387	0.43704	0.38941	7.480
58 N-Nitrosodi-n-butylamine	0.39389	0.40111	0.41401	0.43653	0.43455	0.44290	0.42050	4.853
59 4-Chloro-3-Methylphenol	0.35455	0.40797	0.39902	0.40528	0.43209	0.42520	0.40402	6.757
60 p-Phenylene diamine	++++	0.08336	0.12860	0.20946	0.28138	0.29703	0.19996	46.665 <-
61 Safrole	0.33522	0.32871	0.33813	0.36994	0.38147	0.38478	0.35637	7.062
62 2-Methylnaphthalene	0.64322	0.68946	0.71574	0.71601	0.78890	0.80834	0.72694	8.508
63 1-Methylnaphthalene	0.66497	0.68894	0.69667	0.71894	0.78001	0.80670	0.72604	7.653
64 Hexachlorocyclopentadiene	0.21180	0.29940	0.35209	0.39872	0.46025	0.52716	0.37490	30.144

NO 25

STL - North Canton

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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00725a.b\8270c.m
 Cal Date : 25-Jul-2000 12:05 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
65 1,2,4,5-Tetrachlorobenzene	0.66581	0.65136	0.69395	0.76718	0.77031	0.76262	0.71854	7.594
66 2,4,6-Trichlorophenol	0.34379	0.35821	0.39086	0.38321	0.43333	0.42115	0.38843	8.937
67 2,4,5-Trichlorophenol	0.33692	0.38616	0.38504	0.35316	0.41750	0.40775	0.38109	8.138
68 1,2,3,5-Tetrachlorobenzene	0.64527	0.62676	0.65500	0.67360	0.76132	0.80432	0.69438	10.292
69 1,4-Dinitrobenzene	0.09666	0.11395	0.14387	0.15398	0.16538	0.16877	0.14043	20.732
70 2-Chloronaphthalene	1.08310	1.07798	1.15185	1.20402	1.34968	1.41540	1.21367	11.569
71 Isosafrole 1	0.15228	0.14507	0.15407	0.16551	0.15958	0.15672	0.15554	4.450
M 188 Isosafrole, Total	1.17169	1.13756	1.23215	1.36529	1.38988	1.40114	1.28295	9.109
72 Isosafrole 2	1.01941	0.99249	1.07808	1.19977	1.23030	1.24441	1.12741	9.862
73 2-Nitroaniline	0.48299	0.54015	0.53134	0.53482	0.57803	0.53784	0.53420	5.679
74 1,2,3,4-Tetrachlorobenzene	0.59000	0.57598	0.58122	0.59216	0.66703	0.67591	0.61372	7.366
75 1,4-Naphthoquinone	0.35217	0.37009	0.39239	0.44014	0.41902	0.42913	0.40049	8.693
76 Dimethylphthalate	1.27216	1.29365	1.27825	1.31004	1.39710	1.37040	1.32027	3.908
77 m-Dinitrobenzene	0.12808	0.14812	0.16922	0.18594	0.19079	0.19420	0.16939	15.633
78 2,6-Dinitrotoluene	0.22204	0.25861	0.28455	0.28692	0.32574	0.34038	0.28637	15.125
79 Acenaphthylene	1.68139	1.73376	1.81206	1.86692	2.10400	2.18459	1.89712	10.720
80 1,2-Dinitrobenzene	0.10401	0.12347	0.12230	0.12054	0.12318	0.11763	0.11852	6.267
81 3-Nitroaniline	0.18410	0.21062	0.22610	0.23211	0.24609	0.24362	0.22377	10.411
82 Acenaphthene	1.07647	1.12337	1.16319	1.15130	1.27408	1.26264	1.17517	6.654
83 2,4-Dinitrophenol	++++	0.05509	0.07781	0.08667	0.10594	0.10497	0.08610	24.503<-
84 Pentachlorobenzene	0.52065	0.52521	0.55870	0.61227	0.61435	0.63294	0.57735	8.471
85 4-Nitrophenol	++++	0.24551	0.21628	0.28045	0.31357	0.29724	0.27061	14.587<-
86 Dibenzofuran	1.50152	1.52229	1.54714	1.58653	1.72125	1.73082	1.60159	6.276
87 2,4-Dinitrotoluene	0.29273	0.33457	0.34832	0.32978	0.35632	0.32796	0.33161	6.643
88 2,3,4,6-Tetrachlorophenol	0.19608	0.21622	0.24416	0.26951	0.29057	0.29308	0.25160	15.849
89 1-Naphthylamine	0.78549	0.71456	0.82635	0.92017	0.96125	0.96678	0.86243	11.946
90 Zinophos	0.37769	0.40931	0.41497	0.44942	0.44820	0.45685	0.42607	7.216
91 2,3,5,6-Tetrachlorophenol	0.26636	0.32020	0.34029	0.35094	0.36931	0.38747	0.33909	12.541
92 2-Naphthylamine	0.64220	0.60096	0.61646	0.66272	0.74581	0.71968	0.66464	8.644
93 Diethylphthalate	1.30441	1.32867	1.41774	1.34713	1.42752	1.33865	1.36069	3.687
94 Fluorene	1.23854	1.28555	1.32439	1.36015	1.49513	1.51624	1.36950	8.289
95 4-Chlorophenyl-phenylether	0.63161	0.63654	0.68666	0.68135	0.75678	0.78212	0.69585	8.881
96 4-Nitroaniline	0.15771	0.14970	0.17433	0.18755	0.20614	0.19490	0.17839	12.266

STL - North Canton

INITIAL CALIBRATION DATA

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 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\4hp6.i\00725a.b\8270c.m
 Cal Date : 25-Jul-2000 12:05 hulat
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	† RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
97 5-Nitro-o-toluidine	0.22592	0.22696	0.27482	0.28259	0.29613	0.30465	0.26851	12.736
98 4,6-Dinitro-2-methylphenol	++++	0.08599	0.09977	0.10959	0.12662	0.13561	0.11152	17.947<-
99 N-Nitrosodiphenylamine	0.56925	0.58214	0.56942	0.60959	0.65726	0.67188	0.60992	7.386
100 1,2-Diphenylhydrazine	1.61891	1.59480	1.60181	1.59939	1.71846	1.66888	1.63371	3.042
101 Diphenylamine	0.56925	0.58214	0.56942	0.60959	0.65726	0.67188	0.60992	7.386
102 Tetraethyl dithiopyrophosphat	0.10185	0.11286	0.12195	0.14101	0.13696	0.14424	0.12648	13.462
103 Diallate 1	0.82557	0.85681	0.90284	1.01902	0.99634	1.01953	0.93669	9.193
M 189 Diallate, Total	3.33591	3.56397	3.76168	3.84512	3.98436	4.21076	3.78363	8.152
104 Phorate	0.13262	0.14272	0.15387	0.17261	0.16829	0.17896	0.15818	11.496
105 1,3,5-Trinitrobenzene	0.03820	0.04231	0.05244	0.06259	0.07080	0.07226	0.05643	25.587
106 4-Bromophenyl-phenylether	0.25848	0.24741	0.25045	0.26458	0.29707	0.31353	0.27192	9.949
107 Hexachlorobenzene	0.26201	0.25128	0.25945	0.27763	0.30950	0.34078	0.28344	12.293
108 Phenacetin	0.36184	0.40065	0.44969	0.47447	0.48853	0.50262	0.44630	12.263
109 Diallate 2	0.13656	0.13254	0.13336	0.14602	0.13764	0.14033	0.13774	3.600
110 Dimethoate	0.31054	0.33614	0.35799	0.37458	0.36808	0.38760	0.35582	7.904
111 Pentachlorophenol	++++	0.08866	0.10272	0.11667	0.13319	0.14712	0.11767	19.811<-
112 Pentachloronitrobenzene	0.11902	0.13746	0.15797	0.17558	0.17972	0.18076	0.15842	16.066
113 4-Aminobiphenyl	0.47885	0.32545	0.43461	0.53403	0.64206	0.64930	0.51072	24.477
114 Pronamide	0.38320	0.38500	0.41321	0.44792	0.45393	0.47439	0.42627	8.951
115 Phenanthrene	1.16744	1.17498	1.20543	1.29595	1.45391	1.43047	1.28803	9.943
116 Anthracene	1.09934	1.13981	1.19506	1.21688	1.35158	1.39989	1.23376	9.601
117 Dinoseb	0.05930	0.08546	0.12628	0.15302	0.18430	0.19611	0.13408	40.502
118 Disulfoton	0.48189	0.51632	0.53919	0.59126	0.58835	0.62079	0.55630	9.456
119 Carbazole	0.80941	0.85362	0.89816	0.92304	1.02821	1.05681	0.92821	10.461
120 Di-n-Butylphthalate	1.51165	1.50190	1.50965	1.55364	1.67560	1.75988	1.58539	6.778
121 4-Nitroquinoline 1-oxide	++++	0.02435	0.03675	0.04861	0.06315	0.06118	0.04681	35.147<-
122 Methapyrilene	0.22570	0.24999	0.25521	0.31060	0.31428	0.31008	0.27764	13.899
123 Fluoranthene	1.11527	1.16196	1.26011	1.28833	1.45690	1.53437	1.30282	12.585
124 Benzidina	++++	0.27098	0.23392	0.34811	0.42136	0.39222	0.33332	23.816<-
125 Pyrene	1.65192	1.65469	1.57910	1.56700	1.53818	1.28633	1.54620	8.776
126 Aramite 1	0.08442	0.08745	0.09321	0.09836	0.09283	0.10229	0.09309	7.117
M 191 Aramite, Total	0.49800	0.54215	0.59233	0.55086	0.58448	0.63745	0.56754	8.468
127 Aramite 2	0.11571	0.12356	0.13369	0.13994	0.13717	0.14712	0.13287	8.603

STL - North Canton

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 Method file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m
 Cal Date : 25-Jul-2000 12:05 hulat
 Curve Type : Average

Compound	4.000 Level 1	10.000 Level 2	16.000 Level 3	24.000 Level 4	32.000 Level 5	40.000 Level 6	RRF	% RSD
128 p-Dimethylamino azobenzene	0.33579	0.32702	0.35714	0.38239	0.38655	0.41040	0.36655	8.773
129 p-Chlorobenzilate	0.59010	0.63416	0.68927	0.75263	0.75467	0.80364	0.70408	11.526
130 Pamphur	0.61557	0.49827	0.40818	0.32160	0.29790	0.18638	0.38799	39.517
131 Butylbenzylphthalate	0.84527	0.78540	0.72987	0.71693	0.68645	0.54383	0.71796	14.233
132 3,3'-Dimethylbenzidine	0.41463	0.28793	0.33593	0.39769	0.46415	0.42311	0.38724	16.558
133 3,3'-Dimethoxybenzidine	0.19856	0.19056	0.18097	0.22470	0.25669	0.25982	0.21855	15.572
134 2-Acetylaminofluorene	0.31451	0.34953	0.43120	0.45642	0.48876	0.48661	0.42117	17.351
135 3,3'-Dichlorobenzidine	0.39769	0.40732	0.39874	0.39196	0.44757	0.43946	0.41379	5.723
136 Benzo(a)Anthracene	1.27255	1.28934	1.28192	1.19087	1.19929	1.10686	1.22347	5.827
137 Chrysene	1.24595	1.20218	1.19047	1.12096	1.13859	1.03069	1.15481	6.553
138 4,4'-Methylene bis(o-chloroa)	0.21938	0.21806	0.22341	0.22447	0.24013	0.24029	0.22762	4.411
139 bis(2-ethylhexyl)Fthalate	1.25380	1.16935	1.09991	1.07141	1.02739	0.83711	1.07649	13.160
140 Di-n-octylphthalate	2.33116	2.22081	2.44489	2.70241	2.58449	2.49941	2.46386	7.024
141 Benzo(b)fluoranthene	1.27347	1.29225	1.42536	1.47774	1.56295	1.64342	1.44586	10.141
142 Benzo(k)fluoranthene	1.47386	1.44924	1.43120	1.48929	1.59433	1.69864	1.52276	6.784
143 7,12-dimethylbenz(a)anthracen	0.78622	0.82354	0.70589	0.98382	0.99631	1.03355	0.88822	15.086
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
146 Benzo(a)pyrene	1.14378	1.16113	1.24717	1.21323	1.33078	1.39424	1.24839	7.837
148 3-Methylcholanthrene	0.73800	0.71011	0.61471	0.83200	0.84087	0.84475	0.76341	12.136
149 Indeno(1,2,3-cd)pyrene	0.97023	1.04406	1.32144	1.29587	1.41129	1.22533	1.21137	14.085
150 Dibenz(a,h)anthracene	0.92236	0.97819	1.09649	1.05341	1.16488	1.24313	1.07641	10.987
151 Benzo(g,h,i)perylene	0.95998	1.00230	1.08661	1.05546	1.14168	1.16375	1.06830	7.380
199 3-Picoline	1.01395	1.63915	1.67055	1.92988	1.96370	1.97972	1.69949	21.633
200 N,N-Dimethylacetamide	0.54513	0.64405	0.73584	0.75187	0.78333	0.79139	0.70860	13.528
201 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
202 Diphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
203 Diphenyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
205 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
207 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
208 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
209 Benzaldehyde	0.79036	1.02468	1.16799	1.29630	1.28243	0.99913	1.09348	17.729

STL - North Canton

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 Cal Date : 25-Jul-2000 12:05 hulat
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
210 Caprolactam	0.08593	0.10849	0.11860	0.11307	0.11679	0.11108	0.10899	10.904
211 1,1'-Biphenyl	1.35252	1.41822	1.43950	1.56652	1.76317	1.86161	1.56692	13.069
212 Atrazine	0.23921	0.25598	0.25291	0.25054	0.26723	0.27192	0.25630	4.616
213 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 154 Nitrobenzene-d5	0.65158	0.70181	0.72471	0.70058	0.75712	0.74022	0.71267	5.203
\$ 155 2-Fluorobiphenyl	1.24636	1.27850	1.31229	1.32413	1.43713	1.45109	1.34158	6.266
\$ 156 Terphenyl-d14	1.15674	1.15005	1.11418	1.14786	1.13406	0.97429	1.11286	6.250
\$ 157 Phenol-d5	1.77353	1.91704	1.87454	1.95309	2.04714	1.90548	1.91180	4.713
\$ 158 2-Fluorophenol	0.95837	1.40837	1.37231	1.35845	1.44640	1.30797	1.30864	13.590
\$ 159 2,4,6-Tribromophenol	0.12248	0.14820	0.16137	0.16327	0.18086	0.18950	0.16095	14.858
\$ 186 2-Chlorophenol-d4	1.04962	1.12466	1.14823	1.15783	1.24259	1.20697	1.15498	5.802
\$ 187 1,2-Dichlorobenzene-d4	0.87066	0.93551	0.97099	1.00638	1.08802	1.08951	0.99351	8.691

DE
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH Case No.:

SAS No.: SDG No.: MP021

Lab File ID: 6DF0725E

DFTPP Injection Date: 07/25/00

Instrument ID: A4HP6

DFTPP Injection Time: 1041

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.2
68	Less than 2.0% of mass 69	0.7 (0.9)1
69	Mass 69 relative abundance	76.9
70	Less than 2.0% of mass 69	0.5 (0.6)1
127	40.0 - 60.0% of mass 198	52.1
197	Less than 1.0% of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	25.5
365	Greater than 1.0% of mass 198	5.12
441	Present, but less than mass 443	8.7
442	Greater than 40.0% of mass 198	52.7
443	17.0 - 23.0% of mass 442	10.1 (19.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD016	SSTD016	6SM0725B	07/25/00	1041
02	ASTD016	ASTD016	6AM0725	07/25/00	1119
03	MPT-G4-SU-60	DG9L710W	DG9L710W	07/25/00	1501
04	MPT-G4-SU-DU	DG9L910W	DG9L910W	07/25/00	1538
05	MPT-G4-SU-56	DG9L010W	DG9L010W	07/25/00	1921
06	MPT-G4-SU-56	DG9L010X	DG9L010X	07/25/00	1958
07	MPT-G4-SU-56	DG9L0110	DG9L0110	07/25/00	2036
08	MPT-G4-SU-57	DG9L410W	DG9L410W	07/25/00	2113
09					
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22					

Data File: \\qcanoh05\dd\chem\MSS\a4hp6.i\00725a.b\6SM0725B.D
 Report Date: 25-Jul-2000 12:26

Page 1

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 25-JUL-2000 10:41
 Lab File ID: 6SM0725B.D Init. Cal. Date(s): 24-JUL-2000 25-JUL-2000
 Analysis Type: Init. Cal. Times: 07:30 09:35
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
9 Pyridine	1.55778	1.67388	0.010	7.5	50.0
10 N-Nitrosodimethylamine	1.23483	1.30478	0.010	5.7	50.0
11 Ethyl methacrylate	1.78580	1.72124	0.010	-3.6	50.0
12 3-Chloropropionitrile	0.59325	0.60358	0.010	1.7	50.0
13 Malononitrile	1.74701	1.79238	0.010	2.6	50.0
209 Benzaldehyde	1.09348	1.19058	0.010	8.9	50.0
21 Aniline	2.67023	2.67970	0.010	0.4	50.0
22 Phenol	2.16976	2.20486	0.010	1.6	20.0
23 bis(2-Chloroethyl)ether	1.75364	1.69690	0.010	-3.2	50.0
24 2-Chlorophenol	1.22251	1.23682	0.010	1.2	50.0
26 1,3-Dichlorobenzene	1.55711	1.51590	0.010	-2.6	50.0
27 1,4-Dichlorobenzene	1.57292	1.57728	0.010	0.3	20.0
28 1,2-Dichlorobenzene	1.49240	1.43068	0.010	-4.1	50.0
29 Benzyl Alcohol	1.07921	1.05236	0.010	-2.5	50.0
30 2-Methylphenol	1.35683	1.36550	0.010	0.6	50.0
31 bis(2-Chloroisopropyl)ether	0.90331	0.97805	0.010	8.3	50.0
37 Acetophenone	2.46664	2.44088	0.010	-1.0	50.0
32 N-Nitroso-di-n-propylamine	1.68576	1.69825	0.050	0.7	50.0
192 4-Methylphenol	1.58946	1.57295	0.010	-1.0	50.0
34 Hexachloroethane	0.71225	0.75207	0.010	5.6	50.0
35 Nitrobenzene	0.75433	0.73768	0.010	-2.2	50.0
41 Isophorone	1.22232	1.23581	0.010	1.1	50.0
42 2-Nitrophenol	0.19173	0.19357	0.010	1.0	20.0
43 2,4-Dimethylphenol	0.50063	0.49130	0.010	-1.9	50.0
44 bis(2-Chloroethoxy)methane	0.62800	0.59212	0.010	-5.7	50.0
46 2,4-Toluenediamene	++++	0.01402	0.010	++++	50.0<-
47 1,3,5-Trichlorobenzene	0.43723	0.41215	0.010	-5.7	50.0
48 2,4-Dichlorophenol	0.32995	0.32201	0.010	-2.4	20.0
49 Benzoic Acid	0.11423	0.11480	0.010	0.5	50.0
50 1,2,4-Trichlorobenzene	0.39205	0.38873	0.010	-0.8	50.0
51 Naphthalene	1.12249	1.07064	0.010	-4.6	50.0
52 4-Chloroaniline	0.40007	0.40325	0.010	0.8	50.0
56 Hexachlorobutadiene	0.30490	0.29804	0.010	-2.2	20.0
210 Caprolactam	0.10899	0.11964	0.010	9.8	50.0
57 1,2,3-Trichlorobenzene	0.38941	0.37061	0.010	-4.8	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 25-JUL-2000 10:41
 Lab File ID: 6SM0725B.D Init. Cal. Date(s): 24-JUL-2000 25-JUL-2000
 Analysis Type: Init. Cal. Times: 07:30 09:35
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.40402	0.41184	0.010	1.9	20.0
62 2-Methylnaphthalene	0.72694	0.69824	0.010	-3.9	50.0
63 1-Methylnaphthalene	0.72604	0.69061	0.010	-4.9	50.0
64 Hexachlorocyclopentadiene	0.37490	0.39717	0.050	5.9	50.0
66 2,4,6-Trichlorophenol	0.38843	0.38561	0.010	-0.7	20.0
67 2,4,5-Trichlorophenol	0.38109	0.38869	0.010	2.0	50.0
211 1,1'-Biphenyl	1.56692	1.43740	0.010	-8.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.69438	0.65519	0.010	-5.6	50.0
70 2-Chloronaphthalene	1.21367	1.13786	0.010	-6.2	50.0
73 2-Nitroaniline	0.53420	0.56054	0.010	4.9	50.0
74 1,2,3,4-Tetrachlorobenzene	0.61372	0.58642	0.010	-4.4	50.0
76 Dimethylphthalate	1.32027	1.28508	0.010	-2.7	50.0
78 2,6-Dinitrotoluene	0.28637	0.28756	0.010	0.4	50.0
79 Acenaphthylene	1.89712	1.79293	0.010	-5.5	50.0
80 1,2-Dinitrobenzene	0.11852	0.13241	0.010	11.7	50.0
81 3-Nitroaniline	0.22377	0.23340	0.010	4.3	50.0
82 Acenaphthene	1.17517	1.12122	0.010	-4.6	20.0
83 2,4-Dinitrophenol	0.08610	0.09006	0.050	4.6	50.0
85 4-Nitrophenol	0.27061	0.25932	0.050	-4.2	50.0
86 Dibenzofuran	1.60159	1.55034	0.010	-3.2	50.0
87 2,4-Dinitrotoluene	0.33161	0.35924	0.010	8.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.33909	0.34164	0.010	0.7	50.0
93 Diethylphthalate	1.36069	1.39734	0.010	2.7	50.0
94 Fluorene	1.36950	1.33879	0.010	-2.2	50.0
95 4-Chlorophenyl-phenylether	0.69585	0.69381	0.010	-0.3	50.0
96 4-Nitroaniline	0.17839	0.18484	0.010	3.6	50.0
98 4,6-Dinitro-2-methylphenol	0.11152	0.11176	0.010	0.2	50.0
99 N-Nitrosodiphenylamine	0.60992	0.57072	0.010	-6.4	20.0
100 1,2-Diphenylhydrazine	1.63371	1.61330	0.010	-1.2	50.0
106 4-Bromophenyl-phenylether	0.27192	0.26030	0.010	-4.3	50.0
107 Hexachlorobenzene	0.28344	0.26582	0.010	-6.2	50.0
212 Atrazine	0.25630	0.26046	0.010	1.6	50.0
111 Pentachlorophenol	0.11767	0.11249	0.010	-4.4	20.0
115 Phenanthrene	1.28803	1.25403	0.010	-2.6	50.0
116 Anthracene	1.23376	1.20490	0.010	-2.3	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 25-JUL-2000 10:41
 Lab File ID: 6SM0725B.D Init. Cal. Date(s): 24-JUL-2000 25-JUL-2000
 Analysis Type: Init. Cal. Times: 07:30 09:35
 Lab Sample ID: sstd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.92821	0.93718	0.010	1.0	50.0
120 Di-n-Butylphthalate	1.98539	1.52754	0.010	-3.6	50.0
123 Fluoranthene	1.30282	1.28822	0.010	-1.1	20.0
124 Benzidine	0.33332	0.34409	0.010	3.2	50.0
125 Pyrene	1.54620	1.52947	0.010	-1.1	50.0
131 Butylbenzylphthalate	0.71796	0.70186	0.010	-2.2	50.0
133 3,3'-Dimethoxybenzidine	0.21855	0.20564	0.010	-5.9	50.0
135 3,3'-Dichlorobenzidine	0.41379	0.40552	0.010	-2.0	50.0
136 Benzo(a)Anthracene	1.22347	1.26519	0.010	3.4	50.0
137 Chrysene	1.15481	1.16389	0.010	0.8	50.0
138 4,4'-Methylene bis(o-chloro	0.22762	0.22858	0.010	0.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.07649	1.08908	0.010	1.2	50.0
140 Di-n-octylphthalate	2.46386	2.42139	0.010	-1.7	20.0
141 Benzo(b)fluoranthene	1.44586	1.41898	0.010	-1.9	50.0
142 Benzo(k)fluoranthene	1.52276	1.49628	0.010	-1.7	50.0
146 Benzo(a)pyrene	1.24839	1.22345	0.010	-2.0	20.0
149 Indeno(1,2,3-cd)pyrene	1.21137	1.28035	0.010	5.7	50.0
150 Dibenz(a,h)anthracene	1.07641	1.04613	0.010	-2.8	50.0
151 Benzo(g,h,i)perylene	1.06830	1.03797	0.010	-2.8	50.0
\$ 154 Nitrobenzene-d5	0.71267	0.73232	0.010	2.8	50.0
\$ 155 2-Fluorobiphenyl	1.34158	1.29977	0.010	-3.1	50.0
\$ 156 Terphenyl-d14	1.11286	1.10287	0.010	-0.9	50.0
\$ 157 Phenol-d5	1.91180	1.88160	0.010	-1.6	50.0
\$ 158 2-Fluorophenol	1.30864	1.38676	0.010	6.0	50.0
\$ 159 2,4,6-Tribromophenol	0.16095	0.17494	0.010	8.7	50.0
\$ 186 2-Chlorophenol-d4	1.15498	1.16551	0.010	0.9	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.99351	0.98644	0.010	-0.7	50.0
M 195 Cresols, total	2.94629	2.93845	0.010	-0.3	50.0
101 Diphenylamine	0.60992	0.57072	0.010	-6.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 25-JUL-2000 11:19
 Lab File ID: 6AM0725.D Init. Cal. Date(s): 24-JUL-2000 25-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 07:30 09:35
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.89445	0.88077	0.010	-1.5	50.0
8 Ethyl methanesulfonate	1.68521	1.68998	0.010	0.3	50.0
14 2-Picoline	1.81334	1.89335	0.010	4.4	50.0
15 N-Nitrosomethylethylamine	0.86950	0.88588	0.010	1.9	50.0
16 Methyl methanesulfonate	1.51931	1.47613	0.010	-2.8	50.0
18 1,3-Dichloro-2-propanol	2.23123	2.19487	0.010	-1.6	50.0
19 N-Nitrosodiethylamine	0.79849	0.78888	0.010	-1.2	50.0
25 Pentachloroethane	0.64627	0.63751	0.010	-1.4	50.0
36 N-Nitrosopyrrolidine	0.85050	0.80961	0.010	-4.8	50.0
37 Acetophenone	2.46664	2.32673	0.010	-5.7	50.0
39 o-Toluidine	2.48591	2.27902	0.010	-8.3	50.0
40 N-Nitrosopiperidine	0.20676	0.19874	0.010	-3.9	50.0
45 O,O,O-Triethyl phosphorothi	0.25664	0.24791	0.010	-3.4	50.0
53 a,a-Dimethyl-phenethylamine	0.48419	0.54856	0.010	13.3	50.0
54 2,6-Dichlorophenol	0.33086	0.31926	0.010	-3.5	50.0
55 Hexachloropropene	0.25170	0.26402	0.010	4.9	50.0
58 N-Nitrosodi-n-butylamine	0.42050	0.42986	0.010	2.2	50.0
60 p-Phenylene diamine	0.19996	0.24147	0.010	20.8	50.0
61 Safrole	0.35637	0.33753	0.010	-5.3	50.0
65 1,2,4,5-Tetrachlorobenzene	0.71854	0.71079	0.010	-1.1	50.0
71 Isosafrole 1	0.15554	0.15115	0.010	-2.8	50.0
M 188 Isosafrole, Total	1.28295	1.25028	0.010	-2.5	50.0
72 Isosafrole 2	1.12741	1.09913	0.010	-2.5	50.0
75 1,4-Naphthoquinone	0.40049	0.38778	0.010	-3.2	50.0
84 Pentachlorobenzene	0.57735	0.57817	0.010	0.1	50.0
89 1-Naphthylamine	0.86243	0.93956	0.010	8.9	50.0
92 2-Naphthylamine	0.66464	0.85579	0.010	28.8	50.0
90 Zinophos	0.42607	0.44578	0.010	4.6	50.0
102 Tetraethyl dithiopyrophosph	0.12648	0.13230	0.010	4.6	50.0
103 Diallyl 1	0.93669	0.97875	0.010	4.5	50.0
M 189 Diallyl, Total	3.78363	3.94291	0.010	4.2	50.0
109 Diallyl 2	0.13774	0.14939	0.010	8.5	50.0
104 Phorate	0.15818	0.16573	0.010	4.8	50.0
105 1,3,5-Trinitrobenzene	0.05643	0.07211	0.010	27.8	50.0
108 Phenacetin	0.44630	0.44738	0.010	0.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp6.i Injection Date: 25-JUL-2000 11:19
 Lab File ID: 6AM0725.D Init. Cal. Date(s): 24-JUL-2000 25-JUL-2000
 Analysis Type: SOIL Init. Cal. Times: 07:30 09:35
 Lab Sample ID: astd016 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp6.i\00725a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	RD	MAX RD
110 Dimethoate	0.35582	0.37722	0.010	6.0	50.0
112 Pentachloronitrobenzene	0.15842	0.18443	0.010	16.4	50.0
113 4-Aminobiphenyl	0.51072	0.57672	0.010	12.9	50.0
114 Pronamide	0.42627	0.43416	0.010	1.8	50.0
117 Dinoseb	0.13408	0.18482	0.010	37.8	50.0
118 Disulfoton	0.55630	0.57686	0.010	3.7	50.0
121 4-Nitroquinoline 1-oxide	0.04681	0.03426	0.010	-26.8	50.0
122 Methapyrilene	0.27764	0.29914	0.010	7.7	50.0
126 Aramite 1	0.09309	0.10322	0.010	10.9	50.0
M 191 Aramite, Total	0.56754	0.57255	0.010	0.9	50.0
127 Aramite 2	0.13287	0.14115	0.010	6.2	50.0
128 p-Dimethylamino azobenzene	0.36655	0.37870	0.010	3.3	50.0
129 p-Chlorobenzilate	0.70408	0.78940	0.010	12.1	50.0
130 Famphur	0.38799	0.51313	0.010	32.3	50.0
132 3,3'-Dimethylbenzidine	0.38724	0.46969	0.010	21.3	50.0
134 2-Acetylaminofluorene	0.42117	0.41071	0.010	-2.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.88822	0.68977	0.010	-22.3	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.76341	0.63882	0.010	-16.3	50.0
193 3-Methylphenol	1.52853	1.34320	0.010	-12.1	50.0
69 1,4-Dinitrobenzene	0.14043	0.16598	0.010	18.2	50.0
77 m-Dinitrobenzene	0.16939	0.18801	0.010	11.0	50.0
198 1,4-Dioxane	0.68389	0.66463	0.010	-2.8	50.0
88 2,3,4,6-Tetrachlorophenol	0.25160	0.25188	0.010	0.1	50.0
97 5-Nitro-o-toluidine	0.26851	0.28708	0.010	6.9	50.0
199 3-Picoline	1.69949	1.56097	0.010	-8.2	50.0
200 N,N-Dimethylacetamide	0.70860	0.62674	0.010	-11.6	50.0

CLIENT NS Mayport		JOB NUMBER	
SUBJECT Sample Calc.			
BASED ON Blank Spike (DBCH0102)		DRAWING NUMBER	
BY Douglas S. Schloer	CHECKED BY	APPROVED BY JAS 12/9/00	DATE 12/9/00

Fraction : Semivolatile
 Matrix : Soil
 Compound : Phenol
 Form I : 1300.0 ug/kg

$$ug/kg = \frac{A_{I_s} (I_s)(DF)(V_e)}{A_{I_s} (RRF)(V_i)(W_s)(D)}$$

$A_{I_s} = 943461 \text{ Area}$

$$= \frac{943461 \text{ Area} (9.0 \text{ ng}) (5000 \text{ ul}) (1)}{210168 \text{ Area} (2.23225) (2.0 \text{ ul}) (30.0 \text{ g})}$$

$I_s = 9.0 \text{ ng}$

$DF = 1$

$$= 1340.6 \text{ ng/g or ug/kg}$$

$V_e = 5000 \text{ ul}$

$A_{I_s} = 210168 \text{ Area}$

$RRF = 2.23225$

$V_i = 2.0 \text{ ul}$

$W_s = 30.0 \text{ g}$

$D = \text{N/A}$

STL - North Canton

Semivolatile REPORT SW-846 Method 8270

Data file : \\qcanoh05\dd\chem\MSS\a4hp6.i\00724a.b\DGC40102.D
 Lab Smp Id: DGC40102 Client Smp ID: INTRA-LAB CHECK
 Inj Date : 24-JUL-2000 13:31
 Operator : 046900 Inst ID: a4hp6.i
 Smp Info : dgc40102,00724a.b,8270c.m,3-827042.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp6.i\00724a.b\8270c.m
 Meth Date : 25-Jul-2000 04:10 hulat Quant Type: ISTD
 Cal Date : 24-JUL-2000 10:34 Cal File: 6AHH0724.D
 Als bottle: 10 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-827042.sub
 Target Version: 4.04
 Processing Host: CANPMSSV01

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152	7.301	7.300	(1.000)	210168	8.00000		
* 2 Naphthalene-d8	136	9.652	9.656	(1.000)	721397	8.00000		
* 3 Acenaphthene-d10	164	13.145	13.150	(1.000)	496164	8.00000		
* 4 Phenanthrene-d10	188	16.126	16.131	(1.000)	805289	8.00000		
* 5 Chrysene-d12	240	21.479	21.478	(1.000)	725720	8.00000		
* 6 Perylene-d12	264	24.145	24.149	(1.000)	479739	8.00000		
9 Pyridine	79	3.449	3.368	(0.472)	751188	17.5986	1466.6	
10 N-Nitrosodimethylamine	74	3.439	3.390	(0.471)	525752	16.1423	1345.2	
11 Ethyl methacrylate	69						Compound Not Detected.	
12 3-Chloropropionitrile	54						Compound Not Detected.	
13 Malononitrile	66						Compound Not Detected.	
209 Benzaldehyde	77						Compound Not Detected.	
21 Aniline	93	6.777	6.777	(0.928)	792094	11.1587	929.89	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
22 Phenol	94	6.735	6.723 (0.922)		943461	16.0881	1340.7
23 bis(2-Chloroethyl) ether	93	6.900	6.900 (0.945)		724064	16.0385	1336.5
24 2-Chlorophenol	128	6.948	6.942 (0.952)		500393	15.5553	1296.3
26 1,3-Dichlorobenzene	146	7.205	7.204 (0.987)		622004	15.3950	1282.9
27 1,4-Dichlorobenzene	146	7.328	7.327 (1.004)		633375	15.6674	1305.6
28 1,2-Dichlorobenzene	146	7.605	7.610 (1.042)		600307	15.7406	1311.7
29 Benzyl Alcohol	108	7.584	7.583 (1.039)		461237	15.5400	1295.0
30 2-Methylphenol	108	7.787	7.786 (1.067)		565800	14.9214	1243.4
31 bis(2-Chloroisopropyl) ether	45	7.830	7.834 (1.072)		402265	16.3319	1361.0(Q)
37 Acetophenone	105	Compound Not Detected.					
32 N-Nitroso-di-n-propylamine	70	8.086	8.091 (1.108)		694379	15.3691	1280.8
192 4-Methylphenol	108	8.076	8.070 (1.106)		1285015	28.9606	2413.4
34 Hexachloroethane	117	8.182	8.182 (1.121)		294148	15.6606	1305.0
35 Nitrobenzene	77	8.369	8.374 (0.867)		1056053	14.2925	1191.0
41 Isophorone	82	8.807	8.817 (0.913)		1650760	14.4471	1203.9
42 2-Nitrophenol	139	8.962	8.967 (0.929)		247242	14.2887	1190.7(Q)
43 2,4-Dimethylphenol	107	9.059	9.063 (0.939)		582276	12.4941	1041.2
44 bis(2-Chloroethoxy) methane	93	9.262	9.266 (0.960)		818270	14.0201	1168.3
46 2,4-Toluenediamens	121	Compound Not Detected.					
47 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
48 2,4-Dichlorophenol	162	9.400	9.405 (0.974)		450939	14.2532	1187.8
49 Benzoic Acid	122	9.240	9.239 (0.957)		143869	16.1796	1348.3 (QRM) 2
50 1,2,4-Trichlorobenzene	180	9.555	9.560 (0.990)		553073	15.3616	1280.1
51 Naphthalene	128	9.694	9.699 (1.004)		1527174	14.9485	1245.7
52 4-Chloroaniline	127	9.860	9.859 (1.022)		402250	10.6726	889.38
56 Hexachlorobutadiene	225	9.961	9.966 (1.032)		385950	13.4219	1118.5
210 Caprolactam	113	Compound Not Detected.					
57 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
59 4-Chloro-3-Methylphenol	107	10.821	10.837 (1.121)		569352	15.3468	1278.9
62 2-Methylnaphthalene	142	11.056	11.056 (1.146)		999517	14.7777	1231.5
63 1-Methylnaphthalene	142	11.254	11.259 (1.166)		941217	14.0241	1168.7
64 Hexachlorocyclopentadiene	237	11.388	11.398 (0.866)		275494	10.9372	911.43
66 2,4,6-Trichlorophenol	196	11.649	11.659 (0.886)		356439	15.0892	1257.4
67 2,4,5-Trichlorophenol	196	11.714	11.718 (0.891)		362189	15.2565	1271.4
211 1,1'-Biphenyl	154	Compound Not Detected.					
68 1,2,3,5-Tetrachlorobenzene	216	Compound Not Detected.					
70 2-Chloronaphthalene	162	12.023	12.028 (0.915)		1023341	13.5629	1130.2
73 2-Nitroaniline	65	12.307	12.306 (0.936)		501285	15.3983	1283.2
74 1,2,3,4-Tetrachlorobenzene	216	Compound Not Detected.					
76 Dimethylphthalate	163	12.713	12.717 (0.967)		1223574	14.9343	1244.5
78 2,6-Dinitrotoluene	165	12.841	12.845 (0.977)		271940	16.2892	1357.4
79 Acenaphthylene	152	12.851	12.856 (0.978)		1664762	14.3152	1192.9
80 1,2-Dinitrobenzene	168	12.948	12.947 (0.985)		123408	17.5201	1460.0
81 3-Nitroaniline	138	13.145	13.150 (1.000)		203419	15.1802	1265.0
82 Acenaphthene	153	13.209	13.214 (1.005)		1046274	14.6142	1217.8
83 2,4-Dinitrophenol	184	13.359	13.369 (1.016)		80062	17.5491	1462.4
85 4-Nitrophenol	109	13.909	13.513 (1.028)		265809	15.1163	1259.7(QM) 2

INSTRUMENT: A4HP6

COLUMN
TYPE: DG-61

ANALYSIS
40 deg. C for 1.5 min.

DATE: 7/24/00
CASE: _____
SDG NO: _____

LENGTH: 3m

to 30 deg. C @ 12 deg. C/min

ID: 0.32 mm

hold for 2 min.

FILM THICKNESS: 50 MICRONS F.D. = 2 E.T. = 17 I.S.# 2303 TUNE: DFPJ

FILE NAME	LOT #/ FILE NAME	SAMPLE PREP	D.F.	QUAL	COMMENTS	ANALYST
6DF0724D	SV2285		X5	OK	(7:12)	EL
6260724	SV2221			OK	Cal Std OK mtd Checked by: 7-25-00	
6270724	SV2222			OK		
6270724	SV2227			OK		
6270724	SV2224			OK		
6270724	SV2225			OK		
6270724	SV2226			OK		
6DF0724d	SV2285			OK	(11:21)	
65M0724	SV2311			OK		
6ZMP724	SV2284	(2nd extra N ₂)		OK		
DG-C40101	B	7/8 ³⁰ 27m	st.	OK	(G270)	
DG-C40102	L	7/8		OK		
DG-C6103	AG-170129	7/8	v	OK		
DG-AQF102	AG-170106	7/8	5/100	OK		
DG-C5X103	AG-170129	7/8	st.	OK		
DG-C5P103				OK		
DG-C62103				OK		
DG-DF2102	AG-180153	v	5/100	resn	at 4/100	
DG-AGA103	AG-170104	7/8	st.	OK		
DG-9LJ10X	AG-150133			OK	(AP9'S)	
DG-9LQ10X				OK		
DG-9LR10W				OK		
DG-9LT10X				OK		
DG-9LV10W				OK		
DG-9LW10W				OK		
DG-9L810X	AG-150130			OK		
DG-9L510X				OK		
DG-9L610X				OK		

N:\QAQC\LAB_FORMMS SEMI RUN LOG.doc

QC=2/2 sm=15/16 RE=1

DATE: 12/11/00

VOA

The following compounds were detected in laboratory method blanks:

<u>Compound</u>	<u>Maximum Concentration (ug/kg)</u>	<u>Blank Action Level (ug/kg)</u>
Acetone	2.4	24
Methylene chloride	1.6	16

Sample aliquot, % moisture and dilution factors were taken into consideration when applying blank action levels. Positive results less than the action level were reported for acetone, therefore, these were qualified as nondetected (U) in all samples. Positive results less than the action level were reported for methylene chloride, therefore, these were qualified as nondetected (U) in samples MPT-G4-SU-62-05, MPT-G4-SU-63-05, MPT-G4-SU-64-05, MPT-G4-SU-DU04 and MPT-G4-SU-DU05.

An initial calibration Relative Response Factor (RRFs) fell below the 0.05 quality control limit for isobutyl alcohol, on instrument A3UX9 on 7/14/00. Only nondetected results were reported for isobutyl alcohol, and these were rejected (UR) in all samples.

An initial calibration % Relative Standard Deviation (%RSD) exceeded the 30% (but<50%) quality control limit for bromomethane on instrument A3UX9 on 7/14/00. Only nondetected results were reported for bromomethane, therefore, no action was taken based on this noncompliance.

A continuing calibration verification RRF fell below the 0.05 quality control limit for isobutyl alcohol on instrument A3UX9, on 7/21/00. Only nondetected results were reported for isobutyl alcohol and these were rejected (UR) in the affected samples.

A continuing calibration verification %Difference (%D) exceeded the 25% quality control limit for propionitrile on instrument A3UX9, on 7/21/00. Only nondetected results were reported for propionitrile and these were qualified as estimated (UJ) in the affected samples.

Laboratory Control Sample (LCS) % recovery of acetone exceeded quality control limits. No action was taken based on this noncompliance.

SVOA

An initial calibration RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on instrument A4HP6, on 7/24/00. Nondetected results for 4-nitroquinoline-1-oxide were rejected (UR) in samples MPT-G4-SU-58-05, MPT-G4-SU-59-05, MPT-G4-SU-60-05, MPT-G4-SU-61-05, MPT-G4-SU-62-05, MPT-G4-SU-63-05, MPT-G4-SU-64-05, MPT-G4-SU-65-05, MPT-G4-SU-DU04 and MPT-G4-SU-DU05.

An initial calibration RRF fell below the 0.05 quality control limit for 4-nitroquinoline-1-oxide on instrument A4HP6, on 7/25/00. Only nondetected results were reported for 4-nitroquinoline-1-oxide were rejected (UR) in samples MPT-G4-SU-56-05, MPT-G4-SU-57-03, MPT-G4-SU-60-05 and MPT-G4-SU-DU03.

An initial calibration %RSD exceeded the 30% (but<50%) quality control limit for hexachlorocyclopentadiene on instrument A4HP6, on 7/25/00. Only nondetected results were reported for hexachlorocyclopentadiene, therefore, no action was taken based on this noncompliance.

TO: T. HANSEN – PAGE 2
DATE: FEBRUARY 21, 2001

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Aluminum ⁽¹⁾	126 µg/L	630 µg/L
Barium ⁽¹⁾	1.7 µg/L	8.5 µg/L
Beryllium	0.5 µg/L	2.5 µg/L
Calcium ⁽¹⁾	336 µg/L	1680 µg/L
Chromium ⁽¹⁾	1.3 µg/L	6.5 µg/L
Cobalt ⁽¹⁾	5.6 µg/L	28.0 µg/L
Copper ⁽¹⁾	6.4 µg/L	32.0 µg/L
Iron ⁽¹⁾	125 µg/L	625 µg/L
Magnesium ⁽¹⁾	71.3 µg/L	356.5 µg/L
Manganese ⁽¹⁾	11.7 µg/L	58.5 µg/L
Nickel ⁽¹⁾	80.2 µg/L	401 µg/L
Potassium ⁽¹⁾	361 µg/L	1805 µg/L
Sodium ⁽¹⁾	5560 µg/L	27800 µg/L
Zinc ⁽¹⁾	38.9 µg/L	194.5 µg/L

⁽¹⁾ Maximum concentration present in a laboratory preparation (leachate) blank.

An action level of 5X the maximum concentration were used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination. Positive results less than the blank action levels for aluminum, barium, beryllium, chromium, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc were qualified, "U", as a result of blank contamination. No qualification action was required for calcium or cobalt since all results were either nondetected or greater than the action level.

Matrix Spike and Matrix Spike Duplicate Results

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Percent Recoveries (%Rs) were < 75% quality control limit for antimony. All samples for antimony were nondetected and were qualified "U".

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

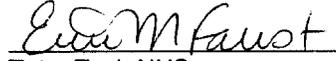
Other Factors Affecting Data Quality: Antimony was qualified due to MS/MSD noncompliance.

TO: T. HANSEN – PAGE 3
DATE: FEBRUARY 21, 2001

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Erin M. Faust
Environmental Scientist



TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$

**CTO091-NS MAYPORT
SPLP DATA
QUANTERRA
SDG: MP031**

SAMPLE NUMBER:	MPT-G4-SU15-08	MPT-G4-SU17-08	MPT-G4-SU21-07	MPT-G4-SU22-08
SAMPLE DATE:	11/29/00	11/27/00	11/27/00	11/28/00
LABORATORY ID:	A0L010227008	A0L010227001	A0L010227005	A0L010227007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	1000			4930			162	U	A	2030		
ANTIMONY	3.1	UJ	D	3.1	UJ	D	3.1	UJ	D	3.1	UJ	D
ARSENIC	3.2	U		3.2	U		3.2	U		3.2	U	
BARIUM	2.3	U	A	12.1			4.6	U	A	13.7		
BERYLLIUM	0.30	U	A	0.20	U	A	0.08	U		0.10	U	A
CADMIUM	0.25	U		0.25	U		0.25	U		0.25	U	
CALCIUM	26100			40000			17800			14300		
CHROMIUM	1.2	U	A	5.9	U	A	1.8	U	A	5.3	U	A
COBALT	0.83	U		0.83	U		0.83	U		0.83	U	
COPPER	1.3	U		2.7	U	A	1.3	U		1.3	U	
IRON	29.3	U	A	570	U	A	42.0	U	A	1380		
LEAD	1.9	U		1.9	U		1.9	U		1.9	U	
MAGNESIUM	67.1	U	A	741			259	U	A	756		
MANGANESE	1.1	U	A	3.3	U	A	0.91	U	A	5.9	U	A
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
NICKEL	2.0	U		3.4	U	A	2.0	U		3.1	U	A
POTASSIUM	352	U	A	376	U	A	551	U	A	458	U	A
SELENIUM	4.0	U		4.0	U		4.0	U		4.0	U	
SILVER	1.1	U		1.1	U		1.1	U		1.1	U	
SODIUM	2420	U	A	11800	U	A	3910	U	A	12600	U	A
THALLIUM	6.8	U		6.8	U		6.8	U		6.8	U	
VANADIUM	6.7			35.9			4.7			5.7		
ZINC	3.3	U	A	8.9	U	A	5.1	U	A	10.3	U	A

**CTO091-NS MAYPORT
SPLP DATA
QUANTERRA
SDG: MP031**

SAMPLE NUMBER:	MPT-G4-SU23-08	MPT-G4-SU24-08	MPT-G4-SU26-05	MPT-G4-SU36-05
SAMPLE DATE:	11/27/00	11/28/00	11/27/00	11/29/00
LABORATORY ID:	A0L010227004	A0L010227006	A0L010227003	A0L010227010
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	949			2630			369	U	A	1490		
ANTIMONY	3.1	UJ	D	3.1	UJ	D	3.1	UJ	D	3.1	UJ	D
ARSENIC	3.2	U		3.2	U		3.2	U		3.2	U	
BARIUM	2.9	U	A	15.4			7.9	U	A	10.9		
BERYLLIUM	0.08	U		0.12	U	A	0.12	U	A	0.15	U	A
CADMIUM	0.25	U		0.25	U		0.25	U		0.25	U	
CALCIUM	44400			14100			18600			13900		
CHROMIUM	2.0	U	A	5.8	U	A	1.4	U	A	4.1	U	A
COBALT	0.83	U		0.83	U		0.83	U		0.83	U	
COPPER	1.3	U		1.3	U		1.6	U	A	3.7	U	A
IRON	39.3	U	A	1890			332	U	A	1230		
LEAD	1.9	U		1.9	U		1.9	U		2.5		
MAGNESIUM	37.7	U	A	773			411			430		
MANGANESE	0.53	U	A	14.7	U	A	4.8	U	A	8.4	U	A
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
NICKEL	2.0	U		2.2	U	A	2.0	U		2.4	U	A
POTASSIUM	852	U	A	371	U	A	315	U	A	339	U	A
SELENIUM	4.0	U		4.0	U		4.0	U		4.0	U	
SILVER	1.1	U		1.1	U		1.1	U		1.1	U	
SODIUM	1250	U	A	9900	U	A	8720	U	A	9610	U	A
THALLIUM	6.8	U		6.8	U		6.8	U		6.8	U	
VANADIUM	8.8			9.0			5.0			6.6		
ZINC	4.5	U	A	15.0	U	A	10.3	U	A	17.5	U	A

**CTO091-NS MAYPORT
SPLP DATA
QUANTERRA
SDG: MP031**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-G4-SU43-04
11/29/00
AOL010227009
NORMAL
0.0 %
UG/L

MPT-G4-SU45-04
11/29/00
AOL010227002
NORMAL
0.0 %
UG/L

//
100.0 %

//
100.0 %

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	828			1160								
ANTIMONY	3.1	UJ	D	3.1	UJ	D						
ARSENIC	3.2	U		3.2	U							
BARIUM	5.8	U	A	7.0	U	A						
BERYLLIUM	0.16	U	A	0.11	U	A						
CADMIUM	0.25	U		0.25	U							
CALCIUM	7710			13400								
CHROMIUM	2.1	U	A	2.7	U	A						
COBALT	0.83	U		0.83	U							
COPPER	2.0	U	A	2.7	U	A						
IRON	592	U	A	998								
LEAD	1.9	U		1.9	U							
MAGNESIUM	307	U	A	1510								
MANGANESE	5.6	U	A	4.5	U	A						
MERCURY	0.10	U		0.10	U							
NICKEL	2.4	U	A	2.7	U	A						
POTASSIUM	281	U	A	396	U	A						
SELENIUM	4.0	U		4.0	U							
SILVER	1.1	U		1.1	U							
SODIUM	6780	U	A	18900	U	A						
THALLIUM	6.8	U		6.8	U							
VANADIUM	8.0			7.1								
ZINC	8.5	U	A	10.1	U	A						

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQN0A Client ID: MPT-G4-SU15-08
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	1000		1	ICPST	12/8/00	19:31
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	19:31
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	19:31
Barium	493.41	0.15	10000	2.3	B	1	ICPST	12/8/00	19:31
Beryllium	313.04	0.080	5.0	0.30	B	1	ICPST	12/8/00	19:31
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	19:31
Calcium	317.93	7.7	5000	26100		1	ICPST	12/8/00	19:31
Chromium	267.72	1.1	500	1.2	B	1	ICPST	12/8/00	19:31
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	19:31
Copper	324.75	1.3	1000	1.3	U	1	ICPST	12/8/00	19:31
Iron	271.44	16.0	100	29.3	B	1	ICPST	12/8/00	19:31
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	19:31
Magnesium	279.08	14.2	5000	67.1	B	1	ICPST	12/8/00	19:31
Manganese	257.61	0.15	15.0	1.1	B	1	ICPST	12/8/00	19:31
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:30
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/8/00	19:31
Potassium	766.49	19.5	5000	352	B	1	ICPST	12/8/00	19:31
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	19:31
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	19:31
Sodium	330.23	244	5000	2420	B	1	ICPST	12/8/00	19:31
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	19:31
Vanadium	292.40	0.76	50.0	6.7	B	1	ICPST	12/8/00	19:31
Zinc	213.86	1.2	1000	3.3	B	1	ICPST	12/8/00	19:31

Comments: Lot #: A0L010227 Sample #: 8

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNWA Client ID: MPT-G4-SU17-08
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	4930		1	ICPST	12/8/00	18:29
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	18:29
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	18:29
Barium	493.41	0.15	10000	12.1	B	1	ICPST	12/8/00	18:29
Beryllium	313.04	0.080	5.0	0.20	B	1	ICPST	12/8/00	18:29
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	18:29
Calcium	317.93	7.7	5000	40000		1	ICPST	12/8/00	18:29
Chromium	267.72	1.1	500	5.9	B	1	ICPST	12/8/00	18:29
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	18:29
Copper	324.75	1.3	1000	2.7	B	1	ICPST	12/8/00	18:29
Iron	271.44	16.0	100	570		1	ICPST	12/8/00	18:29
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	18:29
Magnesium	279.08	14.2	5000	741	B	1	ICPST	12/8/00	18:29
Manganese	257.61	0.15	15.0	3.3	B	1	ICPST	12/8/00	18:29
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:15
Nickel	231.60	2.0	40.0	3.4	B	1	ICPST	12/8/00	18:29
Potassium	766.49	19.5	5000	376	B	1	ICPST	12/8/00	18:29
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	18:29
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	18:29
Sodium	330.23	244	5000	11800		1	ICPST	12/8/00	18:29
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	18:29
Vanadium	292.40	0.76	50.0	35.9	B	1	ICPST	12/8/00	18:29
Zinc	213.86	1.2	1000	8.9	B	1	ICPST	12/8/00	18:29

Comments: Lot #: A0L010227 Sample #: 1

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNXW Client ID: MPT-G4-SU21-07
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	162	B	1	ICPST	12/8/00	19:04
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	19:04
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	19:04
Barium	493.41	0.15	10000	4.6	B	1	ICPST	12/8/00	19:04
Beryllium	313.04	0.080	5.0	0.080	U	1	ICPST	12/8/00	19:04
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	19:04
Calcium	317.93	7.7	5000	17800		1	ICPST	12/8/00	19:04
Chromium	267.72	1.1	500	1.8	B	1	ICPST	12/8/00	19:04
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	19:04
Copper	324.75	1.3	1000	1.3	U	1	ICPST	12/8/00	19:04
Iron	271.44	16.0	100	42.0	B	1	ICPST	12/8/00	19:04
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	19:04
Magnesium	279.08	14.2	5000	259	B	1	ICPST	12/8/00	19:04
Manganese	257.61	0.15	15.0	0.91	B	1	ICPST	12/8/00	19:04
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:26
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/8/00	19:04
Potassium	766.49	19.5	5000	551	B	1	ICPST	12/8/00	19:04
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	19:04
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	19:04
Sodium	330.23	244	5000	3910	B	1	ICPST	12/8/00	19:04
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	19:04
Vanadium	292.40	0.76	50.0	4.7	B	1	ICPST	12/8/00	19:04
Zinc	213.86	1.2	1000	5.1	B	1	ICPST	12/8/00	19:04

Comments: Lot #: A0L010227 Sample #: 5

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNX9 Client ID: MPT-G4-SU22-08
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	2030		1	ICPST	12/8/00	19:14
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	19:14
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	19:14
Barium	493.41	0.15	10000	13.7	B	1	ICPST	12/8/00	19:14
Beryllium	313.04	0.080	5.0	0.10	B	1	ICPST	12/8/00	19:14
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	19:14
Calcium	317.93	7.7	5000	14300		1	ICPST	12/8/00	19:14
Chromium	267.72	1.1	500	5.3	B	1	ICPST	12/8/00	19:14
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	19:14
Copper	324.75	1.3	1000	1.3	U	1	ICPST	12/8/00	19:14
Iron	271.44	16.0	100	1380		1	ICPST	12/8/00	19:14
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	19:14
Magnesium	279.08	14.2	5000	756	B	1	ICPST	12/8/00	19:14
Manganese	257.61	0.15	15.0	5.9	B	1	ICPST	12/8/00	19:14
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:29
Nickel	231.60	2.0	40.0	3.1	B	1	ICPST	12/8/00	19:14
Potassium	766.49	19.5	5000	458	B	1	ICPST	12/8/00	19:14
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	19:14
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	19:14
Sodium	330.23	244	5000	12600		1	ICPST	12/8/00	19:14
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	19:14
Vanadium	292.40	0.76	50.0	5.7	B	1	ICPST	12/8/00	19:14
Zinc	213.86	1.2	1000	10.3	B	1	ICPST	12/8/00	19:14

Comments: Lot #: A0L010227 Sample #: 7

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNXL Client ID: MPT-G4-SU23-08
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	949		1	ICPST	12/8/00	18:49
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	18:49
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	18:49
Barium	493.41	0.15	10000	2.9	B	1	ICPST	12/8/00	18:49
Beryllium	313.04	0.080	5.0	0.080	U	1	ICPST	12/8/00	18:49
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	18:49
Calcium	317.93	7.7	5000	44400		1	ICPST	12/8/00	18:49
Chromium	267.72	1.1	500	2.0	B	1	ICPST	12/8/00	18:49
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	18:49
Copper	324.75	1.3	1000	1.3	U	1	ICPST	12/8/00	18:49
Iron	271.44	16.0	100	39.3	B	1	ICPST	12/8/00	18:49
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	18:49
Magnesium	279.08	14.2	5000	37.7	B	1	ICPST	12/8/00	18:49
Manganese	257.61	0.15	15.0	0.53	B	1	ICPST	12/8/00	18:49
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:19
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/8/00	18:49
Potassium	766.49	19.5	5000	852	B	1	ICPST	12/8/00	18:49
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	18:49
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	18:49
Sodium	330.23	244	5000	1250	B	1	ICPST	12/8/00	18:49
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	18:49
Vanadium	292.40	0.76	50.0	8.8	B	1	ICPST	12/8/00	18:49
Zinc	213.86	1.2	1000	4.5	B	1	ICPST	12/8/00	18:49

Comments: Lot #: A0L010227 Sample #: 4

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNX2 Client ID: MPT-G4-SU24-08
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	2630		1	ICPST	12/8/00	19:09
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	19:09
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	19:09
Barium	493.41	0.15	10000	15.4	B	1	ICPST	12/8/00	19:09
Beryllium	313.04	0.080	5.0	0.12	B	1	ICPST	12/8/00	19:09
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	19:09
Calcium	317.93	7.7	5000	14100		1	ICPST	12/8/00	19:09
Chromium	267.72	1.1	500	5.8	B	1	ICPST	12/8/00	19:09
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	19:09
Copper	324.75	1.3	1000	1.3	U	1	ICPST	12/8/00	19:09
Iron	271.44	16.0	100	1890		1	ICPST	12/8/00	19:09
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	19:09
Magnesium	279.08	14.2	5000	773	B	1	ICPST	12/8/00	19:09
Manganese	257.61	0.15	15.0	14.7	B	1	ICPST	12/8/00	19:09
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:28
Nickel	231.60	2.0	40.0	2.2	B	1	ICPST	12/8/00	19:09
Potassium	766.49	19.5	5000	371	B	1	ICPST	12/8/00	19:09
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	19:09
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	19:09
Sodium	330.23	244	5000	9900		1	ICPST	12/8/00	19:09
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	19:09
Vanadium	292.40	0.76	50.0	9.0	B	1	ICPST	12/8/00	19:09
Zinc	213.86	1.2	1000	15.0	B	1	ICPST	12/8/00	19:09

Comments: Lot #: A0L010227 Sample #: 6

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNXG Client ID: MPT-G4-SU26-05
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	369		1	ICPST	12/8/00	18:44
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	18:44
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	18:44
Barium	493.41	0.15	10000	7.9	B	1	ICPST	12/8/00	18:44
Beryllium	313.04	0.080	5.0	0.12	B	1	ICPST	12/8/00	18:44
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	18:44
Calcium	317.93	7.7	5000	18600		1	ICPST	12/8/00	18:44
Chromium	267.72	1.1	500	1.4	B	1	ICPST	12/8/00	18:44
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	18:44
Copper	324.75	1.3	1000	1.6	B	1	ICPST	12/8/00	18:44
Iron	271.44	16.0	100	332		1	ICPST	12/8/00	18:44
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	18:44
Magnesium	279.08	14.2	5000	411	B	1	ICPST	12/8/00	18:44
Manganese	257.61	0.15	15.0	4.8	B	1	ICPST	12/8/00	18:44
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:17
Nickel	231.60	2.0	40.0	2.0	U	1	ICPST	12/8/00	18:44
Potassium	766.49	19.5	5000	315	B	1	ICPST	12/8/00	18:44
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	18:44
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	18:44
Sodium	330.23	244	5000	8720		1	ICPST	12/8/00	18:44
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	18:44
Vanadium	292.40	0.76	50.0	5.0	B	1	ICPST	12/8/00	18:44
Zinc	213.86	1.2	1000	10.3	B	1	ICPST	12/8/00	18:44

Comments: Lot #: A0L010227 Sample #: 3

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNOM Client ID: MPT-G4-SU36-05
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminium	308.22	19.9	200	1490		1	ICPST	12/8/00	19:41
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	19:41
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	19:41
Barium	493.41	0.15	10000	10.9	B	1	ICPST	12/8/00	19:41
Beryllium	313.04	0.080	5.0	0.15	B	1	ICPST	12/8/00	19:41
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	19:41
Calcium	317.93	7.7	5000	13900		1	ICPST	12/8/00	19:41
Chromium	267.72	1.1	500	4.1	B	1	ICPST	12/8/00	19:41
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	19:41
Copper	324.75	1.3	1000	3.7	B	1	ICPST	12/8/00	19:41
Iron	271.44	16.0	100	1230		1	ICPST	12/8/00	19:41
Lead	220.35	1.9	3.0	2.5	B	1	ICPST	12/8/00	19:41
Magnesium	279.08	14.2	5000	430	B	1	ICPST	12/8/00	19:41
Manganese	257.61	0.15	15.0	8.4	B	1	ICPST	12/8/00	19:41
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:32
Nickel	231.60	2.0	40.0	2.4	B	1	ICPST	12/8/00	19:41
Potassium	766.49	19.5	5000	339	B	1	ICPST	12/8/00	19:41
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	19:41
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	19:41
Sodium	330.23	244	5000	9610		1	ICPST	12/8/00	19:41
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	19:41
Vanadium	292.40	0.76	50.0	6.6	B	1	ICPST	12/8/00	19:41
Zinc	213.86	1.2	1000	17.5	B	1	ICPST	12/8/00	19:41

Comments: Lot #: A0L010227 Sample #: 10

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQN0E Client ID: MPT-G4-SU43-04
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	828		1	ICPST	12/8/00	19:36
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	19:36
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	19:36
Barium	493.41	0.15	10000	5.8	B	1	ICPST	12/8/00	19:36
Beryllium	313.04	0.080	5.0	0.16	B	1	ICPST	12/8/00	19:36
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	19:36
Calcium	317.93	7.7	5000	7710		1	ICPST	12/8/00	19:36
Chromium	267.72	1.1	500	2.1	B	1	ICPST	12/8/00	19:36
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	19:36
Copper	324.75	1.3	1000	2.0	B	1	ICPST	12/8/00	19:36
Iron	271.44	16.0	100	592		1	ICPST	12/8/00	19:36
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	19:36
Magnesium	279.08	14.2	5000	307	B	1	ICPST	12/8/00	19:36
Manganese	257.61	0.15	15.0	5.6	B	1	ICPST	12/8/00	19:36
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:31
Nickel	231.60	2.0	40.0	2.4	B	1	ICPST	12/8/00	19:36
Potassium	766.49	19.5	5000	281	B	1	ICPST	12/8/00	19:36
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	19:36
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	19:36
Sodium	330.23	244	5000	6780		1	ICPST	12/8/00	19:36
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	19:36
Vanadium	292.40	0.76	50.0	8.0	B	1	ICPST	12/8/00	19:36
Zinc	213.86	1.2	1000	8.5	B	1	ICPST	12/8/00	19:36

Comments: Lot #: AOL010227 Sample #: 9

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DQNXC Client ID: MPT-G4-SU45-04
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	19.9	200	1160		1	ICPST	12/8/00	18:39
Antimony	206.84	3.1	300	3.1	UN	1	ICPST	12/8/00	18:39
Arsenic	189.04	3.2	10.0	3.2	U	1	ICPST	12/8/00	18:39
Barium	493.41	0.15	10000	7.0	B	1	ICPST	12/8/00	18:39
Beryllium	313.04	0.080	5.0	0.11	B	1	ICPST	12/8/00	18:39
Cadmium	226.50	0.25	100	0.25	U	1	ICPST	12/8/00	18:39
Calcium	317.93	7.7	5000	13400		1	ICPST	12/8/00	18:39
Chromium	267.72	1.1	500	2.7	B	1	ICPST	12/8/00	18:39
Cobalt	228.62	0.83	50.0	0.83	U	1	ICPST	12/8/00	18:39
Copper	324.75	1.3	1000	2.7	B	1	ICPST	12/8/00	18:39
Iron	271.44	16.0	100	998		1	ICPST	12/8/00	18:39
Lead	220.35	1.9	3.0	1.9	U	1	ICPST	12/8/00	18:39
Magnesium	279.08	14.2	5000	1510	B	1	ICPST	12/8/00	18:39
Manganese	257.61	0.15	15.0	4.5	B	1	ICPST	12/8/00	18:39
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:16
Nickel	231.60	2.0	40.0	2.7	B	1	ICPST	12/8/00	18:39
Potassium	766.49	19.5	5000	396	B	1	ICPST	12/8/00	18:39
Selenium	196.03	4.0	5.0	4.0	U	1	ICPST	12/8/00	18:39
Silver	328.07	1.1	500	1.1	U	1	ICPST	12/8/00	18:39
Sodium	330.23	244	5000	18900		1	ICPST	12/8/00	18:39
Thallium	190.86	6.8	20.0	6.8	U	1	ICPST	12/8/00	18:39
Vanadium	292.40	0.76	50.0	7.1	B	1	ICPST	12/8/00	18:39
Zinc	213.86	1.2	1000	10.1	B	1	ICPST	12/8/00	18:39

Comments: Lot #: A0L010227 Sample #: 2

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

APPENDIX C
SUPPORT DOCUMENTATION



PROJECT NO: NO123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER Terry Hansen			LABORATORY NAME AND CONTACT: SciQuanta		
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson			ADDRESS 4101 Shuffel Dr NW			CITY, STATE N Canton, OH	
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CONTAINER TYPE PLASTIC (P) or GLASS (G)			PRESERVATIVE USED			TYPE OF ANALYSIS SLP	
DATE YEAR 2000		CARRIER/WAYBILL NUMBER Fed Ex			No. OF CONTAINERS 6				
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS			COMMENTS
11-27	1237	MPT-G4-SU17-08	Soil	G	1	X			Cool to 4°C
11-27	1420	MPT-G4-SU45-04			1	X			
11-27	1130	MPT-G4-SU26-05			1	X			
11-27	1419	MPT-G4-SU15-08 ⁽¹⁰⁾ SU23-08			1	X			
11-27	1514	MPT-G4-SU21-07			1	X			
11-28	1251	MPT-G4-SU24-08			1	X			
11-28	1103	MPT-G4-SU22-08			1	X			
11-28	0822	MPT-G4-SU15-08			1	X			
11-29	1525	MPT-G4-SU43-04	↓	↓	1	X			
11-29	1330	MPT-G4-SU36-05	↓	↓	1	X			
1. RELINQUISHED BY 			DATE 11-29-00	TIME 1700	1. RECEIVED BY			DATE	TIME
2. RELINQUISHED BY			DATE	TIME	2. RECEIVED BY 			DATE 11-30-00	TIME 9:10 AM
3. RELINQUISHED BY			DATE	TIME	3. RECEIVED BY			DATE	TIME
COMMENTS									

MP031

HOLDING TIME

01/12/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-SU15-08	A0L010227008	NORMAL	MP031	SPLPH	11/29/00	12/07/00	12/07/00	8	0	8
UG/L	MPT-G4-SU17-08	A0L010227001	NORMAL	MP031	SPLPH	11/27/00	12/07/00	12/07/00	10	0	10
UG/L	MPT-G4-SU21-07	A0L010227005	NORMAL	MP031	SPLPH	11/27/00	12/07/00	12/07/00	10	0	10
UG/L	MPT-G4-SU22-08	A0L010227007	NORMAL	MP031	SPLPH	11/28/00	12/07/00	12/07/00	9	0	9
UG/L	MPT-G4-SU23-08	A0L010227004	NORMAL	MP031	SPLPH	11/27/00	12/07/00	12/07/00	10	0	10
UG/L	MPT-G4-SU24-08	A0L010227006	NORMAL	MP031	SPLPH	11/28/00	12/07/00	12/07/00	9	0	9
UG/L	MPT-G4-SU26-05	A0L010227003	NORMAL	MP031	SPLPH	11/27/00	12/07/00	12/07/00	10	0	10
UG/L	MPT-G4-SU36-05	A0L010227010	NORMAL	MP031	SPLPH	11/29/00	12/07/00	12/07/00	8	0	8
UG/L	MPT-G4-SU43-04	A0L010227009	NORMAL	MP031	SPLPH	11/29/00	12/07/00	12/07/00	8	0	8
UG/L	MPT-G4-SU45-04	A0L010227002	NORMAL	MP031	SPLPH	11/29/00	12/07/00	12/07/00	8	0	8
UG/L	MPT-G4-SU15-08	A0L010227008	NORMAL	MP031	SPLPM	11/29/00	12/07/00	12/08/00	8	1	9
UG/L	MPT-G4-SU17-08	A0L010227001	NORMAL	MP031	SPLPM	11/27/00	12/07/00	12/08/00	10	1	11
UG/L	MPT-G4-SU21-07	A0L010227005	NORMAL	MP031	SPLPM	11/27/00	12/07/00	12/08/00	10	1	11
UG/L	MPT-G4-SU22-08	A0L010227007	NORMAL	MP031	SPLPM	11/28/00	12/07/00	12/08/00	9	1	10
UG/L	MPT-G4-SU23-08	A0L010227004	NORMAL	MP031	SPLPM	11/27/00	12/07/00	12/08/00	10	1	11
UG/L	MPT-G4-SU24-08	A0L010227006	NORMAL	MP031	SPLPM	11/28/00	12/07/00	12/08/00	9	1	10
UG/L	MPT-G4-SU26-05	A0L010227003	NORMAL	MP031	SPLPM	11/27/00	12/07/00	12/08/00	10	1	11
UG/L	MPT-G4-SU36-05	A0L010227010	NORMAL	MP031	SPLPM	11/29/00	12/07/00	12/08/00	8	1	9
UG/L	MPT-G4-SU43-04	A0L010227009	NORMAL	MP031	SPLPM	11/29/00	12/07/00	12/08/00	8	1	9
UG/L	MPT-G4-SU45-04	A0L010227002	NORMAL	MP031	SPLPM	11/29/00	12/07/00	12/08/00	8	1	9

SDG NARRATIVE

MP031

The following report contains the analytical results for ten solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV Site, project number N0123. The samples were received November 30, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The cooler was received at the laboratory at a temperature of 1.5° C.

Sample TRIP BLANK was received at the laboratory but not listed on the chain-of-custody. Sample was archived.

SDG NARRATIVE

MP031

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

ANALYTICAL METHODS SUMMARY

AOL010227

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A0L010227

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DQNWA	001	MPT-G4-SU17-08	11/27/00	12:37
DQNXC	002	MPT-G4-SU45-04	11/29/00	14:20
DQNXG	003	MPT-G4-SU26-05	11/27/00	11:30
DQNXL	004	MPT-G4-SU23-08	11/27/00	14:19
DQNXW	005	MPT-G4-SU21-07	11/27/00	15:14
DQNX2	006	MPT-G4-SU24-08	11/28/00	12:51
DQNX9	007	MPT-G4-SU22-08	11/28/00	11:03
DQNOA	008	MPT-G4-SU15-08	11/29/00	08:22
DQNOE	009	MPT-G4-SU43-04	11/29/00	15:25
DQNOM	010	MPT-G4-SU36-05	11/29/00	13:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11207b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 12/7/00 1:34 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i51208a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 12/8/00 10:07 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	19.9	U								
Antimony	206.838	300	3.1	U								
Arsenic	189.042	10	3.2	U								
Barium	493.409	10000	0.6	B								
Beryllium	313.042	5	0.5	B								
Cadmium	226.502	100	0.3	U								
Calcium	317.933	5000	18.4	B								
Chromium	267.716	500	1.1	U								
Cobalt	228.616	50	0.8	U								
Copper	324.753	1000	1.3	U								
Iron	271.441	100	16.0	U								
Lead	220.353	3	1.9	U								
Magnesium	279.078	5000	18.4	B								
Manganese	257.61	15	0.6	B								
Nickel	231.604	40	2.0	U								
Potassium	766.491	5000	234.0	B								
Selenium	196.026	5	4.0	U								
Silver	328.068	500	1.1	U								
Sodium	330.232	5000	244.0	U								
Thallium	190.864	20	6.8	U								
Vanadium	292.402	50	0.8	U								
Zinc	213.856	1000	1.2	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg11207b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 12/7/00 1:38 PM		Ck1CCB 12/7/00 1:53 PM		Ck1CCB 12/7/00 2:08 PM		Ck1CCB 12/7/00 2:25 PM		Ck1CCB 12/7/00 2:41 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	2	0.1	U	0.1	U	-0.1	B	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i51208a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/8/00 10:34 AM		CCB 12/8/00 12:08 PM		CCB 12/8/00 1:09 PM		CCB 12/8/00 2:13 PM		CCB 12/8/00 3:16 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	46.2	B	19.9	U	19.9	U	19.9	U	26.0	B
Antimony	206.838	300	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	3.2	U	3.2	U	-4.1	B	-3.7	B	3.2	U
Barium	493.409	10000	0.5	B	0.5	B	0.6	B	0.3	B	0.5	B
Beryllium	313.042	5	0.4	B	0.5	B	0.5	B	0.4	B	0.4	B
Cadmium	226.502	100	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	45.2	B	26.2	B	26.2	B	8.0	B	9.3	B
Chromium	267.716	500	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Cobalt	228.616	50	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Copper	324.753	1000	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Iron	271.441	100	32.6	B	16.0	U	16.0	U	16.0	U	42.7	B
Lead	220.353	3	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Magnesium	279.078	5000	48.8	B	15.9	B	14.2	U	14.2	U	14.2	U
Manganese	257.61	15	0.6	B	0.7	B	0.6	B	0.4	B	1.0	B
Nickel	231.604	40	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Potassium	766.491	5000	219.0	B	220.0	B	217.0	B	219.0	B	217.0	B
Selenium	196.026	5	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Silver	328.068	500	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Sodium	330.232	5000	244.0	U	244.0	U	244.0	U	244.0	U	244.0	U
Thallium	190.864	20	6.8	U	6.8	U	6.8	U	6.8	U	6.8	U
Vanadium	292.402	50	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Zinc	213.856	1000	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U

Version 4.10.5

U Result is less than the IDL
 B Result is between IDL and RL

Form 3 Equivalent

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i51208a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 12/8/00 4:20 PM		CCB 12/8/00 5:21 PM		CCB 12/8/00 6:24 PM		CCB 12/8/00 7:26 PM		CCB 12/8/00 7:53 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	22.0	B	36.0	B	19.9	U	19.9	U	19.9	U
Antimony	206.838	300	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	3.2	U	3.2	U	-3.7	B	3.2	U	3.2	U
Barium	493.409	10000	0.8	B	0.5	B	-0.3	B	0.6	B	0.5	B
Beryllium	313.042	5	0.5	B	0.5	B	0.3	B	0.5	B	0.5	B
Cadmium	226.502	100	0.3	U	0.3	U	-0.8	B	0.3	U	0.3	U
Calcium	317.933	5000	13.5	B	12.6	B	13.2	B	10.0	B	11.6	B
Chromium	267.716	500	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Cobalt	228.616	50	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Copper	324.753	1000	1.3	U	1.3	U	-4.0	B	1.3	U	1.3	U
Iron	271.441	100	30.7	B	30.1	B	16.0	U	16.0	U	18.8	B
Lead	220.353	3	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Magnesium	279.078	5000	15.5	B	16.9	B	14.2	U	14.2	U	14.2	U
Manganese	257.61	15	0.9	B	0.8	B	0.5	B	0.5	B	0.6	B
Nickel	231.604	40	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Potassium	766.491	5000	218.0	B	223.0	B	218.0	B	208.0	B	217.0	B
Selenium	196.026	5	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Silver	328.068	500	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Sodium	330.232	5000	244.0	U	244.0	U	-250.0	B	-300.0	B	244.0	U
Thallium	190.864	20	6.8	U	6.8	U	-14.0	B	6.8	U	6.8	U
Vanadium	292.402	50	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Zinc	213.856	1000	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DQ0Q9B

Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	19.9	200	26.3	B	1	ICPST	12/8/00	18:07
Antimony	206.838	3.1	300	3.1	U	1	ICPST	12/8/00	18:07
Arsenic	189.042	3.2	10.0	3.2	U	1	ICPST	12/8/00	18:07
Barium	493.409	0.15	10000	0.15	U	1	ICPST	12/8/00	18:07
Beryllium	313.042	0.080	5.0	0.080	U	1	ICPST	12/8/00	18:07
Cadmium	226.502	0.25	100	0.25	U	1	ICPST	12/8/00	18:07
Calcium	317.933	7.7	5000	75.2	B	1	ICPST	12/8/00	18:07
Chromium	267.716	1.1	500	1.2	B	1	ICPST	12/8/00	18:07
Cobalt	228.616	0.83	50.0	0.83	U	1	ICPST	12/8/00	18:07
Copper	324.753	1.3	1000	1.3	U	1	ICPST	12/8/00	18:07
Iron	271.441	16.0	100	33.2	B	1	ICPST	12/8/00	18:07
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	12/8/00	18:07
Magnesium	279.078	14.2	5000	14.2	U	1	ICPST	12/8/00	18:07
Manganese	257.61	0.15	15.0	1.0	B	1	ICPST	12/8/00	18:07
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:11
Nickel	231.604	2.0	40.0	2.0	U	1	ICPST	12/8/00	18:07
Potassium	766.491	19.5	5000	212	B	1	ICPST	12/8/00	18:07
Selenium	196.026	4.0	5.0	4.0	U	1	ICPST	12/8/00	18:07
Silver	328.068	1.1	500	1.1	U	1	ICPST	12/8/00	18:07
Sodium	330.232	244	5000	244	U	1	ICPST	12/8/00	18:07
Thallium	190.864	6.8	20.0	6.8	U	1	ICPST	12/8/00	18:07
Vanadium	292.402	0.76	50.0	0.76	U	1	ICPST	12/8/00	18:07
Zinc	213.856	1.2	1000	5.1	B	1	ICPST	12/8/00	18:07

Comments: Lot #: A0L010227

Version 4.10.5

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DQT51B

Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	19.9	200	126	B	1	ICPST	12/8/00	18:02
Antimony	206.838	3.1	300	3.1	U	1	ICPST	12/8/00	18:02
Arsenic	189.042	3.2	10.0	3.2	U	1	ICPST	12/8/00	18:02
Barium	493.409	0.15	10000	1.7	B	1	ICPST	12/8/00	18:02
Beryllium	313.042	0.080	5.0	0.080	U	1	ICPST	12/8/00	18:02
Cadmium	226.502	0.25	100	0.25	U	1	ICPST	12/8/00	18:02
Calcium	317.933	7.7	5000	336	B	1	ICPST	12/8/00	18:02
Chromium	267.716	1.1	500	1.3	B	1	ICPST	12/8/00	18:02
Cobalt	228.616	0.83	50.0	5.6	B	1	ICPST	12/8/00	18:02
Copper	324.753	1.3	1000	6.4	B	1	ICPST	12/8/00	18:02
Iron	271.441	16.0	100	125		1	ICPST	12/8/00	18:02
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	12/8/00	18:02
Magnesium	279.078	14.2	5000	71.3	B	1	ICPST	12/8/00	18:02
Manganese	257.61	0.15	15.0	11.7	B	1	ICPST	12/8/00	18:02
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	12/7/00	14:14
Nickel	231.604	2.0	40.0	80.2		1	ICPST	12/8/00	18:02
Potassium	766.491	19.5	5000	361	B	1	ICPST	12/8/00	18:02
Selenium	196.026	4.0	5.0	4.0	U	1	ICPST	12/8/00	18:02
Silver	328.068	1.1	500	1.1	U	1	ICPST	12/8/00	18:02
Sodium	330.232	244	5000	5560		1	ICPST	12/8/00	18:02
Thallium	190.864	6.8	20.0	6.8	U	1	ICPST	12/8/00	18:02
Vanadium	292.402	0.76	50.0	0.76	U	1	ICPST	12/8/00	18:02
Zinc	213.856	1.2	1000	38.9	B	1	ICPST	12/8/00	18:02

Comments: Lot #: AOL010227

Version 4.10.5

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DQNXLS
 Original Sample ID: DQNXL Client ID: MPT-G4-SU23-08S
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	949		2900		2000	97.5	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Antimony	206.8	3.1	U	236	B N	500	47.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Arsenic	189.0	3.2	U	4860		5000	97.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Barium	493.4	2.9	B	48500	B	50000	97.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Beryllium	313.0	0.080	U	53.3		50	106.7	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Cadmium	226.5	0.25	U	981		1000	98.1	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Calcium	317.9	44400		89900		50000	91.1	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Chromium	267.7	2.0	B	4980		5000	99.5	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Cobalt	228.6	0.83	U	465		500	93.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Copper	324.8	1.3	U	254	B	250	101.8	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Iron	271.4	39.3	B	1100		1000	105.6	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Lead	220.4	1.9	U	4930		5000	98.6	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Magnesium	279.1	37.7	B	46700		50000	93.4	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Manganese	257.6	0.53	B	547		500	109.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Mercury	253.7	0.10	U	4.2		5	84.3	1	1	CVAA	12/7/00	14:19	12/7/00	14:21
Nickel	231.6	2.0	U	520		500	104.1	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Potassium	766.5	852	B	51800		50000	101.9	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Selenium	196.0	4.0	U	984		1000	98.4	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Silver	328.1	1.1	U	969	B	1000	96.9	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Sodium	330.2	1250	B	51100		50000	99.8	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Thallium	190.9	6.8	U	2060		2000	103.1	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Vanadium	292.4	8.8	B	509		500	100.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:54
Zinc	213.9	4.5	B	557	B	500	110.6	1	5	ICPST	12/8/00	18:49	12/8/00	18:54

Comments: Lot #: A0L010227 Sample #: 4

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DQNXLD
 Original Sample ID: DQNXL Client ID: MPT-G4-SU23-08D
 Matrix: TCLP Units: ug/L Prep Date: 12/7/00 Prep Batch: 0342101
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	949		2940		2000	99.7	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Antimony	206.8	3.1	UN	244	B N	500	48.8	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Arsenic	189.0	3.2	U	4850		5000	97.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Barium	493.4	2.9	B	49100	B	50000	98.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Beryllium	313.0	0.080	U	54.0		50	108.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Cadmium	226.5	0.25	U	987		1000	98.7	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Calcium	317.9	44400		92500		50000	96.3	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Chromium	267.7	2.0	B	5030		5000	100.6	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Cobalt	228.6	0.83	U	472		500	94.4	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Copper	324.8	1.3	U	256	B	250	102.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Iron	271.4	39.3	B	1110		1000	106.8	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Lead	220.4	1.9	U	4950		5000	99.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Magnesium	279.1	37.7	B	47300		50000	94.6	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Manganese	257.6	0.53	B	551		500	110.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Mercury	253.7	0.10	U	4.2		5	83.9	1	1	CVAA	12/7/00	14:19	12/7/00	14:22
Nickel	231.6	2.0	U	521		500	104.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Potassium	766.5	852	B	52900		50000	104.0	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Selenium	196.0	4.0	U	979		1000	97.9	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Silver	328.1	1.1	U	975	B	1000	97.5	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Sodium	330.2	1250	B	52400		50000	102.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Thallium	190.9	6.8	U	2060		2000	102.8	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Vanadium	292.4	8.8	B	516		500	101.4	1	5	ICPST	12/8/00	18:49	12/8/00	18:59
Zinc	213.9	4.5	B	560	B	500	111.2	1	5	ICPST	12/8/00	18:49	12/8/00	18:59

Comments: Lot #: AOL010227 Sample #: 4

Version 4.10.5

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form SA Equivalent

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	2	0.10	10/12/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	19.9	9/8/00
Antimony	206.84	300	3.1	9/8/00
Arsenic	189.04	10	3.2	9/8/00
Barium	493.41	10000	0.15	9/8/00
Beryllium	313.04	5	0.080	9/8/00
Cadmium	226.50	100	0.25	9/8/00
Calcium	317.93	5000	7.7	9/8/00
Chromium	267.72	500	1.1	9/8/00
Cobalt	228.62	50	0.83	9/8/00
Copper	324.75	1000	1.3	9/8/00
Iron	271.44	100	16.0	9/8/00
Lead	220.35	3	1.9	9/8/00
Magnesium	279.08	5000	14.2	9/8/00
Manganese	257.61	15	0.15	9/8/00
Nickel	231.60	40	2.0	9/8/00
Potassium	766.49	5000	19.5	9/8/00
Selenium	196.03	5	4.0	9/8/00
Silver	328.07	500	1.1	9/8/00
Sodium	330.23	5000	244	9/8/00
Thallium	190.86	20	6.8	9/8/00
Vanadium	292.40	50	0.76	9/8/00
Zinc	213.86	1000	1.2	9/8/00

BATCH NUMBER: 0342101

PREP DATE: 12/07/00
DUE DATE 12/18/00

INITIALS: Lpm/kuc

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A0L010227	DQXWA	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQXNC	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQXNG	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQXNL	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
	DQXLS		_____g	_____g	_____g	_____g
	DQXLD		_____g	_____g	_____g	_____g
A0L010227	DQXW	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQX2	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQX9	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQXA	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQXE	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L010227	DQXM	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		12/18/00			
A0L050000	DQT51B	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
A0L070000	DQO9B	01	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DQO9C		_____g	_____g	_____g	_____g

BATCH NUMBER: 0342101

PREP DATE: 12/07/00
DUE DATE 12/18/00

INITIALS: Lpm/ku

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH
MS/MSD AND PDS ON BATCH
CURVE PREPPED FOR HG
CORRECT SPIKES ADDED
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: ICP are TOTAL prep.
B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLIN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY ML

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CA CD CO CR CU FE KX MG MN NA NI PB SB SE TL VX ZN

MS/MSD 1:	ICP - 1	<u>ICP - 2A</u>	GFAA	<u>HG</u>	ODD	1/2 RCRA US 1E-0750
	<u>DQNXL</u>					
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD	1 non-RCRA US 1E-0056
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD	
CHECK :	<u>ICP - 1</u>	<u>ICP - 2A</u>	GFAA	<u>HG</u>	ODD	<u>Ag</u>
	<u>DQ009</u>					
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD	
STANDARD NUMBERS	<u>041277</u>	<u>0K1241</u>	_____	<u>041291</u>	_____	<u>0K1233</u>

Analysis Run Log

Instrument Upload
 Started Mon Dec 11 14:17:08 2000 by WILLIAML
 Data File: UPL\$CAN_DATA_ROOT:<TJA>I51208A.ARC;1

Run Log - Page 1 :

ICP-15

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1	1	08-DEC-2000	09:49:00			I5
2	CALSTD	1	08-DEC-2000	09:54:00			I5
3	CAL	1	08-DEC-2000	09:58:00			I5
4	ICV	1	08-DEC-2000	10:02:00			I5
5	ICB	1	08-DEC-2000	10:07:00			I5
6	CRI	1	08-DEC-2000	10:12:00			I5
7	ICSA	1	08-DEC-2000	10:18:00			I5
8	ICSAB	1	08-DEC-2000	10:22:00			I5
9	CCV	1	08-DEC-2000	10:29:00			I5
10	CCB	1	08-DEC-2000	10:34:00			I5
11	DQMTX	1	08-DEC-2000	11:10:00			I5
12	DQORGB	1	08-DEC-2000	11:17:00	0342105	AOL070000	I5
13	DQORGC	1	08-DEC-2000	11:21:00	0342105	AOL070000	I5
14	DQN3W	1	08-DEC-2000	11:27:00	0342105	AOL010255	I5
15	DQN3WL	1	08-DEC-2000	11:32:00			I5
16	DQWRM	1	08-DEC-2000	11:37:00	0342105	AOL010255	I5
17	DQW55F	1	08-DEC-2000	11:42:00	0342105	AOL060201	I5
18	DQW6AF	1	08-DEC-2000	11:47:00	0342105	AOL060201	I5
19	DQW6FF	1	08-DEC-2000	11:52:00	0342105	AOL060201	I5
20	DQW6MF	1	08-DEC-2000	11:57:00	0342105	AOL060201	I5
21	CCV	1	08-DEC-2000	12:03:00			I5
22	CCB	1	08-DEC-2000	12:08:00			I5
23	DQW6NF	1	08-DEC-2000	12:13:00	0342105	AOL060201	I5
24	DQW6PF	1	08-DEC-2000	12:18:00	0342105	AOL060201	I5
25	DQW6QF	1	08-DEC-2000	12:23:00	0342105	AOL060201	I5
26	DQW6RF	1	08-DEC-2000	12:28:00	0342105	AOL060201	I5
27	DQW6TF	1	08-DEC-2000	12:33:00	0342105	AOL060201	I5
28	DQW6VF	1	08-DEC-2000	12:38:00	0342105	AOL060201	I5
29	DQW6WF	1	08-DEC-2000	12:43:00	0342105	AOL060201	I5
30	DQW6XF	1	08-DEC-2000	12:48:00	0342105	AOL060201	I5
31	DQW60F	1	08-DEC-2000	12:53:00	0342105	AOL060201	I5
32	DQWN3	1	08-DEC-2000	12:58:00	0342105	AOL060135	I5
33	CCV	1	08-DEC-2000	13:04:00			I5
34	CCB	1	08-DEC-2000	13:09:00			I5
35	DQWTK	1	08-DEC-2000	13:14:00	0342105	AOL060150	I5
36	DQWTKS	1	08-DEC-2000	13:19:00	0342105	AOL060150	I5
37	DQWTKD	1	08-DEC-2000	13:24:00	0342105	AOL060150	I5
38	DQWTX	1	08-DEC-2000	13:30:00	0342105	AOL060150	I5
39	DQWT1	1	08-DEC-2000	13:35:00	0342105	AOL060150	I5
40	DQWT2	1	08-DEC-2000	13:40:00	0342105	AOL060150	I5
41	DQWATB	1	08-DEC-2000	13:46:00	0341110	AOL060000	I5
42	DQWATC	1	08-DEC-2000	13:50:00	0341110	AOL060000	I5
43	DQRN4	1	08-DEC-2000	13:56:00	0341110	AOL040164	I5
44	DQRN4L	1	08-DEC-2000	14:01:00			I5

(continued)

Instrument Upload

Run Log - Page 2 :

Started Mon Dec 11 14:17:08 2000 by WILLIAML

Data File: UPL\$CAN_DATA_ROOT:<TJA>I51208A.ARC;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	CCV	1	08-DEC-2000	14:07:00			I5
46	CCB	1	08-DEC-2000	14:13:00			I5
47	DQRN4S	1	08-DEC-2000	14:18:00	0341110	AOL040164	I5
48	DQRN4D	1	08-DEC-2000	14:23:00	0341110	AOL040164	I5
49	DQOR9B	1	08-DEC-2000	14:29:00	0342121	AOL070000	I5
50	DQOR9C	1	08-DEC-2000	14:33:00	0342121	AOL070000	I5
51	DQT7G	1	08-DEC-2000	14:39:00	0342121	AOL050184	I5
52	DQT7GL	1	08-DEC-2000	14:44:00			I5
53	DQT73	1	08-DEC-2000	14:49:00	0342121	AOL050184	I5
54	DQT74	1	08-DEC-2000	14:54:00	0342121	AOL050184	I5
55	DQT8D	1	08-DEC-2000	14:59:00	0342121	AOL050184	I5
56	DQT8E	1	08-DEC-2000	15:04:00	0342121	AOL050184	I5
57	CCV	1	08-DEC-2000	15:10:00			I5
58	CCB	1	08-DEC-2000	15:16:00			I5
59	DQT8F	1	08-DEC-2000	15:21:00	0342121	AOL050184	I5
60	DQT8FS	1	08-DEC-2000	15:25:00	0342121	AOL050184	I5
61	DQT8FD	1	08-DEC-2000	15:30:00	0342121	AOL050184	I5
62	DQT81	1	08-DEC-2000	15:36:00	0342121	AOL050184	I5
63	DQT82	1	08-DEC-2000	15:41:00	0342121	AOL050184	I5
64	DQT88	1	08-DEC-2000	15:46:00	0342121	AOL050184	I5
65	DQT89	1	08-DEC-2000	15:51:00	0342121	AOL050184	I5
66	DQOTCB	1	08-DEC-2000	15:57:00	0342122	AOL070000	I5
67	DQOTCC	1	08-DEC-2000	16:02:00	0342122	AOL070000	I5
68	DQXHC	1	08-DEC-2000	16:08:00	0342122	AOL060228	I5
69	CCV	1	08-DEC-2000	16:14:00			I5
70	CCB	1	08-DEC-2000	16:20:00			I5
71	DQXHCL	1	08-DEC-2000	16:24:00			I5
72	DQXHE	1	08-DEC-2000	16:29:00	0342122	AOL060228	I5
73	DQXHF	1	08-DEC-2000	16:34:00	0342122	AOL060228	I5
74	DQXHG	1	08-DEC-2000	16:39:00	0342122	AOL060228	I5
75	DQXHH	1	08-DEC-2000	16:44:00	0342122	AOL060228	I5
76	DQXHR	1	08-DEC-2000	16:49:00	0342122	AOL060228	I5
77	DQXHV	1	08-DEC-2000	16:54:00	0342122	AOL060228	I5
78	DQXHW	1	08-DEC-2000	16:59:00	0342122	AOL060228	I5
79	DQXHX	1	08-DEC-2000	17:04:00	0342122	AOL060228	I5
80	DQXHO	1	08-DEC-2000	17:09:00	0342122	AOL060228	I5
81	CCV	1	08-DEC-2000	17:15:00			I5
82	CCB	1	08-DEC-2000	17:21:00			I5
83	DQXH1	1	08-DEC-2000	17:26:00	0342122	AOL060228	I5
84	DQXH1S	1	08-DEC-2000	17:30:00	0342122	AOL060228	I5
85	DQXH1D	1	08-DEC-2000	17:35:00	0342122	AOL060228	I5
86	DQAOE	1	08-DEC-2000	17:41:00	0333102	AOK220163	I5
87	DQKAX	5	08-DEC-2000	17:47:00	0340098	COK300138	I5
88	DQKA2	5	08-DEC-2000	17:52:00	0340098	COK300138	I5

(continued)

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: Instrument Upload                               Run Log - Page 3 :
: Started Mon Dec 11 14:17:09 2000 by WILLIAML :
: Data File: UPL$CAN_DATA_ROOT:<TJA>I51208A.ARC;1 :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	DQKCX	100	08-DEC-2000	17:57:00	0340098	COK300138	I5
90	DQT51BE	1	08-DEC-2000	18:02:00	0342101	AOL050000	I5
91	DQOQ9BE	1	08-DEC-2000	18:07:00	0342101	AOL070000	I5
92	DQOQ9CE	1	08-DEC-2000	18:12:00	0342101	AOL070000	I5
93	CCV	1	08-DEC-2000	18:18:00			I5
94	CCB	1	08-DEC-2000	18:24:00			I5
95	DQNWAE	1	08-DEC-2000	18:29:00	0342101	MP031	I5
96	DQNWAE	1	08-DEC-2000	18:34:00			I5
97	DQNXCE	1	08-DEC-2000	18:39:00	0342101	MP031	I5
98	DQNXGE	1	08-DEC-2000	18:44:00	0342101	MP031	I5
99	DQNXLE	1	08-DEC-2000	18:49:00	0342101	MP031	I5
100	DQNXLES	5	08-DEC-2000	18:54:00	0342101	MP031	I5
101	DQNXLED	5	08-DEC-2000	18:59:00	0342101	MP031	I5
102	DQNXWE	1	08-DEC-2000	19:04:00	0342101	MP031	I5
103	DQNX2E	1	08-DEC-2000	19:09:00	0342101	MP031	I5
104	DQNX9E	1	08-DEC-2000	19:14:00	0342101	MP031	I5
105	CCV	1	08-DEC-2000	19:20:00			I5
106	CCB	1	08-DEC-2000	19:26:00			I5
107	DQNOAE	1	08-DEC-2000	19:31:00	0342101	MP031	I5
108	DQNOEE	1	08-DEC-2000	19:36:00	0342101	MP031	I5
109	DQNOME	1	08-DEC-2000	19:41:00	0342101	MP031	I5
110	CCV	1	08-DEC-2000	19:47:00			I5
111	CCB	1	08-DEC-2000	19:53:00			I5

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: End of Report :
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```

CWAH Hg-M
Analysis Run Log

 : Instrument Upload Run Log - Page 1 :
 : Started Fri Dec 8 06:25:28 2000 by COUNTSK :
 : Data File: UPL\$CAN_DATA_ROOT:<LHG>HG11207B.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	07-DEC-2000	13:23:49			H1
2	STD2REP1	1	07-DEC-2000	13:24:58			H1
3	STD3REP1	1	07-DEC-2000	13:26:25			H1
4	STD4REP1	1	07-DEC-2000	13:27:35			H1
5	STD5REP1	1	07-DEC-2000	13:29:10			H1
6	STD6REP1	1	07-DEC-2000	13:30:20			H1
7	CK5ICV	1	07-DEC-2000	13:33:25			H1
8	CK4ICB	1	07-DEC-2000	13:34:35			H1
9	CK3CRA	1	07-DEC-2000	13:35:42			H1
10	CK2CCV	1	07-DEC-2000	13:36:46			H1
11	CK1CCB	1	07-DEC-2000	13:38:25			H1
12	DQOQ5BT	1	07-DEC-2000	13:39:42	0342099	AOL070000	H1
13	DQOQ5CT	1	07-DEC-2000	13:41:06	0342099	AOL070000	H1
14	DQXACBT	1	07-DEC-2000	13:42:21	0342099	AOL060000	H1
15	DQWMAT	1	07-DEC-2000	13:43:30	0342099	AOL060131	H1
16	DQWMATS	1	07-DEC-2000	13:44:39	0342099	AOL060131	H1
17	DQWMATD	1	07-DEC-2000	13:45:46	0342099	AOL060131	H1
18	DQORGB	1	07-DEC-2000	13:46:51	0342105	AOL070000	H1
19	DQORGC	1	07-DEC-2000	13:47:58	0342105	AOL070000	H1
20	DQN3W	1	07-DEC-2000	13:49:36	0342105	AOL010255	H1
21	DQWRM	1	07-DEC-2000	13:50:58	0342105	AOL010255	H1
22	CK2CCV	1	07-DEC-2000	13:52:24			H1
23	CK1CCB	1	07-DEC-2000	13:53:29			H1
24	DQWTK	1	07-DEC-2000	13:54:34	0342105	AOL060150	H1
25	DQWTKS	1	07-DEC-2000	13:55:52	0342105	AOL060150	H1
26	DQWTKD	1	07-DEC-2000	13:56:57	0342105	AOL060150	H1
27	DQWTX	1	07-DEC-2000	13:58:55	0342105	AOL060150	H1
28	DQWT1	1	07-DEC-2000	14:00:30	0342105	AOL060150	H1
29	DQWT2	1	07-DEC-2000	14:01:56	0342105	AOL060150	H1
30	DQORRB	1	07-DEC-2000	14:03:12	0342111	AOL070000	H1
31	DQORRC	1	07-DEC-2000	14:04:17	0342111	AOL070000	H1
32	DQXKL	1	07-DEC-2000	14:05:25	0342111	AOL060233	H1
33	DQXKLS	1	07-DEC-2000	14:06:35	0342111	AOL060233	H1
34	CK2CCV	1	07-DEC-2000	14:07:50			H1
35	CK1CCB	1	07-DEC-2000	14:08:55			H1
36	DQXKLD	1	07-DEC-2000	14:10:25	0342111	AOL060233	H1
37	DQOQ9BE	1	07-DEC-2000	14:11:34	0342101	AOL070000	H1
38	DQOQ9CE	1	07-DEC-2000	14:12:52	0342101	AOL070000	H1
39	DQT51BE	1	07-DEC-2000	14:14:01	0342101	AOL050000	H1
40	DQNWAE	1	07-DEC-2000	14:15:10	0342101	MP031	H1
41	DQNXCE	1	07-DEC-2000	14:16:20	0342101	MP031	H1
42	DQNXGE	1	07-DEC-2000	14:17:45	0342101	MP031	H1
43	DQNXLE	1	07-DEC-2000	14:19:52	0342101	MP031	H1
44	DQNXLES	1	07-DEC-2000	14:21:08	0342101	MP031	H1

----- (continued) -----

 : Instrument Upload Run Log - Page 2 :
 : Started Fri Dec 8 06:25:29 2000 by COUNTSK :
 : Data File: UPL\$CAN_DATA_ROOT:<LHG>HG11207B.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DQNXLED	1	07-DEC-2000	14:22:47	0342101	MP031	H1
46	CK2CCV	1	07-DEC-2000	14:24:07			H1
47	CK1CCB	1	07-DEC-2000	14:25:34			H1
48	DQNXWE	1	07-DEC-2000	14:26:39	0342101	MP031	H1
49	DQNX2E	1	07-DEC-2000	14:28:05	0342101	MP031	H1
50	DQNX9E	1	07-DEC-2000	14:29:33	0342101	MP031	H1
51	DQNOAE	1	07-DEC-2000	14:30:42	0342101	MP031	H1
52	DQNOBE	1	07-DEC-2000	14:31:47	0342101	MP031	H1
53	DQNOBE	1	07-DEC-2000	14:32:58	0342101	MP031	H1
54	DQ0Q7B	1	07-DEC-2000	14:34:37	0342100	AOL070000	H1
55	DQ0Q7C	1	07-DEC-2000	14:35:52	0342100	AOL070000	H1
56	DQXNH	1	07-DEC-2000	14:36:59	0342100	AOL060241	H1
57	DQWEE	1	07-DEC-2000	14:38:04	0342100	AOL060110	H1
58	CK2CCV	1	07-DEC-2000	14:39:24			H1
59	CK1CCB	1	07-DEC-2000	14:41:00			H1
60	DQWEEB	1	07-DEC-2000	14:43:29	0342100	AOL060110	H1
61	DQWEEB	1	07-DEC-2000	14:44:37	0342100	AOL060110	H1
62	DQWEEF	1	07-DEC-2000	14:45:44	0342100	AOL060110	H1
63	DQWFT	1	07-DEC-2000	14:46:51	0342100	AOL060110	H1
64	DQWTF	1	07-DEC-2000	14:48:37	0342100	AOL060110	H1
65	DQWF1	1	07-DEC-2000	14:50:25	0342100	AOL060110	H1
66	DQWFLF	1	07-DEC-2000	14:51:43	0342100	AOL060110	H1
67	DQWGW	1	07-DEC-2000	14:52:51	0342100	AOL060110	H1
68	DQWGW	1	07-DEC-2000	14:54:01	0342100	AOL060110	H1
69	DQWG2	1	07-DEC-2000	14:55:48	0342100	AOL060110	H1
70	CK2CCV	1	07-DEC-2000	14:57:25			H1
71	CK1CCB	1	07-DEC-2000	14:58:42			H1
72	DQW2F	1	07-DEC-2000	15:00:09	0342100	AOL060110	H1
73	DQ0REB	1	07-DEC-2000	15:01:20	0342104	AOL070000	H1
74	DQ0REC	1	07-DEC-2000	15:02:28	0342104	AOL070000	H1
75	DQXP0	1	07-DEC-2000	15:03:39	0342104	AOL060247	H1
76	DQXP0F	1	07-DEC-2000	15:04:58	0342104	AOL060247	H1
77	DQXQM	1	07-DEC-2000	15:06:05	0342104	AOL060247	H1
78	DQXQMF	1	07-DEC-2000	15:07:12	0342104	AOL060247	H1
79	DQXQT	1	07-DEC-2000	15:08:19	0342104	AOL060247	H1
80	DQXQTS	1	07-DEC-2000	15:09:35	0342104	AOL060247	H1
81	DQXQTD	1	07-DEC-2000	15:11:13	0342104	AOL060247	H1
82	CK2CCV	1	07-DEC-2000	15:12:44			H1
83	CK1CCB	1	07-DEC-2000	15:14:00			H1
84	DQXQTF	1	07-DEC-2000	15:15:29	0342104	AOL060247	H1
85	DQXQTFB	1	07-DEC-2000	15:16:47	0342104	AOL060247	H1
86	DQXQTFD	1	07-DEC-2000	15:18:35	0342104	AOL060247	H1
87	DQXQ6	1	07-DEC-2000	15:19:51	0342104	AOL060247	H1
88	DQXQ6F	1	07-DEC-2000	15:21:17	0342104	AOL060247	H1

*VOID
 ME
 12/20/00*

----- (continued) -----

Range	10.00	10.00	5000.00 ^{Pm}	20.00	5.0000	3.0000	5.0000
Elem	Sn	Ti	Tl ^{RL = 20ppb}	V	Zn	2203\1	2203\2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.411	-.6454	Q-14.370	.2665	-.8801	-.95031	.46202
SDev	3.670	2.7295	21.111	.5588	1.6431	6.72444	4.0164
%RSD	152.2	422.9	146.90	209.7	186.7	707.61	869.31
#1	5.006	1.285	.55717	.6616	.2817	-5.7052	3.3021
#2	-.1838	-2.575	Q-29.298	-.1286	-2.042	3.8046	-2.3780
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.00000	.0000	.0000		
Range	100.0	50.00	10.000	7.000	20.00		
Elem	1960\1	1960\2	2068\2	2068\1	Y_3710		
Units	ppb	ppb	ppb	ppb	ppb		
Avg	-1.9068	1.5598	.94017	-2.1849	5.0000		
SDev	6.1618	7.1046	5.6421	8.3092	.0000		
%RSD	323.15	455.49	600.12	380.31	.00000		
#1	-6.2638	6.5835	-3.0494	3.6906	5.0000		
#2	2.4503	-3.4640	4.9297	-8.0604	5.0000		
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK		
Value							
Range							
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	11596	--	--	--	--	--	--
SDev	19.23344	--	--	--	--	--	--
%RSD	.1658570	--	--	--	--	--	--
#1	11610	--	--	--	--	--	--
#2	11583	--	--	--	--	--	--

Method: TOTAL Sample Name: DQNWAE Operator: LRW

Run Time: 12/08/00 18:29:35

Comment:

Mode: CONC Corr. Factor: 1

MPT-GA-SU17-08

ELF 1701

Elem	Ag	Al	As	B	Ba	Be	Ca
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4926	4932.	1.8290	72.37	12.05	.1998	40010.
SDev	.5315	23.	.7120	.36	.06	.0013	147.
%RSD	107.9	.4762	38.927	.4950	.4989	.6701	.3667
#1	.1168	4949.	2.3324	72.62	12.09	.1988	39910.
#2	.8684	4916.	1.3256	72.12	12.01	.2007	40120.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2000.	500000.	10000.	20000.	25000.	4000.	600000.
Low	-1000.	-1000.	-1000.0	-1000.	-1000.	-1000.	-1000.

Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2143	.5240	5.889	2.726	569.9	376.0	741.3
SDev	.2311	.7283	.531	.236	3.5	11.5	6.7
%RSD	107.9	139.0	9.020	8.650	.6120	3.047	.9034
#1	-.3777	.0090	5.514	2.559	572.3	367.9	736.6
#2	-.0509	1.039	6.265	2.892	567.4	384.1	746.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	50000.	50000.	50000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-1000.
Elem	Mn	Mo	Na	Ni	Se	Pb	Sb
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.341	6.616	11760.	3.407	3.1886	-.49888	-.44976
SDev	.072	.657	7.	.651	1.1712	2.07594	.06391
%RSD	2.165	9.938	.0553	19.11	36.732	416.12	14.209
#1	3.392	6.151	11760.	2.947	4.0168	.96903	-.40457
#2	3.290	7.080	11750.	3.867	2.3604	-1.9668	-.49495
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30000.	50000.	600000.	50000.	10000.	15000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.0	-1000.0	-1000.0
Elem	Sn	Ti	Tl	V	Zn	2203\1	2203\2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.332	19.74	-.05797	35.88	8.878	-1.8399	.17061
SDev	.009	.65	4.52212	.06	.137	4.4946	5.3563
%RSD	.6787	3.285	7800.6	.1689	1.545	244.29	3139.5
#1	1.325	20.19	-3.2556	35.84	8.781	-5.0180	3.9581
#2	1.338	19.28	3.1397	35.92	8.975	1.3383	-3.6168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	8000.	50000.	20000.	50000.	10000.		
Low	-1000.	-1000.	-1000.0	-1000.	-1000.		
Elem	1960\1	1960\2	2068/2	2068/1	Y_3710		
Units	ppb	ppb	ppb	ppb	ppb		
Avg	-1.1435	5.3514	-.30363	-.52272	5.0000		
SDev	3.9255	.2038	.43753	.31425	.0000		
%RSD	343.29	3.8092	144.10	60.118	.00000		
#1	1.6323	5.2073	-.61300	-.30051	5.0000		
#2	-3.9193	5.4955	.00575	-.74493	5.0000		
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK		
High							
Low							
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--



Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: T. HANSEN DATE: FEBRUARY 21, 2001

FROM: ERIN M. FAUST COPIES: DV FILE

**SUBJECT: INORGANIC DATA VALIDATION –TAL METALS AND CYANIDE
CTO-091 NS MAYPORT
SAMPLE DELIVERY GROUP (SDG) – MP037**

SAMPLES: 14/Leachates/

MPT-G4-SU06-07	MPT-G4-SU28-05	MPT-G4-SU31-08
MPT-G4-SU32-07	MPT-G4-SU42-04	MPT-G4-SU44-04
MPT-G4-SU46-03	MPT-G4-SU47-02	MPT-G4-SU48-04
MPT-G4-SU49-03	MPT-G4-SU54-05	MPT-G4-SU56-05
MPT-G4-SU57-03	MPT-G4-SU65-05	

Overview

The sample set for CTO 091, NS Mayport, SDG MP037, consists of fourteen (14) leachate environmental samples.

The samples were extracted by the Synthetic Precipitate Leachate Procedure (SPLP) and analyzed for target analyte list (TAL) metals and cyanide. The samples were collected by TetraTech NUS on January 9 and 10, 2000 and analyzed by Severn Trent Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metals analyses, with the exception of mercury were conducted using SW 846 method 6010B. Mercury analyses were conducted using SW 846 method 7470A. Cyanide analyses were conducted using SW 846 method 9012A.

All metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor Atomic Absorption (CVAA).

These data were evaluated based on the following parameters:

- * • Data Completeness
 - Holding Times
 - * • Calibration Recoveries
 - Laboratory Blank Analyses
 - * • Laboratory Control Sample Results
 - * • ICP Interference Check Sample Results
 - Matrix Spike / Matrix Spike Duplicate Recoveries
 - * • MS/MSD Relative Percent Differences
 - * • ICP Serial Dilution Results
 - * • Sample Quantitation
 - * • Detection Limits
- * - All quality control criteria were met for this parameter.

TO: T. HANSEN – PAGE 2
DATE: FEBRUARY 21, 2001

Holding Times

The 14-day holding time for cyanide was exceeded by 1-2 days for all samples. All nondetected results for cyanide were qualified as estimated, "UJ".

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Aluminum ⁽¹⁾	272 µg/L	1360 µg/L
Barium ⁽¹⁾	2.8 µg/L	14.0 µg/L
Beryllium	1.8 µg/L	9.0 µg/L
Cadmium	0.2 µg/L	1.0 µg/L
Calcium ⁽¹⁾	1590 µg/L	7950 µg/L
Chromium	1.8 µg/L	9.0 µg/L
Cobalt	0.9 µg/L	4.5 µg/L
Iron	59.4 µg/L	297 µg/L
Lead ⁽²⁾	1.2 µg/L	6.0 µg/L
Magnesium ⁽¹⁾	87.1 µg/L	435.5 µg/L
Manganese	1.9 µg/L	9.5 µg/L
Mercury	0.1 µg/L	0.5 µg/L
Potassium ⁽¹⁾	42.4 µg/L	212 µg/L
Sodium ⁽¹⁾	5400 µg/L	27000 µg/L
Vanadium	1.1 µg/L	5.5 µg/L
Zinc ⁽²⁾	8.5 µg/L	42.5 µg/L

⁽¹⁾ Maximum concentration present in a laboratory leachate blank.

⁽²⁾ Maximum concentration present in a laboratory preparation blank.

An action level of 5X the maximum concentration were used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluation for blank contamination. Positive results less than the blank action levels for all of the above analytes were qualified, "U", as a result of blank contamination and should not be considered present.

Matrix Spike and Matrix Spike Duplicate Results

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Percent Recoveries (%Rs) were < 75% quality control limit for antimony. All positive and nondetected results reported for antimony qualified as estimated, "J" and "UJ", respectively. Results for antimony should be considered biased low.

The MSD percent recovery was < 75% quality control limit for cyanide. All nondetected results for cyanide were qualified as estimated, "UJ".

Notes

The MS/MSD RPD for cyanide was >20% quality control limit. Validation action was not taken based on the MS/MSD comparison.

TO: T. HANSEN – PAGE 3
DATE: FEBRUARY 21, 2001

Executive Summary

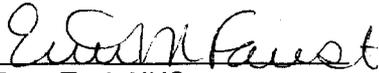
Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks. The holding time was exceeded for cyanide.

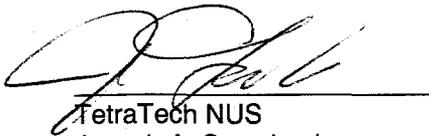
Other Factors Affecting Data Quality: Antimony and cyanide were qualified due to matrix spike and/or matrix spike duplicate noncompliance.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS
Erin M. Faust
Environmental Scientist


TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

CTO091-NS MAYPORT

SPLP DATA

QUANTERRA

SDG: MP037

SAMPLE NUMBER:

MPT-G4-SU06-07

MPT-G4-SU28-05

MPT-G4-SU31-08

MPT-G4-SU32-07

SAMPLE DATE:

01/09/01

01/10/01

01/10/01

01/10/01

LABORATORY ID:

A1A150127008

A1A150127014

A1A150127013

A1A150127012

QC_TYPE:

NORMAL

NORMAL

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

0.0 %

0.0 %

UNITS:

UG/L

UG/L

UG/L

UG/L

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	234	U	A	506	U	A	1450			577	U	A
ANTIMONY	1.8	UJ	D	1.8	UJ	D	1.8	UJ	D	1.8	UJ	D
ARSENIC	2.2	U		2.2	U		2.5			2.2	U	
BARIUM	8.6	U	A	13.0	U	A	24.8			4.5	U	A
BERYLLIUM	0.35	U	A	0.20	U		0.20	U		0.20	U	
CADMIUM	0.20	U		0.20	U		0.51	U	A	0.20	U	
CALCIUM	39900			16900			12100			7980		
CHROMIUM	1.9	U	A	3.5	U	A	5.4	U	A	2.2	U	A
COBALT	0.77	U	A	0.60	U		0.60	U		0.60	U	
COPPER	1.0	U										
IRON	257	U	A	356			1160			699		
LEAD	1.7	U	A	2.1	U	A	5.8	U	A	1.5	U	A
MAGNESIUM	609			530			426	U	A	275	U	A
MANGANESE	6.6	U	A	3.6	U	A	7.3	U	A	7.3	U	A
MERCURY	0.10	U		0.10	U		0.10	U		0.10	U	
NICKEL	2.1	U		2.1	U		2.1	U		2.1	U	
POTASSIUM	118	U	A	77.9	U	A	117	U	A	53.1	U	A
SELENIUM	2.9	U		2.9	U		2.9	U		2.9	U	
SILVER	0.90	U		0.90	U		0.90	U		0.90	U	
SODIUM	11900	U	A	6050	U	A	4650	U	A	5020	U	A
THALLIUM	7.1	U		7.1	U		7.1	U		7.1	U	
VANADIUM	6.4			5.4	U	A	4.9	U	A	2.1	U	A
ZINC	16.6	U	A	7.3	U	A	13.8	U	A	14.7	U	A

CTO091-NS MAYPORT

SPLP DATA
 QUAN TERRA
 SDG: MP037

SAMPLE NUMBER:	MPT-G4-SU42-04	MPT-G4-SU44-04	MPT-G4-SU46-03	MPT-G4-SU47-02
SAMPLE DATE:	01/09/01	01/09/01	01/09/01	01/09/01
LABORATORY ID:	A1A150127001	A1A150127002	A1A150127006	A1A150127003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	499	U	A	1040	U	A	4790			3740		
ANTIMONY	1.8	UJ	D	1.8	UJ	D	1.9	J	D	2.2	J	D
ARSENIC	2.2	U		2.2	U		2.3			2.9		
BARIIUM	6.7	U	A	7.9	U	A	19.4			13.7	U	A
BERYLLIUM	0.20	U		0.20	U		0.20	U		0.20	U	
CADMIUM	0.20	U		0.20	U		0.20	U		0.20	U	
CALCIUM	4800	U	A	13600			21300			18700		
CHROMIUM	2.6	U	A	2.5	U	A	7.0	U	A	5.8	U	A
COBALT	0.60	U		0.60	U		0.62	U	A	0.60	U	
COPPER	1.0	U		2.1			1.7			1.7		
IRON	349			755			2740			1820		
LEAD	1.4	U	A	1.5	U	A	1.8	U	A	3.4	U	A
MAGNESIUM	211	U	A	431	U	A	5480			2160		
MANGANESE	3.7	U	A	3.1	U	A	13.5			6.0	U	A
MERCURY	0.10	U		0.10	U		0.10	U		0.11	U	A
NICKEL	2.1	U		2.1	U		3.9			2.4		
POTASSIUM	73.7	U	A	103	U	A	1420			323		
SELENIUM	2.9	U		2.9	U		2.9	U		2.9	U	
SILVER	0.90	U		0.90	U		0.90	U		0.90	U	
SODIUM	22700	U	A	7440	U	A	27400			22800	U	A
THALLIUM	7.1	U		7.1	U		7.1	U		7.1	U	
VANADIUM	1.7	U	A	5.6			11.2			14.2		
ZINC	16.5	U	A	12.8	U	A	17.7	U	A	19.6	U	A

CTO091-NS MAYPORT

SPLP DATA
 QUANTERRA
 SDG: MP037

SAMPLE NUMBER:	MPT-G4-SU48-04	MPT-G4-SU49-03	MPT-G4-SU54-05	MPT-G4-SU56-05
SAMPLE DATE:	01/09/01	01/09/01	01/09/01	01/09/01
LABORATORY ID:	A1A150127004	A1A150127005	A1A150127010	A1A150127007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	4130			3390			953	U	A	1220	U	A
ANTIMONY	2.0	J	D	1.8	UJ	D	1.8	UJ	D	1.8	UJ	D
ARSENIC	2.2	U		3.4			2.2	U		2.4		
BARIUM	13.9	U	A	13.2	U	A	6.6	U	A	9.8	U	A
BERYLLIUM	0.20	U		0.20	U		0.20	U		0.20	U	
CADMIUM	0.20	U		0.20	U		0.20	U		0.20	U	
CALCIUM	14600			17200			18600			17800		
CHROMIUM	6.9	U	A	6.2	U	A	2.6	U	A	4.1	U	A
COBALT	0.60	U		0.60	U		0.60	U		0.60	U	
COPPER	5.2			1.9			1.0	U		1.0	U	
IRON	2880			2280			932			1660		
LEAD	3.1	U	A	5.1	U	A	1.0	U		2.4	U	A
MAGNESIUM	1990			2140			423	U	A	578		
MANGANESE	9.0	U	A	8.4	U	A	4.5	U	A	5.0	U	A
MERCURY	0.10	U		0.17	U	A	0.10	U		0.15	U	A
NICKEL	2.4			2.7			2.1	U		2.1	U	
POTASSIUM	341			265			102	U	A	163	U	A
SELENIUM	2.9	U		2.9	U		2.9	U		2.9	U	
SILVER	0.90	U		0.90	U		0.90	U		0.90	U	
SODIUM	12200	U	A	11000	U	A	7710	U	A	9190	U	A
THALLIUM	7.1	U		7.1	U		7.1	U		7.1	U	
VANADIUM	18.9			11.4			6.0			6.3		
ZINC	25.2	U	A	20.2	U	A	6.5	U	A	10.8	U	A

CTO091-NS MAYPORT

SPLP DATA

QUANTERRA

SDG: MP037

SAMPLE NUMBER:

MPT-G4-SU57-03

MPT-G4-SU65-05

SAMPLE DATE:

01/09/01

01/09/01

//

//

LABORATORY ID:

A1A150127009

A1A150127011

QC_TYPE:

NORMAL

NORMAL

% SOLIDS:

0.0 %

0.0 %

100.0 %

100.0 %

UNITS:

UG/L

UG/L

FIELD DUPLICATE OF:

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	701	U	A	687	U	A						
ANTIMONY	1.8	UJ	D	1.8	UJ	D						
ARSENIC	2.2	U		2.4								
BARIUM	8.5	U	A	7.5	U	A						
BERYLLIUM	0.20	U		0.20	U							
CADMIUM	0.20	U		0.20	U							
CALCIUM	18600			16900								
CHROMIUM	2.1	U	A	2.2	U	A						
COBALT	0.60	U		0.60	U							
COPPER	1.0	U		1.4								
IRON	600			357								
LEAD	2.3	U	A	4.2	U	A						
MAGNESIUM	429	U	A	564								
MANGANESE	3.4	U	A	3.7	U	A						
MERCURY	0.10	U		0.10	U							
NICKEL	2.1	U		2.1	U							
POTASSIUM	85.7	U	A	49.8	U	A						
SELENIUM	2.9	U		3.3								
SILVER	0.90	U		0.90	U							
SODIUM	10800	U	A	4180	U	A						
THALLIUM	7.1	U		7.1	U							
VANADIUM	8.8			8.4								
ZINC	13.1	U	A	9.9	U	A						

**CTO091-NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP037**

SAMPLE NUMBER:	MPT-G4-SU06-07	MPT-G4-SU28-05	MPT-G4-SU31-08	MPT-G4-SU32-07
SAMPLE DATE:	01/09/01	01/10/01	01/10/01	01/10/01
LABORATORY ID:	A1A150127008	A1A150127014	A1A150127013	A1A150127012
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	UJ	DH									

**CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP037**

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 FIELD DUPLICATE OF:

MPT-G4-SU42-04
 01/09/01
 A1A150127001
 NORMAL
 0.0 %

MPT-G4-SU44-04
 01/09/01
 A1A150127002
 NORMAL
 0.0 %

MPT-G4-SU46-03
 01/09/01
 A1A150127006
 NORMAL
 0.0 %

MPT-G4-SU47-02
 01/09/01
 A1A150127003
 NORMAL
 0.0 %

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	UJ	DH									

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP037

SAMPLE NUMBER:	MPT-G4-SU48-04	MPT-G4-SU49-03	MPT-G4-SU54-05	MPT-G4-SU56-05
SAMPLE DATE:	01/09/01	01/09/01	01/09/01	01/09/01
LABORATORY ID:	A1A150127004	A1A150127005	A1A150127010	A1A150127007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:				

| | RESULT | QUAL | CODE |
|-----------------------------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|
| INORGANICS
CYANIDE(UG/L) | 10 | UJ | DH |

CTO091-NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP037

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 FIELD DUPLICATE OF:

MPT-G4-SU57-03
 01/09/01
 A1A150127009
 NORMAL
 0.0 %

MPT-G4-SU65-05
 01/09/01
 A1A150127011
 NORMAL
 0.0 %

//
 100.0 %

//
 100.0 %

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(UG/L)	10	UJ	DH	10	UJ	DH						

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7XER Client ID: MPT-G4-SU06-07E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	234		1	ICPST	1/25/01	2:32

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7XE Client ID: MPT-G4-SU06-07E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	15:16
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	15:16
Barium	493.41	0.20	10000	8.6	B	1	ICPST	1/22/01	15:16
Beryllium	313.04	0.20	5.0	0.35	B	1	ICPST	1/22/01	15:16
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	15:16
Calcium	317.93	7.4	5000	39900		1	ICPST	1/22/01	15:16
Chromium	267.72	0.50	500	1.9	B	1	ICPST	1/22/01	15:16
Cobalt	228.62	0.60	50.0	0.77	B	1	ICPST	1/22/01	15:16
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	15:16
Iron	271.44	16.2	100	257		1	ICPST	1/22/01	15:16
Lead	220.35	1.0	3.0	1.7	B	1	ICPST	1/22/01	15:16
Magnesium	279.08	7.7	5000	609	B	1	ICPST	1/22/01	15:16
Manganese	257.61	0.50	15.0	6.6	B	1	ICPST	1/22/01	15:16
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	15:16
Potassium	766.49	16.1	5000	118	B	1	ICPST	1/22/01	15:16
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	15:16
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	15:16
Sodium	330.23	165	5000	11900		1	ICPST	1/22/01	15:16
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	15:16
Vanadium	292.40	0.60	50.0	6.4	B	1	ICPST	1/22/01	15:16
Zinc	213.86	0.50	1000	16.6	B	1	ICPST	1/22/01	15:16

Comments: _____

Version 4.31.2

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7XE Client ID: MPT-G4-SU06-07E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	15:00

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM75ER Client ID: MPT-G4-SU28-05E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	506		1	ICPST	1/25/01	3:29

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM75E Client ID: MPT-G4-SU28-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	16:01
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	16:01
Barium	493.41	0.20	10000	13.0	B	1	ICPST	1/22/01	16:01
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	16:01
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	16:01
Calcium	317.93	7.4	5000	16900		1	ICPST	1/22/01	16:01
Chromium	267.72	0.50	500	3.5	B	1	ICPST	1/22/01	16:01
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	16:01
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	16:01
Iron	271.44	16.2	100	356		1	ICPST	1/22/01	16:01
Lead	220.35	1.0	3.0	2.1	B	1	ICPST	1/22/01	16:01
Magnesium	279.08	7.7	5000	530	B	1	ICPST	1/22/01	16:01
Manganese	257.61	0.50	15.0	3.6	B	1	ICPST	1/22/01	16:01
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	16:01
Potassium	766.49	16.1	5000	77.9	B	1	ICPST	1/22/01	16:01
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	16:01
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	16:01
Sodium	330.23	165	5000	6050		1	ICPST	1/22/01	16:01
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	16:01
Vanadium	292.40	0.60	50.0	5.4	B	1	ICPST	1/22/01	16:01
Zinc	213.86	0.50	1000	7.3	B	1	ICPST	1/22/01	16:01

Comments: _____

Version 4.31.2

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM75E Client ID: MPT-G4-SU28-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:48

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM74ER Client ID: MPT-G4-SU31-08E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	1450		1	ICPST	1/25/01	3:24

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM74E Client ID: MPT-G4-SU31-08E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	15:56
Arsenic	189.04	2.2	10.0	2.5	B	1	ICPST	1/22/01	15:56
Barium	493.41	0.20	10000	24.8	B	1	ICPST	1/22/01	15:56
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	15:56
Cadmium	226.50	0.20	100	0.51	B	1	ICPST	1/22/01	15:56
Calcium	317.93	7.4	5000	12100		1	ICPST	1/22/01	15:56
Chromium	267.72	0.50	500	5.4	B	1	ICPST	1/22/01	15:56
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	15:56
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	15:56
Iron	271.44	16.2	100	1160		1	ICPST	1/22/01	15:56
Lead	220.35	1.0	3.0	5.8		1	ICPST	1/22/01	15:56
Magnesium	279.08	7.7	5000	426	B	1	ICPST	1/22/01	15:56
Manganese	257.61	0.50	15.0	7.3	B	1	ICPST	1/22/01	15:56
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	15:56
Potassium	766.49	16.1	5000	117	B	1	ICPST	1/22/01	15:56
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	15:56
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	15:56
Sodium	330.23	165	5000	4650	B	1	ICPST	1/22/01	15:56
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	15:56
Vanadium	292.40	0.60	50.0	4.9	B	1	ICPST	1/22/01	15:56
Zinc	213.86	0.50	1000	13.8	B	1	ICPST	1/22/01	15:56

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM74E Client ID: MPT-G4-SU31-08E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:47

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM73ER Client ID: MPT-G4-SU32-07E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	577		1	ICPST	1/25/01	2:56

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM73E Client ID: MPT-G4-SU32-07E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	15:40
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	15:40
Barium	493.41	0.20	10000	4.5	B	1	ICPST	1/22/01	15:40
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	15:40
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	15:40
Calcium	317.93	7.4	5000	7980		1	ICPST	1/22/01	15:40
Chromium	267.72	0.50	500	2.2	B	1	ICPST	1/22/01	15:40
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	15:40
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	15:40
Iron	271.44	16.2	100	699		1	ICPST	1/22/01	15:40
Lead	220.35	1.0	3.0	1.5	B	1	ICPST	1/22/01	15:40
Magnesium	279.08	7.7	5000	275	B	1	ICPST	1/22/01	15:40
Manganese	257.61	0.50	15.0	7.3	B	1	ICPST	1/22/01	15:40
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	15:40
Potassium	766.49	16.1	5000	53.1	B	1	ICPST	1/22/01	15:40
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	15:40
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	15:40
Sodium	330.23	165	5000	5020		1	ICPST	1/22/01	15:40
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	15:40
Vanadium	292.40	0.60	50.0	2.1	B	1	ICPST	1/22/01	15:40
Zinc	213.86	0.50	1000	14.7	B	1	ICPST	1/22/01	15:40

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM73E Client ID: MPT-G4-SU32-07E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:43

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM6LER Client ID: MPT-G4-SU42-04E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	499		1	ICPST	1/25/01	2:17

Comments: _____

Version 4.31.2

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM6LE Client ID: MPT-G4-SU42-04E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	14:29
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	14:29
Barium	493.41	0.20	10000	6.7	B	1	ICPST	1/22/01	14:29
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:29
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:29
Calcium	317.93	7.4	5000	4800	B	1	ICPST	1/22/01	14:29
Chromium	267.72	0.50	500	2.6	B	1	ICPST	1/22/01	14:29
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:29
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	14:29
Iron	271.44	16.2	100	349		1	ICPST	1/22/01	14:29
Lead	220.35	1.0	3.0	1.4	B	1	ICPST	1/22/01	14:29
Magnesium	279.08	7.7	5000	211	B	1	ICPST	1/22/01	14:29
Manganese	257.61	0.50	15.0	3.7	B	1	ICPST	1/22/01	14:29
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	14:29
Potassium	766.49	16.1	5000	73.7	B	1	ICPST	1/22/01	14:29
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:29
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:29
Sodium	330.23	165	5000	22700		1	ICPST	1/22/01	14:29
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:29
Vanadium	292.40	0.60	50.0	1.7	B	1	ICPST	1/22/01	14:29
Zinc	213.86	0.50	1000	16.5	B	1	ICPST	1/22/01	14:29

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM6LE Client ID: MPT-G4-SU42-04E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:38

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7PER Client ID: MPT-G4-SU44-04E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	1040		1	ICPST	1/25/01	2:22

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7PE Client ID: MPT-G4-SU44-04E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	14:34
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	14:34
Barium	493.41	0.20	10000	7.9	B	1	ICPST	1/22/01	14:34
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:34
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:34
Calcium	317.93	7.4	5000	13600		1	ICPST	1/22/01	14:34
Chromium	267.72	0.50	500	2.5	B	1	ICPST	1/22/01	14:34
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:34
Copper	324.75	1.0	1000	2.1	B	1	ICPST	1/22/01	14:34
Iron	271.44	16.2	100	755		1	ICPST	1/22/01	14:34
Lead	220.35	1.0	3.0	1.5	B	1	ICPST	1/22/01	14:34
Magnesium	279.08	7.7	5000	431	B	1	ICPST	1/22/01	14:34
Manganese	257.61	0.50	15.0	3.1	B	1	ICPST	1/22/01	14:34
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	14:34
Potassium	766.49	16.1	5000	103	B	1	ICPST	1/22/01	14:34
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:34
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:34
Sodium	330.23	165	5000	7440		1	ICPST	1/22/01	14:34
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:34
Vanadium	292.40	0.60	50.0	5.6	B	1	ICPST	1/22/01	14:34
Zinc	213.86	0.50	1000	12.8	B	1	ICPST	1/22/01	14:34

Comments: _____

Version 4.31.2

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7PE Client ID: MPT-G4-SU44-04E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:52

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7VE Client ID: MPT-G4-SU46-03E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	4790		1	ICPST	1/22/01	14:53
Antimony	206.84	1.8	300	1.9	BN	1	ICPST	1/22/01	14:53
Arsenic	189.04	2.2	10.0	2.3	B	1	ICPST	1/22/01	14:53
Barium	493.41	0.20	10000	19.4	B	1	ICPST	1/22/01	14:53
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:53
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:53
Calcium	317.93	7.4	5000	21300		1	ICPST	1/22/01	14:53
Chromium	267.72	0.50	500	7.0	B	1	ICPST	1/22/01	14:53
Cobalt	228.62	0.60	50.0	0.62	B	1	ICPST	1/22/01	14:53
Copper	324.75	1.0	1000	1.7	B	1	ICPST	1/22/01	14:53
Iron	271.44	16.2	100	2740		1	ICPST	1/22/01	14:53
Lead	220.35	1.0	3.0	1.8	B	1	ICPST	1/22/01	14:53
Magnesium	279.08	7.7	5000	5480		1	ICPST	1/22/01	14:53
Manganese	257.61	0.50	15.0	13.5	B	1	ICPST	1/22/01	14:53
Nickel	231.60	2.1	40.0	3.9	B	1	ICPST	1/22/01	14:53
Potassium	766.49	16.1	5000	1420	B	1	ICPST	1/22/01	14:53
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:53
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:53
Sodium	330.23	165	5000	27400		1	ICPST	1/22/01	14:53
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:53
Vanadium	292.40	0.60	50.0	11.2	B	1	ICPST	1/22/01	14:53
Zinc	213.86	0.50	1000	17.7	B	1	ICPST	1/22/01	14:53

Comments: _____

Version 4.31.2

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7VE Client ID: MPT-G4-SU46-03E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:57

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7QE Client ID: MPT-G4-SU47-02E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	3740		1	ICPST	1/22/01	14:39
Antimony	206.84	1.8	300	2.2	BN	1	ICPST	1/22/01	14:39
Arsenic	189.04	2.2	10.0	2.9	B	1	ICPST	1/22/01	14:39
Barium	493.41	0.20	10000	13.7	B	1	ICPST	1/22/01	14:39
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:39
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:39
Calcium	317.93	7.4	5000	18700		1	ICPST	1/22/01	14:39
Chromium	267.72	0.50	500	5.8	B	1	ICPST	1/22/01	14:39
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:39
Copper	324.75	1.0	1000	1.7	B	1	ICPST	1/22/01	14:39
Iron	271.44	16.2	100	1820		1	ICPST	1/22/01	14:39
Lead	220.35	1.0	3.0	3.4		1	ICPST	1/22/01	14:39
Magnesium	279.08	7.7	5000	2160	B	1	ICPST	1/22/01	14:39
Manganese	257.61	0.50	15.0	6.0	B	1	ICPST	1/22/01	14:39
Nickel	231.60	2.1	40.0	2.4	B	1	ICPST	1/22/01	14:39
Potassium	766.49	16.1	5000	323	B	1	ICPST	1/22/01	14:39
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:39
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:39
Sodium	330.23	165	5000	22800		1	ICPST	1/22/01	14:39
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:39
Vanadium	292.40	0.60	50.0	14.2	B	1	ICPST	1/22/01	14:39
Zinc	213.86	0.50	1000	19.6	B	1	ICPST	1/22/01	14:39

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7QE Client ID: MPT-G4-SU47-02E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.11	B	1	CVAA	1/18/01	14:53

Comments: _____

Version 4.31.2

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7RE Client ID: MPT-G4-SU48-04E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	4130		1	ICPST	1/22/01	14:44
Antimony	206.84	1.8	300	2.0	BN	1	ICPST	1/22/01	14:44
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	14:44
Barium	493.41	0.20	10000	13.9	B	1	ICPST	1/22/01	14:44
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:44
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:44
Calcium	317.93	7.4	5000	14600		1	ICPST	1/22/01	14:44
Chromium	267.72	0.50	500	6.9	B	1	ICPST	1/22/01	14:44
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:44
Copper	324.75	1.0	1000	5.2	B	1	ICPST	1/22/01	14:44
Iron	271.44	16.2	100	2880		1	ICPST	1/22/01	14:44
Lead	220.35	1.0	3.0	3.1		1	ICPST	1/22/01	14:44
Magnesium	279.08	7.7	5000	1990	B	1	ICPST	1/22/01	14:44
Manganese	257.61	0.50	15.0	9.0	B	1	ICPST	1/22/01	14:44
Nickel	231.60	2.1	40.0	2.4	B	1	ICPST	1/22/01	14:44
Potassium	766.49	16.1	5000	341	B	1	ICPST	1/22/01	14:44
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:44
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:44
Sodium	330.23	165	5000	12200		1	ICPST	1/22/01	14:44
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:44
Vanadium	292.40	0.60	50.0	18.9	B	1	ICPST	1/22/01	14:44
Zinc	213.86	0.50	1000	25.2	B	1	ICPST	1/22/01	14:44

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7RE Client ID: MPT-G4-SU48-04E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:55

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7TE Client ID: MPT-G4-SU49-03E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	3390		1	ICPST	1/22/01	14:49
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	14:49
Arsenic	189.04	2.2	10.0	3.4	B	1	ICPST	1/22/01	14:49
Barium	493.41	0.20	10000	13.2	B	1	ICPST	1/22/01	14:49
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:49
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:49
Calcium	317.93	7.4	5000	17200		1	ICPST	1/22/01	14:49
Chromium	267.72	0.50	500	6.2	B	1	ICPST	1/22/01	14:49
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:49
Copper	324.75	1.0	1000	1.9	B	1	ICPST	1/22/01	14:49
Iron	271.44	16.2	100	2280		1	ICPST	1/22/01	14:49
Lead	220.35	1.0	3.0	5.1		1	ICPST	1/22/01	14:49
Magnesium	279.08	7.7	5000	2140	B	1	ICPST	1/22/01	14:49
Manganese	257.61	0.50	15.0	8.4	B	1	ICPST	1/22/01	14:49
Nickel	231.60	2.1	40.0	2.7	B	1	ICPST	1/22/01	14:49
Potassium	766.49	16.1	5000	265	B	1	ICPST	1/22/01	14:49
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:49
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:49
Sodium	330.23	165	5000	11000		1	ICPST	1/22/01	14:49
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:49
Vanadium	292.40	0.60	50.0	11.4	B	1	ICPST	1/22/01	14:49
Zinc	213.86	0.50	1000	20.2	B	1	ICPST	1/22/01	14:49

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7TE Client ID: MPT-G4-SU49-03E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.17	B	1	CVAA	1/18/01	14:56

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM71ER Client ID: MPT-G4-SU54-05E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	953		1	ICPST	1/25/01	2:46

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM71E Client ID: MPT-G4-SU54-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	15:31
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	15:31
Barium	493.41	0.20	10000	6.6	B	1	ICPST	1/22/01	15:31
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	15:31
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	15:31
Calcium	317.93	7.4	5000	18600		1	ICPST	1/22/01	15:31
Chromium	267.72	0.50	500	2.6	B	1	ICPST	1/22/01	15:31
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	15:31
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	15:31
Iron	271.44	16.2	100	932		1	ICPST	1/22/01	15:31
Lead	220.35	1.0	3.0	1.0	U	1	ICPST	1/22/01	15:31
Magnesium	279.08	7.7	5000	423	B	1	ICPST	1/22/01	15:31
Manganese	257.61	0.50	15.0	4.5	B	1	ICPST	1/22/01	15:31
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	15:31
Potassium	766.49	16.1	5000	102	B	1	ICPST	1/22/01	15:31
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	15:31
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	15:31
Sodium	330.23	165	5000	7710		1	ICPST	1/22/01	15:31
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	15:31
Vanadium	292.40	0.60	50.0	6.0	B	1	ICPST	1/22/01	15:31
Zinc	213.86	0.50	1000	6.5	B	1	ICPST	1/22/01	15:31

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM71E Client ID: MPT-G4-SU54-05E
Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:40

Comments: _____

Version 4.31.2

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7WER Client ID: MPT-G4-SU56-05E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	1220		1	ICPST	1/25/01	2:27

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7WE Client ID: MPT-G4-SU56-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	14:58
Arsenic	189.04	2.2	10.0	2.4	B	1	ICPST	1/22/01	14:58
Barium	493.41	0.20	10000	9.8	B	1	ICPST	1/22/01	14:58
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:58
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	14:58
Calcium	317.93	7.4	5000	17800		1	ICPST	1/22/01	14:58
Chromium	267.72	0.50	500	4.1	B	1	ICPST	1/22/01	14:58
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:58
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	14:58
Iron	271.44	16.2	100	1660		1	ICPST	1/22/01	14:58
Lead	220.35	1.0	3.0	2.4	B	1	ICPST	1/22/01	14:58
Magnesium	279.08	7.7	5000	578	B	1	ICPST	1/22/01	14:58
Manganese	257.61	0.50	15.0	5.0	B	1	ICPST	1/22/01	14:58
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	14:58
Potassium	766.49	16.1	5000	163	B	1	ICPST	1/22/01	14:58
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:58
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	14:58
Sodium	330.23	165	5000	9190		1	ICPST	1/22/01	14:58
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:58
Vanadium	292.40	0.60	50.0	6.3	B	1	ICPST	1/22/01	14:58
Zinc	213.86	0.50	1000	10.8	B	1	ICPST	1/22/01	14:58

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM7WE Client ID: MPT-G4-SU56-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.15	B	1	CVAA	1/18/01	14:58

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM70ER Client ID: MPT-G4-SU57-03E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	701		1	ICPST	1/25/01	2:41

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM70E Client ID: MPT-G4-SU57-03E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	15:26
Arsenic	189.04	2.2	10.0	2.2	U	1	ICPST	1/22/01	15:26
Barium	493.41	0.20	10000	8.5	B	1	ICPST	1/22/01	15:26
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	15:26
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	15:26
Calcium	317.93	7.4	5000	18600		1	ICPST	1/22/01	15:26
Chromium	267.72	0.50	500	2.1	B	1	ICPST	1/22/01	15:26
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	15:26
Copper	324.75	1.0	1000	1.0	U	1	ICPST	1/22/01	15:26
Iron	271.44	16.2	100	600		1	ICPST	1/22/01	15:26
Lead	220.35	1.0	3.0	2.3	B	1	ICPST	1/22/01	15:26
Magnesium	279.08	7.7	5000	429	B	1	ICPST	1/22/01	15:26
Manganese	257.61	0.50	15.0	3.4	B	1	ICPST	1/22/01	15:26
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	15:26
Potassium	766.49	16.1	5000	85.7	B	1	ICPST	1/22/01	15:26
Selenium	196.03	2.9	5.0	2.9	U	1	ICPST	1/22/01	15:26
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	15:26
Sodium	330.23	165	5000	10800		1	ICPST	1/22/01	15:26
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	15:26
Vanadium	292.40	0.60	50.0	8.8	B	1	ICPST	1/22/01	15:26
Zinc	213.86	0.50	1000	13.1	B	1	ICPST	1/22/01	15:26

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM70E Client ID: MPT-G4-SU57-03E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:39

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM72ER Client ID: MPT-G4-SU65-05E
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.9	200	687		1	ICPST	1/25/01	2:51

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM72E Client ID: MPT-G4-SU65-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Antimony	206.84	1.8	300	1.8	UN	1	ICPST	1/22/01	15:35
Arsenic	189.04	2.2	10.0	2.4	B	1	ICPST	1/22/01	15:35
Barium	493.41	0.20	10000	7.5	B	1	ICPST	1/22/01	15:35
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	1/22/01	15:35
Cadmium	226.50	0.20	100	0.20	U	1	ICPST	1/22/01	15:35
Calcium	317.93	7.4	5000	16900		1	ICPST	1/22/01	15:35
Chromium	267.72	0.50	500	2.2	B	1	ICPST	1/22/01	15:35
Cobalt	228.62	0.60	50.0	0.60	U	1	ICPST	1/22/01	15:35
Copper	324.75	1.0	1000	1.4	B	1	ICPST	1/22/01	15:35
Iron	271.44	16.2	100	357		1	ICPST	1/22/01	15:35
Lead	220.35	1.0	3.0	4.2		1	ICPST	1/22/01	15:35
Magnesium	279.08	7.7	5000	564	B	1	ICPST	1/22/01	15:35
Manganese	257.61	0.50	15.0	3.7	B	1	ICPST	1/22/01	15:35
Nickel	231.60	2.1	40.0	2.1	U	1	ICPST	1/22/01	15:35
Potassium	766.49	16.1	5000	49.8	B	1	ICPST	1/22/01	15:35
Selenium	196.03	2.9	5.0	3.3	B	1	ICPST	1/22/01	15:35
Silver	328.07	0.90	500	0.90	U	1	ICPST	1/22/01	15:35
Sodium	330.23	165	5000	4180	B	1	ICPST	1/22/01	15:35
Thallium	190.86	7.1	10.0	7.1	U	1	ICPST	1/22/01	15:35
Vanadium	292.40	0.60	50.0	8.4	B	1	ICPST	1/22/01	15:35
Zinc	213.86	0.50	1000	9.9	B	1	ICPST	1/22/01	15:35

Comments: _____

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DTM72E Client ID: MPT-G4-SU65-05E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg
 Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:42

Comments: _____

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU42-04

TOTAL General Chemistry

Lot-Sample #...: A1A150127-001 Work Order #....: DTM6L Matrix.....: SO
Date Sampled...: 01/09/01 10:17 Date Received...: 01/13/01
% Moisture.....: 21 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
		Dilution Factor: 1		MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU44-04

TOTAL General Chemistry

Lot-Sample #....: A1A150127-002 Work Order #....: DTM7P Matrix.....: SO
Date Sampled...: 01/09/01 10:30 Date Received...: 01/13/01
% Moisture.....: 22 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
		Dilution Factor: 1		MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU47-02

TOTAL General Chemistry

Lot-Sample #...: A1A150127-003 Work Order #...: DTM7Q Matrix.....: SO
Date Sampled...: 01/09/01 10:36 Date Received...: 01/13/01
% Moisture.....: 22 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND	0.010		mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU48-04

TOTAL General Chemistry

Lot-Sample #....: A1A150127-004 Work Order #....: DTM7R Matrix.....: SO
Date Sampled....: 01/09/01 10:45 Date Received...: 01/13/01
% Moisture.....: 21 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1		MDL.....: 0.0033			

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU49-03

TOTAL General Chemistry

Lot-Sample #....: A1A150127-005 Work Order #....: DTM7T Matrix.....: SO
Date Sampled....: 01/09/01 10:50 Date Received...: 01/13/01
% Moisture.....: 21 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU46-03

TOTAL General Chemistry

Lot-Sample #....: A1A150127-006 Work Order #....: DTM7V Matrix.....: SO
Date Sampled....: 01/09/01 10:57 Date Received...: 01/13/01
% Moisture.....: 57 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
		Dilution Factor: 1		MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU56-05

TOTAL General Chemistry

Lot-Sample #....: A1A150127-007 Work Order #....: DTM7W Matrix.....: SO
Date Sampled....: 01/09/01 12:25 Date Received...: 01/13/01
% Moisture.....: 17 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND		0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
		Dilution Factor: 1		MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU06-07

TOTAL General Chemistry

Lot-Sample #....: A1A150127-008 Work Order #....: DTM7X Matrix.....: SO
Date Sampled....: 01/09/01 11:56 Date Received...: 01/13/01
% Moisture.....: 6.4 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND	0.010		mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU57-03

TOTAL General Chemistry

Lot-Sample #....: A1A150127-009
Date Sampled....: 01/09/01 12:30
% Moisture.....: 17

Work Order #....: DTM70
Date Received...: 01/13/01
Leach Date.....: 01/23/01

Matrix.....: SO

Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND	0.010		mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU54-05

TOTAL General Chemistry

Lot-Sample #...: A1A150127-010
Date Sampled...: 01/09/01 13:02
% Moisture.....: 13

Work Order #...: DTM71
Date Received...: 01/13/01
Leach Date.....: 01/23/01

Matrix.....: SO

Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
		Dilution Factor: 1		MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU65-05

TOTAL General Chemistry

Lot-Sample #...: A1A150127-011 Work Order #...: DTM72 Matrix.....: SO
Date Sampled...: 01/09/01 13:15 Date Received...: 01/13/01
% Moisture.....: 8.8 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND		0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU32-07

TOTAL General Chemistry

Lot-Sample #....: A1A150127-012
Date Sampled....: 01/10/01 12:34
% Moisture.....: 4.4

Work Order #....: DTM73
Date Received...: 01/13/01
Leach Date.....: 01/23/01

Matrix.....: SO

Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	01/24-01/25/01	1025478
		Dilution Factor: 1		MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU31-08

TOTAL General Chemistry

Lot-Sample #....: A1A150127-013 Work Order #....: DTM74 Matrix.....: SO
Date Sampled....: 01/10/01 12:00 Date Received...: 01/13/01
% Moisture.....: 11 Leach Date.....: 01/23/01 Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND	0.010		mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

TETRA TECH NUS, INC.

Client Sample ID: MPT-G4-SU28-05

TOTAL General Chemistry

Lot-Sample #....: A1A150127-014
Date Sampled....: 01/10/01 13:30
% Moisture.....: 12

Work Order #....: DTM75
Date Received...: 01/13/01
Leach Date.....: 01/23/01

Matrix.....: SO
Leach Batch #...: P102506

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide ND	0.010		mg/L	SW846 9012A	01/24-01/25/01	1025478
	Dilution Factor: 1			MDL.....: 0.0033		

APPENDIX C
SUPPORT DOCUMENTATION



PROJECT NO: 110123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen			LABORATORY NAME AND CONTACT: Quanterra/STL		
SAMPLERS (SIGNATURE) 				FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400			ADDRESS 4101 Shuffel Dr NW		
				CARRIER/WAYBILL NUMBER			CITY, STATE N. Canton, OH		
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G) G			PRESERVATIVE USED E		
DATE YEAR 2001									
TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS SPLP			COMMENTS	
1-9 1017	MPT-G4-SU42-04	Soil	G	1	X			Cool to 4°C	
1-9 1030	MPT-G4-SU44-04			1	X				
1-9 1036	MPT-G4-SU47-02			1	X				
1-9 1045	MPT-G4-SU48-04			1	X				
1-9 1050	MPT-G4-SU49-03			1	X				
1-9 1057	MPT-G4-SU46-03			1	X				
1-9 1225	MPT-G4-SU56-05			1	X				
1-9 1156	MPT-G4-SU06-07			1	X				
1-9 1230	MPT-G4-SU57-03			1	X				
1-9 1302	MPT-G4-SU54-05			1	X				
1-9 1315	MPT-G4-SU65-05			1	X				
1-10 1234	MPT-G4-SU32-07			1	X				
1-10 1200	MPT-G4-SU31-08			1	X				
1. RELINQUISHED BY		DATE	TIME	1. RECEIVED BY			DATE	TIME	
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY			DATE	TIME	
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY			DATE	TIME	
COMMENTS									

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)



PROJECT NO: N0123		SITE NAME: Group IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen			LABORATORY NAME AND CONTACT: Quanterra / STL																
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson			ADDRESS 4101 Shuffel Dr NW			CITY, STATE N. Canton, OH															
		CARRIER/WAYBILL NUMBER Fed Ex			<table border="1"> <tr> <td>CONTAINER TYPE PLASTIC (P) or GLASS (G)</td> <td colspan="4" rowspan="3" style="text-align: center; vertical-align: middle;"> TYPE OF ANALYSIS SPLP </td> </tr> <tr> <td>PRESERVATIVE USED</td> </tr> <tr> <td> </td> </tr> </table>					CONTAINER TYPE PLASTIC (P) or GLASS (G)	TYPE OF ANALYSIS SPLP				PRESERVATIVE USED								
CONTAINER TYPE PLASTIC (P) or GLASS (G)	TYPE OF ANALYSIS SPLP																						
PRESERVATIVE USED																							
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		DATE YEAR		TIME		SAMPLE ID		MATRIX		GRAB (G) COMP (C)		No. OF CONTAINERS		TYPE OF ANALYSIS		PRESERVATIVE USED		COMMENTS					
1-10		1330		MPT-64-SU28-05		Soil		G		1		X						Cool to 4°C					
1. RELINQUISHED BY 		DATE 1-12-01		TIME 1700		1. RECEIVED BY 		DATE 1/13/01		TIME 10AM		2. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY		DATE		TIME	
COMMENTS																							

STL NORTH CANTON

MP037

HOLDING TIME

02/01/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	MPT-G4-SU06-07	A1A150127008	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU28-05	A1A150127014	NORMAL	MP037	CN	01/10/01	01/24/01	01/25/01	14	1	15
MG/L	MPT-G4-SU31-08	A1A150127013	NORMAL	MP037	CN	01/10/01	01/24/01	01/25/01	14	1	15
MG/L	MPT-G4-SU32-07	A1A150127012	NORMAL	MP037	CN	01/10/01	01/24/01	01/25/01	14	1	15
MG/L	MPT-G4-SU42-04	A1A150127001	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU44-04	A1A150127002	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU46-03	A1A150127006	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU47-02	A1A150127003	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU48-04	A1A150127004	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU49-03	A1A150127005	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU54-05	A1A150127010	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU56-05	A1A150127007	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU57-03	A1A150127009	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
MG/L	MPT-G4-SU65-05	A1A150127011	NORMAL	MP037	CN	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU06-07	A1A150127008	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU28-05	A1A150127014	NORMAL	MP037	SPLPH	01/10/01	01/18/01	01/18/01	8	0	8
UG/L	MPT-G4-SU31-08	A1A150127013	NORMAL	MP037	SPLPH	01/10/01	01/18/01	01/18/01	8	0	8
UG/L	MPT-G4-SU32-07	A1A150127012	NORMAL	MP037	SPLPH	01/10/01	01/18/01	01/18/01	8	0	8
UG/L	MPT-G4-SU42-04	A1A150127001	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU44-04	A1A150127002	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU46-03	A1A150127006	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU47-02	A1A150127003	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU48-04	A1A150127004	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU49-03	A1A150127005	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-G4-SU54-05	A1A150127010	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU56-05	A1A150127007	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU57-03	A1A150127009	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU65-05	A1A150127011	NORMAL	MP037	SPLPH	01/09/01	01/18/01	01/18/01	9	0	9
UG/L	MPT-G4-SU06-07	A1A150127008	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU06-07RE	A1A150127008	NORMAL	MP037	SPLPM	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU28-05	A1A150127014	NORMAL	MP037	SPLPM	01/10/01	01/18/01	01/22/01	8	4	12
UG/L	MPT-G4-SU28-05RE	A1A150127014	NORMAL	MP037	SPLPM	01/10/01	01/24/01	01/25/01	14	1	15
UG/L	MPT-G4-SU31-08	A1A150127013	NORMAL	MP037	SPLPM	01/10/01	01/18/01	01/22/01	8	4	12
UG/L	MPT-G4-SU31-08RE	A1A150127013	NORMAL	MP037	SPLPM	01/10/01	01/24/01	01/25/01	14	1	15
UG/L	MPT-G4-SU32-07	A1A150127012	NORMAL	MP037	SPLPM	01/10/01	01/18/01	01/22/01	8	4	12
UG/L	MPT-G4-SU32-07RE	A1A150127012	NORMAL	MP037	SPLPM	01/10/01	01/24/01	01/25/01	14	1	15
UG/L	MPT-G4-SU42-04	A1A150127001	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU42-04RE	A1A150127001	NORMAL	MP037	SPLPM	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU44-04	A1A150127002	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU44-04RE	A1A150127002	NORMAL	MP037	SPLPM	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU46-03	A1A150127006	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU47-02	A1A150127003	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU48-04	A1A150127004	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU49-03	A1A150127005	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU54-05	A1A150127010	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU54-05RE	A1A150127010	NORMAL	MP037	SPLPM	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU56-05	A1A150127007	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU56-05RE	A1A150127007	NORMAL	MP037	SPLPM	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU57-03	A1A150127009	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13
UG/L	MPT-G4-SU57-03RE	A1A150127009	NORMAL	MP037	SPLPM	01/09/01	01/24/01	01/25/01	15	1	16
UG/L	MPT-G4-SU65-05	A1A150127011	NORMAL	MP037	SPLPM	01/09/01	01/18/01	01/22/01	9	4	13

<i>Units</i>	<i>Nsample</i>	<i>Lab Id</i>	<i>Qc Type</i>	<i>Sdg</i>	<i>Sort</i>	<i>Samp Date</i>	<i>Extr Date</i>	<i>Anal Date</i>	<i>SAMP_DATE TO EXTR_DATE</i>	<i>EXTR_DATE TO ANAL_DATE</i>	<i>SAMP_DATE TO ANAL_DATE</i>
<i>UG/L</i>	<i>MPT-G4-SU65-05RE</i>	<i>A1A150127011</i>	<i>NORMAL</i>	<i>MP037</i>	<i>SPLPM</i>	<i>01/09/01</i>	<i>01/24/01</i>	<i>01/25/01</i>	<i>15</i>	<i>1</i>	<i>16</i>

ANALYTICAL METHODS SUMMARY

A1A150127

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Total Cyanide	SW846 9012A
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1A150127

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DTM6L	001	MPT-G4-SU42-04	01/09/01	10:17
DTM7P	002	MPT-G4-SU44-04	01/09/01	10:30
DTM7Q	003	MPT-G4-SU47-02	01/09/01	10:36
DTM7R	004	MPT-G4-SU48-04	01/09/01	10:45
DTM7T	005	MPT-G4-SU49-03	01/09/01	10:50
DTM7V	006	MPT-G4-SU46-03	01/09/01	10:57
DTM7W	007	MPT-G4-SU56-05	01/09/01	12:25
DTM7X	008	MPT-G4-SU06-07	01/09/01	11:56
DTM70	009	MPT-G4-SU57-03	01/09/01	12:30
DTM71	010	MPT-G4-SU54-05	01/09/01	13:02
DTM72	011	MPT-G4-SU65-05	01/09/01	13:15
DTM73	012	MPT-G4-SU32-07	01/10/01	12:34
DTM74	013	MPT-G4-SU31-08	01/10/01	12:00
DTM75	014	MPT-G4-SU28-05	01/10/01	13:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SDG NARRATIVE

MP037

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

The Sodium leachate blank in SPLP batch 1017146 read 5400 ug/L and the associated sample results were above the reporting limit except samples MPT-G4-SU65-05 and MPT-G4-SU31-08. Since Sodium Hydroxide is used for TCLP analyses that are performed in the same laboratory with the same equipment as the SPLP analyses, Sodium Hydroxide contamination is unavoidable.

The method and leachate blank in batch 1017146 contained a concentration of a target analyte above reportable levels for Aluminum. Samples MPT-G4-SU47-02, MPT-G4-SU48-04, MPT-G4-SU49-03, and MPT-G4-SU46-03 were greater than 10 times the blank level and results were accepted. The remaining samples were reppeded.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SDG NARRATIVE

MP037

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples MPT-G4-SU42-04, MPT-G4-SU44-04, MPT-G4-SU47-02, MPT-G4-SU48-04, MPT-G4-SU49-03, MPT-G4-SU46-03, MPT-G4-SU56-05, MPT-G4-SU06-07, MPT-G4-SU57-03, and MPT-G4-SU54-05 for Cyanide analyses were set up for leaching on the day they expired. As a result, they did not go through the whole leach process within 14 days after collection. These samples were initially set up one day prior to expiration but done incorrectly, the analyst weighed the incorrect volume for an eighteen hour leach. They were analyzed on the auto-analyzer within holding time after leaching.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60122a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 1/22/01 1:32 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Aluminum	308.215	200	12.9	U								
Antimony	206.838	300	1.8	U								
Arsenic	189.042	10	2.2	U								
Barium	493.409	10000	0.5	B								
Beryllium	313.042	5	0.5	B								
Cadmium	226.502	100	0.2	U								
Calcium	317.933	5000	18.6	B								
Chromium	267.716	500	0.5	U								
Cobalt	228.616	50	0.7	B								
Copper	324.753	1000	1.0	U								
Iron	271.441	100	16.2	U								
Lead	220.353	3	1.0	U								
Magnesium	279.078	5000	23.2	B								
Manganese	257.61	15	0.5	U								
Nickel	231.604	40	2.1	U								
Potassium	766.491	5000	20.7	B								
Selenium	196.026	5	2.9	U								
Silver	328.068	500	0.9	U								
Sodium	330.232	5000	165.0	U								
Thallium	190.864	10	7.1	U								
Vanadium	292.402	50	0.6	U								
Zinc	213.856	1000	0.5	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60124a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 1/24/01 8:11 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	12.9	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10118a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 1/18/01 9:42 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	2	0.1	U								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: ICPST

Units: ug/L

Chart Number: i60122a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 1/22/01 2:09 PM		CCB 1/22/01 3:11 PM		CCB 1/22/01 4:14 PM		CCB 1/22/01 5:18 PM		CCB 1/22/01 6:21 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	49.7	B	-16.0	B	-35.0	B	-38.0	B	-68.0	B
Antimony	206.838	300	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
Arsenic	189.042	10	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Barium	493.409	10000	0.6	B	0.6	B	1.6	B	0.8	B	1.5	B
Beryllium	313.042	5	0.6	B	0.6	B	0.7	B	0.6	B	0.7	B
Cadmium	226.502	100	0.2	B	0.2	U	0.2	U	0.2	U	0.2	U
Calcium	317.933	5000	55.8	B	14.5	B	13.4	B	42.2	B	11.5	B
Chromium	267.716	500	0.5	U	0.5	U	0.5	U	0.5	U	0.7	B
Cobalt	228.616	50	0.6	U	0.6	U	0.8	B	0.8	B	0.7	B
Copper	324.753	1000	1.0	U	1.0	U	-1.1	B	-1.5	B	-2.5	B
Iron	271.441	100	23.2	B	16.2	U	16.2	U	47.8	B	29.8	B
Lead	220.353	3	1.0	U	1.0	U	1.0	U	1.0	U	1.8	B
Magnesium	279.078	5000	60.4	B	16.5	B	18.5	B	37.6	B	20.2	B
Manganese	257.61	15	0.7	B	0.6	B	0.7	B	1.6	B	0.9	B
Nickel	231.604	40	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
Potassium	766.491	5000	16.1	U	16.1	U	16.1	U	18.4	B	16.1	U
Selenium	196.026	5	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Silver	328.068	500	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Sodium	330.232	5000	165.0	U	165.0	U	-230.0	B	-190.0	B	-280.0	B
Thallium	190.864	10	7.1	U	7.1	U	7.1	U	7.1	U	7.1	U
Vanadium	292.402	50	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Zinc	213.856	1000	0.6	B	0.6	B	0.7	B	0.9	B	1.4	B

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: ICPST

Units: ug/L

Chart Number: i60122a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 1/22/01 7:22 PM		CCB 1/22/01 8:04 PM		CCB 1/22/01 9:17 PM		CCB 1/22/01 10:22 PM		Found Q	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	-76.0	B	-91.0	B	12.9	U	-20.0	B		
Antimony	206.838	300	1.8	U	1.8	U	1.8	U	1.8	U		
Arsenic	189.042	10	2.2	U	2.2	U	2.2	U	2.2	U		
Barium	493.409	10000	0.8	B	0.9	B	0.6	B	1.0	B		
Beryllium	313.042	5	0.8	B	1.8	B	0.6	B	0.7	B		
Cadmium	226.502	100	0.2	U	0.2	U	0.2	U	0.2	U		
Calcium	317.933	5000	11.6	B	7.7	B	16.0	B	34.7	B		
Chromium	267.716	500	0.5	U	1.8	B	0.5	U	0.8	B		
Cobalt	228.616	50	0.6	U	0.9	B	0.6	U	0.8	B		
Copper	324.753	1000	-2.4	B	-1.9	B	1.0	U	1.0	U		
Iron	271.441	100	41.4	B	59.4	B	16.2	U	16.2	U		
Lead	220.353	3	1.0	U	1.0	U	1.0	U	1.0	U		
Magnesium	279.078	5000	23.5	B	17.6	B	13.7	B	25.9	B		
Manganese	257.61	15	1.9	B	0.9	B	0.6	B	0.8	B		
Nickel	231.604	40	2.1	U	2.1	U	2.1	U	2.1	U		
Potassium	766.491	5000	16.1	U	16.1	U	16.1	B	21.6	B		
Selenium	196.026	5	2.9	U	2.9	U	2.9	U	2.9	U		
Silver	328.068	500	0.9	U	0.9	U	0.9	U	0.9	U		
Sodium	330.232	5000	-370.0	B	-490.0	B	165.0	U	165.0	U		
Thallium	190.864	10	7.1	U	7.1	U	7.1	U	7.1	U		
Vanadium	292.402	50	0.6	U	1.1	B	0.6	U	0.6	U		
Zinc	213.856	1000	0.8	B	1.3	B	0.5	U	0.7	B		

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: ICPST

Units: ug/L

Chart Number: i60124a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 1/24/01 8:48 PM		CCB 1/24/01 10:47 PM		CCB 1/25/01 12:02 AM		CCB 1/25/01 1:08 AM		CCB 1/25/01 2:13 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	30.2	B	-30.0	B	-85.0	B	-80.0	B	-72.0	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60124a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 1/25/01 3:14 AM		CCB 1/25/01 3:55 AM		Found	Q	Found	Q
			Found	O	Found	O					Found	O
Aluminum	308.215	200	-60.0	B	-55.0	B				

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: CVAA

Units: ug/L

Chart Number: hg10118a.pm

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 1/18/01 9:46 AM	Ck1CCB 1/18/01 10:00 AM	Ck1CCB 1/18/01 10:14 AM	Ck1CCB 1/18/01 10:29 AM	Ck1CCB 1/18/01 10:34 AM
			Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	2	0.1 U	0.1 B	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: CVAA

Units: ug/L

Chart Number: hg10118a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 1/18/01 2:21 PM		Ck1CCB 1/18/01 2:36 PM		Ck1CCB 1/18/01 2:51 PM		Ck1CCB 1/18/01 3:06 PM		Ck1CCB 1/18/01 3:20 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	2	0.1	U	-0.1	B	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: CVAA

Units: ug/L

Chart Number: hg10118a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 1/18/01 3:35 PM		Ck1CCB 1/18/01 3:46 PM		Ck1CCB 1/18/01 3:50 PM		Ck1CCB 1/18/01 3:55 PM	
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	2	-0.1	B	-0.1	B	0.1	U	0.1	B

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DTN79EB
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.9	200	272		1	ICPST	1/22/01	14:14
Antimony	206.838	1.8	300	1.8	U	1	ICPST	1/22/01	14:14
Arsenic	189.042	2.2	10.0	2.2	U	1	ICPST	1/22/01	14:14
Barium	493.409	0.20	10000	2.8	B	1	ICPST	1/22/01	14:14
Beryllium	313.042	0.20	5.0	0.25	B	1	ICPST	1/22/01	14:14
Cadmium	226.502	0.20	100	0.20	U	1	ICPST	1/22/01	14:14
Calcium	317.933	7.4	5000	1590	B	1	ICPST	1/22/01	14:14
Chromium	267.716	0.50	500	0.66	B	1	ICPST	1/22/01	14:14
Cobalt	228.616	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:14
Copper	324.753	1.0	1000	1.0	U	1	ICPST	1/22/01	14:14
Iron	271.441	16.2	100	20.3	B	1	ICPST	1/22/01	14:14
Lead	220.353	1.0	3.0	1.0	U	1	ICPST	1/22/01	14:14
Magnesium	279.078	7.7	5000	87.1	B	1	ICPST	1/22/01	14:14
Manganese	257.61	0.50	15.0	0.50	U	1	ICPST	1/22/01	14:14
Nickel	231.604	2.1	40.0	2.1	U	1	ICPST	1/22/01	14:14
Potassium	766.491	16.1	5000	42.4	B	1	ICPST	1/22/01	14:14
Selenium	196.026	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:14
Silver	328.068	0.90	500	0.90	U	1	ICPST	1/22/01	14:14
Sodium	330.232	165	5000	5400		1	ICPST	1/22/01	14:14
Thallium	190.864	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:14
Vanadium	292.402	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:14
Zinc	213.856	0.50	1000	3.9	B	1	ICPST	1/22/01	14:14

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DTP3WEB
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.9	200	245		1	ICPST	1/22/01	14:19
Antimony	206.838	1.8	300	1.8	U	1	ICPST	1/22/01	14:19
Arsenic	189.042	2.2	10.0	2.2	U	1	ICPST	1/22/01	14:19
Barium	493.409	0.20	10000	1.2	B	1	ICPST	1/22/01	14:19
Beryllium	313.042	0.20	5.0	0.20	U	1	ICPST	1/22/01	14:19
Cadmium	226.502	0.20	100	0.20	U	1	ICPST	1/22/01	14:19
Calcium	317.933	7.4	5000	1300	B	1	ICPST	1/22/01	14:19
Chromium	267.716	0.50	500	0.50	U	1	ICPST	1/22/01	14:19
Cobalt	228.616	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:19
Copper	324.753	1.0	1000	1.0	U	1	ICPST	1/22/01	14:19
Iron	271.441	16.2	100	21.8	B	1	ICPST	1/22/01	14:19
Lead	220.353	1.0	3.0	1.2	B	1	ICPST	1/22/01	14:19
Magnesium	279.078	7.7	5000	23.3	B	1	ICPST	1/22/01	14:19
Manganese	257.61	0.50	15.0	0.82	B	1	ICPST	1/22/01	14:19
Nickel	231.604	2.1	40.0	2.1	U	1	ICPST	1/22/01	14:19
Potassium	766.491	16.1	5000	16.1	U	1	ICPST	1/22/01	14:19
Selenium	196.026	2.9	5.0	2.9	U	1	ICPST	1/22/01	14:19
Silver	328.068	0.90	500	0.90	U	1	ICPST	1/22/01	14:19
Sodium	330.232	165	5000	165	U	1	ICPST	1/22/01	14:19
Thallium	190.864	7.1	10.0	7.1	U	1	ICPST	1/22/01	14:19
Vanadium	292.402	0.60	50.0	0.60	U	1	ICPST	1/22/01	14:19
Zinc	213.856	0.50	1000	8.5	B	1	ICPST	1/22/01	14:19

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DTN79EBR

Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106

Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.9	200	-79	B	1	ICPST	1/25/01	1:49

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DT207EB
 Matrix: Water Units: ug/L Prep Date: 1/24/01 Prep Batch: 1024106
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.9	200	-75	B	1	ICPST	1/25/01	1:54

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DTN79EB

Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg

Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	15:51

Comments: _____

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DTP3WEB

Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146Hg

Weight: 100 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.10	2.0	0.10	U	1	CVAA	1/18/01	14:33

Comments: _____

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A1A150127

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
DI Leachable Cyanide	ND	0.010	mg/L	SW846 9012A	A1A250000-478 01/24-01/25/01	1025478
		Dilution Factor: 1				
Percent Solids	ND	10.0	%	MCAWW 160.3 MOD	A1A160000-254 01/16-01/17/01	1016254
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: ALA150127

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
DI Leachable Cyanide	ND	Work Order #: DT6L91AA 0.010	mg/L	MB Lot-Sample #: SW846 9012A	ALA250000-485 01/24-01/25/01	1025478

Dilution Factor: 1

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DTM73ES
 Original Sample ID: DTM73E Client ID: MPT-G4-SU32-07E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Antimony	206.8	1.8	U	234	B N	500	46.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Arsenic	189.0	2.2	U	5060		5000	101.1	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Barium	493.4	4.5	B	49000	B	50000	97.9	1	5	ICPST	1/22/01	15:40	1/22/01	21:32
Beryllium	313.0	0.20	U	52.8		50	105.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Cadmium	226.5	0.20	U	1020		1000	101.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Calcium	317.9	7980		56300		50000	96.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Chromium	267.7	2.2	B	5010		5000	100.2	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Cobalt	228.6	0.60	U	475		500	95.0	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Copper	324.8	1.0	U	253	B	250	101.0	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Iron	271.4	699		1820		1000	111.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Lead	220.4	1.5	B	5210		5000	104.2	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Magnesium	279.1	275	B	49300		50000	98.1	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Manganese	257.6	7.3	B	532		500	104.9	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Nickel	231.6	2.1	U	514		500	102.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Potassium	766.5	53.1	B	51400		50000	102.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Selenium	196.0	2.9	U	998		1000	99.8	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Silver	328.1	0.90	U	987		1000	98.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Sodium	330.2	5020		55800		50000	101.5	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Thallium	190.9	7.1	U	1960		2000	98.2	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Vanadium	292.4	2.1	B	500		500	99.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:45
Zinc	213.9	14.7	B	547	B	500	106.4	1	1	ICPST	1/22/01	15:40	1/22/01	15:45

Comments:

Version 4.31.2

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DTM73ED
 Original Sample ID: DTM73E Client ID: MPT-G4-SU32-07E
 Matrix: Water Units: ug/L Prep Date: 1/18/01 Prep Batch: 1017146
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Antimony	206.8	1.8	UN	238	B N	500	47.5	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Arsenic	189.0	2.2	U	5150		5000	102.9	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Barium	493.4	4.5	B	50600		50000	101.1	1	5	ICPST	1/22/01	15:40	1/22/01	21:37
Beryllium	313.0	0.20	U	53.3		50	106.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Cadmium	226.5	0.20	U	1040		1000	103.5	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Calcium	317.9	7980		56500		50000	97.1	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Chromium	267.7	2.2	B	5100		5000	102.0	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Cobalt	228.6	0.60	U	479		500	95.8	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Copper	324.8	1.0	U	255	B	250	102.1	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Iron	271.4	699		1820		1000	111.8	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Lead	220.4	1.5	B	5300		5000	106.0	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Magnesium	279.1	275	B	49700		50000	98.9	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Manganese	257.6	7.3	B	536		500	105.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Nickel	231.6	2.1	U	518		500	103.5	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Potassium	766.5	53.1	B	51800		50000	103.5	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Selenium	196.0	2.9	U	1020		1000	101.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Silver	328.1	0.90	U	1010		1000	100.6	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Sodium	330.2	5020		56100		50000	102.2	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Thallium	190.9	7.1	U	1980		2000	99.0	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Vanadium	292.4	2.1	B	506		500	100.7	1	1	ICPST	1/22/01	15:40	1/22/01	15:50
Zinc	213.9	14.7	B	549	B	500	106.8	1	1	ICPST	1/22/01	15:40	1/22/01	15:50

Comments: _____

Version 4.31.2

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A1A150127

Matrix.....: SO

Date Sampled....: 01/10/01 13:30 Date Received...: 01/13/01

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
DI Leachable Cyanide			WO#:	DTM751A6-MS/DTM751A7-MSD	MS Lot-Sample #:	A1A150127-014	
	83	(12 - 147)			SW846 9012A	01/24-01/25/01	1025478
	64	(12 - 147)	26	(0-99)	SW846 9012A	01/24-01/25/01	1025478
			Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	12.9	11/19/00
Antimony	206.84	300	1.8	11/16/00
Arsenic	189.04	10	2.2	11/16/00
Barium	493.41	10000	0.20	11/16/00
Beryllium	313.04	5	0.20	11/16/00
Cadmium	226.50	100	0.20	11/16/00
Calcium	317.93	5000	7.4	11/16/00
Chromium	267.72	500	0.50	11/19/00
Cobalt	228.62	50	0.60	11/16/00
Copper	324.75	1000	1.0	11/16/00
Iron	271.44	100	16.2	11/16/00
Lead	220.35	3	1.0	11/16/00
Magnesium	279.08	5000	7.7	11/16/00
Manganese	257.61	15	0.50	11/16/00
Nickel	231.60	40	2.1	11/16/00
Potassium	766.49	5000	16.1	11/16/00
Selenium	196.03	5	2.9	11/16/00
Silver	328.07	500	0.90	11/16/00
Sodium	330.23	5000	165	11/16/00
Thallium	190.86	10	7.1	11/16/00
Vanadium	292.40	50	0.60	11/16/00
Zinc	213.86	1000	0.50	11/28/00

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 1/17/01
Time: 7:39:03

BATCH NUMBER: 1017146

PREP DATE: 1/18/01
DUE DATE 1/31/01

INITIALS: LMKAC

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A1A150127	DTM6L	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7P	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7Q	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7R	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7T	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7V	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7W	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7X	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM70	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM71	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM72	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM73	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
	DTM73S		_____g	_____g	_____g	_____g
	DTM73D		_____g	_____g	_____g	_____g
A1A150127	DTM74	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM75	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			

SD6 MPD37

BATCH NUMBER: 1017146

PREP DATE: 1/18/01
DUE DATE 1/31/01

INITIALS: Lpm/kcc

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A1A160000	DTN79B	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			0/00/00			
A1A170000	DTP3WB	01	X _____g	X _____g	_____g	_____g
SOLID SPLPE DUE DATE:			0/00/00			
	DTP3WC		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH

MS/MSD AND PDS ON BATCH

CURVE PREPPED FOR HG

CORRECT SPIKES ADDED

SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG

COMMENTS: ICP one TOTAL PREP.
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY DC

ICP ELEMENTS WITHIN THE BATCH:

	AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	KX	MG	MN	NA	NI	PB	SB	SE	TL	VX	ZN	
MS/MSD 1:						ICP - 1		ICP - 2A			GFAA	HG			ODD		1/2 mL RLCA					1 mL non-RLCA	
																	US 1E-0750					US 1G-0056	
DTM73																							
MS/MSD 2:						ICP - 1		ICP - 2			GFAA	HG			ODD								
MS/MSD 3:						ICP - 1		ICP - 2			GFAA	HG			ODD								
CHECK :						ICP - 1		ICP - 2A			GFAA	HG			ODD								Ag
DTP3W																							
CHECK DUP:						ICP - 1		ICP - 2			GFAA	HG			ODD								
STANDARD NUMBERS							041277	041352				1A54											041326

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 1/24/01
Time: 5:55:26

BATCH NUMBER: 1024106

PREP DATE: 1/24/01
DUE DATE 1/31/01

INITIALS: *Lpm/kcu*

* RE-PREP BATCH *

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	SDG MP037 HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
A1A150127	DTM6L	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7P	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7Q	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7R	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7T	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7V	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7W	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM7X	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM70	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM71	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM72	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
A1A150127	DTM73	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			
	DTM73S		_____g	_____g	_____g	_____g
	DTM73D		_____g	_____g	_____g	_____g
A1A150127	DTM74	01	X _____g	_____g	_____g	_____g
SOLID SPLPE DUE DATE:			1/31/01			

*deleted, original results
accepted 012401 kcu*

1/2 prep due to lim. Qty.

1/2 prep due to lim. Qty.

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 1/24/01
Time: 5:55:26

BATCH NUMBER: 1024106

PREP DATE: 1/24/01
DUE DATE 1/31/01

INITIALS: LPm/ka

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
A1A150127	DTM75	01	X _____g	_____g	_____g	_____g
SOLID <u>SPLPE</u> DUE DATE:			1/31/01			
A1A160000	DTN79B	01	X _____g	_____g	_____g	_____g
SOLID <u>SPLPE</u> DUE DATE:			0/00/00			
A1A240000	DT207B	01	X _____g	_____g	_____g	_____g
SOLID <u>SPLPE</u> DUE DATE:			0/00/00			
	DT207C		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH ✓

MS/MSD AND PDS ON BATCH ✓

CURVE PREPPED FOR HG ✓

CORRECT SPIKES ADDED ✓

SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG ✓

ORIGINAL BATCH:

1017146

COMMENTS:

ICP are TOTAL PREP.

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLIN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY

ICP ELEMENTS WITHIN THE BATCH:

AL

MS/MSD 1:	ICP - 1	ICP - 2	GFAA	HG	ODD * 1 ml non-RLCA US 16-0056
	<u>DTM73 *</u>				
MS/MSD 2:	ICP - 1	ICP - 2	GFAA	HG	ODD * (used 0.5 ml non-RLCA due to lim. qty. of sample - 1/2 prep done)
MS/MSD 3:	ICP - 1	ICP - 2	GFAA	HG	ODD
CHECK :	<u>ICP - 1</u>	ICP - 2	GFAA	HG	ODD
	<u>DT207</u>				
CHECK DUP:	ICP - 1	ICP - 2	GFAA	HG	ODD

STANDARD
NUMBERS

01777

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60122a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
S0		1/22/01	13:07
CALSTD		1/22/01	13:12
CAL 2		1/22/01	13:17
S100		1/22/01	13:20
ICV		1/22/01	13:25
ICB		1/22/01	13:32
??????		1/22/01	13:37
??????		1/22/01	13:43
ICSA		1/22/01	13:50
ICSAB		1/22/01	13:55
CCV		1/22/01	14:01
CCB		1/22/01	14:09
DTN79EB		1/22/01	14:14
DTP3WEB		1/22/01	14:19
DTP3WEC		1/22/01	14:23
DTM6LE	MPT-G4-SU42-04E	1/22/01	14:29
DTM7PE	MPT-G4-SU44-04E	1/22/01	14:34
DTM7QE	MPT-G4-SU47-02E	1/22/01	14:39
DTM7RE	MPT-G4-SU48-04E	1/22/01	14:44
DTM7TE	MPT-G4-SU49-03E	1/22/01	14:49
DTM7VE	MPT-G4-SU46-03E	1/22/01	14:53
DTM7WE	MPT-G4-SU56-05E	1/22/01	14:58
CCV		1/22/01	15:05
CCB		1/22/01	15:11
DTM7XE	MPT-G4-SU06-07E	1/22/01	15:16
DTM7XEL	MPT-G4-SU06-07E	1/22/01	15:21
DTM70E	MPT-G4-SU57-03E	1/22/01	15:26
DTM71E	MPT-G4-SU54-05E	1/22/01	15:31
DTM72E	MPT-G4-SU65-05E	1/22/01	15:35
DTM73E	MPT-G4-SU32-07E	1/22/01	15:40
DTM73ES	MPT-G4-SU32-07E	1/22/01	15:45
DTM73ED	MPT-G4-SU32-07E	1/22/01	15:50
DTM74E	MPT-G4-SU31-08E	1/22/01	15:56
DTM75E	MPT-G4-SU28-05E	1/22/01	16:01
CCV		1/22/01	16:07
CCB		1/22/01	16:14
??????		1/22/01	16:19
??????		1/22/01	16:23
??????		1/22/01	16:29

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60122a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		1/22/01	16:34
ZZZZZZ		1/22/01	16:39
ZZZZZZ		1/22/01	16:45
ZZZZZZ		1/22/01	16:50
ZZZZZZ		1/22/01	16:55
ZZZZZZ		1/22/01	16:59
ZZZZZZ		1/22/01	17:04
CCV		1/22/01	17:11
CCB		1/22/01	17:18
ZZZZZZ		1/22/01	17:22
ZZZZZZ		1/22/01	17:27
ZZZZZZ		1/22/01	17:33
ZZZZZZ		1/22/01	17:38
ZZZZZZ		1/22/01	17:43
ZZZZZZ		1/22/01	17:49
ZZZZZZ		1/22/01	17:54
ZZZZZZ		1/22/01	17:58
ZZZZZZ		1/22/01	18:03
ZZZZZZ		1/22/01	18:08
CCV		1/22/01	18:15
CCB		1/22/01	18:21
ZZZZZZ		1/22/01	18:26
ZZZZZZ		1/22/01	18:31
ZZZZZZ		1/22/01	18:36
ZZZZZZ		1/22/01	18:40
ZZZZZZ		1/22/01	18:45
ZZZZZZ		1/22/01	18:50
ZZZZZZ		1/22/01	18:55
ZZZZZZ		1/22/01	19:00
ZZZZZZ		1/22/01	19:04
ZZZZZZ		1/22/01	19:09
CCV		1/22/01	19:16
CCB		1/22/01	19:22
ZZZZZZ		1/22/01	19:27
ZZZZZZ		1/22/01	19:32
ZZZZZZ		1/22/01	19:37
ZZZZZZ		1/22/01	19:45
ZZZZZZ		1/22/01	19:51
CCV		1/22/01	19:57

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60122a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CCB		1/22/01	20:04
CCV		1/22/01	21:10
CCB		1/22/01	21:17
<i>ZZZZZZ</i>		1/22/01	21:22
<i>ZZZZZZ</i>		1/22/01	21:27
DTM73ES	MPT-G4-SU32-07E	1/22/01	21:32
DTM73ED	MPT-G4-SU32-07E	1/22/01	21:37
<i>ZZZZZZ</i>		1/22/01	21:41
<i>ZZZZZZ</i>		1/22/01	21:49
<i>ZZZZZZ</i>		1/22/01	21:54
<i>ZZZZZZ</i>		1/22/01	21:59
<i>ZZZZZZ</i>		1/22/01	22:04
<i>ZZZZZZ</i>		1/22/01	22:09
CCV		1/22/01	22:16
CCB		1/22/01	22:22

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60124a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
S0		1/24/01	19:47
CALSTD		1/24/01	19:51
CAL 2		1/24/01	19:56
S100		1/24/01	20:00
ICV		1/24/01	20:05
ICB		1/24/01	20:11
ZZZZZZ		1/24/01	20:16
ZZZZZZ		1/24/01	20:23
ICSA		1/24/01	20:29
ICSAB		1/24/01	20:34
CCV		1/24/01	20:41
CCB		1/24/01	20:48
ZZZZZZ		1/24/01	21:47
ZZZZZZ		1/24/01	21:51
ZZZZZZ		1/24/01	21:56
ZZZZZZ		1/24/01	22:03
ZZZZZZ		1/24/01	22:08
ZZZZZZ		1/24/01	22:12
ZZZZZZ		1/24/01	22:17
ZZZZZZ		1/24/01	22:22
ZZZZZZ		1/24/01	22:27
ZZZZZZ		1/24/01	22:33
CCV		1/24/01	22:40
CCB		1/24/01	22:47
ZZZZZZ		1/24/01	22:52
ZZZZZZ		1/24/01	23:08
ZZZZZZ		1/24/01	23:13
ZZZZZZ		1/24/01	23:18
ZZZZZZ		1/24/01	23:24
ZZZZZZ		1/24/01	23:29
ZZZZZZ		1/24/01	23:34
ZZZZZZ		1/24/01	23:38
ZZZZZZ		1/24/01	23:43
ZZZZZZ		1/24/01	23:50
CCV		1/24/01	23:55
CCB		1/25/01	0:02
ZZZZZZ		1/25/01	0:07
ZZZZZZ		1/25/01	0:12
ZZZZZZ		1/25/01	0:17

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60124a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		1/25/01	0:24
ZZZZZZ		1/25/01	0:29
ZZZZZZ		1/25/01	0:35
ZZZZZZ		1/25/01	0:40
ZZZZZZ		1/25/01	0:45
ZZZZZZ		1/25/01	0:50
ZZZZZZ		1/25/01	0:54
CCV		1/25/01	1:02
CCB		1/25/01	1:08
ZZZZZZ		1/25/01	1:13
ZZZZZZ		1/25/01	1:18
ZZZZZZ		1/25/01	1:23
ZZZZZZ		1/25/01	1:28
ZZZZZZ		1/25/01	1:32
ZZZZZZ		1/25/01	1:37
ZZZZZZ		1/25/01	1:42
DTN79EBR		1/25/01	1:49
DT207EB		1/25/01	1:54
DT207EC		1/25/01	1:59
CCV		1/25/01	2:06
CCB		1/25/01	2:13
DTM6LER	MPT-G4-SU42-04E	1/25/01	2:17
DTM7PER	MPT-G4-SU44-04E	1/25/01	2:22
DTM7WER	MPT-G4-SU56-05E	1/25/01	2:27
DTM7XER	MPT-G4-SU06-07E	1/25/01	2:32
DTM7XERL	MPT-G4-SU06-07E	1/25/01	2:37
DTM70ER	MPT-G4-SU57-03E	1/25/01	2:41
DTM71ER	MPT-G4-SU54-05E	1/25/01	2:46
DTM72ER	MPT-G4-SU65-05E	1/25/01	2:51
DTM73ER	MPT-G4-SU32-07E	1/25/01	2:56
DTM73ERS	MPT-G4-SU32-07E	1/25/01	3:01
CCV		1/25/01	3:08
CCB		1/25/01	3:14
DTM73ERD	MPT-G4-SU32-07E	1/25/01	3:19
DTM74ER	MPT-G4-SU31-08E	1/25/01	3:24
DTM75ER	MPT-G4-SU28-05E	1/25/01	3:29
ZZZZZZ		1/25/01	3:37
ZZZZZZ		1/25/01	3:43
CCV		1/25/01	3:48

STL NORTH CANTON
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: i60124a.arc

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CCB		1/25/01	3:55

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10118a.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Repl		1/18/01	9:34
Std2Repl		1/18/01	9:35
Std3Repl		1/18/01	9:36
Std4Repl		1/18/01	9:37
Std5Repl		1/18/01	9:39
Std6Repl		1/18/01	9:40
Ck5ICV		1/18/01	9:41
Ck4ICB		1/18/01	9:42
Ck3CRA		1/18/01	9:43
Ck2CCV		1/18/01	9:44
Ck1CCB		1/18/01	9:46
ZZZZZZ		1/18/01	9:47
ZZZZZZ		1/18/01	9:48
ZZZZZZ		1/18/01	9:49
ZZZZZZ		1/18/01	9:50
ZZZZZZ		1/18/01	9:51
ZZZZZZ		1/18/01	9:52
ZZZZZZ		1/18/01	9:54
ZZZZZZ		1/18/01	9:55
ZZZZZZ		1/18/01	9:56
ZZZZZZ		1/18/01	9:58
Ck2CCV		1/18/01	9:59
Ck1CCB		1/18/01	10:00
ZZZZZZ		1/18/01	10:01
ZZZZZZ		1/18/01	10:03
ZZZZZZ		1/18/01	10:04
ZZZZZZ		1/18/01	10:05
ZZZZZZ		1/18/01	10:06
ZZZZZZ		1/18/01	10:07
ZZZZZZ		1/18/01	10:08
ZZZZZZ		1/18/01	10:10
ZZZZZZ		1/18/01	10:11
ZZZZZZ		1/18/01	10:12
Ck2CCV		1/18/01	10:13
Ck1CCB		1/18/01	10:14
ZZZZZZ		1/18/01	10:16
ZZZZZZ		1/18/01	10:17
ZZZZZZ		1/18/01	10:18
ZZZZZZ		1/18/01	10:20

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10118a.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
TTTTT		1/18/01	10:21
TTTTT		1/18/01	10:22
TTTTT		1/18/01	10:23
TTTTT		1/18/01	10:24
TTTTT		1/18/01	10:26
TTTTT		1/18/01	10:27
Ck2CCV		1/18/01	10:28
Ck1CCB		1/18/01	10:29
TTTTT		1/18/01	10:30
TTTTT		1/18/01	10:32
Ck2CCV		1/18/01	10:33
Ck1CCB		1/18/01	10:34
Ck2CCV		1/18/01	14:20
Ck1CCB		1/18/01	14:21
TTTTT		1/18/01	14:22
TTTTT		1/18/01	14:24
TTTTT		1/18/01	14:25
TTTTT		1/18/01	14:26
TTTTT		1/18/01	14:27
TTTTT		1/18/01	14:28
TTTTT		1/18/01	14:29
TTTTT		1/18/01	14:31
TTTTT		1/18/01	14:32
DTP3WEB		1/18/01	14:33
Ck2CCV		1/18/01	14:34
Ck1CCB		1/18/01	14:36
DTP3WEC		1/18/01	14:37
DTM6LE	MPT-G4-SU42-04E	1/18/01	14:38
DTM70E	MPT-G4-SU57-03E	1/18/01	14:39
DTM71E	MPT-G4-SU54-05E	1/18/01	14:40
DTM72E	MPT-G4-SU65-05E	1/18/01	14:42
DTM73E	MPT-G4-SU32-07E	1/18/01	14:43
DTM73ES	MPT-G4-SU32-07E	1/18/01	14:44
DTM73ED	MPT-G4-SU32-07E	1/18/01	14:46
DTM74E	MPT-G4-SU31-08E	1/18/01	14:47
DTM75E	MPT-G4-SU28-05E	1/18/01	14:48
Ck2CCV		1/18/01	14:49
Ck1CCB		1/18/01	14:51
DTM7PE	MPT-G4-SU44-04E	1/18/01	14:52

STL NORTH CANTON

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10118a.pm

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
DTM7QE	MPT-G4-SU47-02E	1/18/01	14:53
DTM7RE	MPT-G4-SU48-04E	1/18/01	14:55
DTM7TE	MPT-G4-SU49-03E	1/18/01	14:56
DTM7VE	MPT-G4-SU46-03E	1/18/01	14:57
DTM7WE	MPT-G4-SU56-05E	1/18/01	14:58
DTM7XE	MPT-G4-SU06-07E	1/18/01	15:00
?????		1/18/01	15:01
?????		1/18/01	15:02
?????		1/18/01	15:03
Ck2CCV		1/18/01	15:05
Ck1CCB		1/18/01	15:06
?????		1/18/01	15:07
?????		1/18/01	15:08
?????		1/18/01	15:09
?????		1/18/01	15:10
?????		1/18/01	15:12
?????		1/18/01	15:13
?????		1/18/01	15:14
?????		1/18/01	15:15
?????		1/18/01	15:17
?????		1/18/01	15:18
Ck2CCV		1/18/01	15:19
Ck1CCB		1/18/01	15:20
?????		1/18/01	15:22
?????		1/18/01	15:23
?????		1/18/01	15:24
?????		1/18/01	15:25
?????		1/18/01	15:27
?????		1/18/01	15:28
?????		1/18/01	15:29
?????		1/18/01	15:30
?????		1/18/01	15:31
?????		1/18/01	15:32
Ck2CCV		1/18/01	15:34
Ck1CCB		1/18/01	15:35
?????		1/18/01	15:36
?????		1/18/01	15:37
?????		1/18/01	15:39
?????		1/18/01	15:40

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAA

Chart Number: hg10118a.prn

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
<i>ZZZZZZ</i>		1/18/01	15:41
<i>ZZZZZZ</i>		1/18/01	15:43
<i>ZZZZZZ</i>		1/18/01	15:44
Ck2CCV		1/18/01	15:45
Ck1CCB		1/18/01	15:46
Ck2CCV		1/18/01	15:49
Ck1CCB		1/18/01	15:50
DTN79EB		1/18/01	15:51
<i>ZZZZZZ</i>		1/18/01	15:53
Ck2CCV		1/18/01	15:54
Ck1CCB		1/18/01	15:55

MEMO TO: T. HANSEN - PAGE 2
DATE: OCTOBER 11, 2000

- * - All quality control criteria were met for this parameter.

Laboratory Blanks

The following contaminant was detected in the laboratory method / preparation blanks at the following maximum concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Aluminum	31.3 µg/L	15.65 mg/kg
Barium ⁽¹⁾	0.16 mg/kg	0.80 mg/kg
Beryllium	1.7 µg/L	0.85 mg/kg
Calcium ⁽¹⁾	50.9 mg/kg	254.5 mg/kg
Copper	2.2 µg/L	1.1 mg/kg
Iron	44.5 µg/L	22.25 mg/kg
Magnesium ⁽¹⁾	49.2 mg/kg	29.5 mg/kg
Manganese	2.2 µg/L	1.1 mg/kg
Nickel	11.1 µg/L	5.55 mg/kg
Sodium ⁽¹⁾	83.0 mg/kg	415 mg/kg
Thallium	6.2 µg/L	3.1 mg/kg
Zinc	5.1 µg/L	2.55 mg/kg
Tin ⁽¹⁾	2.3 mg/kg	11.5 mg/kg

⁽¹⁾ Maximum concentration present in a soil preparation blank.

An action of level of 5X the maximum concentration was used to evaluate for blank contamination. Sample aliquot, percent solids and dilution factors were taken into consideration when evaluation for blank contamination. Positive results less than the blank action level for beryllium, copper, nickel, sodium, tin and zinc were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as all result reported for the remaining analytes were either nondetected or greater then the blank action level.

ICP Interference Check Sample Results

The interfering analyte calcium was present in sample MPT-55-SD-03-01 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, lead, manganese, potassium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium, chromium, vanadium and zinc in the affected sample. The positive results reported for chromium, vanadium and zinc were qualified as estimated, "J". The nondetected result reported for cadmium was qualified as estimated, "UJ".

The interfering analyte calcium was present in sample MPT-55-SS-01-01 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, lead, manganese, potassium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium, chromium and cobalt in the affected sample. The positive results reported for cadmium, chromium and cobalt were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-55-SS-03-01 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, lead, manganese, potassium,

MEMO TO: T. HANSEN - PAGE 3
DATE: OCTOBER 11, 2000

vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium, chromium and copper in the affected sample. The positive results reported for chromium and copper were qualified as estimated, "J". The nondetected result reported for cadmium was qualified as estimated, "UJ".

The interfering analyte calcium was present in sample MPT-55-SS-05-01 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, lead, manganese, potassium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium in the affected sample. The positive results reported for cadmium were qualified as estimated, "J".

The interfering analyte calcium was present in sample MPT-55-SS-07-01 at a concentration which was comparable to the level of calcium in the Interference Check Sample Solution. Several analytes namely barium, cadmium, chromium, cobalt, copper, lead, manganese, potassium, vanadium and zinc were present in the Interference Check Sample Solution at concentrations greater than their Instrument Detection Limits (IDLs). Interference affects exist for cadmium, chromium, manganese and vanadium in the affected sample. The positive results reported for cadmium, chromium, manganese and vanadium were qualified as estimated, "J".

Matrix Spike / Matrix Spike Duplicate Results

The Matrix Spike / Matrix Spike Duplicate (MS/MSD) Percent Recoveries (%Rs) for zinc were <75% quality control limit. The positive results reported for zinc were qualified as estimated, "J".

The MS/MSD %Rs for aluminum were >125% quality control limit. The positive results reported for aluminum were qualified as estimated, "J".

The MS/MSD %Rs for copper were <10% quality control limit. The positive results reported for copper were qualified as estimated, "J".

ICP Serial Dilution Results

The ICP Serial Dilution Percent Differences (%Ds) for aluminum and zinc were >10% quality control limit. The positive results reported for aluminum and zinc were qualified as estimated, "J".

Notes

Several Continuing Calibration Verification (CCV) %R for selenium, thallium and tin were <90% quality control limit. No samples were bracketed by the noncompliant CCVs. Therefore, no validation action was taken.

The MS/MSD Relative Percent Difference (RPD) for aluminum was >35% quality control limit. However, no validation action is taken based on MS/MSD RPD noncompliances.

A cooler was received at 4.6°C. No validation action was taken.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method / preparation blanks.

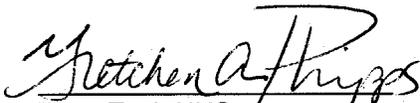
MEMO TO: T. HANSEN - PAGE 4
DATE: OCTOBER 11, 2000

Other Factors Affecting Data Quality: The interfering analyte calcium was present in several samples. Aluminum, copper and zinc were qualified due to MS/MSD. Aluminum and zinc were qualified due to ICP Serial Dilution noncompliances.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", September 1994 and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual." (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS
Gretchen A. Phipps


Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Regional Guidelines
4. Appendix D - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SD-01-01
08/01/00
A0H030185005
NORMAL
76.4 %
MG/KG

MPT-55-SD-02-01
08/03/00
A0H040127001
NORMAL
54.8 %
MG/KG

MPT-55-SD-03-01
08/03/00
A0H040127002
NORMAL
81.4 %
MG/KG

MPT-55-SS-01-01
07/31/00
A0H030175001
NORMAL
96.0 %
MG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	240	J	DI	1980	J	DI	344	J	DI	594	J	DI
ANTIMONY	0.56	U		0.79	U		0.53	U		0.45	U	
ARSENIC	0.71			1.7			0.81			0.92		
BARIIUM	2.3			7.8			4.5			9.1		
BERYLLIUM	0.03	U		0.04	U		0.03	U		0.04	U	A
CADMIUM	0.05	U		0.07	U		0.05	UJ	K	0.09	J	K
CALCIUM	14700			28000			59500			46300		
CHROMIUM	1.7			4.0			2.4	J	K	2.3	J	K
COBALT	0.29	U		0.47			0.27	U		0.40		
COPPER	4.7	J	D	5.3	J	D	0.94	U	A	50.7	J	DK
IRON	430			2100			569			1260		
LEAD	6.3			4.7			2.6			6.1		
MAGNESIUM	80.8			542			788			452		
MANGANESE	10.8			25.1			16.4			12.6		
MERCURY	0.02	U		0.03	U		0.02	U		0.02	U	
MOLYBDENUM	0.25	U		0.54			0.23	U		0.20	U	
NICKEL	0.31	U	A	1.4	U	A	0.59	U	A	1.2	U	A
POTASSIUM	24.5			144			53.1			63.8		
SELENIUM	0.56	U		0.87			0.53	U		0.45	U	
SILVER	0.41	U		0.57	U		0.38	U		0.32	U	
SODIUM	131	U	A	366	U	A	516			382	U	A
THALLIUM	0.69	U		0.97	U		0.65	U		0.55	U	
TIN	2.2	U	A	3.0	U	A	2.2	U	A	6.1	U	A
VANADIUM	1.5			5.1			2.0	J	K	2.2		
ZINC	7.6	J	DI	21.0	J	DI	8.2	J	DIK	30.6	J	DI

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-02-01	MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
SAMPLE DATE:	07/31/00	07/31/00	07/31/00	08/01/00
LABORATORY ID:	A0H030175002	A0H030175003	A0H030175004	A0H030185001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.4 %	95.3 %	86.1 %	78.4 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	759	J	DI	909	J	DI	1970	J	DI	365	J	DI
ANTIMONY	0.47	U		0.45	U		0.50	U		0.55	U	
ARSENIC	0.46			0.48			0.83			0.56		
BARIUM	8.5			4.8			13.2			3.5		
BERYLLIUM	0.02	U		0.02	U		0.02	U		0.03	U	
CADMIUM	0.19			0.04	UJ	K	0.43			0.09	J	K
CALCIUM	20300			45900			18700			34700		
CHROMIUM	3.4			1.8	J	K	5.1			2.3		
COBALT	0.31			0.23	U		0.46			0.28	U	
COPPER	6.7	J	D	2.5	J	DK	13.7	J	D	3.0	J	D
IRON	848			667			991			683		
LEAD	13.2			3.6			10.6			32.6		
MAGNESIUM	295			276			255			332		
MANGANESE	14.8			20.1			20.0			9.2		
MERCURY	0.02	U		0.02	U		0.02	U		0.02	U	
MOLYBDENUM	0.21	U		0.20	U		0.27			0.24	U	
NICKEL	2.1	U	A	0.56	U	A	5.7	U	A	0.73	U	A
POTASSIUM	52.7			67.2			65.1			39.6		
SELENIUM	0.47	U		0.45	U		0.50	U		0.55	U	
SILVER	0.34	U		0.33	U		0.36	U		0.40	U	
SODIUM	121	U	A	429	U	A	147	U	A	141	U	A
THALLIUM	0.74	U	A	0.56	U		0.62	U		0.68	U	
TIN	2.1	U	A	1.6	U	A	2.2	U	A	2.4	U	A
VANADIUM	2.8			1.9			7.0			2.1		
ZINC	36.6	J	DI	14.1	J	DI	94.4	J	DI	15.2	J	DI

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-06-01	MPT-55-SS-07-01	MPT-55-SS-08-01	MPT-55-SS-09-01
SAMPLE DATE:	08/01/00	08/01/00	08/01/00	08/03/00
LABORATORY ID:	A0H030185002	A0H030185003	A0H030185004	A0H040127003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.1 %	89.0 %	88.7 %	86.3 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	978	J	DI	467	J	DI	1760	J	DI	193	J	DI
ANTIMONY	2.7			0.48	U		0.49	U		0.50	U	
ARSENIC	1.1			0.55			1.3			0.42		
BARIUM	10.1			6.0			16.8			2.7		
BERYLLIUM	0.02	U		0.02	U		0.05	U	A	0.02	U	
CADMIUM	0.58			0.07	J	K	1.3			0.05	U	
CALCIUM	25300			53800			13300			3460		
CHROMIUM	5.3			2.3	J	K	10.6			1.4	U	
COBALT	0.54			0.25	U		1.2			0.26	U	
COPPER	30.3	J	D	4.8	J	D	36.4	J	D	0.38	U	A
IRON	4510			569			2950			366		
LEAD	89.6			9.1			80.9			0.79		
MAGNESIUM	485			340			714			102		
MANGANESE	25.7			7.0	J	K	32.9			4.2		
MERCURY	0.05			0.02	U		0.29			0.02	U	
MOLYBDENUM	0.32			0.21	U		0.21	U		0.22	U	
NICKEL	3.1	U	A	0.73	U	A	3.6	U	A	0.39	U	A
POTASSIUM	36.3			63.9			139			30.0		
SELENIUM	0.47	U		0.48	U		0.49	U		0.50	U	
SILVER	0.34	U		0.35	U		0.35	U		0.36	U	
SODIUM	78.9	U	A	1100			113	U	A	78.5	U	A
THALLIUM	0.58	U		0.60	U		0.60	U		0.61	U	
TIN	36.2	U	A	2.2	U	A	3.5	U	A	2.3	U	A
VANADIUM	9.6			1.9	J	K	4.4			0.97		
ZINC	139	J	DI	19.4	J	DI	323	J	DI	1.7	U	A

NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP022

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 FIELD DUPLICATE OF:

MPT-55-SD-01-01
 08/01/00
 A0H030185005
 NORMAL
 76.4 %

MPT-55-SD-02-01
 08/03/00
 A0H040127001
 NORMAL
 54.8 %

MPT-55-SD-03-01
 08/03/00
 A0H040127002
 NORMAL
 81.4 %

MPT-55-SS-01-01
 07/31/00
 A0H030175001
 NORMAL
 96.0 %

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.65	U		0.91	U		0.61	U		0.52	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-02-01	MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
SAMPLE DATE:	07/31/00	07/31/00	07/31/00	08/01/00
LABORATORY ID:	A0H030175002	A0H030175003	A0H030175004	A0H030185001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.4 %	95.3 %	86.1 %	78.4 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.54	U		0.52	U		0.58	U		0.64	U	

NS MAYPORT
 SOIL DATA
 QUANTERRA
 SDG: MP022

SAMPLE NUMBER:
 SAMPLE DATE:
 LABORATORY ID:
 QC_TYPE:
 % SOLIDS:
 FIELD DUPLICATE OF:

MPT-55-SS-06-01
 08/01/00
 A0H030185002
 NORMAL
 92.1 %

MPT-55-SS-07-01
 08/01/00
 A0H030185003
 NORMAL
 89.0 %

MPT-55-SS-08-01
 08/01/00
 A0H030185004
 NORMAL
 88.7 %

MPT-55-SS-09-01
 08/03/00
 A0H040127003
 NORMAL
 86.3 %

	RESULT	QUAL	CODE									
INORGANICS												
CYANIDE(MG/KG)	0.54	U		0.56	U		0.56	U		0.58	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH BUS, INC.

Client Sample ID: MPT-55-SD-01-01

General Chemistry

Lot-Sample #....: AOH030185-005 Work Order #....: DH9MK Matrix.....: SO
Date Sampled....: 08/01/00 11:45 Date Received...: 08/02/00
% Moisture.....: 24

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.65	mg/kg	SW846 9012A	08/14-08/15/00	0228156
		Dilution Factor: 1				
Percent Solids	76.4	10.0	%	MCAWW 160.3 MOD	08/09-08/10/00	0222339
		Dilution Factor: 1				

NOTE(S):

EL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SD-02-01

General Chemistry

Lot-Sample #....: AOH040127-001 Work Order #....: DHD3R Matrix.....: SO
Date Sampled....: 08/03/00 11:40 Date Received...: 08/04/00
% Moisture.....: 45

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.91	mg/kg	SW846 9012A	08/15-08/16/00	0228589
		Dilution Factor: 1				
Percent Solids	54.8	10.0	%	MCAWW 160.3 MOD	08/07-08/08/00	0220212
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SD-03-01

General Chemistry

Lot-Sample #....: AOH040127-002 Work Order #....: DHD48 Matrix.....: SO
Date Sampled....: 08/03/00 12:10 Date Received...: 08/04/00
% Moisture.....: 19

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.61	mg/kg	SW846 9012A	08/15-08/16/00	0228589
Percent Solids	81.4 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	08/07-08/08/00	0220212

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SS-01-01

General Chemistry

Lot-Sample #....: AOH030175-001 Work Order #....: DH9GA Matrix.....: SO
Date Sampled....: 07/31/00 13:39 Date Received...: 08/01/00
% Moisture.....: 4.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.52	mg/kg	SW846 9012A	08/12/00	0225106
		Dilution Factor: 1				
Percent Solids	96.0	10.0	%	MCAW 160.3 MOD	08/09-08/10/00	0222339
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH BUS, INC.

Client Sample ID: MPT-55-SS-02-01

General Chemistry

Lot-Sample #...: AOH030175-002 Work Order #...: DH9HM Matrix.....: SO
Date Sampled...: 07/31/00 13:50 Date Received...: 08/01/00
% Moisture.....: 7.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.54	mg/kg	SW846 9012A	08/12/00	0225106
Percent Solids	92.4 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	08/09-08/10/00	0222339

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SS-03-01

General Chemistry

Lot-Sample #....: A0H030175-003 Work Order #....: DH9HV Matrix.....: SO
Date Sampled....: 07/31/00 14:20 Date Received...: 08/01/00
% Moisture.....: 4.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.52	mg/kg	SW846 9012A	08/12/00	0225106
Percent Solids	95.3 Dilution Factor: 1	10.0	%	MCANW 160.3 MOD	08/09-08/10/00	0222339

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH MUS, INC.

Client Sample ID: MPT-55-SS-04-01

General Chemistry

Lot-Sample #....: A0H030175-004 Work Order #....: DH9J2 Matrix.....: SO
Date Sampled....: 07/31/00 14:45 Date Received...: 08/01/00
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.58	mg/kg	SW846 9012A	08/12/00	0225106
Percent Solids	86.1 Dilution Factor: 1	10.0	%	MCAFW 160.3 MOD	08/09-08/10/00	0222339

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SS-05-01

General Chemistry

Lot-Sample #....: A0H030185-001 Work Order #....: DH9LH Matrix.....: SO
Date Sampled....: 08/01/00 12:05 Date Received...: 08/02/00
% Moisture.....: 22

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	0.64	mg/kg	SW846 9012A	08/14-08/15/00	0228156
		Dilution Factor: 1				
Percent Solids	78.4	10.0	%	MCAWW 160.3 MOD	08/09-08/10/00	0222339
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SS-06-01

General Chemistry

Lot-Sample #....: AOH030185-002 Work Order #....: DH9M9 Matrix.....: SO
Date Sampled....: 08/01/00 12:30 Date Received...: 08/02/00
% Moisture.....: 7.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.54	mg/kg	SW846 9012A	08/14-08/15/00	0228156
Percent Solids	92.1 Dilution Factor: 1	10.0	%	MCAWV 160.3 MOD	08/09-08/10/00	0222339

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH BUS, INC.

Client Sample ID: MPT-55-SS-07-01

General Chemistry

Lot-Sample #....: AOH030185-003 Work Order #....: DH9MH Matrix.....: SO
Date Sampled....: 08/01/00 12:45 Date Received...: 08/02/00
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.56	mg/kg	SW846 9012A	08/14-08/15/00	0228156
Percent Solids	89.0 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	08/09-08/10/00	0222339

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SS-08-01

General Chemistry

Lot-Sample #....: AOH030185-004 Work Order #....: DH9MJ Matrix.....: SO
Date Sampled....: 08/01/00 15:00 Date Received...: 08/02/00
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.56	mg/kg	SW846 9012A	08/14-08/15/00	0228156
Percent Solids	88.7 Dilution Factor: 1	10.0	%	MCAWW 160.3 MOD	08/09-08/10/00	0222339

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

TETRA TECH NUS, INC.

Client Sample ID: MPT-55-SS-09-01

General Chemistry

Lot-Sample #...: AOH040127-003 Work Order #...: DHD49 Matrix.....: SO
Date Sampled...: 08/03/00 12:30 Date Received...: 08/04/00
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND Dilution Factor: 1	0.58	mg/kg	SW846 9012A	08/15-08/16/00	0228589
Percent Solids	86.3 Dilution Factor: 1	10.0	%	MCAWW 160.3 MCD	08/07-08/08/00	0220212

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9MK Client ID: MPT-55-SD-01-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 23.63

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.5	26.2	240	NL*	1	ICPST	8/21/00	23:35
Antimony	206.84	0.56	1.3	0.56	U	1	ICPST	8/21/00	23:35
Arsenic	189.04	0.47	1.3	0.71	B	1	ICPST	8/21/00	23:35
Barium	493.41	0.052	26.2	2.3	B	1	ICPST	8/21/00	23:35
Beryllium	313.04	0.026	0.66	0.026	U	1	ICPST	8/21/00	23:35
Cadmium	226.50	0.052	0.26	0.052	U	1	ICPST	8/21/00	23:35
Calcium	317.93	1.1	655	14700		1	ICPST	8/21/00	23:35
Chromium	267.72	0.26	0.66	1.7		1	ICPST	8/22/00	12:51
Cobalt	228.62	0.29	6.6	0.29	U	1	ICPST	8/21/00	23:35
Copper	324.75	0.25	3.3	4.7	N	1	ICPST	8/21/00	23:35
Iron	271.44	3.6	13.1	430		1	ICPST	8/21/00	23:35
Lead	220.35	0.17	0.39	6.3		1	ICPST	8/21/00	23:35
Magnesium	279.08	1.8	655	80.8	B	1	ICPST	8/21/00	23:35
Manganese	257.61	0.052	2.0	10.8		1	ICPST	8/21/00	23:35
Mercury	253.7	0.022	0.13	0.022	U	1	CVAA	8/21/00	15:39
Molybdenum	202.03	0.25	5.2	0.25	U	1	ICPST	8/21/00	23:35
Nickel	231.60	0.25	5.2	0.31	B	1	ICPST	8/21/00	23:35
Potassium	766.49	6.9	655	24.5	B	1	ICPST	8/21/00	23:35
Selenium	196.03	0.56	0.66	0.56	U	1	ICPST	8/21/00	23:35
Silver	328.07	0.41	0.66	0.41	U	1	ICPST	8/21/00	23:35
Sodium	330.23	57.5	655	131	B	1	ICPST	8/21/00	23:35
Thallium	190.86	0.69	1.3	0.69	U	1	ICPST	8/21/00	23:35
Tin	189.99	0.37	13.1	2.2	B	1	ICPST	8/21/00	23:35
Vanadium	292.40	0.18	6.6	1.5	B	1	ICPST	8/21/00	23:35
Zinc	213.86	0.079	2.6	7.6	NL	1	ICPST	8/21/00	23:35

Comments: Lot #: A0H030185 Sample #: 5

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DHD3R Client ID: MPT-55-SD-02-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 45.21

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	3.4	36.5	1980	NL*	1	ICPST	8/21/00	23:40
Antimony	206.84	0.79	1.8	0.79	U	1	ICPST	8/21/00	23:40
Arsenic	189.04	0.66	1.8	1.7	B	1	ICPST	8/21/00	23:40
Barium	493.41	0.073	36.5	7.8	B	1	ICPST	8/21/00	23:40
Beryllium	313.04	0.037	0.91	0.037	U	1	ICPST	8/21/00	23:40
Cadmium	226.50	0.073	0.37	0.073	U	1	ICPST	8/21/00	23:40
Calcium	317.93	1.5	913	28000		1	ICPST	8/21/00	23:40
Chromium	267.72	0.37	0.91	4.0		1	ICPST	8/22/00	12:56
Cobalt	228.62	0.40	9.1	0.47	B	1	ICPST	8/21/00	23:40
Copper	324.75	0.35	4.6	5.3	N	1	ICPST	8/21/00	23:40
Iron	271.44	5.0	18.3	2100		1	ICPST	8/21/00	23:40
Lead	220.35	0.24	0.55	4.7		1	ICPST	8/21/00	23:40
Magnesium	279.08	2.5	913	542	B	1	ICPST	8/21/00	23:40
Manganese	257.61	0.073	2.7	25.1		1	ICPST	8/21/00	23:40
Mercury	253.7	0.030	0.18	0.030	U	1	CVAA	8/21/00	15:41
Molybdenum	202.03	0.35	7.3	0.54	B	1	ICPST	8/21/00	23:40
Nickel	231.60	0.35	7.3	1.4	B	1	ICPST	8/21/00	23:40
Potassium	766.49	9.6	913	144	B	1	ICPST	8/21/00	23:40
Selenium	196.03	0.79	0.91	0.87	B	1	ICPST	8/21/00	23:40
Silver	328.07	0.57	0.91	0.57	U	1	ICPST	8/21/00	23:40
Sodium	330.23	80.1	913	366	B	1	ICPST	8/21/00	23:40
Thallium	190.86	0.97	1.8	0.97	U	1	ICPST	8/21/00	23:40
Tin	189.99	0.51	18.3	3.0	B	1	ICPST	8/21/00	23:40
Vanadium	292.40	0.26	9.1	5.1	B	1	ICPST	8/21/00	23:40
Zinc	213.86	0.11	3.7	21.0	NL	1	ICPST	8/21/00	23:40

Comments: Lot #: A0H040127 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DHD48 Client ID: MPT-55-SD-03-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 18.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.3	24.6	344	NL*	1	ICPST	8/21/00	23:45
Antimony	206.84	0.53	1.2	0.53	U	1	ICPST	8/21/00	23:45
Arsenic	189.04	0.44	1.2	0.81	B	1	ICPST	8/21/00	23:45
Barium	493.41	0.049	24.6	4.5	B	1	ICPST	8/21/00	23:45
Beryllium	313.04	0.025	0.61	0.025	U	1	ICPST	8/21/00	23:45
Cadmium	226.50	0.049	0.25	0.049	U	1	ICPST	8/21/00	23:45
Calcium	317.93	1.0	614	59500		1	ICPST	8/21/00	23:45
Chromium	267.72	0.25	0.61	2.4		1	ICPST	8/22/00	13:01
Cobalt	228.62	0.27	6.1	0.27	U	1	ICPST	8/21/00	23:45
Copper	324.75	0.23	3.1	0.94	BN	1	ICPST	8/21/00	23:45
Iron	271.44	3.4	12.3	569		1	ICPST	8/21/00	23:45
Lead	220.35	0.16	0.37	2.6		1	ICPST	8/21/00	23:45
Magnesium	279.08	1.7	614	788		1	ICPST	8/21/00	23:45
Manganese	257.61	0.049	1.8	16.4		1	ICPST	8/21/00	23:45
Mercury	253.7	0.021	0.12	0.021	U	1	CVAA	8/21/00	15:43
Molybdenum	202.03	0.23	4.9	0.23	U	1	ICPST	8/21/00	23:45
Nickel	231.60	0.23	4.9	0.59	B	1	ICPST	8/21/00	23:45
Potassium	766.49	6.4	614	53.1	B	1	ICPST	8/21/00	23:45
Selenium	196.03	0.53	0.61	0.53	U	1	ICPST	8/21/00	23:45
Silver	328.07	0.38	0.61	0.38	U	1	ICPST	8/21/00	23:45
Sodium	330.23	53.9	614	516	B	1	ICPST	8/21/00	23:45
Thallium	190.86	0.65	1.2	0.65	U	1	ICPST	8/21/00	23:45
Tin	189.99	0.34	12.3	2.2	B	1	ICPST	8/21/00	23:45
Vanadium	292.40	0.17	6.1	2.0	B	1	ICPST	8/21/00	23:45
Zinc	213.86	0.074	2.5	8.2	NL	1	ICPST	8/21/00	23:45

Comments: Lot #: A0H040127 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9GA Client ID: MPT-55-SS-01-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 3.96

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.0	20.8	594	NL*	1	ICPST	8/21/00	22:27
Antimony	206.84	0.45	1.0	0.45	U	1	ICPST	8/21/00	22:27
Arsenic	189.04	0.38	1.0	0.92	B	1	ICPST	8/21/00	22:27
Barium	493.41	0.042	20.8	9.1	B	1	ICPST	8/21/00	22:27
Beryllium	313.04	0.021	0.52	0.035	B	1	ICPST	8/21/00	22:27
Cadmium	226.50	0.042	0.21	0.085	B	1	ICPST	8/21/00	22:27
Calcium	317.93	0.85	521	46300		1	ICPST	8/21/00	22:27
Chromium	267.72	0.21	0.52	2.3		1	ICPST	8/22/00	11:40
Cobalt	228.62	0.23	5.2	0.40	B	1	ICPST	8/21/00	22:27
Copper	324.75	0.20	2.6	50.7	N	1	ICPST	8/21/00	22:27
Iron	271.44	2.8	10.4	1260		1	ICPST	8/21/00	22:27
Lead	220.35	0.14	0.31	6.1		1	ICPST	8/21/00	22:27
Magnesium	279.08	1.4	521	452	B	1	ICPST	8/21/00	22:27
Manganese	257.61	0.042	1.6	12.6		1	ICPST	8/21/00	22:27
Mercury	253.7	0.017	0.10	0.017	U	1	CVAA	8/21/00	15:26
Molybdenum	202.03	0.20	4.2	0.20	U	1	ICPST	8/21/00	22:27
Nickel	231.60	0.20	4.2	1.2	B	1	ICPST	8/21/00	22:27
Potassium	766.49	5.5	521	63.8	B	1	ICPST	8/21/00	22:27
Selenium	196.03	0.45	0.52	0.45	U	1	ICPST	8/21/00	22:27
Silver	328.07	0.32	0.52	0.32	U	1	ICPST	8/21/00	22:27
Sodium	330.23	45.7	521	382	B	1	ICPST	8/21/00	22:27
Thallium	190.86	0.55	1.0	0.55	U	1	ICPST	8/21/00	22:27
Tin	189.99	0.29	10.4	6.1	B	1	ICPST	8/21/00	22:27
Vanadium	292.40	0.15	5.2	2.2	B	1	ICPST	8/21/00	22:27
Zinc	213.86	0.063	2.1	30.6	NL	1	ICPST	8/21/00	22:27

Comments: Lot #: A0H030175 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9HM Client ID: MPT-55-SS-02-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 7.64

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.0	21.7	759	NL*	1	ICPST	8/21/00	22:48
Antimony	206.84	0.47	1.1	0.47	U	1	ICPST	8/21/00	22:48
Arsenic	189.04	0.39	1.1	0.46	B	1	ICPST	8/21/00	22:48
Barium	493.41	0.043	21.7	8.5	B	1	ICPST	8/21/00	22:48
Beryllium	313.04	0.022	0.54	0.022	U	1	ICPST	8/21/00	22:48
Cadmium	226.50	0.043	0.22	0.19	B	1	ICPST	8/21/00	22:48
Calcium	317.93	0.89	541	20300		1	ICPST	8/21/00	22:48
Chromium	267.72	0.22	0.54	3.4		1	ICPST	8/22/00	12:02
Cobalt	228.62	0.24	5.4	0.31	B	1	ICPST	8/21/00	22:48
Copper	324.75	0.21	2.7	6.7	N	1	ICPST	8/21/00	22:48
Iron	271.44	3.0	10.8	848		1	ICPST	8/21/00	22:48
Lead	220.35	0.14	0.33	13.2		1	ICPST	8/21/00	22:48
Magnesium	279.08	1.5	541	295	B	1	ICPST	8/21/00	22:48
Manganese	257.61	0.043	1.6	14.8		1	ICPST	8/21/00	22:48
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	8/21/00	15:29
Molybdenum	202.03	0.21	4.3	0.21	U	1	ICPST	8/21/00	22:48
Nickel	231.60	0.21	4.3	2.1	B	1	ICPST	8/21/00	22:48
Potassium	766.49	5.7	541	52.7	B	1	ICPST	8/21/00	22:48
Selenium	196.03	0.47	0.54	0.47	U	1	ICPST	8/21/00	22:48
Silver	328.07	0.34	0.54	0.34	U	1	ICPST	8/21/00	22:48
Sodium	330.23	47.5	541	121	B	1	ICPST	8/21/00	22:48
Thallium	190.86	0.57	1.1	0.74	B	1	ICPST	8/21/00	22:48
Tin	189.99	0.30	10.8	2.1	B	1	ICPST	8/21/00	22:48
Vanadium	292.40	0.15	5.4	2.8	B	1	ICPST	8/21/00	22:48
Zinc	213.86	0.065	2.2	36.6	NL	1	ICPST	8/21/00	22:48

Comments: Lot #: A0H030175 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9HV Client ID: MPT-55-SS-03-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 4.66

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.0	21.0	909	NL*	1	ICPST	8/21/00	22:53
Antimony	206.84	0.45	1.1	0.45	U	1	ICPST	8/21/00	22:53
Arsenic	189.04	0.38	1.1	0.48	B	1	ICPST	8/21/00	22:53
Barium	493.41	0.042	21.0	4.8	B	1	ICPST	8/21/00	22:53
Beryllium	313.04	0.021	0.52	0.021	U	1	ICPST	8/21/00	22:53
Cadmium	226.50	0.042	0.21	0.042	U	1	ICPST	8/21/00	22:53
Calcium	317.93	0.86	524	45900		1	ICPST	8/21/00	22:53
Chromium	267.72	0.21	0.52	1.8		1	ICPST	8/22/00	12:07
Cobalt	228.62	0.23	5.2	0.23	U	1	ICPST	8/21/00	22:53
Copper	324.75	0.20	2.6	2.5	BN	1	ICPST	8/21/00	22:53
Iron	271.44	2.9	10.5	667		1	ICPST	8/21/00	22:53
Lead	220.35	0.14	0.32	3.6		1	ICPST	8/21/00	22:53
Magnesium	279.08	1.4	524	276	B	1	ICPST	8/21/00	22:53
Manganese	257.61	0.042	1.6	20.1		1	ICPST	8/21/00	22:53
Mercury	253.7	0.018	0.11	0.018	U	1	CVAA	8/21/00	15:30
Molybdenum	202.03	0.20	4.2	0.20	U	1	ICPST	8/21/00	22:53
Nickel	231.60	0.20	4.2	0.56	B	1	ICPST	8/21/00	22:53
Potassium	766.49	5.5	524	67.2	B	1	ICPST	8/21/00	22:53
Selenium	196.03	0.45	0.52	0.45	U	1	ICPST	8/21/00	22:53
Silver	328.07	0.33	0.52	0.33	U	1	ICPST	8/21/00	22:53
Sodium	330.23	46.1	524	429	B	1	ICPST	8/21/00	22:53
Thallium	190.86	0.56	1.1	0.56	U	1	ICPST	8/21/00	22:53
Tin	189.99	0.29	10.5	1.6	B	1	ICPST	8/21/00	22:53
Vanadium	292.40	0.15	5.2	1.9	B	1	ICPST	8/21/00	22:53
Zinc	213.86	0.063	2.1	14.1	NL	1	ICPST	8/21/00	22:53

Comments: Lot #: A0H030175 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9J2 Client ID: MPT-55-SS-04-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 13.92

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.2	23.2	1970	NL*	1	ICPST	8/21/00	22:58
Antimony	206.84	0.50	1.2	0.50	U	1	ICPST	8/21/00	22:58
Arsenic	189.04	0.42	1.2	0.83	B	1	ICPST	8/21/00	22:58
Barium	493.41	0.047	23.2	13.2	B	1	ICPST	8/21/00	22:58
Beryllium	313.04	0.023	0.58	0.023	U	1	ICPST	8/21/00	22:58
Cadmium	226.50	0.047	0.23	0.43		1	ICPST	8/21/00	22:58
Calcium	317.93	0.95	581	18700		1	ICPST	8/21/00	22:58
Chromium	267.72	0.23	0.58	5.1		1	ICPST	8/22/00	12:12
Cobalt	228.62	0.26	5.8	0.46	B	1	ICPST	8/21/00	22:58
Copper	324.75	0.22	2.9	13.7	N	1	ICPST	8/21/00	22:58
Iron	271.44	3.2	11.6	991		1	ICPST	8/21/00	22:58
Lead	220.35	0.15	0.35	10.6		1	ICPST	8/21/00	22:58
Magnesium	279.08	1.6	581	255	B	1	ICPST	8/21/00	22:58
Manganese	257.61	0.047	1.7	20.0		1	ICPST	8/21/00	22:58
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	8/21/00	15:31
Molybdenum	202.03	0.22	4.7	0.27	B	1	ICPST	8/21/00	22:58
Nickel	231.60	0.22	4.7	5.7		1	ICPST	8/21/00	22:58
Potassium	766.49	6.1	581	65.1	B	1	ICPST	8/21/00	22:58
Selenium	196.03	0.50	0.58	0.50	U	1	ICPST	8/21/00	22:58
Silver	328.07	0.36	0.58	0.36	U	1	ICPST	8/21/00	22:58
Sodium	330.23	51.0	581	147	B	1	ICPST	8/21/00	22:58
Thallium	190.86	0.62	1.2	0.62	U	1	ICPST	8/21/00	22:58
Tin	189.99	0.33	11.6	2.2	B	1	ICPST	8/21/00	22:58
Vanadium	292.40	0.16	5.8	7.0		1	ICPST	8/21/00	22:58
Zinc	213.86	0.070	2.3	94.4	NL	1	ICPST	8/21/00	22:58

Comments: Lot #: A0H030175 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9LH Client ID: MPT-55-SS-05-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 21.61

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.4	25.5	365	NL*	1	ICPST	8/21/00	23:03
Antimony	206.84	0.55	1.3	0.55	U	1	ICPST	8/21/00	23:03
Arsenic	189.04	0.46	1.3	0.56	B	1	ICPST	8/21/00	23:03
Barium	493.41	0.051	25.5	3.5	B	1	ICPST	8/21/00	23:03
Beryllium	313.04	0.026	0.64	0.026	U	1	ICPST	8/21/00	23:03
Cadmium	226.50	0.051	0.26	0.093	B	1	ICPST	8/21/00	23:03
Calcium	317.93	1.1	638	34700		1	ICPST	8/21/00	23:03
Chromium	267.72	0.26	0.64	2.3		1	ICPST	8/22/00	12:17
Cobalt	228.62	0.28	6.4	0.28	U	1	ICPST	8/21/00	23:03
Copper	324.75	0.24	3.2	3.0	BN	1	ICPST	8/21/00	23:03
Iron	271.44	3.5	12.8	683		1	ICPST	8/21/00	23:03
Lead	220.35	0.17	0.38	32.6		1	ICPST	8/21/00	23:03
Magnesium	279.08	1.7	638	332	B	1	ICPST	8/21/00	23:03
Manganese	257.61	0.051	1.9	9.2		1	ICPST	8/21/00	23:03
Mercury	253.7	0.021	0.13	0.021	U	1	CVAA	8/21/00	15:33
Molybdenum	202.03	0.24	5.1	0.24	U	1	ICPST	8/21/00	23:03
Nickel	231.60	0.24	5.1	0.73	B	1	ICPST	8/21/00	23:03
Potassium	766.49	6.7	638	39.6	B	1	ICPST	8/21/00	23:03
Selenium	196.03	0.55	0.64	0.55	U	1	ICPST	8/21/00	23:03
Silver	328.07	0.40	0.64	0.40	U	1	ICPST	8/21/00	23:03
Sodium	330.23	56.0	638	141	B	1	ICPST	8/21/00	23:03
Thallium	190.86	0.68	1.3	0.68	U	1	ICPST	8/21/00	23:03
Tin	189.99	0.36	12.8	2.4	B	1	ICPST	8/21/00	23:03
Vanadium	292.40	0.18	6.4	2.1	B	1	ICPST	8/21/00	23:03
Zinc	213.86	0.077	2.6	15.2	NL	1	ICPST	8/21/00	23:03

Comments: Lot #: A0H030185 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9M9 Client ID: MPT-55-SS-06-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 7.86

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.0	21.7	978	NL*	1	ICPST	8/21/00	23:08
Antimony	206.84	0.47	1.1	2.7		1	ICPST	8/21/00	23:08
Arsenic	189.04	0.39	1.1	1.1	B	1	ICPST	8/21/00	23:08
Barium	493.41	0.043	21.7	10.1	B	1	ICPST	8/21/00	23:08
Beryllium	313.04	0.022	0.54	0.022	U	1	ICPST	8/21/00	23:08
Cadmium	226.50	0.043	0.22	0.58		1	ICPST	8/21/00	23:08
Calcium	317.93	0.89	543	25300		1	ICPST	8/21/00	23:08
Chromium	267.72	0.22	0.54	5.3		1	ICPST	8/22/00	12:35
Cobalt	228.62	0.24	5.4	0.54	B	1	ICPST	8/21/00	23:08
Copper	324.75	0.21	2.7	30.3	N	1	ICPST	8/21/00	23:08
Iron	271.44	3.0	10.9	4510		1	ICPST	8/21/00	23:08
Lead	220.35	0.14	0.33	89.6		1	ICPST	8/21/00	23:08
Magnesium	279.08	1.5	543	485	B	1	ICPST	8/21/00	23:08
Manganese	257.61	0.043	1.6	25.7		1	ICPST	8/21/00	23:08
Mercury	253.7	0.018	0.11	0.045	B	1	CVAA	8/21/00	15:40
Molybdenum	202.03	0.21	4.3	0.32	B	1	ICPST	8/21/00	23:08
Nickel	231.60	0.21	4.3	3.1	B	1	ICPST	8/21/00	23:08
Potassium	766.49	5.7	543	36.3	B	1	ICPST	8/21/00	23:08
Selenium	196.03	0.47	0.54	0.47	U	1	ICPST	8/21/00	23:08
Silver	328.07	0.34	0.54	0.34	U	1	ICPST	8/21/00	23:08
Sodium	330.23	47.6	543	78.9	B	1	ICPST	8/21/00	23:08
Thallium	190.86	0.58	1.1	0.58	U	1	ICPST	8/21/00	23:08
Tin	189.99	0.30	10.9	36.2		1	ICPST	8/21/00	23:08
Vanadium	292.40	0.15	5.4	9.6		1	ICPST	8/21/00	23:08
Zinc	213.86	0.065	2.2	139	NL	1	ICPST	8/21/00	23:08

Comments: Lot #: A0H030185 Sample #: 2

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9MH Client ID: MPT-55-SS-07-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 11.05

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.1	22.5	467	NL*	1	ICPST	8/21/00	23:26
Antimony	206.84	0.48	1.1	0.48	U	1	ICPST	8/21/00	23:26
Arsenic	189.04	0.41	1.1	0.55	B	1	ICPST	8/21/00	23:26
Barium	493.41	0.045	22.5	6.0	B	1	ICPST	8/21/00	23:26
Beryllium	313.04	0.023	0.56	0.023	U	1	ICPST	8/21/00	23:26
Cadmium	226.50	0.045	0.23	0.067	B	1	ICPST	8/21/00	23:26
Calcium	317.93	0.92	562	53800		1	ICPST	8/21/00	23:26
Chromium	267.72	0.23	0.56	2.3		1	ICPST	8/22/00	12:40
Cobalt	228.62	0.25	5.6	0.25	U	1	ICPST	8/21/00	23:26
Copper	324.75	0.21	2.8	4.8	N	1	ICPST	8/21/00	23:26
Iron	271.44	3.1	11.2	569		1	ICPST	8/21/00	23:26
Lead	220.35	0.15	0.34	9.1		1	ICPST	8/21/00	23:26
Magnesium	279.08	1.5	562	340	B	1	ICPST	8/21/00	23:26
Manganese	257.61	0.045	1.7	7.0		1	ICPST	8/21/00	23:26
Mercury	253.7	0.019	0.11	0.019	U	1	CVAA	8/21/00	15:34
Molybdenum	202.03	0.21	4.5	0.21	U	1	ICPST	8/21/00	23:26
Nickel	231.60	0.21	4.5	0.73	B	1	ICPST	8/21/00	23:26
Potassium	766.49	5.9	562	63.9	B	1	ICPST	8/21/00	23:26
Selenium	196.03	0.48	0.56	0.48	U	1	ICPST	8/21/00	23:26
Silver	328.07	0.35	0.56	0.35	U	1	ICPST	8/21/00	23:26
Sodium	330.23	49.4	562	1100		1	ICPST	8/21/00	23:26
Thallium	190.86	0.60	1.1	0.60	U	1	ICPST	8/21/00	23:26
Tin	189.99	0.32	11.2	2.2	B	1	ICPST	8/21/00	23:26
Vanadium	292.40	0.16	5.6	1.9	B	1	ICPST	8/21/00	23:26
Zinc	213.86	0.068	2.3	19.4	NL	1	ICPST	8/21/00	23:26

Comments: Lot #: A0H030185 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9MJ Client ID: MPT-55-SS-08-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 11.28

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.1	22.5	1760	NL*	1	ICPST	8/21/00	23:30
Antimony	206.84	0.49	1.1	0.49	U	1	ICPST	8/21/00	23:30
Arsenic	189.04	0.41	1.1	1.3		1	ICPST	8/21/00	23:30
Barium	493.41	0.045	22.5	16.8	B	1	ICPST	8/21/00	23:30
Beryllium	313.04	0.023	0.56	0.054	B	1	ICPST	8/21/00	23:30
Cadmium	226.50	0.045	0.23	1.3		1	ICPST	8/21/00	23:30
Calcium	317.93	0.92	564	13300		1	ICPST	8/21/00	23:30
Chromium	267.72	0.23	0.56	10.6		1	ICPST	8/22/00	12:45
Cobalt	228.62	0.25	5.6	1.2	B	1	ICPST	8/21/00	23:30
Copper	324.75	0.21	2.8	36.4	N	1	ICPST	8/21/00	23:30
Iron	271.44	3.1	11.3	2950		1	ICPST	8/21/00	23:30
Lead	220.35	0.15	0.34	80.9		1	ICPST	8/21/00	23:30
Magnesium	279.08	1.5	564	714		1	ICPST	8/21/00	23:30
Manganese	257.61	0.045	1.7	32.9		1	ICPST	8/21/00	23:30
Mercury	253.7	0.019	0.11	0.29		1	CVAA	8/21/00	15:38
Molybdenum	202.03	0.21	4.5	0.21	U	1	ICPST	8/21/00	23:30
Nickel	231.60	0.21	4.5	3.6	B	1	ICPST	8/21/00	23:30
Potassium	766.49	5.9	564	139	B	1	ICPST	8/21/00	23:30
Selenium	196.03	0.49	0.56	0.49	U	1	ICPST	8/21/00	23:30
Silver	328.07	0.35	0.56	0.35	U	1	ICPST	8/21/00	23:30
Sodium	330.23	49.5	564	113	B	1	ICPST	8/21/00	23:30
Thallium	190.86	0.60	1.1	0.60	U	1	ICPST	8/21/00	23:30
Tin	189.99	0.32	11.3	3.5	B	1	ICPST	8/21/00	23:30
Vanadium	292.40	0.16	5.6	4.4	B	1	ICPST	8/21/00	23:30
Zinc	213.86	0.068	2.3	323	NL	1	ICPST	8/21/00	23:30

Comments: Lot #: A0H030185 Sample #: 4

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DHD49 Client ID: MPT-55-SS-09-01
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 13.75

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	2.2	23.2	193	NL*	1	ICPST	8/21/00	23:50
Antimony	206.84	0.50	1.2	0.50	U	1	ICPST	8/21/00	23:50
Arsenic	189.04	0.42	1.2	0.42	B	1	ICPST	8/21/00	23:50
Barium	493.41	0.046	23.2	2.7	B	1	ICPST	8/21/00	23:50
Beryllium	313.04	0.023	0.58	0.023	U	1	ICPST	8/21/00	23:50
Cadmium	226.50	0.046	0.23	0.046	U	1	ICPST	8/21/00	23:50
Calcium	317.93	0.95	580	3460		1	ICPST	8/21/00	23:50
Chromium	267.72	0.23	0.58	1.4		1	ICPST	8/22/00	13:06
Cobalt	228.62	0.26	5.8	0.26	U	1	ICPST	8/21/00	23:50
Copper	324.75	0.22	2.9	0.38	BN	1	ICPST	8/21/00	23:50
Iron	271.44	3.2	11.6	366		1	ICPST	8/21/00	23:50
Lead	220.35	0.15	0.35	0.79		1	ICPST	8/21/00	23:50
Magnesium	279.08	1.6	580	102	B	1	ICPST	8/21/00	23:50
Manganese	257.61	0.046	1.7	4.2		1	ICPST	8/21/00	23:50
Mercury	253.7	0.019	0.12	0.019	U	1	CVAA	8/21/00	15:44
Molybdenum	202.03	0.22	4.6	0.22	U	1	ICPST	8/21/00	23:50
Nickel	231.60	0.22	4.6	0.39	B	1	ICPST	8/21/00	23:50
Potassium	766.49	6.1	580	30.0	B	1	ICPST	8/21/00	23:50
Selenium	196.03	0.50	0.58	0.50	U	1	ICPST	8/21/00	23:50
Silver	328.07	0.36	0.58	0.36	U	1	ICPST	8/21/00	23:50
Sodium	330.23	50.9	580	78.5	B	1	ICPST	8/21/00	23:50
Thallium	190.86	0.61	1.2	0.61	U	1	ICPST	8/21/00	23:50
Tin	189.99	0.33	11.6	2.3	B	1	ICPST	8/21/00	23:50
Vanadium	292.40	0.16	5.8	0.97	B	1	ICPST	8/21/00	23:50
Zinc	213.86	0.070	2.3	1.7	BNL	1	ICPST	8/21/00	23:50

Comments: Lot #: A0H040127 Sample #: 3

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 1 Equivalent

APPENDIX C
SUPPORT DOCUMENTATION

SDG NARRATIVE

MP022

The following report contains the analytical results for twelve solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV Site, project number N0123. The samples were received August 1, 2 and 4, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The coolers were received at the laboratory at temperatures of 4.6, 3.6 and 2.3° C.

(See STL's Cooler Receipt Form for additional information.)

SAMPLE SUMMARY

A0H030175

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DH9GA	001	MPT-55-SS-01-01	07/31/00	13:39
DH9HM	002	MPT-55-SS-02-01	07/31/00	13:50
DH9HV	003	MPT-55-SS-03-01	07/31/00	14:20
DH9J2	004	MPT-55-SS-04-01	07/31/00	14:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0H030185

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DH9LH	001	MPT-55-SS-05-01	08/01/00	12:05
DH9M9	002	MPT-55-SS-06-01	08/01/00	12:30
DH9MH	003	MPT-55-SS-07-01	08/01/00	12:45
DH9MJ	004	MPT-55-SS-08-01	08/01/00	15:00
DH9MK	005	MPT-55-SD-01-01	08/01/00	11:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SAMPLE SUMMARY

A0H040127

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DHD3R	001	MPT-55-SD-02-01	08/03/00	11:40
DHD48	002	MPT-55-SD-03-01	08/03/00	12:10
DHD49	003	MPT-55-SS-09-01	08/03/00	12:30

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



466

PROJECT NO: N6123	SITE NAME: Mayport Grp IV	PROJECT MANAGER AND PHONE NUMBER: T. Hansen	LABORATORY NAME AND CONTACT: Quantaera
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER: Tom Thompson 904-281-0400	ADDRESS: 4101 Shuffel Dr NW
		CARRIER/WAYBILL NUMBER: Fed Ex 7908 6816 5131	CITY, STATE: N. Canton, OH

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS						COMMENTS
						TCL VOCs	TCL SVOCs	Metals, Pb, Cu, Ni	Molybdenum	PCBs	Dioxin/Furans		Organochlorine PEST.
7/31	1339	MPT-SS-SS-01-01	Soil	G	5	X	X	X	X	X	X	Cool to 4°C
	1350	MPT-SS-SS-02-01	↓	↓	5	↓	↓	↓	↓	↓	↓	
	1420	MPT-SS-SS-03-01	↓	↓	5	↓	↓	↓	↓	↓	↓	
	1445	MPT-SS-SS-04-01	↓	↓	5	X	X	X	X	X	X	

1. RELINQUISHED BY: 	DATE: 7-31-00	TIME: 1700	1. RECEIVED BY: 	DATE: 8-1-00	TIME: 910
2. RELINQUISHED BY:	DATE:	TIME:	2. RECEIVED BY:	DATE:	TIME:
3. RELINQUISHED BY:	DATE:	TIME:	3. RECEIVED BY:	DATE:	TIME:

COMMENTS

STL North Canton



PROJECT NO: No 123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hance				LABORATORY NAME AND CONTACT: Chanterra					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson				ADDRESS							
		CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE							
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS TCL VOC TCL SVOC TAL Metals Mercury Cyanide Organohalogen Pesti. PCBs HCl MNO3 NaOH						COMMENTS	
83	1140	MPT-55-SW-02-01	SW	G	9	X	X	X	X	X	X	X	Cool to 4°C
	1140	MPT-55-SD-02-01	Soil		6	X	X	X	X	X	X	X	
	1210	MPT-55-SW-03-01	SW		9	X	X	X	X	X	X	X	
	1210	MPT-55-SD-03-01	Soil		6	X	X	X	X	X	X	X	
	1230	MPT-55-SS-09-01	Soil		6	X	X	X	X	X	X	X	
		TB080300	W		2	X							

1. RELINQUISHED BY 	DATE 8-3-00	TIME 1500	1. RECEIVED BY Terry Burns	DATE 8-4-00	TIME 9:05 AM
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

MP022

HOLDING TIME
09/08/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	CN	08/01/00	08/14/00	08/15/00	13	1	14
MG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	CN	08/03/00	08/15/00	08/16/00	12	1	13
MG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	CN	08/03/00	08/15/00	08/16/00	12	1	13
MG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	CN	07/31/00	08/12/00	08/12/00	12	0	12
MG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	CN	07/31/00	08/12/00	08/12/00	12	0	12
MG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	CN	07/31/00	08/12/00	08/12/00	12	0	12
MG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	CN	07/31/00	08/12/00	08/12/00	12	0	12
MG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	CN	08/01/00	08/14/00	08/15/00	13	1	14
MG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	CN	08/01/00	08/14/00	08/15/00	13	1	14
MG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	CN	08/01/00	08/14/00	08/15/00	13	1	14
MG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	CN	08/01/00	08/14/00	08/15/00	13	1	14
MG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	CN	08/03/00	08/15/00	08/16/00	12	1	13
MG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	HG	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	HG	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	HG	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	HG	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	HG	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	HG	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	HG	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	HG	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	HG	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	HG	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	HG	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	HG	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20

Units	Nsample	Lab Id	Qc Type	Sdg.	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	M	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	M	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	M	08/03/00	08/21/00	08/21/00	18	0	18
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	OS	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	OS	08/03/00	08/07/00	08/11/00	4	4	8
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	OS	08/03/00	08/07/00	08/11/00	4	4	8
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	OS	08/03/00	08/07/00	08/11/00	4	4	8
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	OV	08/03/00	08/10/00	08/10/00	7	0	7
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	OV	08/03/00	08/10/00	08/10/00	7	0	7
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	OV	07/31/00	08/08/00	08/08/00	8	0	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	OV	07/31/00	08/08/00	08/08/00	8	0	8
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	OV	07/31/00	08/08/00	08/08/00	8	0	8
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	OV	07/31/00	08/10/00	08/10/00	10	0	10
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	OV	08/03/00	08/10/00	08/10/00	7	0	7
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	PCB	08/03/00	08/09/00	08/14/00	6	5	11
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	PCB	08/03/00	08/09/00	08/14/00	6	5	11
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	PCB	08/03/00	08/09/00	08/14/00	6	5	11
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	PEST	08/01/00	08/04/00	08/08/00	3	4	7
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	PEST	08/03/00	08/09/00	08/11/00	6	2	8
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	PEST	08/03/00	08/09/00	08/11/00	6	2	8
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	PEST	08/01/00	08/04/00	08/08/00	3	4	7
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	PEST	08/01/00	08/04/00	08/12/00	3	8	11
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	PEST	08/01/00	08/04/00	08/08/00	3	4	7
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	PEST	08/01/00	08/04/00	08/08/00	3	4	7
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	PEST	08/03/00	08/09/00	08/12/00	6	3	9

SDG NARRATIVE

MP022

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS/Sample Duplicate Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: A0H030175

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	Work Order #: DHQM101 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	A0H120000-106 08/12/00	0225106
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DHQD101 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A0H090000-339 08/09-08/10/00	0222339
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: AOH030185

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DHTV8101 0.50	mg/kg	MB Lot-Sample #: SW846 9012A	AOH150000-156 08/14-08/15/00	0228156
		Dilution Factor: 1				
Percent Solids	ND	Work Order #: DHKQD101 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	AOH090000-339 08/09-08/10/00	0222339
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: AOH040127

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	0.50	mg/kg	SW846 9012A	08/15-08/16/00	0228589
		Dilution Factor: 1				
Percent Solids	ND	10.0	%	MCAWW 160.3 MOD	08/07-08/08/00	0220212
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SDG NARRATIVE

MP022

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the IDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

STL North Canton
Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 8/21/00 8:48 AM		CCV 8/21/00 9:54 AM		CCV 8/21/00 11:02 AM		CCV 8/21/00 12:01 PM		CCV 8/21/00 1:06 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	24944.51	99.8	24994.06	100.0	25661.81	102.6	25175.40	100.7	24610.07	98.4
Antimony	206.838	500.0	506.92	101.4	511.43	102.3	520.34	104.1	487.15	97.4	466.83	93.4
Arsenic	189.042	500.0	505.82	101.2	515.17	103.0	527.37	105.5	502.09	100.4	483.85	96.8
Barium	493.409	2000.0	1994.91	99.7	1985.10	99.3	2046.56	102.3	2016.82	100.8	1963.61	98.2
Beryllium	313.042	2000.0	2023.64	101.2	2038.33	101.9	2105.57	105.3	2062.32	103.1	2029.96	101.5
Cadmium	226.502	500.0	509.25	101.8	516.72	103.3	527.10	105.4	496.88	99.4	477.05	95.4
Calcium	317.933	50000.0	49097.38	98.2	49311.62	98.6	50715.29	101.4	49838.26	99.7	49302.58	98.6
Cobalt	228.616	2000.0	2047.08	102.4	2062.72	103.1	2094.51	104.7	1988.94	99.4	1918.57	95.9
Copper	324.753	2000.0	1999.04	100.0	2014.35	100.7	2060.87	103.0	1986.86	99.3	1913.26	95.7
Iron	271.441	25000.0	25601.09	102.4	25718.17	102.9	26274.51	105.1	25354.81	101.4	24691.63	98.8
Lead	220.353	500.0	504.01	100.8	505.54	101.1	518.86	103.8	502.86	100.6	490.05	98.0
Magnesium	279.078	50000.0	50375.89	100.8	50701.75	101.4	52787.34	105.6	52284.68	104.6	51886.79	103.8
Manganese	257.61	2000.0	2023.87	101.2	2036.51	101.8	2079.77	104.0	2010.47	100.5	1952.43	97.6
Molybdenum	202.03	2000.0	2006.12	100.3	2012.58	100.6	2030.91	101.5	1929.20	96.5	1868.03	93.4
Nickel	231.604	2000.0	2049.58	102.5	2054.37	102.7	2112.27	105.6	2046.53	102.3	1999.26	100.0
Potassium	766.491	50000.0	50745.76	101.5	51175.44	102.4	52765.19	105.5	53058.32	106.1	52878.89	105.8
Selenium	196.026	500.0	518.11	103.6	526.47	105.3	532.71	106.5	486.01	97.2	462.77	92.6
Silver	328.068	1000.0	951.36	95.1	957.79	95.8	985.08	98.5	970.36	97.0	958.38	95.8
Sodium	330.232	50000.0	49147.26	98.3	49446.76	98.9	50604.72	101.2	49822.46	99.6	48832.97	97.7
Thallium	190.864	1000.0	1021.23	102.1	1051.61	105.2	1053.26	105.3	958.14	95.8	906.06	90.6
Tin	189.989	5000.0	5101.25	102.0	5109.05	102.2	5052.40	101.0	4564.61	91.3	4262.38	85.2
Vanadium	292.402	2000.0	1986.81	99.3	2001.49	100.1	2046.28	102.3	1973.10	98.7	1903.63	95.2
Zinc	213.856	2000.0	2031.21	101.6	2040.09	102.0	2097.89	104.9	2055.61	102.8	2026.41	101.3

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Acceptable Range: 90% - 110%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	CCV 8/21/00 2:06 PM		CCV 8/21/00 2:53 PM		CCV 8/21/00 3:15 PM		CCV 8/21/00 4:20 PM		CCV 8/21/00 4:41 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	24865.19	99.5	25032.13	100.1	24692.36	98.8	25111.64	100.4	24931.36	99.7
Antimony	206.838	500.0	456.29	91.3	451.69	90.3	504.30	100.9	503.74	100.7	498.16	99.6
Arsenic	189.042	500.0	475.48	95.1	471.65	94.3	508.06	101.6	514.99	103.0	507.73	101.5
Barium	493.409	2000.0	1971.73	98.6	1970.19	98.5	1956.92	97.8	1993.49	99.7	1980.31	99.0
Beryllium	313.042	2000.0	2060.61	103.0	2084.60	104.2	2039.05	102.0	2082.52	104.1	2062.41	103.1
Cadmium	226.502	500.0	468.58	93.7	463.35	92.7	510.21	102.0	515.00	103.0	507.99	101.6
Calcium	317.933	50000.0	50594.92	101.2	51313.13	102.6	48678.99	97.4	49951.42	99.9	49494.51	99.0
Cobalt	228.616	2000.0	1907.41	95.4	1906.71	95.3	2022.61	101.1	2038.98	101.9	2011.31	100.6
Copper	324.753	2000.0	1898.92	94.9	1888.02	94.4	1992.62	99.6	2011.30	100.6	1990.72	99.5
Iron	271.441	25000.0	24705.36	98.8	24634.14	98.5	25480.18	101.9	25903.42	103.6	25666.81	102.7
Lead	220.353	500.0	492.02	98.4	497.29	99.5	493.20	98.6	501.28	100.3	496.79	99.4
Magnesium	279.078	50000.0	53446.72	106.9	54256.80	108.5	51123.05	102.2	52600.85	105.2	52180.25	104.4
Manganese	257.61	2000.0	1953.03	97.7	1955.08	97.8	1995.02	99.8	2019.45	101.0	1997.78	99.9
Molybdenum	202.03	2000.0	1875.16	93.8	1891.06	94.6	1959.97	98.0	1977.79	98.9	1956.88	97.8
Nickel	231.604	2000.0	2012.68	100.6	2025.08	101.3	1973.92	98.7	2020.35	101.0	2004.75	100.2
Potassium	766.491	50000.0	54878.98	109.8	56362.42	112.7	51395.87	102.8	52657.47	105.3	52580.05	105.2
Selenium	196.026	500.0	448.04	89.6	441.36	88.3	540.87	108.2	538.84	107.8	528.15	105.6
Silver	328.068	1000.0	982.17	98.2	1000.61	100.1	952.38	95.2	969.85	97.0	963.02	96.3
Sodium	330.232	50000.0	49345.98	98.7	49762.22	99.5	49457.36	98.9	50313.45	100.6	49983.79	100.0
Thallium	190.864	1000.0	878.91	87.9	872.54	87.3	1028.88	102.9	1020.18	102.0	996.37	99.6
Tin	189.989	5000.0	4066.39	81.3	3981.63	79.6	5124.63	102.5	5111.92	102.2	5026.12	100.5
Vanadium	292.402	2000.0	1880.52	94.0	1855.18	92.8	1981.50	99.1	2005.19	100.3	1981.32	99.1
Zinc	213.856	2000.0	2064.80	103.2	2092.39	104.6	1971.18	98.6	2018.48	100.9	2006.34	100.3

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10821b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 8/21/00 10:00 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.6	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50822a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 8/22/00 10:02 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Chromium	267.716	5	2.0	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 8/21/00 8:23 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	18.8	U								
Antimony	206.838	10	4.3	U								
Arsenic	189.042	10	3.6	U								
Barium	493.409	200	0.5	B								
Beryllium	313.042	5	0.5	B								
Cadmium	226.502	2	0.4	U								
Calcium	317.933	5000	37.7	B								
Cobalt	228.616	50	2.2	U								
Copper	324.753	25	1.9	U								
Iron	271.441	100	27.3	U								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	21.5	B								
Manganese	257.61	15	0.5	B								
Molybdenum	202.03	40	1.9	U								
Nickel	231.604	40	1.9	U								
Potassium	766.491	5000	52.4	U								
Selenium	196.026	5	4.3	U								
Silver	328.068	5	3.1	U								
Sodium	330.232	5000	439.0	U								
Thallium	190.864	10	5.3	U								
Tin	189.989	100	2.8	U								
Vanadium	292.402	50	1.4	U								
Zinc	213.856	20	1.1	B								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10821b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 8/21/00 10:04 AM	Ck1CCB 8/21/00 10:20 AM	Ck1CCB 8/21/00 10:35 AM	Ck1CCB 8/21/00 10:51 AM	Ck1CCB 8/21/00 11:06 AM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.6	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10821b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 8/21/00 11:21 AM		Ck1CCB 8/21/00 11:37 AM		Ck1CCB 8/21/00 11:54 AM		Ck1CCB 8/21/00 12:10 PM		Ck1CCB 8/21/00 12:22 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.6	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10821b.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 8/21/00 12:39 PM		Ck1CCB 8/21/00 12:53 PM		Ck1CCB 8/21/00 3:22 PM		Ck1CCB 8/21/00 3:37 PM		Ck1CCB 8/21/00 3:51 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Mercury	253.7	0.6	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i50822a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/22/00 10:57 AM		CCB 8/22/00 11:24 AM		CCB 8/22/00 12:30 PM		CCB 8/22/00 1:37 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Chromium	267.716	5	2.0	U	2.0	U	2.0	U	2.0	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/21/00 8:55 AM		CCB 8/21/00 10:01 AM		CCB 8/21/00 11:09 AM		CCB 8/21/00 12:08 PM		CCB 8/21/00 1:13 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	31.3	B	18.8	U	18.8	U	18.8	U	-33.0	B
Antimony	206.838	10	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
Barium	493.409	200	0.9	B	1.0	B	1.0	B	0.8	B	0.9	B
Beryllium	313.042	5	0.9	B	0.9	B	0.9	B	0.9	B	1.1	B
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Calcium	317.933	5000	50.0	B	34.8	B	29.0	B	16.4	B	8.2	U
Cobalt	228.616	50	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Copper	324.753	25	1.9	U	2.2	B	1.9	U	1.9	U	-2.1	B
Iron	271.441	100	27.3	U	31.3	B	31.7	B	27.3	U	27.3	U
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	49.2	B	24.4	B	24.8	B	25.9	B	19.9	B
Manganese	257.61	15	0.8	B	2.2	B	2.1	B	0.8	B	0.8	B
Molybdenum	202.03	40	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Nickel	231.604	40	1.9	U	10.9	B	11.1	B	1.9	U	1.9	U
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U	52.4	U	52.4	U
Selenium	196.026	5	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Silver	328.068	5	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U	439.0	U	439.0	U
Thallium	190.864	10	5.3	U	5.3	U	5.3	U	5.3	U	5.3	U
Tin	189.989	100	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
Vanadium	292.402	50	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Zinc	213.856	20	1.3	B	2.4	B	2.4	B	1.6	B	1.7	B

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/21/00 2:12 PM		CCB 8/21/00 2:59 PM		CCB 8/21/00 3:20 PM		CCB 8/21/00 4:26 PM		CCB 8/21/00 4:47 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	-51.0	B	-90.0	B	18.8	U	18.8	U	18.8	U
Antimony	206.838	10	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
Barium	493.409	200	0.8	B	0.9	B	1.2	B	1.1	B	0.9	B
Beryllium	313.042	5	1.3	B	1.7	B	1.1	B	0.9	B	0.8	B
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Calcium	317.933	5000	-13.0	B	62.2	B	46.8	B	83.0	B	90.6	B
Cobalt	228.616	50	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Copper	324.753	25	-3.2	B	-3.3	B	2.0	B	1.9	U	1.9	U
Iron	271.441	100	33.0	B	30.0	B	27.3	U	27.3	U	28.5	B
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	23.9	B	47.5	B	24.9	B	44.4	B	41.8	B
Manganese	257.61	15	0.9	B	1.2	B	1.2	B	1.1	B	1.2	B
Molybdenum	202.03	40	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Nickel	231.604	40	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U	52.4	U	52.4	U
Selenium	196.026	5	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U
Silver	328.068	5	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U	439.0	U	439.0	U
Thallium	190.864	10	5.3	U	5.3	U	6.2	B	5.3	U	5.3	U
Tin	189.989	100	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
Vanadium	292.402	50	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Zinc	213.856	20	1.2	B	5.1	B	3.5	B	3.4	B	3.3	B

STL North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/21/00 9:13 PM		CCB 8/21/00 10:16 PM		CCB 8/21/00 11:21 PM		CCB 8/22/00 12:26 AM			
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	18.8	U	18.8	U	18.8	U	18.8	U		
Antimony	206.838	10	4.3	U	4.3	U	4.3	U	4.3	U		
Arsenic	189.042	10	3.6	U	3.6	U	3.6	U	3.6	U		
Barium	493.409	200	1.1	B	1.0	B	0.9	B	0.9	B		
Beryllium	313.042	5	1.1	B	0.9	B	0.9	B	1.0	B		
Cadmium	226.502	2	0.4	U	0.4	U	0.4	U	0.4	U		
Calcium	317.933	5000	18.6	B	20.2	B	36.8	B	14.6	B		
Cobalt	228.616	50	2.2	U	2.2	U	2.2	U	2.2	U		
Copper	324.753	25	1.9	U	1.9	U	1.9	U	1.9	U		
Iron	271.441	100	41.1	B	37.2	B	44.5	B	27.3	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	28.4	B	23.8	B	23.5	B	26.1	B		
Manganese	257.61	15	1.4	B	1.2	B	1.2	B	1.0	B		
Molybdenum	202.03	40	1.9	U	1.9	U	1.9	U	1.9	U		
Nickel	231.604	40	3.5	B	3.7	B	3.6	B	1.9	U		
Potassium	766.491	5000	52.4	U	52.4	U	52.4	U	52.4	U		
Selenium	196.026	5	4.3	U	4.3	U	4.3	U	4.3	U		
Silver	328.068	5	3.1	U	3.1	U	3.1	U	3.1	U		
Sodium	330.232	5000	439.0	U	439.0	U	439.0	U	439.0	U		
Thallium	190.864	10	5.3	U	5.3	U	5.3	U	5.3	U		
Tin	189.989	100	3.3	B	2.8	U	2.8	U	2.8	U		
Vanadium	292.402	50	1.4	U	1.4	U	1.4	U	1.4	U		
Zinc	213.856	20	1.6	B	1.2	B	1.0	B	1.4	B		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ5J9B
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	1.9	20.0	1.9	U	1	ICPST	8/21/00	22:05
Antimony	206.838	0.43	1.0	0.43	U	1	ICPST	8/21/00	22:05
Arsenic	189.042	0.36	1.0	0.36	U	1	ICPST	8/21/00	22:05
Barium	493.409	0.040	20.0	0.16	B	1	ICPST	8/21/00	22:05
Beryllium	313.042	0.020	0.50	0.020	U	1	ICPST	8/21/00	22:05
Cadmium	226.502	0.040	0.20	0.040	U	1	ICPST	8/21/00	22:05
Calcium	317.933	0.82	500	50.9	B	1	ICPST	8/21/00	22:05
Chromium	267.716	0.20	0.50	0.20	U	1	ICPST	8/22/00	11:29
Cobalt	228.616	0.22	5.0	0.22	U	1	ICPST	8/21/00	22:05
Copper	324.753	0.19	2.5	0.19	U	1	ICPST	8/21/00	22:05
Iron	271.441	2.7	10.0	2.7	U	1	ICPST	8/21/00	22:05
Lead	220.353	0.13	0.30	0.13	U	1	ICPST	8/21/00	22:05
Magnesium	279.078	1.3	500	5.9	B	1	ICPST	8/21/00	22:05
Manganese	257.61	0.040	1.5	0.12	B	1	ICPST	8/21/00	22:05
Mercury	253.7	0.017	0.10	0.017	U	1	CVAA	8/21/00	15:23
Molybdenum	202.03	0.19	4.0	0.19	U	1	ICPST	8/21/00	22:05
Nickel	231.604	0.19	4.0	0.19	U	1	ICPST	8/21/00	22:05
Potassium	766.491	5.2	500	5.2	U	1	ICPST	8/21/00	22:05
Selenium	196.026	0.43	0.50	0.43	U	1	ICPST	8/21/00	22:05
Silver	328.068	0.31	0.50	0.31	U	1	ICPST	8/21/00	22:05
Sodium	330.232	43.9	500	83.0	B	1	ICPST	8/21/00	22:05
Thallium	190.864	0.53	1.0	0.53	U	1	ICPST	8/21/00	22:05
Tin	189.989	0.28	10.0	2.3	B	1	ICPST	8/21/00	22:05
Vanadium	292.402	0.14	5.0	0.14	U	1	ICPST	8/21/00	22:05
Zinc	213.856	0.060	2.0	-0.43	B	1	ICPST	8/21/00	22:05

Comments: Lot #: A0H040127

Version 3.63.6 Beta

U Result is less than the IDL
 B Result is between IDL and RL

Form 3 Equivalent

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i50822a.arc

Acceptable Range: 0% - 0%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 8/22/00 10:24 AM				
				Found	Found	Found	Found	Found
Chromium	267.716	5		U				

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 8/21/00 8:35 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	537000					
Antimony	206.838	10		3					
Arsenic	189.042	10		2					
Barium	493.409	200		2					
Beryllium	313.042	5		0					
Cadmium	226.502	2		2					
Calcium	317.933		500000	567000					
Cobalt	228.616	50		37					
Copper	324.753	25		37					
Iron	271.441		200000	215000					
Lead	220.353	3		2					
Magnesium	279.078		500000	525000					
Manganese	257.61	15		8					
Molybdenum	202.03	40		-1					
Nickel	231.604	40		3					
Potassium	766.491	5000		5					
Selenium	196.026	5		2					
Silver	328.068	5		0					
Sodium	330.232	5000		-92					
Thallium	190.864	10		-5					
Tin	189.989	100		0					
Vanadium	292.402	50		2					
Zinc	213.856	20		7					

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i50822a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 8/22/00 10:44 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Chromium	267.716	500	458.3	91.7								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST

Units: ug/L

Chart Number: i60821a.arc

Acceptable Range: 80% - 120%

Standard Source: Ultra

Standard ID: _____

Element	WL/ Mass	True Conc	ICSAB 8/21/00 8:42 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	488358.5	97.7								
Antimony	206.838	1000	1041.0	104.1								
Arsenic	189.042	1000	1003.7	100.4								
Barium	493.409	500	520.3	104.1								
Beryllium	313.042	500	506.3	101.3								
Cadmium	226.502	1000	948.7	94.9								
Calcium	317.933	500000	515863.3	103.2								
Cobalt	228.616	500	484.0	96.8								
Copper	324.753	500	521.0	104.2								
Iron	271.441	200000	196074.3	98.0								
Lead	220.353	1000	969.3	96.9								
Magnesium	279.078	500000	482253.7	96.5								
Manganese	257.61	500	515.5	103.1								
Molybdenum	202.03	1000	976.4	97.6								
Nickel	231.604	1000	965.4	96.5								
Potassium	766.491	10000	11522.7	115.2								
Selenium	196.026	1000	1003.7	100.4								
Silver	328.068	1000	996.3	99.6								
Sodium	330.232	10000	10253.6	102.5								
Thallium	190.864	1000	1013.9	101.4								
Tin	189.989	1000	1007.1	100.7								
Vanadium	292.402	500	490.6	98.1								
Zinc	213.856	1000	1027.4	102.7								

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DH9GAS
 Original Sample ID: DH9GA Client ID: MPT-55-SS-01-01S
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 3.96

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	594		866	N	208.25	130.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Antimony	206.8	0.45	U	45.7		52.062	87.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Arsenic	189.0	0.92	B	189		208.25	90.1	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Barium	493.4	9.1	B	199		208.25	91.1	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Beryllium	313.0	0.035	B	5.0		5.2062	95.5	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Cadmium	226.5	0.085	B	4.9		5.2062	91.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Calcium	317.9	46300		47500	NC	5206.2		1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Chromium	267.7	2.3		20.2		20.825	85.5	1	1	ICPST	8/22/00	11:40	8/22/00	11:50
Cobalt	228.6	0.40	B	47.8		52.062	90.9	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Copper	324.8	50.7		27.8	N	26.031	-87.9	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Iron	271.4	1260		1010	NC	104.12		1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Lead	220.4	6.1		51.2		52.062	86.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Magnesium	279.1	452	B	5500		5206.2	97.0	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Manganese	257.6	12.6		62.8		52.062	96.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Mercury	253.7	0.017	U	0.16		0.1735	91.3	1	1	CVAA	8/21/00	15:26	8/21/00	15:27
Molybdenum	202.0	0.20	U	91.9		104.12	88.2	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Nickel	231.6	1.2	B	48.6		52.062	91.0	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Potassium	766.5	63.8	B	5570		5206.2	105.7	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Selenium	196.0	0.45	U	201		208.25	96.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Silver	328.1	0.32	U	5.5		5.2062	104.7	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Sodium	330.2	382	B	5460		5206.2	97.6	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Thallium	190.9	0.55	U	197		208.25	94.6	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Tin	190	6.1	B	191		208.25	88.9	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Vanadium	292.4	2.2	B	51.8		52.062	95.2	1	1	ICPST	8/21/00	22:27	8/21/00	22:37
Zinc	213.9	30.6		61.9	N	52.062	60.0	1	1	ICPST	8/21/00	22:27	8/21/00	22:37

Comments: Lot #: A0H030175 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL

B Result is between IDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DH9GAD
 Original Sample ID: DH9GA Client ID: MPT-55-SS-01-01D
 Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119
 Weight: 1.00 Volume: 100 Percent Moisture: 3.96

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	594	N	1030	N *	208.25	210.6	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Antimony	206.8	0.45	U	46.3		52.062	89.0	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Arsenic	189.0	0.92	B	189		208.25	90.5	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Barium	493.4	9.1	B	210		208.25	96.2	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Beryllium	313.0	0.035	B	5.1		5.2062	96.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Cadmium	226.5	0.085	B	4.9		5.2062	92.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Calcium	317.9	46300		59000	NC	5206.2		1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Chromium	267.7	2.3		20.5		20.825	87.1	1	1	ICPST	8/22/00	11:40	8/22/00	11:55
Cobalt	228.6	0.40	B	48.2		52.062	91.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Copper	324.8	50.7	N	28.8	N	26.031	84.1	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Iron	271.4	1260		1150	NC	104.12		1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Lead	220.4	6.1		52.1		52.062	88.5	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Magnesium	279.1	452	B	5550		5206.2	97.9	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Manganese	257.6	12.6		61.7		52.062	94.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Mercury	253.7	0.017	U	0.17		0.1735	96.0	1	1	CVAA	8/21/00	15:26	8/21/00	15:28
Molybdenum	202.0	0.20	U	92.7		104.12	89.0	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Nickel	231.6	1.2	B	49.1		52.062	91.9	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Potassium	766.5	63.8	B	5730		5206.2	108.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Selenium	196.0	0.45	U	204		208.25	97.7	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Silver	328.1	0.32	U	5.6		5.2062	106.8	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Sodium	330.2	382	B	5670		5206.2	101.6	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Thallium	190.9	0.55	U	199		208.25	95.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Tin	190	6.1	B	192		208.25	89.4	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Vanadium	292.4	2.2	B	52.6		52.062	96.7	1	1	ICPST	8/21/00	22:27	8/21/00	22:42
Zinc	213.9	30.6	N	64.0	N	52.062	64.1	1	1	ICPST	8/21/00	22:27	8/21/00	22:42

Comments: Lot #: A0H030175 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DH9GAD

Matrix Spike Sample ID: DH9GAS Client ID: MPT-55-SS-01-01D

Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119

Weight: 1.00 Volume: 100 Percent Moisture: 3.96

Element	WL/ Mass	MS Conc	O	MSD Conc	O	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	866	N	1030	N *	47.0 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Antimony	206.838	45.7		46.3		1.3 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Arsenic	189.042	189		189		0.5 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Barium	493.409	199		210		5.5 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Beryllium	313.042	5.0		5.1		0.9 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Cadmium	226.502	4.9		4.9		1.0 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Calcium	317.933	47500	NC	59000	NC		1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Chromium	267.716	20.2		20.5		8.2 %	1	1	ICPST	8/22/00	11:50	8/22/00	11:55
Cobalt	228.616	47.8		48.2		0.9 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Copper	324.753	27.8	N	28.8	N	-4.4 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Iron	271.441	1010	NC	1150	NC		1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Lead	220.353	51.2		52.1		2.0 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Magnesium	279.078	5500		5550		0.9 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Manganese	257.61	62.8		61.7		2.1 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Mercury	253.7	0.16		0.17		5.0 %	1	1	CVAA	8/21/00	15:27	8/21/00	15:28
Molybdenum	202.03	91.9		92.7		0.9 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Nickel	231.604	48.6		49.1		1.0 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Potassium	766.491	5570		5730		2.8 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Selenium	196.026	201		204		1.3 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Silver	328.068	5.5		5.6		2.0 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Sodium	330.232	5460		5670		4.1 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Thallium	190.864	197		199		0.9 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Tin	189.989	191		192		0.6 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Vanadium	292.402	51.8		52.6		1.5 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42
Zinc	213.856	61.9	N	64.0	N	6.5 %	1	1	ICPST	8/21/00	22:37	8/21/00	22:42

Comments: Lot #: A0H030175 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL

B Result is between IDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DH9GAL

Original Sample ID: DH9GA Client ID: MPT-55-SS-01-01

Matrix: Soil Units: mg/kg Prep Date: 8/21/00 Prep Batch: 0234119

Weight: 1.00 Volume: 100 Percent Moisture: 3.96

Element	WL/ Mass	OS Conc		Serial Dilution Conc		Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	594	N	884	L	48.8 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Antimony	206.838	0.45	U	2.2	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Arsenic	189.042	0.92	B	1.9	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Barium	493.409	9.1	B	9.1	B	0.3 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Beryllium	313.042	0.035	B	0.10	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Cadmium	226.502	0.085	B	0.21	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Calcium	317.933	46300		42800		7.5 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Chromium	267.716	2.3		2.7			1	5	ICPST	8/22/00	11:40	8/22/00	11:45
Cobalt	228.616	0.40	B	1.2	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Copper	324.753	50.7	N	50.3		0.8 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Iron	271.441	1260		1280		0.9 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Lead	220.353	6.1		6.2			1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Magnesium	279.078	452	B	453	B	0.2 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Manganese	257.61	12.6		12.8		1.4 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Molybdenum	202.03	0.20	U	0.99	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Nickel	231.604	1.2	B	3.0	B		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Potassium	766.491	63.8	B	67.8	B		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Selenium	196.026	0.45	U	2.2	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Silver	328.068	0.32	U	1.6	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Sodium	330.232	382	B	407	B		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Thallium	190.864	0.55	U	2.8	U		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Tin	189.989	6.1	B	6.4	B		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Vanadium	292.402	2.2	B	2.2	B		1	5	ICPST	8/21/00	22:27	8/21/00	22:32
Zinc	213.856	30.6	N	43.1	L	40.8 %	1	5	ICPST	8/21/00	22:27	8/21/00	22:32

Comments: _____

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.6	0.10	7/7/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	18.8	7/14/00
Antimony	206.84	10	4.3	7/14/00
Arsenic	189.04	10	3.6	7/14/00
Barium	493.41	200	0.40	7/14/00
Beryllium	313.04	5	0.20	7/14/00
Cadmium	226.50	2	0.40	7/14/00
Calcium	317.93	5000	8.2	7/14/00
Chromium	267.72	5	2.0	7/14/00
Cobalt	228.62	50	2.2	7/14/00
Copper	324.75	25	1.9	7/14/00
Iron	271.44	100	27.3	7/14/00
Lead	220.35	3	1.3	7/14/00
Magnesium	279.08	5000	13.4	7/14/00
Manganese	257.61	15	0.40	7/14/00
Molybdenum	202.03	40	1.9	7/14/00
Nickel	231.60	40	1.9	7/14/00
Potassium	766.49	5000	52.4	7/14/00
Selenium	196.03	5	4.3	7/14/00
Silver	328.07	5	3.1	7/14/00
Sodium	330.23	5000	439	7/14/00
Thallium	190.86	10	5.3	7/14/00
Tin	189.99	100	2.8	7/14/00
Vanadium	292.40	50	1.4	7/14/00
Zinc	213.86	20	0.60	7/14/00

BATCH NUMBER: 0234119

PREP DATE: 8/21/00

DUE DATE 8/21/00

INITIALS: LM

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
A0H030175	DH9GA	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/21/00			
	DH9GAS		_____g	_____g		
	DH9GAD		_____g	_____g		
A0H030175	DH9HM	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/21/00			
A0H030175	DH9HV	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/21/00			
A0H030175	DH9J2	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/21/00			
A0H030185	DH9LH	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/22/00			
A0H030185	DH9M9	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/22/00			
A0H030185	DH9MH	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/22/00			
A0H030185	DH9MJ	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/22/00			
A0H030185	DH9MK	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/22/00			
A0H040127	DHD3R	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/24/00			
A0H040127	DHD48	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/24/00			
A0H040127	DHD49	50	X _____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		8/24/00			
A0H210000	DJ5J9B	50	X _____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	DJ5J9C		<u>0.5 g less</u>	_____g	_____g	_____g
			Lot #246			

DO NOT
UPLOAD
Client 375241
SDG mPO22

BATCH NUMBER: 0234119

PREP DATE: 8/21/00
DUE DATE 8/21/00

INITIALS: LM

LEVEL 2
BLANK AND CHECK STANDARD ON BATCH ✓
MS/MSD AND PDS ON BATCH ✓
CURVE PREPPED FOR HG ✓
CORRECT SPIKES ADDED ✓
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG ✓

COMMENTS:

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY DC

ICP ELEMENTS WITHIN THE BATCH:

	AG	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE	KX	MG	MN	MO	NA	NI	PB	SB	SE	SN	TL	
MS/MSD 1:						ICP - 1		ICP - 2A			GFAA		HG		ODD								
DH9GA																							
MS/MSD 2:						ICP - 1		ICP - 2			GFAA		HG		ODD								
MS/MSD 3:						ICP - 1		ICP - 2			GFAA		HG		ODD								
CHECK :						ICP - 1		ICP - 2A			GFAA		HG		ODD								
DJ5J9																							
CHECK DUP:						ICP - 1		ICP - 2			GFAA		HG		ODD								
STANDARD NUMBERS						06761		06741					01849										01787

Analysis Run Log ICP-IL6

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: Instrument Upload                               Run Log - Page 1 :
: Started Tue Aug 22 09:00:34 2000 by COUNTSK      :
: Data File: UPL$CAN_DATA_ROOT:<TJA>I60821A.ARC;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	21-AUG-2000	08:01:00			I6
2	CALSTD	1	21-AUG-2000	08:06:00			I6
3	CAL	1	21-AUG-2000	08:10:00			I6
4	S100	1	21-AUG-2000	08:14:00			I6
5	ICV	1	21-AUG-2000	08:17:00			I6
6	ICB	1	21-AUG-2000	08:23:00			I6
7	CRI	1	21-AUG-2000	08:28:00			I6
8	ICSA	1	21-AUG-2000	08:35:00			I6
9	ICSAB	1	21-AUG-2000	08:42:00			I6
10	CCV	1	21-AUG-2000	08:48:00			I6
11	CCB	1	21-AUG-2000	08:55:00			I6
12	DHDT8	5	21-AUG-2000	09:00:00	0230333	AOH040195	I6
13	DHDTJ	2	21-AUG-2000	09:04:00	0230333	AOH040195	I6
14	DHDTJ	5	21-AUG-2000	09:09:00	0230333	AOH040195	I6
15	DHDV0	5	21-AUG-2000	09:14:00	0230333	AOH040195	I6
16	DHDV8	5	21-AUG-2000	09:19:00	0230333	AOH040195	I6
17	DJ1WJB	1	21-AUG-2000	09:27:00	0230331	AOH170000	I6
18	DJ1WJC	1	21-AUG-2000	09:31:00	0230331	AOH170000	I6
19	DJ16D	1	21-AUG-2000	09:38:00	0230331	AOH170161	I6
20	DJ16DL	1	21-AUG-2000	09:43:00			I6
21	DJ16DS	1	21-AUG-2000	09:48:00	0230331	AOH170161	I6
22	CCV	1	21-AUG-2000	09:54:00			I6
23	CCB	1	21-AUG-2000	10:01:00			I6
24	DJ16DD	1	21-AUG-2000	10:06:00	0230331	AOH170161	I6
25	DJ16X	1	21-AUG-2000	10:12:00	0230331	AOH170161	I6
26	DJ173	1	21-AUG-2000	10:17:00	0230331	AOH170161	I6
27	DJ179	1	21-AUG-2000	10:22:00	0230331	AOH170161	I6
28	DJ20DB	1	21-AUG-2000	10:28:00	0230342	AOH170000	I6
29	DJ20DC	1	21-AUG-2000	10:33:00	0230342	AOH170000	I6
30	DJ17D	1	21-AUG-2000	10:40:00	0230342	AOH170161	I6
31	DJ17DL	1	21-AUG-2000	10:45:00			I6
32	DJ17DS	1	21-AUG-2000	10:49:00	0230342	AOH170161	I6
33	DJ17DD	1	21-AUG-2000	10:55:00	0230342	AOH170161	I6
34	CCV	1	21-AUG-2000	11:02:00			I6
35	CCB	1	21-AUG-2000	11:09:00			I6
36	DHR5P	1	21-AUG-2000	11:13:00	0230100	AOH120178	I6
37	DHR5PL	1	21-AUG-2000	11:18:00			I6
38	DHR5T	1	21-AUG-2000	11:23:00	0230100	AOH120178	I6
39	DHRK2	1	21-AUG-2000	11:28:00	0230100	AOH140103	I6
40	DHRKE	1	21-AUG-2000	11:33:00	0230100	AOH140103	I6
41	DHRKH	1	21-AUG-2000	11:37:00	0230100	AOH140103	I6
42	DHRKK	1	21-AUG-2000	11:42:00	0230100	AOH140103	I6
43	DHRKN	1	21-AUG-2000	11:47:00	0230100	AOH140103	I6
44	DHRKV	1	21-AUG-2000	11:52:00	0230100	AOH140103	I6

----- (continued) -----

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:      Instrument Upload                      Run Log - Page 2 :
:      Started Tue Aug 22 09:00:35 2000 by COUNTSK          :
:      Data File: UPL$CAN_DATA_ROOT:<TJA>I60821A.ARC;1      :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DHRL7	1	21-AUG-2000	11:57:00	0230100	A0H140103	I6
46	CCV	1	21-AUG-2000	12:01:00			I6
47	CCB	1	21-AUG-2000	12:08:00			I6
48	DHRN8	1	21-AUG-2000	12:13:00	0230100	A0H140103	I6
49	DHHRX	1	21-AUG-2000	12:18:00	0230100	A0H080191	I6
50	DHHRX	5	21-AUG-2000	12:23:00	0230100	A0H080191	I6
51	DHHRXS	5	21-AUG-2000	12:27:00	0230100	A0H080191	I6
52	DHHRXD	5	21-AUG-2000	12:32:00	0230100	A0H080191	I6
53	DHHRXF	1	21-AUG-2000	12:39:00	0230100	A0H080191	I6
54	DHHW8	1	21-AUG-2000	12:44:00	0230100	A0H080191	I6
55	DHHW8F	1	21-AUG-2000	12:48:00	0230100	A0H080191	I6
56	DJ1VXB	1	21-AUG-2000	12:55:00	0230328	A0H170000	I6
57	DJ1VXC	1	21-AUG-2000	13:00:00	0230328	A0H170000	I6
58	CCV	1	21-AUG-2000	13:06:00			I6
59	CCB	1	21-AUG-2000	13:13:00			I6
60	DJ0TQ	1	21-AUG-2000	13:18:00	0230328	A0H170120	I6
61	DJ0TQL	1	21-AUG-2000	13:23:00			I6
62	DJ0TR	1	21-AUG-2000	13:27:00	0230328	A0H170120	I6
63	DJ0TV	1	21-AUG-2000	13:32:00	0230328	A0H170120	I6
64	DJ0TW	1	21-AUG-2000	13:37:00	0230328	A0H170120	I6
65	DJ0TX	1	21-AUG-2000	13:42:00	0230328	A0H170120	I6
66	DJ0V0	1	21-AUG-2000	13:47:00	0230328	A0H170120	I6
67	DJ0V1	1	21-AUG-2000	13:51:00	0230328	A0H170120	I6
68	DJ0V2	1	21-AUG-2000	13:56:00	0230328	A0H170120	I6
69	DJ0V3	1	21-AUG-2000	14:01:00	0230328	A0H170120	I6
70	CCV	1	21-AUG-2000	14:06:00			I6
71	CCB	1	21-AUG-2000	14:12:00			I6
72	DHRR1	1	21-AUG-2000	14:17:00	0230328	A0H140113	I6
73	DHRRF	1	21-AUG-2000	14:22:00	0230328	A0H140113	I6
74	DHRRG	1	21-AUG-2000	14:27:00	0230328	A0H140113	I6
75	DHRRGS	1	21-AUG-2000	14:32:00	0230328	A0H140113	I6
76	DHRRGD	1	21-AUG-2000	14:36:00	0230328	A0H140113	I6
77	DHRRJ	1	21-AUG-2000	14:43:00	0230328	A0H140113	I6
78	DHRRK	1	21-AUG-2000	14:48:00	0230328	A0H140113	I6
79	CCV	1	21-AUG-2000	14:53:00			I6
80	CCB	1	21-AUG-2000	14:59:00			I6
81	CCV	1	21-AUG-2000	15:15:00			I6
82	CCB	1	21-AUG-2000	15:20:00			I6
83	DJ1WJB	1	21-AUG-2000	15:24:00	0230331	A0H170000	I6
84	DJ1WJC	1	21-AUG-2000	15:29:00	0230331	A0H170000	I6
85	DJ179	5	21-AUG-2000	15:36:00	0230331	A0H170161	I6
86	DHDV0	20	21-AUG-2000	15:42:00	0230333	A0H040195	I6
87	DHDV8	20	21-AUG-2000	15:47:00	0230333	A0H040195	I6
88	DHRR1	1	21-AUG-2000	15:54:00	0230328	A0H140113	I6

SNV

SNV
TIV

SNV
TIV
sew

does not
bracket
samples
gap
10-11-00

(continued)

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:      Instrument Upload                               Run Log - Page 3 :
:      Started Tue Aug 22 09:00:35 2000 by COUNTSK      :
:      Data File: UPL$CAN_DATA_ROOT:<TJA>I60821A.ARC;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	DHRRF	1	21-AUG-2000	15:59:00	0230328	AOH140113	I6
90	DHRRG	1	21-AUG-2000	16:03:00	0230328	AOH140113	I6
91	DHRRGS	1	21-AUG-2000	16:08:00	0230328	AOH140113	I6
92	DHRRGD	1	21-AUG-2000	16:13:00	0230328	AOH140113	I6
93	CCV	1	21-AUG-2000	16:20:00			I6
94	CCB	1	21-AUG-2000	16:26:00			I6
95	DHRRJ	1	21-AUG-2000	16:31:00	0230328	AOH140113	I6
96	DHRRK	1	21-AUG-2000	16:36:00	0230328	AOH140113	I6
97	CCV	1	21-AUG-2000	16:41:00			I6
98	CCB	1	21-AUG-2000	16:47:00			I6
99	CCV	1	21-AUG-2000	21:06:00			I6
100	CCB	1	21-AUG-2000	21:13:00			I6
101	DJ34HBT	1	21-AUG-2000	21:18:00	0234099	AOH180000	I6
102	DJ5H4BT	1	21-AUG-2000	21:23:00	0234099	AOH210000	I6
103	DJ5H4CT	1	21-AUG-2000	21:27:00	0234099	AOH210000	I6
104	DJ5H4LT	1	21-AUG-2000	21:32:00	0234099	AOH210000	I6
105	DJ17RT	1	21-AUG-2000	21:39:00	0234099	AOH170161	I6
106	DJ17RTL	1	21-AUG-2000	21:44:00			I6
107	DJ186T	1	21-AUG-2000	21:48:00	0234099	AOH170161	I6
108	DJ188T	1	21-AUG-2000	21:53:00	0234099	AOH170161	I6
109	DJ18CT	1	21-AUG-2000	21:58:00	0234099	AOH170161	I6
110	DJ5J9B	1	21-AUG-2000	22:05:00	0234119	AOH210000	I6
111	CCV	1	21-AUG-2000	22:09:00			I6
112	CCB	1	21-AUG-2000	22:16:00			I6
113	DJ5J9C	1	21-AUG-2000	22:21:00	0234119	AOH210000	I6
114	DH9GA	1	21-AUG-2000	22:27:00	0234119	MP022	I6
115	DH9GAL	1	21-AUG-2000	22:32:00			I6
116	DH9GAS	1	21-AUG-2000	22:37:00	0234119	MP022	I6
117	DH9GAD	1	21-AUG-2000	22:42:00	0234119	MP022	I6
118	DH9HM	1	21-AUG-2000	22:48:00	0234119	MP022	I6
119	DH9HV	1	21-AUG-2000	22:53:00	0234119	MP022	I6
120	DH9J2	1	21-AUG-2000	22:58:00	0234119	MP022	I6
121	DH9LH	1	21-AUG-2000	23:03:00	0234119	MP022	I6
122	DH9M9	1	21-AUG-2000	23:08:00	0234119	MP022	I6
123	CCV	1	21-AUG-2000	23:14:00			I6
124	CCB	1	21-AUG-2000	23:21:00			I6
125	DH9MH	1	21-AUG-2000	23:26:00	0234119	MP022	I6
126	DH9MJ	1	21-AUG-2000	23:30:00	0234119	MP022	I6
127	DH9MK	1	21-AUG-2000	23:35:00	0234119	MP022	I6
128	DHD3R	1	21-AUG-2000	23:40:00	0234119	MP022	I6
129	DHD48	1	21-AUG-2000	23:45:00	0234119	MP022	I6
130	DHD49	1	21-AUG-2000	23:50:00	0234119	MP022	I6
131	DJ5J7B	1	21-AUG-2000	23:56:00	0234118	AOH210000	I6
132	DJ5J7C	1	22-AUG-2000	00:01:00	0234118	AOH210000	I6

(continued)

: Instrument Upload Run Log - Page 4 :
: Started Tue Aug 22 09:00:35 2000 by COUNTSK :
: Data File: UPLSCAN_DATA_ROOT:<TJA>I60821A.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	DH9PW	1	22-AUG-2000	00:07:00	0234118	MP024	I6
134	DH9PWL	1	22-AUG-2000	00:12:00			I6
135	CCV	1	22-AUG-2000	00:19:00			I6
136	CCB	1	22-AUG-2000	00:26:00			I6
137	DH9PWS	1	22-AUG-2000	00:30:00	0234118	MP024	I6
138	DH9PWD	1	22-AUG-2000	00:35:00	0234118	MP024	I6
139	DH9RG	1	22-AUG-2000	00:42:00	0234118	MP024	I6
140	DJ5JTB	1	22-AUG-2000	00:48:00	0234114	A0H210000	I6
141	DJ5JTC	1	22-AUG-2000	00:53:00	0234114	A0H210000	I6
142	DHRKJ	1	22-AUG-2000	01:00:00	0234114	A0H140103	I6
143	DHRKJL	1	22-AUG-2000	01:05:00			I6
144	DHRKJS	1	22-AUG-2000	01:09:00	0234114	A0H140103	I6
145	DHRKJD	1	22-AUG-2000	01:14:00	0234114	A0H140103	I6
146	DHRKF	1	22-AUG-2000	01:21:00	0234114	A0H140103	I6
147	CCV	1	22-AUG-2000	01:27:00			I6
148	CCB	1	22-AUG-2000	01:34:00			I6
149	DHRKJ	1	22-AUG-2000	01:39:00	0234114	A0H140103	I6
150	DHRJM	1	22-AUG-2000	01:44:00	0234114	A0H140103	I6
151	DHRJQ	1	22-AUG-2000	01:48:00	0234114	A0H140103	I6
152	DHRJW	1	22-AUG-2000	01:53:00	0234114	A0H140103	I6
153	DHRJ9	1	22-AUG-2000	01:58:00	0234114	A0H140103	I6
154	DHRJC	1	22-AUG-2000	02:03:00	0234114	A0H140103	I6
155	DHRJW	1	22-AUG-2000	02:08:00	0234114	A0H140103	I6
156	DHRJX	1	22-AUG-2000	02:12:00	0234114	A0H140103	I6
157	DHRJO	1	22-AUG-2000	02:17:00	0234114	A0H140103	I6
158	DHRM1	1	22-AUG-2000	02:22:00	0234114	A0H140103	I6
159	CCV	1	22-AUG-2000	02:29:00			I6
160	CCB	1	22-AUG-2000	02:35:00			I6
161	DHRM2	1	22-AUG-2000	02:40:00	0234114	A0H140103	I6
162	DHRM4	1	22-AUG-2000	02:45:00	0234114	A0H140103	I6
163	DHRM5	1	22-AUG-2000	02:50:00	0234114	A0H140103	I6
164	DHRM6	1	22-AUG-2000	02:54:00	0234114	A0H140103	I6
165	DHRM7	1	22-AUG-2000	02:59:00	0234114	A0H140103	I6
166	DHRM8	1	22-AUG-2000	03:04:00	0234114	A0H140103	I6
167	DHRM9	1	22-AUG-2000	03:09:00	0234114	A0H140103	I6
168	DHRML	1	22-AUG-2000	03:14:00	0234114	A0H140103	I6
169	DJ5HXB	1	22-AUG-2000	03:21:00	0234113	A0H210000	I6
170	DJ5HXC	1	22-AUG-2000	03:26:00	0234113	A0H210000	I6
171	CCV	1	22-AUG-2000	03:31:00			I6
172	CCB	1	22-AUG-2000	03:38:00			I6
173	DJ40P	1	22-AUG-2000	03:43:00	0234113	A0H180216	I6
174	DJ40PL	1	22-AUG-2000	03:47:00			I6
175	DJ40V	1	22-AUG-2000	03:52:00	0234113	A0H180216	I6
176	DHWRC	1	22-AUG-2000	03:57:00	0234113	A0H160123	I6

*VOID
MOR
8-29-00*

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Analysis Run Log ICP-15

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: Instrument Upload                               Run Log - Page 1 :
: Started Wed Aug 23 07:12:15 2000 by CORDELLM      :
: Data File: UPL$CAN_DATA_ROOT:<TJA>I50822A.ARC;1  :
  
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1	1	22-AUG-2000	09:43:00			I5
2	CALSTD	1	22-AUG-2000	09:48:00			I5
3	CAL	1	22-AUG-2000	09:53:00			I5
4	ICV	1	22-AUG-2000	09:57:00			I5
5	ICB	1	22-AUG-2000	10:02:00			I5
6	CRI	1	22-AUG-2000	10:07:00			I5
7	CALSTD	1	22-AUG-2000	10:12:00			I5
8	CAL	1	22-AUG-2000	10:17:00			I5
9	ICSA	1	22-AUG-2000	10:24:00			I5
10	ICSAB	1	22-AUG-2000	10:44:00			I5
11	CCV	1	22-AUG-2000	10:50:00			I5
12	CCB	1	22-AUG-2000	10:57:00			I5
13	DGV2M	1	22-AUG-2000	11:03:00	0230315	A0G260232	I5
14	DGV2MX	1	22-AUG-2000	11:08:00	0230315	A0G260232	I5
15	CCV	1	22-AUG-2000	11:17:00			I5
16	CCB	1	22-AUG-2000	11:24:00			I5
17	DJ5J9B	1	22-AUG-2000	11:29:00	0234119	A0H210000	I5
18	DJ5J9C	1	22-AUG-2000	11:34:00	0234119	A0H210000	I5
19	DH9GA	1	22-AUG-2000	11:40:00	0234119	MP022	I5
20	DH9GAL	1	22-AUG-2000	11:45:00			I5
21	DH9GAS	1	22-AUG-2000	11:50:00	0234119	MP022	I5
22	DH9GAD	1	22-AUG-2000	11:55:00	0234119	MP022	I5
23	DH9HM	1	22-AUG-2000	12:02:00	0234119	MP022	I5
24	DH9HV	1	22-AUG-2000	12:07:00	0234119	MP022	I5
25	DH9J2	1	22-AUG-2000	12:12:00	0234119	MP022	I5
26	DH9LH	1	22-AUG-2000	12:17:00	0234119	MP022	I5
27	CCV	1	22-AUG-2000	12:24:00			I5
28	CCB	1	22-AUG-2000	12:30:00			I5
29	DH9M9	1	22-AUG-2000	12:35:00	0234119	MP022	I5
30	DH9MH	1	22-AUG-2000	12:40:00	0234119	MP022	I5
31	DH9MJ	1	22-AUG-2000	12:45:00	0234119	MP022	I5
32	DH9MK	1	22-AUG-2000	12:51:00	0234119	MP022	I5
33	DHD3R	1	22-AUG-2000	12:56:00	0234119	MP022	I5
34	DHD48	1	22-AUG-2000	13:01:00	0234119	MP022	I5
35	DHD49	1	22-AUG-2000	13:06:00	0234119	MP022	I5
36	DJ5J7B	1	22-AUG-2000	13:12:00	0234118	A0H210000	I5
37	DJ5J7C	1	22-AUG-2000	13:17:00	0234118	A0H210000	I5
38	DH9FW	1	22-AUG-2000	13:24:00	0234118	MP024	I5
39	CCV	1	22-AUG-2000	13:31:00			I5
40	CCB	1	22-AUG-2000	13:37:00			I5
41	DH9FWL	1	22-AUG-2000	13:42:00			I5
42	DHPH7	5	22-AUG-2000	13:49:00	0230320	A0H110166	I5
43	DHPH7L	1	22-AUG-2000	13:54:00			I5
44	DHPH7S	5	22-AUG-2000	13:59:00	0230320	A0H110166	I5

VOID
MO
8-29-00

(continued)

Analysis Run Log

: Instrument Upload Run Log - Page 1 :
: Started Mon Aug 21 15:01:56 2000 by IRWINS :
: Data File: UPL\$CAN_DATA_ROOT:<LHG>HG10821B.PRN;1 :

CWAA

Hg-H1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	21-AUG-2000	09:51:07			H1
2	STD2REP1	1	21-AUG-2000	09:52:24			H1
3	STD3REP1	1	21-AUG-2000	09:53:52			H1
4	STD4REP1	1	21-AUG-2000	09:55:28			H1
5	STD5REP1	1	21-AUG-2000	09:56:44			H1
6	STD6REP1	1	21-AUG-2000	09:58:00			H1
7	CK5ICV	1	21-AUG-2000	09:59:12			H1
8	CK4ICB	1	21-AUG-2000	10:00:20			H1
9	CK3CRA	1	21-AUG-2000	10:01:28			H1
10	CK2CCV	1	21-AUG-2000	10:02:36			H1
11	CK1CCB	1	21-AUG-2000	10:04:21			H1
12	DHX2MB	1	21-AUG-2000	10:05:48			H1
13	DHX2MC	1	21-AUG-2000	10:07:14			H1
14	DHG5C	1	21-AUG-2000	10:08:59			H1
15	DHG5F	1	21-AUG-2000	10:10:24			H1
16	DHG5G	1	21-AUG-2000	10:11:32			H1
17	DHG5L	1	21-AUG-2000	10:12:37			H1
18	DHG5N	1	21-AUG-2000	10:14:04			H1
19	DHG5V	1	21-AUG-2000	10:15:10			H1
20	DHG5X	1	21-AUG-2000	10:16:19			H1
21	DHG58	1	21-AUG-2000	10:17:29			H1
22	CK2CCV	1	21-AUG-2000	10:18:49			H1
23	CK1CCB	1	21-AUG-2000	10:20:29			H1
24	DHG58S	1	21-AUG-2000	10:21:35			H1
25	DHG58D	1	21-AUG-2000	10:22:50			H1
26	DHG6A	1	21-AUG-2000	10:24:04			H1
27	DHG6D	1	21-AUG-2000	10:25:14			H1
28	DHG6G	1	21-AUG-2000	10:26:49			H1
29	DHG6K	1	21-AUG-2000	10:27:57			H1
30	DHG6N	1	21-AUG-2000	10:29:28			H1
31	DHG6P	1	21-AUG-2000	10:30:46			H1
32	DHG6R	1	21-AUG-2000	10:31:53			H1
33	DHG6T	1	21-AUG-2000	10:33:00			H1
34	CK2CCV	1	21-AUG-2000	10:34:26			H1
35	CK1CCB	1	21-AUG-2000	10:35:53			H1
36	DHG61	1	21-AUG-2000	10:36:58			H1
37	DHG65	1	21-AUG-2000	10:38:35			H1
38	DHG67	1	21-AUG-2000	10:39:52			H1
39	DHG70	1	21-AUG-2000	10:41:22			H1
40	DJ1X8B	1	21-AUG-2000	10:42:37			H1
41	DJ1X8C	1	21-AUG-2000	10:43:42			H1
42	DJ11Q	1	21-AUG-2000	10:45:30			H1
43	DJ121	1	21-AUG-2000	10:46:36			H1
44	DHDRA	1	21-AUG-2000	10:47:41	0230333	A0H040195	H1

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Instrument Upload

Run Log - Page 2 :

Started Mon Aug 21 15:01:56 2000 by IRWINS

Data File: UPL\$CAN_DATA_ROOT:<LHG>HG10821B.PRN;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DHDM	1	21-AUG-2000	10:49:11	0230333	A0H040195	H1
46	CK2CCV	1	21-AUG-2000	10:50:27			H1
47	CK1CCB	1	21-AUG-2000	10:51:42			H1
48	DHDTJ	1	21-AUG-2000	10:52:50	0230333	A0H040195	H1
49	DHDT8	1	21-AUG-2000	10:53:57	0230333	A0H040195	H1
50	DHDV0	1	21-AUG-2000	10:55:03	0230333	A0H040195	H1
51	DHDV8	1	21-AUG-2000	10:56:09	0230333	A0H040195	H1
52	DJ12M	1	21-AUG-2000	10:57:26			H1
53	DJ12MS	1	21-AUG-2000	10:58:33			H1
54	DJ12MD	1	21-AUG-2000	10:59:51			H1
55	DJ12Q	1	21-AUG-2000	11:01:11			H1
56	DJ12R	1	21-AUG-2000	11:02:39			H1
57	DHRMT	1	21-AUG-2000	11:03:49	0230333	A0H140103	H1
58	CK2CCV	1	21-AUG-2000	11:05:04			H1
59	CK1CCB	1	21-AUG-2000	11:06:21			H1
60	DHRN3	1	21-AUG-2000	11:07:26	0230333	A0H140103	H1
61	DHRN6	1	21-AUG-2000	11:08:45	0230333	A0H140103	H1
62	DJ1R3B	1	21-AUG-2000	11:09:54	0230315	A0H170000	H1
63	DJ1R3C	1	21-AUG-2000	11:11:10	0230315	A0H170000	H1
64	DGV2M	1	21-AUG-2000	11:12:41	0230315	A0G260232	H1
65	DGV2MX	1	21-AUG-2000	11:13:58	0230315	A0G260232	H1
66	DGV2MS	1	21-AUG-2000	11:15:04	0230315	A0G260232	H1
67	DJ1RNB	1	21-AUG-2000	11:16:12	0230316	A0H170000	H1
68	DJ1RNC	1	21-AUG-2000	11:17:27	0230316	A0H170000	H1
69	DHWN	1	21-AUG-2000	11:18:35	0230316	A0H160109	H1
70	CK2CCV	1	21-AUG-2000	11:19:52			H1
71	CK1CCB	1	21-AUG-2000	11:21:36			H1
72	DHWN	1	21-AUG-2000	11:22:51	0230316	A0H160109	H1
73	DHWN	1	21-AUG-2000	11:24:02	0230316	A0H160109	H1
74	DHWN	1	21-AUG-2000	11:25:20	0230316	A0H160109	H1
75	DHWN	1	21-AUG-2000	11:26:30	0230316	A0H160109	H1
76	DHWN	1	21-AUG-2000	11:28:06	0230316	A0H160109	H1
77	DHWN	1	21-AUG-2000	11:29:26	0230316	A0H160109	H1
78	DHWN	1	21-AUG-2000	11:30:34	0230316	A0H160109	H1
79	DHWN	1	21-AUG-2000	11:31:43	0230316	A0H160109	H1
80	DHWN	1	21-AUG-2000	11:32:49	0230316	A0H160109	H1
81	DHWN	1	21-AUG-2000	11:35:15	0230316	A0H160109	H1
82	CK2CCV	1	21-AUG-2000	11:36:24			H1
83	CK1CCB	1	21-AUG-2000	11:37:34			H1
84	DHWN	1	21-AUG-2000	11:39:32	0230316	A0H160109	H1
85	DJORN	1	21-AUG-2000	11:40:38	0230316	A0H170114	H1
86	DJOR	1	21-AUG-2000	11:42:16	0230316	A0H170114	H1
87	DJOR	1	21-AUG-2000	11:43:56	0230316	A0H170114	H1
88	DJOR	1	21-AUG-2000	11:45:04	0230316	A0H170114	H1

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: Instrument Upload                               Run Log - Page 3 :
: Started Mon Aug 21 15:01:56 2000 by IRWINS      :
: Data File: UPL$CAN_DATA_ROOT:<LHG>HG10821B.PRN;1 :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	DJOR3	1	21-AUG-2000	11:46:30	0230316	A0H170114	H1
90	DJOR4	1	21-AUG-2000	11:47:37	0230316	A0H170114	H1
91	DJOR5	1	21-AUG-2000	11:49:17	0230316	A0H170114	H1
92	DJOR6	1	21-AUG-2000	11:50:48	0230316	A0H170114	H1
93	DJOR8	1	21-AUG-2000	11:52:05	0230316	A0H170114	H1
94	CK2CCV	1	21-AUG-2000	11:53:22			H1
95	CK1CCB	1	21-AUG-2000	11:54:41			H1
96	DJOR7	1	21-AUG-2000	11:55:47	0230316	A0H170114	H1
97	DJ1VDB	1	21-AUG-2000	11:56:54	0230320	A0H170000	H1
98	DJ1VD	1	21-AUG-2000	11:58:01			H1
99	DHPHW	1	21-AUG-2000	11:59:08	0230320	A0H110166	H1
100	DHPH7	1	21-AUG-2000	12:00:14	0230320	A0H110166	H1
101	DHPH7S	1	21-AUG-2000	12:01:44	0230320	A0H110166	H1
102	DHPH7D	1	21-AUG-2000	12:03:32	0230320	A0H110166	H1
103	DJ1VXB	1	21-AUG-2000	12:05:01	0230328	A0H170000	H1
104	DJ1VXC	1	21-AUG-2000	12:06:58	0230328	A0H170000	H1
105	DHRRF	1	21-AUG-2000	12:08:05	0230328	A0H140113	H1
106	CK2CCV	1	21-AUG-2000	12:09:13			H1
107	CK1CCB	1	21-AUG-2000	12:10:20			H1
108	DHRRG	1	21-AUG-2000	12:11:25	0230328	A0H140113	H1
109	DHRRGS	1	21-AUG-2000	12:12:32	0230328	A0H140113	H1
110	DHRRGD	1	21-AUG-2000	12:13:43	0230328	A0H140113	H1
111	DHRRJ	1	21-AUG-2000	12:14:53	0230328	A0H140113	H1
112	DHRRK	1	21-AUG-2000	12:16:10	0230328	A0H140113	H1
113	DHRR1	1	21-AUG-2000	12:17:21	0230328	A0H140113	H1
114	DJ1WJB	1	21-AUG-2000	12:18:39	0230331	A0H170000	H1
115	DJ1WJC	1	21-AUG-2000	12:19:51	0230331	A0H170000	H1
116	CK2CCV	1	21-AUG-2000	12:20:57			H1
117	CK1CCB	1	21-AUG-2000	12:22:08			H1
118	CK2CCV	1	21-AUG-2000	12:38:04			H1
119	CK1CCB	1	21-AUG-2000	12:39:09			H1
120	DGV2M	10	21-AUG-2000	12:40:15	0230315	A0G260232	H1
121	DGV2MS	10	21-AUG-2000	12:41:19	0230315	A0G260232	H1
122	DGV2MD	10	21-AUG-2000	12:43:16			H1
123	DJ16D	1	21-AUG-2000	12:44:26	0230331	A0H170161	H1
124	DJ16DS	1	21-AUG-2000	12:46:00	0230331	A0H170161	H1
125	DJ16DD	1	21-AUG-2000	12:47:06	0230331	A0H170161	H1
126	DJ16X	1	21-AUG-2000	12:48:23	0230331	A0H170161	H1
127	DJ173	1	21-AUG-2000	12:49:30	0230331	A0H170161	H1
128	DJ179	1	21-AUG-2000	12:50:36	0230331	A0H170161	H1
129	CK2CCV	1	21-AUG-2000	12:51:52			H1
130	CK1CCB	1	21-AUG-2000	12:53:00			H1
131	CK2CCV	1	21-AUG-2000	15:21:03			H1
132	CK1CCB	1	21-AUG-2000	15:22:29			H1

(continued)

Instrument Upload

Run Log - Page 4 :

Started Mon Aug 21 15:01:56 2000 by IRWINS

Data File: UPL\$CAN_DATA_ROOT:<LHG>HG10821B.PRN;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	DJ5J9B	1	21-AUG-2000	15:23:55	0234119	AOH210000	H1
134	DJ5J9C	1	21-AUG-2000	15:24:59	0234119	AOH210000	H1
135	DH9GA	1	21-AUG-2000	15:26:14	0234119	MP022	H1
136	DH9GAS	1	21-AUG-2000	15:27:23	0234119	MP022	H1
137	DH9GAD	1	21-AUG-2000	15:28:28	0234119	MP022	H1
138	DH9HM	1	21-AUG-2000	15:29:37	0234119	MP022	H1
139	DH9HV	1	21-AUG-2000	15:30:43	0234119	MP022	H1
140	DH9J2	1	21-AUG-2000	15:31:51	0234119	MP022	H1
141	DH9LH	1	21-AUG-2000	15:33:37	0234119	MP022	H1
142	DH9MH	1	21-AUG-2000	15:34:53	0234119	MP022	H1
143	CK2CCV	1	21-AUG-2000	15:36:08			H1
144	CK1CCB	1	21-AUG-2000	15:37:15			H1
145	DH9MJ	1	21-AUG-2000	15:38:41	0234119	MP022	H1
146	DH9MK	1	21-AUG-2000	15:39:48	0234119	MP022	H1
147	DH9M9	1	21-AUG-2000	15:40:55	0234119	MP022	H1
148	DHD3R	1	21-AUG-2000	15:41:59	0234119	MP022	H1
149	DHD48	1	21-AUG-2000	15:43:16	0234119	MP022	H1
150	DHD49	1	21-AUG-2000	15:44:26	0234119	MP022	H1
151	DJ5J7B	1	21-AUG-2000	15:45:36	0234118	AOH210000	H1
152	DJ5J7C	1	21-AUG-2000	15:47:01	0234118	AOH210000	H1
153	DH9PW	1	21-AUG-2000	15:48:17	0234118	MP024	H1
154	DH9PWS	1	21-AUG-2000	15:49:22	0234118	MP024	H1
155	CK2CCV	1	21-AUG-2000	15:50:38			H1
156	CK1CCB	1	21-AUG-2000	15:51:43			H1
157	DH9PWP	1	21-AUG-2000	15:52:51	0234118	MP024	H1
158	DH9R6	1	21-AUG-2000	15:53:57	0234118	MP024	H1
159	DJ5J1B	1	21-AUG-2000	15:55:02	0234114	AOH210000	H1
160	DJ5J1C	1	21-AUG-2000	15:56:30	0234114	AOH210000	H1
161	DHRKJ	1	21-AUG-2000	15:58:05	0234114	AOH140103	H1
162	DHRKJ	1	21-AUG-2000	15:59:55	0234114	AOH140103	H1
163	DHRKM	1	21-AUG-2000	16:01:13	0234114	AOH140103	H1
164	DHRKQ	1	21-AUG-2000	16:02:18	0234114	AOH140103	H1
165	DHRKW	1	21-AUG-2000	16:03:56	0234114	AOH140103	H1
166	DHRK8	1	21-AUG-2000	16:05:03	0234114	AOH140103	H1
167	CK2CCV	1	21-AUG-2000	16:07:09			H1
168	CK1CCB	1	21-AUG-2000	16:09:44			H1
169	DHRK8S	1	21-AUG-2000	16:10:52	0234114	AOH140103	H1
170	DHRK8D	1	21-AUG-2000	16:11:58	0234114	AOH140103	H1
171	DHRLC	1	21-AUG-2000	16:13:05	0234114	AOH140103	H1
172	DHRLW	1	21-AUG-2000	16:14:43	0234114	AOH140103	H1
173	DHRLX	1	21-AUG-2000	16:15:52	0234114	AOH140103	H1
174	DHRL9	1	21-AUG-2000	16:16:57	0234114	AOH140103	H1
175	DHRML	1	21-AUG-2000	16:18:38	0234114	AOH140103	H1
176	DHRMO	1	21-AUG-2000	16:20:27	0234114	AOH140103	H1

VOID
MO
8-29-00

(continued)

#1	20.77	.0721	17.09	173.4	84.25	80.19	2.725
#2	17.49	.0245	16.73	171.4	80.01	79.88	1.840
Errors High	LC Pass 25000.	LC Pass 20000.	LC Pass 50000.	LC Pass 10000.	NOCHECK	NOCHECK	NOCHECK
Errors Low	-1000.	-1000.	-1000.	-1000.			
Elem Units	2068/1 PPB	1960/1 PPB	1960/2 PPB				
Avge	.6231	-3.692	-.1336				
SDev	2.186	1.202	.3741				
%RSD	350.8	32.57	280.1				

#1	-.9228	-4.542	-.3981
#2	2.169	-2.842	.1310
Errors High	NOCHECK	NOCHECK	NOCHECK
Errors Low			

IntStd Mode	1 Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13369	--	--	--	--	--	--
SDev	161.9275	--	--	--	--	--	--
%RSD	1.211216	--	--	--	--	--	--
#1	13254	--	--	--	--	--	--
#2	13484	--	--	--	--	--	--

Method: TOTAL Sample Name: DH9MJ Operator: MJC
 Run Time: 08/21/00 23:30:49
 Comment:
 Mode: CONC Corr. Factor: 1

Elem Units	Ag PPB	Al PPB	As PPB	B PPB	Ba PPB	Be PPB	Ca PPB
Avge	.5156	15570.	11.61	19.45	148.9	.4819	117500.
SDev	.2051	28.	.70	.55	.3	.0565	418.
%RSD	39.78	.1819	6.062	2.805	.1982	11.73	.3555
#1	.6606	15550.	12.11	19.84	149.1	.5218	117800.
#2	.3705	15590.	11.12	19.06	148.7	.4419	117300.

Errors High	LC Pass 2000.	LC Pass 500000.	LC Pass 10000.	LC Pass 50000.	LC Pass 25000.	LC Pass 4000.	LC Pass 600000.
Errors Low	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.

Elem Units	Cd PPB	Co PPB	Cr PPB <i>VOID MA 8-29-00</i>	Cu PPB	Fe PPB	K PPB	Mg PPB
Avge	11.51	10.18	103.2	322.8	26150.	1230.	6334.
SDev	.03	.32	.0	2.0	22.	22.	46.
%RSD	.2634	3.123	.0051	.6141	.0836	1.774	.7208
#1	11.49	10.40	103.2	321.4	26130.	1246.	6366.
#2	11.54	9.951	103.2	324.3	26170.	1215.	6302.

Errors High	LC Pass 2500.	LC Pass 50000.	LC Pass 50000.	LC Pass 30000.	LC Pass 600000.	LC Pass 600000.	LC Pass 600000.
Errors Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.
Elem Units	Mn PPB	Mo PPB	Na3302 PPB	Ni PPB	Pb PPB	Se PPB	Sb PPB
Avg	292.1	1.686	1000.	31.99	717.9	4.222	1.890
SDev	.3	.412	99.	1.16	8.1	1.595	.763
%RSD	.1052	24.43	9.922	3.623	1.126	37.77	40.35
#1	292.3	1.395	1071.	32.81	723.6	3.094	2.429
#2	291.9	1.978	930.3	31.17	712.2	5.350	1.351

Errors High	LC Pass 50000.	LC Pass 50000.	LC Pass 600000.	LC Pass 50000.	LC Pass 15000.	LC Pass 10000.	LC Pass 10000.
Errors Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.
Elem Units	Sn PPB	Tl PPB	V PPB	Zn PPB	2203/1 PPB	2203/2 PPB	2068/2 PPB
Avg	31.29	2.731	38.99	2868.	729.4	712.1	3.412
SDev	.45	.093	.37	35.	1.7	11.2	3.503
%RSD	1.447	3.391	.9557	1.206	.2388	1.579	102.6
#1	31.61	2.797	38.72	2893.	730.7	720.1	5.889
#2	30.97	2.666	39.25	2844.	728.2	704.1	.9357

Errors High	LC Pass 25000.	LC Pass 20000.	LC Pass 50000.	LC Pass 10000.	NOCHECK	NOCHECK	NOCHECK
Errors Low	-1000.	-1000.	-1000.	-1000.			
Elem Units	2068/1 PPB	1960/1 PPB	1960/2 PPB				
Avg	1.130	.7929	5.934				
SDev	.605	1.032	2.906				
%RSD	53.57	130.2	48.98				
#1	.7018	1.523	3.879				
#2	1.558	.0630	7.989				

Errors High
Low

NOCHECK NOCHECK NOCHECK

IntStd Mode	1 Counts	2 NOTUSED	3 NOTUSED	4 NOTUSED	5 NOTUSED	6 NOTUSED	7 NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	13683	--	--	--	--	--	--
SDev	56.21499	--	--	--	--	--	--
%RSD	.4108457	--	--	--	--	--	--
#1	13643	--	--	--	--	--	--
#2	13722	--	--	--	--	--	--

CLIENT	Mayport	JOB NUMBER	
SUBJECT	Sample Calculation		
BASED ON	MPT-55-55-08-01	DRAWING NUMBER	
BY	YAP	CHECKED BY	
		APPROVED BY	
			DATE

$$\text{Lead} = 80.9 \text{ mg/Kg}$$

$$\frac{717.9 \text{ mg}}{\text{L}} \times \frac{1 \text{ L}}{1000 \text{ ml}} \times \frac{100 \text{ ml}}{1 \text{ g}} \times \frac{1000 \text{ g}}{1 \text{ Kg}} \times \frac{1}{.887} \times \frac{1 \text{ mg}}{1000 \text{ mg}} = 80.9 \frac{\text{mg}}{\text{Kg}}$$

Comparison of ICP Interference Affects
SDG MP022
Mayport

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-55-SD-03-01	4.5	Calcium	500000	2	59500	0.24	—
Cadmium	MPT-55-SD-03-01	0.049U	Calcium	500000	-2	59500	-0.24	UJ
Chromium	MPT-55-SD-03-01	2.4	Calcium	500000	-3	59500	-0.36	J
Cobalt	MPT-55-SD-03-01	0.27U	Calcium	500000	3	59500	0.36	—
Copper	MPT-55-SD-03-01	0.94	Calcium	500000	3	59500	0.36	-U-
Lead	MPT-55-SD-03-01	2.6	Calcium	500000	-2	59500	-0.24	—
Manganese	MPT-55-SD-03-01	16.4	Calcium	500000	8	59500	0.95	—
Potassium	MPT-55-SD-03-01	53.1	Calcium	500000	5	59500	0.60	—
Vanadium	MPT-55-SD-03-01	2	Calcium	500000	-2	59500	-0.24	J
Zinc	MPT-55-SD-03-01	8.2	Calcium	500000	7	59500	0.83	J

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-55-SS-01-01	9.1	Calcium	500000	2	46300	0.19	—
Cadmium	MPT-55-SS-01-01	0.085	Calcium	500000	-2	46300	-0.19	— J
Chromium	MPT-55-SS-01-01	2.3	Calcium	500000	-3	46300	-0.28	J
Cobalt	MPT-55-SS-01-01	0.4	Calcium	500000	3	46300	0.28	J
Copper	MPT-55-SS-01-01	50.7	Calcium	500000	3	46300	0.28	—
Lead	MPT-55-SS-01-01	6.1	Calcium	500000	-2	46300	-0.19	—
Manganese	MPT-55-SS-01-01	12.6	Calcium	500000	8	46300	0.74	—
Potassium	MPT-55-SS-01-01	63.8	Calcium	500000	5	46300	0.46	—
Vanadium	MPT-55-SS-01-01	2.2	Calcium	500000	-2	46300	-0.19	—
Zinc	MPT-55-SS-01-01	30.6	Calcium	500000	7	46300	0.65	—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-55-SS-03-01	4.8	Calcium	500000	2	45900	0.18	—
Cadmium	MPT-55-SS-03-01	0.042U	Calcium	500000	-2	45900	-0.18	UJ
Chromium	MPT-55-SS-03-01	1.8	Calcium	500000	-3	45900	-0.28	J
Cobalt	MPT-55-SS-03-01	0.23U	Calcium	500000	3	45900	0.28	—
Copper	MPT-55-SS-03-01	2.5	Calcium	500000	3	45900	0.28	J
Lead	MPT-55-SS-03-01	3.6	Calcium	500000	-2	45900	-0.18	—
Manganese	MPT-55-SS-03-01	20.1	Calcium	500000	8	45900	0.73	—
Potassium	MPT-55-SS-03-01	67.2	Calcium	500000	5	45900	0.46	—
Vanadium	MPT-55-SS-03-01	1.9	Calcium	500000	-2	45900	-0.18	—
Zinc	MPT-55-SS-03-01	14.1	Calcium	500000	7	45900	0.64	—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level Sample	Est. Interference	Validation Action
Barium	MPT-55-SS-05-01	3.5	Calcium	500000	2	34700	0.14	—
Cadmium	MPT-55-SS-05-01	0.093	Calcium	500000	-2	34700	-0.14	J
Chromium	MPT-55-SS-05-01	2.3	Calcium	500000	-3	34700	-0.21	—
Cobalt	MPT-55-SS-05-01	0.28U	Calcium	500000	3	34700	0.21	—
Copper	MPT-55-SS-05-01	3	Calcium	500000	3	34700	0.21	—
Lead	MPT-55-SS-05-01	32.6	Calcium	500000	-2	34700	-0.14	—
Manganese	MPT-55-SS-05-01	9.2	Calcium	500000	8	34700	0.56	—
Potassium	MPT-55-SS-05-01	39.6	Calcium	500000	5	34700	0.35	—
Vanadium	MPT-55-SS-05-01	2.1	Calcium	500000	-2	34700	-0.14	—
Zinc	MPT-55-SS-05-01	15.2	Calcium	500000	7	34700	0.49	—

Affected Analyte	Sample	Reported Result	Interferent	Interferent level in ICS	Conc. ICS	Interferen Level Sample	Est. interference	Validation Action
Barium	MPT-55-SS-07-01	6	Calcium	500000	2	53800	0.22	1
Cadmium	MPT-55-SS-07-01	0.067	Calcium	500000	-2	53800	-0.22	1
Chromium	MPT-55-SS-07-01	2.3	Calcium	500000	-3	53800	-0.32	1
Cobalt	MPT-55-SS-07-01	0.25U	Calcium	500000	3	53800	0.32	1
Copper	MPT-55-SS-07-01	4.8	Calcium	500000	3	53800	0.32	1
Lead	MPT-55-SS-07-01	9.1	Calcium	500000	-2	53800	-0.22	1
Manganese	MPT-55-SS-07-01	7	Calcium	500000	8	53800	0.86	1
Potassium	MPT-55-SS-07-01	63.9	Calcium	500000	5	53800	0.54	1
Vanadium	MPT-55-SS-07-01	1.9	Calcium	500000	-2	53800	-0.22	1
Zinc	MPT-55-SS-07-01	19.4	Calcium	500000	7	53800	0.75	1



Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: T. HANSEN DATE: NOVEMBER 30, 2000
FROM: DOUGLAS S. SCHLOER COPIES: DV FILE
SUBJECT: ORGANIC DATA VALIDATION – VOA / SVOA / PEST / PCB
CTO 091, NS MAYPORT
SDG MP022
SAMPLES: 12 / Soil / VOA / SVOA / PEST / PCB

MPT-55-SD-01-01	MPT-55-SD-02-01	MPT-55-SD-03-01
MPT-55-SS-01-01	MPT-55-SS-02-01	MPT-55-SS-03-01
MPT-55-SS-04-01	MPT-55-SS-05-01	MPT-55-SS-06-01
MPT-55-SS-07-01	MPT-55-SS-08-01	MPT-55-SS-09-01

OVERVIEW

The sample set for CTO 091, NS Mayport; SDG MP022 consists of twelve (12) soil environmental samples. The samples were analyzed for Appendix IX volatile, semivolatile, pesticide and polychlorinated biphenyl organic compounds. No field duplicate pairs were included in SDG MP022.

The samples were collected by TetraTech NUS on July 31st, August 1st and 3rd, 2000 and analyzed by Severn Trent Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8081A and 8082 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Holding times
- * • GC/MS Tuning
- Initial and continuing calibration
- Blank results
- Surrogate spike recoveries
- * • Blank Spike / Blank Spike Duplicate results
- * • Detection Limits
- * • Compound Quantitation
- * • Compound Identification

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

VOA

Initial calibration Relative Response Factors (RRFs) fell below the 0.05 quality control limit for acrolein, acrylonitrile, acetonitrile, isobutyl alcohol and propionitrile on 8/1/00, on instrument A3503. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in all samples in this SDG.

Memo to: T. Hansen – Page 2

Date: 11/30/00

An initial calibration % Relative Standard Deviation (%RSD) exceeded the 30% (but <50%) quality control limit for chloroethane on 8/1/00, on instrument A3503. Only nondetected results were reported for chloroethane, which do not require qualification based on this calibration noncompliance.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein, acrylonitrile and acetonitrile on 8/8/00, 10:39, on instrument A3503. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

Continuing calibration verification %Differences (%Ds) exceeded the 25% quality control limit for trichlorofluoromethane and vinyl acetate on 8/8/00, 10:39, on instrument A3503. Only nondetected results were reported for trichlorofluoromethane and vinyl acetate and these were qualified as estimated (UJ) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for isobutyl alcohol and propionitrile on 8/8/00, 10:12, on instrument A3503. Only nondetected results were reported for isobutyl alcohol and propionitrile and these were rejected (UR) in the affected samples.

A continuing calibration verification %D exceeded the 25% quality control limit for 1,2-dibromo-3-chloropropane on 8/8/00, 10:12, on instrument A3503. Only nondetected results were reported for 1,2-dibromo-3-chloropropane and these were qualified as estimated (UJ) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for isobutyl alcohol and propionitrile on 8/10/00, 07:16, on instrument A3503. Only nondetected results were reported for isobutyl alcohol and propionitrile and these were rejected (UR) in the affected samples.

Continuing calibration verification RRFs fell below the 0.05 quality control limit for acrolein, acrylonitrile and acetonitrile on 8/10/00, 07:44, on instrument A3503. Only nondetected results were reported for the aforementioned compounds and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for dichlorodifluoromethane and trichlorofluoromethane on 8/10/00, 07:44, on instrument A3503. Only nondetected results were reported for dichlorodifluoromethane and trichlorofluoromethane and these were qualified as estimated (UJ) in the affected samples.

SVOA

Initial calibration %RSDs exceeded the 30% quality control limit for p-phenylenediamine and 4-nitroquinoline-1-oxide on 8/9/00, on instrument A4HP9. Only nondetected results were reported for p-phenylenediamine and 4-nitroquinoline-1-oxide, which do not require qualification based on this calibration noncompliance.

Continuing calibration %Ds exceeded the 25% quality control limit for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol on 8/9/00, 11:24, on instrument A4HP9. Only nondetected results were reported for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 1,3,5-trinitrobenzene on 8/9/00, 12:02, on instrument A4HP9. Only nondetected results were reported for 1,3,5-trinitrobenzene and these were rejected (UR) in the affected samples.

Date: 11/30/00

Continuing calibration verification %Ds exceeded the 25% quality control limit for 1,3,5-trinitrobenzene, 1,3-dinitrobenzene, Dinoseb and 4-nitroquinoline-1-oxide on 8/9/00, 12:02, on instrument A4HP9. Only nondetected results were reported for 1,3-dinitrobenzene, Dinoseb and 4-nitroquinoline-1-oxide and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected results for 1,3,5-trinitrobenzene were previously qualified for the RRF noncompliance above and did not require further qualification.

A continuing calibration verification %D exceeded the 25% quality control limit for 2,4-dinitrophenol on 8/10/00, 12:03, on instrument A4HP9. Only nondetected results were reported for 2,4-dinitrophenol and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification RRF fell below the 0.05 quality control limit for 1,3,5-trinitrobenzene on 8/10/00, 12:41, on instrument A4HP9. Only nondetected results were reported for 1,3,5-trinitrobenzene and these were rejected (UR) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for a,a-dimethyl phenylethylamine, 1,3,5-trinitrobenzene and p-phenylenediamine on 8/10/00, 12:41, on instrument A4HP9. Only nondetected results were reported for a,a-dimethyl phenylethylamine and p-phenylenediamine and these were qualified as estimated (UJ) in the affected samples. Additionally, the nondetected results reported for 1,3,5-trinitrobenzene were previously qualified for the RRF noncompliance above and did not require further qualification.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 1,4-dioxane, 2,4-dinitrophenol, 3-methylphenol, a,a-dimethyl phenylethylamine and p-phenylenediamine on 8/11/00, 09:35, on instrument A4HP9. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

Continuing calibration verification %Ds exceeded the 25% quality control limit for 1,4-dioxane, 2,4-dinitrophenol, 3-methylphenol, a,a-dimethyl phenylethylamine and p-phenylenediamine on 8/11/00, 10:50, on instrument A4HP9. Only nondetected results were reported for the aforementioned compounds and these were qualified as estimated (UJ) in the affected samples.

PEST

Sample MPT-55-SD-02-01 was analyzed and reported at a 10X dilution, due to matrix interference.

A continuing calibration verification %D exceeded the 15% quality control limit on both analytical columns for Kepone on 8/7/00, on instrument A2HP5. Only nondetected results were reported for Kepone and these were qualified as estimated (UJ) in the affected samples.

A continuing calibration verification %D exceeded the 15% quality control limit on one analytical column for 4,4'-DDD on 8/8/00, 13:46, on instrument A2HP5. Only nondetected results were reported for 4,4'-DDD, which do not require qualification based on this calibration noncompliance.

Continuing calibration verification %Ds exceeded the 15% quality control limit on one analytical column for 4,4'-DDT and Toxaphene on 8/8/00, 20:48, on instrument A2HP5. Only nondetected results were reported for 4,4'-DDT and Toxaphene, which do not require qualification, based on this calibration noncompliance.

Memo to: T. Hansen – Page 4

Date: 11/30/00

A continuing calibration verification %D exceeded the 15% quality control limit on both analytical columns for Kepone on 8/8/00, 22:17, on instrument A2HP5. Only nondetected results were reported for Kepone and these were qualified as estimated (UJ) in the affected samples.

Continuing calibration verification %Ds exceeded the 15% quality control limit on one analytical column for Methoxychlor and Endrin ketone on 8/12/00, 00:31, on instrument A2HP5. Only nondetected results were reported for Methoxychlor and Endrin ketone, which do not require qualification based on this calibration noncompliance.

The surrogate Decachlorobiphenyl (DCB) was not recovered on one analytical column for the following samples:

MPT-55-SS-01-01	MPT-55-SS-02-01	MPT-55-SS-03-01
MPT-55-SS-05-01	MPT-55-SS-08-01	MPT-55-SD-01-01

No actions were taken based on the above noncompliance because all other surrogate % recoveries were within quality control limits.

The noncompliant surrogate recoveries in sample MPT-55-SS-06-01 were due to the sample dilution required for analysis. No qualifiers were required on this basis.

The Relative Percent Difference (RPD) between analytical columns exceeded the 25% quality control limit for one sample. Positive results were qualified as estimated, (J), for RPDs greater than 25% and less than 100%. Positive results were rejected, (R), if the RPD exceeded 100%.

<u>Sample</u>	<u>Compound</u>	<u>RPD</u>	<u>Qualifier</u>
MPT-55-SS-06-01	4,4'-DDT	566.8	R
	4,4'-DDE	81.1	J

PCB

An initial calibration %RSD exceeded the 20% quality control limit on one analytical column for Aroclor 1260 (peaks 1-5) on 8/13/00, on instrument A2HP2. Only nondetected results were reported for Aroclor 1016, which do not require qualification based on this calibration noncompliance.

The RPD between analytical columns exceeded the 25% quality control limit for one sample. The positive result reported for Aroclor 1260 in sample MPT-55-SS-08-01 was qualified as estimated (J).

Additional Comments

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

It should be noted that according to the laboratory statement of work (SOW) both the volatile and semivolatile fraction both were to contain 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. Since this would create data management problems, the laboratory reported these

Date: 11/30/00

compounds in the semivolatile fraction only. It was not necessary to qualify any data based on this issue.

The analytical SOW listed pentachloroethane to be analyzed and reported as a volatile compound but the laboratory analyzed and reported this compound as a semivolatile compound. It was not necessary to qualify any data based on this issue.

The laboratory reported allyl chloride, which according to the analytical SOW was not a required volatile target compound. Because allyl chloride is an Appendix IX compound it was determined that this compound should remain in the database.

The laboratory reported Dinoseb, a,a-dimethylphenethylamine, chlorobenzilate, diallate, and N-nitrosopiperidine, which according to the analytical SOW were not required semivolatile target compounds. Because the aforementioned are Appendix IX compounds it was determined that these compounds should remain in the database.

The laboratory did not report hexachlorophene as requested in the analytical SOW. This compound is unstable and could not be analyzed.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Volatile Laboratory Control Sample (LCS) % recovery of acetone exceeded quality control limits. No qualifiers were required on this basis.

Other Factors Affecting Data Quality: The following pesticide samples were analyzed at a frequency greater than the required 12hrs for a calibration verification standard containing Isodrin and Kepone. Nondetected results for Kepone were qualified as estimated (UJ), due to non-compliant %Ds. No action was taken for Isodrin on this basis.

MPT-55-SD-01-01	MPT-55-SS-01-01	MPT-55-SS-02-01
MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
MPT-55-SS-07-01	MPT-55-SS-08-01	

The positive result for 4,4'-DDE was reported from the lower of the two analytical results obtained in sample MPT-55-SD-02-01.

Memo to: T. Hansen – Page 6

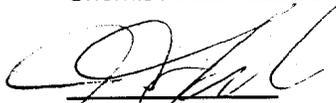
Date: 11/30/00

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."


Tetra Tech NUS

Douglas Schloer
Chemist/Data Validator


Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCD% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SD-01-01
08/01/00
A0H030185005
NORMAL
76.0 %
UG/KG

MPT-55-SD-02-01
08/03/00
A0H040127001
NORMAL
55.0 %
UG/KG

MPT-55-SD-03-01
08/03/00
A0H040127002
NORMAL
81.0 %
UG/KG

MPT-55-SS-01-01
07/31/00
A0H030175001
NORMAL
96.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,1,1-TRICHLOROETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,1,2,2-TETRACHLOROETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,1,2-TRICHLOROETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,1-DICHLOROETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,1-DICHLOROETHENE	7.1	U		8.9	U		6.3	U		6.4	U	
1,2,3-TRICHLOROPROPANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,2-DIBROMO-3-CHLOROPROPANE	14	UJ	C	18	U		13	U		13	UJ	C
1,2-DIBROMOETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,2-DICHLOROETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
1,2-DICHLOROETHENE (TOTAL)	7.1	U		8.9	U		6.3	U		6.4	U	
1,2-DICHLOROPROPANE	7.1	U		8.9	U		6.3	U		6.4	U	
2-BUTANONE	29	U		36	U		25	U		25	U	
2-CHLOROETHYL VINYL ETHER	71	U		89	U		63	U		64	U	
2-HEXANONE	29	U		36	U		25	U		25	U	
4-METHYL-2-PENTANONE	29	U		36	U		25	U		25	U	
ACETONE	14	J	P	36	U		25	U		25	U	
ACETONITRILE	140	UR	C	180	UR	C	130	UR	C	130	UR	C
ACROLEIN	140	UR	C	180	UR	C	130	UR	C	130	UR	C
ACRYLONITRILE	140	UR	C	180	UR	C	130	UR	C	130	UR	C
ALLYL CHLORIDE	14	U		18	U		13	U		13	U	
BENZENE	7.1	U		8.9	U		6.3	U		6.4	U	
BROMODICHLOROMETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
BROMOFORM	7.1	U		8.9	U		6.3	U		6.4	U	
BROMOMETHANE	14	U		18	U		13	U		13	U	
CARBON DISULFIDE	7.1	U		8.9	U		6.3	U		6.4	U	
CARBON TETRACHLORIDE	7.1	U		8.9	U		6.3	U		6.4	U	
CHLOROBENZENE	7.1	U		8.9	U		6.3	U		6.4	U	
CHLOROETHANE	14	U		18	U		13	U		13	U	
CHLOROFORM	7.1	U		8.9	U		6.3	U		6.4	U	
CHLOROMETHANE	14	U		18	U		13	U		13	U	
CHLOROPRENE	7.1	U		8.9	U		6.3	U		6.4	U	
CIS-1,2-DICHLOROETHENE	3.6	U		4.5	U		3.1	U		3.2	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SD-01-01	MPT-55-SD-02-01	MPT-55-SD-03-01	MPT-55-SS-01-01
SAMPLE DATE:	08/01/00	08/03/00	08/03/00	07/31/00
LABORATORY ID:	A0H030185005	A0H040127001	A0H040127002	A0H030175001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	76.0 %	55.0 %	81.0 %	96.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	7.1	U		8.9	U		6.3	U		6.4	U	
DIBROMOCHLOROMETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
DIBROMOMETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
DICHLORODIFLUOROMETHANE	14	U		18	UJ	C	13	UJ	C	13	U	
ETHYL METHACRYLATE	7.1	U		8.9	U		6.3	U		6.4	U	
ETHYLBENZENE	7.1	U		8.9	U		6.3	U		6.4	U	
IODOMETHANE	7.1	U		8.9	U		6.3	U		6.4	U	
ISOBUTYL ALCOHOL	290	UR	C	360	UR	C	250	UR	C	250	UR	C
METHACRYLONITRILE	7.1	U		8.9	U		6.3	U		6.4	U	
METHYL METHACRYLATE	7.1	U		8.9	U		6.3	U		6.4	U	
METHYL TERT-BUTYL ETHER	29	U		36	U		25	U		25	U	
METHYLENE CHLORIDE	7.1	U		8.9	U		6.3	U		6.4	U	
PROPIONITRILE	29	UR	C	36	UR	C	25	UR	C	25	UR	C
STYRENE	7.1	U		8.9	U		6.3	U		6.4	U	
TETRACHLOROETHENE	7.1	U		8.9	U		6.3	U		6.4	U	
TOLUENE	7.1	U		8.9	U		6.3	U		6.4	U	
TRANS-1,2-DICHLOROETHENE	3.6	U		4.5	U		3.1	U		3.2	U	
TRANS-1,3-DICHLOROPROPENE	7.1	U		8.9	U		6.3	U		6.4	U	
TRANS-1,4-DICHLORO-2-BUTENE	7.1	U		8.9	U		6.3	U		6.4	U	
TRICHLOROETHENE	7.1	U		8.9	U		6.3	U		6.4	U	
TRICHLOROFLUOROMETHANE	14	UJ	C	18	UJ	C	13	UJ	C	13	UJ	C
VINYL ACETATE	14	UJ	C	18	U		13	U		13	UJ	C
VINYL CHLORIDE	14	U		18	U		13	U		13	U	
XYLENES, TOTAL	7.1	U		8.9	U		6.3	U		6.4	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-02-01	MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
SAMPLE DATE:	07/31/00	07/31/00	07/31/00	08/01/00
LABORATORY ID:	A0H030175002	A0H030175003	A0H030175004	A0H030185001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.4 %	95.3 %	86.0 %	78.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	6	U		6	U		7.6	U		6.1	U	
1,1,1-TRICHLOROETHANE	6	U		6	U		7.6	U		6.1	U	
1,1,2,2-TETRACHLOROETHANE	6	U		6	U		7.6	U		6.1	U	
1,1,2-TRICHLOROETHANE	6	U		6	U		7.6	U		6.1	U	
1,1-DICHLOROETHANE	6	U		6	U		7.6	U		6.1	U	
1,1-DICHLOROETHENE	6	U		6	U		7.6	U		6.1	U	
1,2,3-TRICHLOROPROPANE	6	U		6	U		7.6	U		6.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	12	UJ	C	12	UJ	C	15	U		12	UJ	C
1,2-DIBROMOETHANE	6	U		6	U		7.6	U		6.1	U	
1,2-DICHLOROETHANE	6	U		6	U		7.6	U		6.1	U	
1,2-DICHLOROETHENE (TOTAL)	6	U		6	U		7.6	U		6.1	U	
1,2-DICHLOROPROPANE	6	U		6	U		7.6	U		6.1	U	
2-BUTANONE	24	U		24	U		30	U		24	U	
2-CHLOROETHYL VINYL ETHER	60	U		60	U		76	U		61	U	
2-HEXANONE	24	U		24	U		30	U		24	U	
4-METHYL-2-PENTANONE	24	U		24	U		30	U		24	U	
ACETONE	24	U		24	U		30	U		24	U	
ACETONITRILE	120	UR	C	120	UR	C	150	UR	C	120	UR	C
ACROLEIN	120	UR	C	120	UR	C	150	UR	C	120	UR	C
ACRYLONITRILE	120	UR	C	120	UR	C	150	UR	C	120	UR	C
ALLYL CHLORIDE	12	U		12	U		15	U		12	U	
BENZENE	6	U		6	U		7.6	U		6.1	U	
BROMODICHLOROMETHANE	6	U		6	U		7.6	U		6.1	U	
BROMOFORM	6	U		6	U		7.6	U		6.1	U	
BROMOMETHANE	12	U		12	U		15	U		12	U	
CARBON DISULFIDE	6	U		6	U		7.6	U		6.1	U	
CARBON TETRACHLORIDE	6	U		6	U		7.6	U		6.1	U	
CHLOROBENZENE	6	U		6	U		7.6	U		6.1	U	
CHLOROETHANE	12	U		12	U		15	U		12	U	
CHLOROFORM	6	U		6	U		7.6	U		6.1	U	
CHLOROMETHANE	12	U		12	U		15	U		12	U	
CHLOROPRENE	6	U		6	U		7.6	U		6.1	U	
CIS-1,2-DICHLOROETHENE	3	U		3	U		3.8	U		3.1	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SS-02-01
07/31/00
A0H030175002
NORMAL
92.4 %
UG/KG

MPT-55-SS-03-01
07/31/00
A0H030175003
NORMAL
95.3 %
UG/KG

MPT-55-SS-04-01
07/31/00
A0H030175004
NORMAL
86.0 %
UG/KG

MPT-55-SS-05-01
08/01/00
A0H030185001
NORMAL
78.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	6	U		6	U		7.6	U		6.1	U	
DIBROMOCHLOROMETHANE	6	U		6	U		7.6	U		6.1	U	
DIBROMOMETHANE	6	U		6	U		7.6	U		6.1	U	
DICHLORODIFLUOROMETHANE	12	U		12	U		15	UJ	C	12	U	
ETHYL METHACRYLATE	6	U		6	U		7.6	U		6.1	U	
ETHYLBENZENE	6	U		6	U		7.6	U		6.1	U	
IODOMETHANE	6	U		6	U		7.6	U		6.1	U	
ISOBUTYL ALCOHOL	240	UR	C	240	UR	C	300	UR	C	240	UR	C
METHACRYLONITRILE	6	U		6	U		7.6	U		6.1	U	
METHYL METHACRYLATE	6	U		6	U		7.6	U		6.1	U	
METHYL TERT-BUTYL ETHER	24	U		24	U		30	U		24	U	
METHYLENE CHLORIDE	6	U		6	U		7.6	U		6.1	U	
PROPIONITRILE	24	UR	C	24	UR	C	30	UR	C	24	UR	C
STYRENE	6	U		6	U		7.6	U		6.1	U	
TETRACHLOROETHENE	6	U		6	U		7.6	U		6.1	U	
TOLUENE	6	U		6	U		7.6	U		6.1	U	
TRANS-1,2-DICHLOROETHENE	3	U		3	U		3.8	U		3.1	U	
TRANS-1,3-DICHLOROPROPENE	6	U		6	U		7.6	U		6.1	U	
TRANS-1,4-DICHLORO-2-BUTENE	6	U		6	U		7.6	U		6.1	U	
TRICHLOROETHENE	6	U		6	U		7.6	U		6.1	U	
TRICHLOROFUOROMETHANE	12	UJ	C	12	UJ	C	15	UJ	C	12	UJ	C
VINYL ACETATE	12	UJ	C	12	UJ	C	15	U		12	UJ	C
VINYL CHLORIDE	12	U		12	U		15	U		12	U	
XYLENES, TOTAL	6	U		6	U		7.6	U		6.1	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-06-01	MPT-55-SS-07-01	MPT-55-SS-08-01	MPT-55-SS-09-01
SAMPLE DATE:	08/01/00	08/01/00	08/01/00	08/03/00
LABORATORY ID:	A0H030185002	A0H030185003	A0H030185004	A0H040127003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.1 %	89.0 %	89.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,1,1-TRICHLOROETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,1,2,2-TETRACHLOROETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,1,2-TRICHLOROETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,1-DICHLOROETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,1-DICHLOROETHENE	6.2	U		6.1	U		6.4	U		5.9	U	
1,2,3-TRICHLOROPROPANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,2-DIBROMO-3-CHLOROPROPANE	12	UJ	C	12	UJ	C	13	UJ	C	12	U	
1,2-DIBROMOETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,2-DICHLOROETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
1,2-DICHLOROETHENE (TOTAL)	6.2	U		6.1	U		6.4	U		5.9	U	
1,2-DICHLOROPROPANE	6.2	U		6.1	U		6.4	U		5.9	U	
2-BUTANONE	25	U		25	U		26	U		24	U	
2-CHLOROETHYL VINYL ETHER	62	U		61	U		64	U		59	U	
2-HEXANONE	25	U		25	U		26	U		24	U	
4-METHYL-2-PENTANONE	25	U		25	U		26	U		24	U	
ACETONE	25	U		25	U		26	U		8.8	J	P
ACETONITRILE	120	UR	C	120	UR	C	130	UR	C	120	UR	C
ACROLEIN	120	UR	C	120	UR	C	130	UR	C	120	UR	C
ACRYLONITRILE	120	UR	C	120	UR	C	130	UR	C	120	UR	C
ALLYL CHLORIDE	12	U		12	U		13	U		12	U	
BENZENE	6.2	U		6.1	U		6.4	U		5.9	U	
BROMODICHLOROMETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
BROMOFORM	6.2	U		6.1	U		6.4	U		5.9	U	
BROMOMETHANE	12	U		12	U		13	U		12	U	
CARBON DISULFIDE	6.2	U		6.1	U		6.4	U		5.9	U	
CARBON TETRACHLORIDE	6.2	U		6.1	U		6.4	U		5.9	U	
CHLOROBENZENE	6.2	U		6.1	U		6.4	U		5.9	U	
CHLOROETHANE	12	U		12	U		13	U		12	U	
CHLOROFORM	6.2	U		6.1	U		6.4	U		5.9	U	
CHLOROMETHANE	12	U		12	U		13	U		12	U	
CHLOROPRENE	6.2	U		6.1	U		6.4	U		5.9	U	
CIS-1,2-DICHLOROETHENE	3.1	U		3.1	U		3.2	U		3	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SS-06-01
08/01/00
A0H030185002
NORMAL
92.1 %
UG/KG

MPT-55-SS-07-01
08/01/00
A0H030185003
NORMAL
89.0 %
UG/KG

MPT-55-SS-08-01
08/01/00
A0H030185004
NORMAL
89.0 %
UG/KG

MPT-55-SS-09-01
08/03/00
A0H040127003
NORMAL
86.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CIS-1,3-DICHLOROPROPENE	6.2	U		6.1	U		6.4	U		5.9	U	
DIBROMOCHLOROMETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
DIBROMOMETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
DICHLORODIFLUOROMETHANE	12	U		12	U		13	U		12	UJ	C
ETHYL METHACRYLATE	6.2	U		6.1	U		6.4	U		5.9	U	
ETHYLBENZENE	6.2	U		6.1	U		6.4	U		5.9	U	
IODOMETHANE	6.2	U		6.1	U		6.4	U		5.9	U	
ISOBUTYL ALCOHOL	250	UR	C	250	UR	C	260	UR	C	240	UR	C
METHACRYLONITRILE	6.2	U		6.1	U		6.4	U		5.9	U	
METHYL METHACRYLATE	6.2	U		6.1	U		6.4	U		5.9	U	
METHYL TERT-BUTYL ETHER	25	U		25	U		26	U		24	U	
METHYLENE CHLORIDE	6.2	U		6.1	U		6.4	U		5.9	U	
PROPIONITRILE	25	UR	C	25	UR	C	26	UR	C	24	UR	C
STYRENE	6.2	U		6.1	U		6.4	U		5.9	U	
TETRACHLOROETHENE	6.2	U		6.1	U		6.4	U		5.9	U	
TOLUENE	6.2	U		6.1	U		6.4	U		5.9	U	
TRANS-1,2-DICHLOROETHENE	3.1	U		3.1	U		3.2	U		3	U	
TRANS-1,3-DICHLOROPROPENE	6.2	U		6.1	U		6.4	U		5.9	U	
TRANS-1,4-DICHLORO-2-BUTENE	6.2	U		6.1	U		6.4	U		5.9	U	
TRICHLOROETHENE	6.2	U		6.1	U		6.4	U		5.9	U	
TRICHLOROFUOROMETHANE	12	UJ	C	12	UJ	C	13	UJ	C	12	UJ	C
VINYL ACETATE	12	UJ	C	12	UJ	C	13	UJ	C	12	U	
VINYL CHLORIDE	12	U		12	U		13	U		12	U	
XYLENES, TOTAL	6.2	U		6.1	U		6.4	U		5.9	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SD-01-01
08/01/00
A0H030185005
NORMAL
76.0 %
UG/KG

MPT-55-SD-02-01
08/03/00
A0H040127001
NORMAL
55.0 %
UG/KG

MPT-55-SD-03-01
08/03/00
A0H040127002
NORMAL
81.0 %
UG/KG

MPT-55-SS-01-01
07/31/00
A0H030175001
NORMAL
96.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	430	U		600	U		410	U		340	U	
1,2,4-TRICHLOROBENZENE	430	U		600	U		410	U		340	U	
1,2-DICHLOROBENZENE	430	U		600	U		410	U		340	U	
1,3,5-TRINITROBENZENE	2100	UR	C	2900	U		2000	U		1700	UR	C
1,3-DICHLOROBENZENE	430	U		600	U		410	U		340	U	
1,3-DINITROBENZENE	430	U		600	U		410	U		340	UJ	C
1,4-DICHLOROBENZENE	430	U		600	U		410	U		340	U	
1,4-DIOXANE	430	U		600	UJ	C	410	UJ	C	340	U	
1,4-NAPHTHOQUINONE	2100	U		2900	U		2000	U		1700	U	
1-NAPHTHYLAMINE	430	U		600	U		410	U		340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	430	U		600	U		410	U		340	U	
2,3,4,6-TETRACHLOROPHENOL	2100	U		2900	U		2000	U		1700	U	
2,4,5-TRICHLOROPHENOL	430	U		600	U		410	U		340	U	
2,4,6-TRICHLOROPHENOL	430	U		600	U		410	U		340	U	
2,4-DICHLOROPHENOL	430	U		600	U		410	U		340	U	
2,4-DIMETHYLPHENOL	430	U		600	U		410	U		340	U	
2,4-DINITROPHENOL	2100	UJ	C	2900	UJ	C	2000	UJ	C	1700	UJ	C
2,4-DINITROTOLUENE	430	U		600	U		410	U		340	U	
2,6-DICHLOROPHENOL	430	U		600	U		410	U		340	U	
2,6-DINITROTOLUENE	430	U		600	U		410	U		340	U	
2-ACETYLAMINOFUORENE	4300	U		6000	U		4100	U		3400	U	
2-CHLORONAPHTHALENE	430	U		600	U		410	U		340	U	
2-CHLOROPHENOL	430	U		600	U		410	U		340	U	
2-METHYLNAPHTHALENE	430	U		600	U		410	U		340	U	
2-METHYLPHENOL	430	U		600	U		410	U		340	U	
2-NAPHTHYLAMINE	430	U		600	U		410	U		340	U	
2-NITROANILINE	2100	U		2900	U		2000	U		1700	U	
2-NITROPHENOL	430	U		600	U		410	U		340	U	
2-PICOLINE	860	U		1200	U		810	U		690	U	
3,3'-DICHLOROBENZIDINE	2100	U		2900	U		2000	U		1700	U	
3,3'-DIMETHYLBENZIDINE	2100	U		2900	U		2000	U		1700	U	
3-METHYLCHOLANTHRENE	860	U		1200	U		810	U		690	U	
3-METHYLPHENOL	430	U		600	UJ	C	410	UJ	C	340	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SD-01-01	MPT-55-SD-02-01	MPT-55-SD-03-01	MPT-55-SS-01-01
SAMPLE DATE:	08/01/00	08/03/00	08/03/00	07/31/00
LABORATORY ID:	A0H030185005	A0H040127001	A0H040127002	A0H030175001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	76.0 %	55.0 %	81.0 %	96.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	2100	U		2900	U		2000	U		1700	U	
4,6-DINITRO-2-METHYLPHENOL	2100	U		2900	U		2000	U		1700	UJ	C
4-AMINOBIIPHENYL	2100	U		2900	U		2000	U		1700	U	
4-BROMOPHENYL PHENYL ETHER	430	U		600	U		410	U		340	U	
4-CHLORO-3-METHYLPHENOL	430	U		600	U		410	U		340	U	
4-CHLOROANILINE	430	U		600	U		410	U		340	U	
4-CHLOROPHENYL PHENYL ETHER	430	U		600	U		410	U		340	U	
4-METHYLPHENOL	430	U		600	U		410	U		340	U	
4-NITROANILINE	2100	U		2900	U		2000	U		1700	U	
4-NITROPHENOL	2100	U		2900	U		2000	U		1700	U	
4-NITROQUINOLINE-1-OXIDE	4300	U		6000	U		4100	U		3400	UJ	C
5-NITRO-O-TOLUIDINE	860	U		1200	U		810	U		690	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	860	U		1200	U		810	U		690	U	
A,A-DIMETHYLPHENETHYLAMINE	2100	UJ	C	2900	UJ	C	2000	UJ	C	1700	U	
ACENAPHTHENE	430	U		600	U		410	U		340	U	
ACENAPHTHYLENE	430	U		600	U		410	U		340	U	
ACETOPHENONE	430	U		600	U		410	U		340	U	
ANILINE	430	U		600	U		410	U		340	U	
ANTHRACENE	430	U		600	U		410	U		340	U	
ARAMITE	860	U		1200	U		810	U		690	U	
BENZO(A)ANTHRACENE	430	U		600	U		410	U		340	U	
BENZO(A)PYRENE	430	U		600	U		410	U		340	U	
BENZO(B)FLUORANTHENE	430	U		600	U		410	U		340	U	
BENZO(G,H,I)PERYLENE	430	U		600	U		410	U		340	U	
BENZO(K)FLUORANTHENE	430	U		600	U		410	U		340	U	
BENZYL ALCOHOL	430	U		600	U		410	U		340	U	
BIS(2-CHLOROETHOXY)METHANE	430	U		600	U		410	U		340	U	
BIS(2-CHLOROETHYL)ETHER	430	U		600	U		410	U		340	U	
BIS(2-ETHYLHEXYL)PHTHALATE	430	U		600	U		410	U		340	U	
BUTYLBENZYL PHTHALATE	430	U		600	U		410	U		340	U	
CARBAZOLE	430	U		600	U		410	U		340	U	
CHLOROBENZILATE	430	U		600	U		410	U		340	U	
CHRYSENE	430	U		600	U		410	U		340	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SD-01-01
08/01/00
A0H030185005
NORMAL
76.0 %
UG/KG

MPT-55-SD-02-01
08/03/00
A0H040127001
NORMAL
55.0 %
UG/KG

MPT-55-SD-03-01
08/03/00
A0H040127002
NORMAL
81.0 %
UG/KG

MPT-55-SS-01-01
07/31/00
A0H030175001
NORMAL
96.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	430	U		600	U		410	U		340	U	
DI-N-OCTYL PHTHALATE	430	U		600	U		410	U		340	U	
DIALLATE	860	U		1200	U		810	U		690	U	
DIBENZO(A,H)ANTHRACENE	430	U		600	U		410	U		340	U	
DIBENZOFURAN	430	U		600	U		410	U		340	U	
DIETHYL PHTHALATE	430	U		1800			410	U		340	U	
DIMETHYL PHTHALATE	430	U		600	U		410	U		340	U	
DINOSEB	860	U		1200	U		810	U		690	UJ	C
DIPHENYLAMINE	430	U		600	U		410	U		340	U	
ETHYL METHANESULFONATE	430	U		600	U		410	U		340	U	
FLUORANTHENE	430	U		600	U		410	U		340	U	
FLUORENE	430	U		600	U		410	U		340	U	
HEXACHLOROBENZENE	430	U		600	U		410	U		340	U	
HEXACHLOROBUTADIENE	430	U		600	U		410	U		340	U	
HEXACHLOROCYCLOPENTADIENE	2100	U		2900	U		2000	U		1700	U	
HEXACHLOROETHANE	430	U		600	U		410	U		340	U	
HEXACHLOROPROPENE	4300	U		6000	U		4100	U		3400	U	
INDENO(1,2,3-CD)PYRENE	430	U		600	U		410	U		340	U	
ISOPHORONE	430	U		600	U		410	U		340	U	
ISOSAFROLE	860	U		1200	U		810	U		690	U	
METHAPYRILENE	2100	U		2900	U		2000	U		1700	U	
METHYL METHANESULFONATE	430	U		600	U		410	U		340	U	
N-NITROSO-DI-N-BUTYLAMINE	430	U		600	U		410	U		340	U	
N-NITROSO-DI-N-PROPYLAMINE	430	U		600	U		410	U		340	U	
N-NITROSODIETHYLAMINE	430	U		600	U		410	U		340	U	
N-NITROSODIMETHYLAMINE	430	U		600	U		410	U		340	U	
N-NITROSODIPHENYLAMINE	430	U		600	U		410	U		340	U	
N-NITROSOMETHYLETHYLAMINE	430	U		600	U		410	U		340	U	
N-NITROSOMORPHOLINE	430	U		600	U		410	U		340	U	
N-NITROSOPIPERIDINE	430	U		600	U		410	U		340	U	
N-NITROSOPIRROLIDINE	430	U		600	U		410	U		340	U	
NAPHTHALENE	430	U		600	U		410	U		340	U	
NITROBENZENE	430	U		600	U		410	U		340	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SD-01-01
08/01/00
A0H030185005
NORMAL
76.0 %
UG/KG

MPT-55-SD-02-01
08/03/00
A0H040127001
NORMAL
55.0 %
UG/KG

MPT-55-SD-03-01
08/03/00
A0H040127002
NORMAL
81.0 %
UG/KG

MPT-55-SS-01-01
07/31/00
A0H030175001
NORMAL
96.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	860	U		1200	U		810	U		690	U	
P-DIMETHYLAMINOAZOBENZENE	860	U		1200	U		810	U		690	U	
P-PHENYLENEDIAMINE	4300	UJ	C	6000	UJ	C	4100	UJ	C	3400	U	
PENTACHLOROBENZENE	430	U		600	U		410	U		340	U	
PENTACHLOROETHANE	2100	U		2900	U		2000	U		1700	U	
PENTACHLORONITROBENZENE	2100	U		2900	U		2000	U		1700	U	
PENTACHLOROPHENOL	2100	U		2900	U		2000	U		1700	U	
PHENACETIN	860	U		1200	U		810	U		690	U	
PHENANTHRENE	430	U		600	U		410	U		340	U	
PHENOL	430	U		600	U		410	U		340	U	
PRONAMIDE	860	U		1200	U		810	U		690	U	
PYRENE	430	U		600	U		410	U		340	U	
PYRIDINE	860	U		1200	U		810	U		690	U	
SAFROLE	860	U		1200	U		810	U		690	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SS-02-01
07/31/00
A0H030175002
NORMAL
92.4 %
UG/KG

MPT-55-SS-03-01
07/31/00
A0H030175003
NORMAL
95.3 %
UG/KG

MPT-55-SS-04-01
07/31/00
A0H030175004
NORMAL
86.0 %
UG/KG

MPT-55-SS-05-01
08/01/00
A0H030185001
NORMAL
78.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROENZENE	360	U		350	U		380	U		420	U	
1,2,4-TRICHLOROENZENE	360	U		350	U		380	U		420	U	
1,2-DICHLOROENZENE	360	U		350	U		380	U		420	U	
1,3,5-TRINITROENZENE	1700	UR	C	1700	UR	C	1900	UR	C	2000	UR	C
1,3-DICHLOROENZENE	360	U		350	U		380	U		420	U	
1,3-DINITROENZENE	360	UJ	C	350	UJ	C	380	UJ	C	420	UJ	C
1,4-DICHLOROENZENE	360	U		350	U		380	U		420	U	
1,4-DIOXANE	360	U		350	U		380	U		420	U	
1,4-NAPHTHOQUINONE	1700	U		1700	U		1900	U		2000	U	
1-NAPHTHYLAMINE	360	U		350	U		380	U		420	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U		350	U		380	U		420	U	
2,3,4,6-TETRACHLOROPHENOL	1700	U		1700	U		1900	U		2000	U	
2,4,5-TRICHLOROPHENOL	360	U		350	U		380	U		420	U	
2,4,6-TRICHLOROPHENOL	360	U		350	U		380	U		420	U	
2,4-DICHLOROPHENOL	360	U		350	U		380	U		420	U	
2,4-DIMETHYLPHENOL	360	U		350	U		380	U		420	U	
2,4-DINITROPHENOL	1700	UJ	C	1700	UJ	C	1900	UJ	C	2000	UJ	C
2,4-DINITROTOLUENE	360	U		350	U		380	U		420	U	
2,6-DICHLOROPHENOL	360	U		350	U		380	U		420	U	
2,6-DINITROTOLUENE	360	U		350	U		380	U		420	U	
2-ACETYLAMINOFUORENE	3600	U		3500	U		3800	U		4200	U	
2-CHLORONAPHTHALENE	360	U		350	U		380	U		420	U	
2-CHLOROPHENOL	360	U		350	U		380	U		420	U	
2-METHYLNAPHTHALENE	360	U		350	U		380	U		420	U	
2-METHYLPHENOL	360	U		350	U		380	U		420	U	
2-NAPHTHYLAMINE	360	U		350	U		380	U		420	U	
2-NITROANILINE	1700	U		1700	U		1900	U		2000	U	
2-NITROPHENOL	360	U		350	U		380	U		420	U	
2-PICOLINE	710	U		690	U		770	U		840	U	
3,3'-DICHLOROENZIDINE	1700	U		1700	U		1900	U		2000	U	
3,3'-DIMETHYLBENZIDINE	1700	U		1700	U		1900	U		2000	U	
3-METHYLCHOLANTHRENE	710	U		690	U		770	U		840	U	
3-METHYLPHENOL	360	U		350	U		380	U		420	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-02-01	MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
SAMPLE DATE:	07/31/00	07/31/00	07/31/00	08/01/00
LABORATORY ID:	A0H030175002	A0H030175003	A0H030175004	A0H030185001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.4 %	95.3 %	86.0 %	78.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	1700	U		1700	U		1900	U		2000	U	
4,6-DINITRO-2-METHYLPHENOL	1700	UJ	C	1700	UJ	C	1900	UJ	C	2000	UJ	C
4-AMINOBIIPHENYL	1700	U		1700	U		1900	U		2000	U	
4-BROMOPHENYL PHENYL ETHER	360	U		350	U		380	U		420	U	
4-CHLORO-3-METHYLPHENOL	360	U		350	U		380	U		420	U	
4-CHLOROANILINE	360	U		350	U		380	U		420	U	
4-CHLOROPHENYL PHENYL ETHER	360	U		350	U		380	U		420	U	
4-METHYLPHENOL	360	U		350	U		380	U		420	U	
4-NITROANILINE	1700	U		1700	U		1900	U		2000	U	
4-NITROPHENOL	1700	U		1700	U		1900	U		2000	U	
4-NITROQUINOLINE-1-OXIDE	3600	UJ	C	3500	UJ	C	3800	UJ	C	4200	UJ	C
5-NITRO-O-TOLUIDINE	710	U		690	U		770	U		840	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	710	U		690	U		770	U		840	U	
A,A-DIMETHYLPHENETHYLAMINE	1700	U		1700	U		1900	U		2000	U	
ACENAPHTHENE	360	U		350	U		380	U		420	U	
ACENAPHTHYLENE	360	U		350	U		380	U		420	U	
ACETOPHENONE	360	U		350	U		380	U		420	U	
ANILINE	360	U		350	U		380	U		420	U	
ANTHRACENE	360	U		350	U		380	U		420	U	
ARAMITE	710	U		690	U		770	U		840	U	
BENZO(A)ANTHRACENE	360	U		350	U		55	J	P	420	U	
BENZO(A)PYRENE	45	J	P	350	U		89	J	P	420	U	
BENZO(B)FLUORANTHENE	84	J	P	350	U		180	J	P	420	U	
BENZO(G,H,I)PERYLENE	360	U		350	U		120	J	P	420	U	
BENZO(K)FLUORANTHENE	360	U		350	U		84	J	P	420	U	
BENZYL ALCOHOL	360	U		350	U		380	U		420	U	
BIS(2-CHLOROETHOXY)METHANE	360	U		350	U		380	U		420	U	
BIS(2-CHLOROETHYL)ETHER	360	U		350	U		380	U		420	U	
BIS(2-ETHYLHEXYL)PHTHALATE	360	U		350	U		140	J	P	420	U	
BUTYLBENZYL PHTHALATE	360	U		350	U		380	U		420	U	
CARBAZOLE	360	U		350	U		380	U		420	U	
CHLOROBENZILATE	360	U		350	U		380	U		420	U	
CHRYSENE	360	U		350	U		100	J	P	420	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SS-02-01
07/31/00
A0H030175002
NORMAL
92.4 %
UG/KG

MPT-55-SS-03-01
07/31/00
A0H030175003
NORMAL
95.3 %
UG/KG

MPT-55-SS-04-01
07/31/00
A0H030175004
NORMAL
86.0 %
UG/KG

MPT-55-SS-05-01
08/01/00
A0H030185001
NORMAL
78.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	360	U		350	U		380	U		420	U	
DI-N-OCTYL PHTHALATE	360	U		350	U		380	U		420	U	
DIALLATE	710	U		690	U		770	U		840	U	
DIBENZO(A,H)ANTHRACENE	360	U		350	U		380	U		420	U	
DIBENZOFURAN	360	U		350	U		380	U		420	U	
DIETHYL PHTHALATE	360	U		350	U		380	U		420	U	
DIMETHYL PHTHALATE	360	U		350	U		380	U		420	U	
DINOSEB	710	UJ	C	690	UJ	C	770	UJ	C	840	UJ	C
DIPHENYLAMINE	360	U		350	U		380	U		420	U	
ETHYL METHANESULFONATE	360	U		350	U		380	U		420	U	
FLUORANTHENE	70	J	P	350	U		150	J	P	420	U	
FLUORENE	360	U		350	U		380	U		420	U	
HEXACHLOROBENZENE	360	U		350	U		380	U		420	U	
HEXACHLOROBUTADIENE	360	U		350	U		380	U		420	U	
HEXACHLOROCYCLOPENTADIENE	1700	U		1700	U		1900	U		2000	U	
HEXACHLOROETHANE	360	U		350	U		380	U		420	U	
HEXACHLOROPROPENE	3600	U		3500	U		3800	U		4200	U	
INDENO(1,2,3-CD)PYRENE	360	U		350	U		95	J	P	420	U	
ISOPHORONE	360	U		350	U		380	U		420	U	
ISOSAFROLE	710	U		690	U		770	U		840	U	
METHAPYRILENE	1700	U		1700	U		1900	U		2000	U	
METHYL METHANESULFONATE	360	U		350	U		380	U		420	U	
N-NITROSO-DI-N-BUTYLAMINE	360	U		350	U		380	U		420	U	
N-NITROSO-DI-N-PROPYLAMINE	360	U		350	U		380	U		420	U	
N-NITROSODIETHYLAMINE	360	U		350	U		380	U		420	U	
N-NITROSODIMETHYLAMINE	360	U		350	U		380	U		420	U	
N-NITROSODIPHENYLAMINE	360	U		350	U		380	U		420	U	
N-NITROSOMETHYLETHYLAMINE	360	U		350	U		380	U		420	U	
N-NITROSOMORPHOLINE	360	U		350	U		380	U		420	U	
N-NITROSOPIPERIDINE	360	U		350	U		380	U		420	U	
N-NITROSOPYRROLIDINE	360	U		350	U		380	U		420	U	
NAPHTHALENE	360	U		350	U		380	U		420	U	
NITROBENZENE	360	U		350	U		380	U		420	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-02-01	MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
SAMPLE DATE:	07/31/00	07/31/00	07/31/00	08/01/00
LABORATORY ID:	A0H030175002	A0H030175003	A0H030175004	A0H030185001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.4 %	95.3 %	86.0 %	78.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	710	U		690	U		770	U		840	U	
P-DIMETHYLAMINOAZOBENZENE	710	U		690	U		770	U		840	U	
P-PHENYLENEDIAMINE	3600	U		3500	U		3800	U		4200	U	
PENTACHLOROBENZENE	360	U		350	U		380	U		420	U	
PENTACHLOROETHANE	1700	U		1700	U		1900	U		2000	U	
PENTACHLORONITROBENZENE	1700	U		1700	U		1900	U		2000	U	
PENTACHLOROPHENOL	1700	U		1700	U		1900	U		2000	U	
PHENACETIN	710	U		690	U		770	U		840	U	
PHENANTHRENE	360	U		350	U		380	U		420	U	
PHENOL	360	U		350	U		380	U		420	U	
PRONAMIDE	710	U		690	U		770	U		840	U	
PYRENE	360	U		350	U		120	J	P	420	U	
PYRIDINE	710	U		690	U		770	U		840	U	
SAFROLE	710	U		690	U		770	U		840	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-06-01	MPT-55-SS-07-01	MPT-55-SS-08-01	MPT-55-SS-09-01
SAMPLE DATE:	08/01/00	08/01/00	08/01/00	08/03/00
LABORATORY ID:	A0H030185002	A0H030185003	A0H030185004	A0H040127003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.1 %	89.0 %	89.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4,5-TETRACHLOROBENZENE	720	U		370	U		370	U		380	U	
1,2,4-TRICHLOROBENZENE	720	U		370	U		370	U		380	U	
1,2-DICHLOROBENZENE	720	U		370	U		370	U		380	U	
1,3,5-TRINITROBENZENE	3500	UR	C	1800	UR	C	1800	UR	C	1900	U	
1,3-DICHLOROBENZENE	720	U		370	U		370	U		380	U	
1,3-DINITROBENZENE	720	UJ	C	370	UJ	C	370	UJ	C	380	U	
1,4-DICHLOROBENZENE	720	U		370	U		370	U		380	U	
1,4-DIOXANE	720	U		370	U		370	U		380	UJ	C
1,4-NAPHTHOQUINONE	3500	U		1800	U		1800	U		1900	U	
1-NAPHTHYLAMINE	720	U		370	U		370	U		380	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	720	U		370	U		370	U		380	U	
2,3,4,6-TETRACHLOROPHENOL	3500	U		1800	U		1800	U		1900	U	
2,4,5-TRICHLOROPHENOL	720	U		370	U		370	U		380	U	
2,4,6-TRICHLOROPHENOL	720	U		370	U		370	U		380	U	
2,4-DICHLOROPHENOL	720	U		370	U		370	U		380	U	
2,4-DIMETHYLPHENOL	720	U		370	U		370	U		380	U	
2,4-DINITROPHENOL	3500	UJ	C	1800	UJ	C	1800	UJ	C	1900	UJ	C
2,4-DINITROTOLUENE	720	U		370	U		370	U		380	U	
2,6-DICHLOROPHENOL	720	U		370	U		370	U		380	U	
2,6-DINITROTOLUENE	720	U		370	U		370	U		380	U	
2-ACETYLAMINOFLUORENE	7200	U		3700	U		3700	U		3800	U	
2-CHLORONAPHTHALENE	720	U		370	U		370	U		380	U	
2-CHLOROPHENOL	720	U		370	U		370	U		380	U	
2-METHYLNAPHTHALENE	720	U		370	U		370	U		380	U	
2-METHYLPHENOL	720	U		370	U		370	U		380	U	
2-NAPHTHYLAMINE	720	U		370	U		370	U		380	U	
2-NITROANILINE	3500	U		1800	U		1800	U		1900	U	
2-NITROPHENOL	720	U		370	U		370	U		380	U	
2-PICOLINE	1400	U		740	U		740	U		770	U	
3,3'-DICHLOROBENZIDINE	3500	U		1800	U		1800	U		1900	U	
3,3'-DIMETHYLBENZIDINE	3500	U		1800	U		1800	U		1900	U	
3-METHYLCHOLANTHRENE	1400	U		740	U		740	U		770	U	
3-METHYLPHENOL	720	U		370	U		370	U		380	UJ	C

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-06-01	MPT-55-SS-07-01	MPT-55-SS-08-01	MPT-55-SS-09-01
SAMPLE DATE:	08/01/00	08/01/00	08/01/00	08/03/00
LABORATORY ID:	A0H030185002	A0H030185003	A0H030185004	A0H040127003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.1 %	89.0 %	89.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
3-NITROANILINE	3500	U		1800	U		1800	U		1900	U	
4,6-DINITRO-2-METHYLPHENOL	3500	UJ	C	1800	UJ	C	1800	UJ	C	1900	U	
4-AMINOBIPHENYL	3500	U		1800	U		1800	U		1900	U	
4-BROMOPHENYL PHENYL ETHER	720	U		370	U		370	U		380	U	
4-CHLORO-3-METHYLPHENOL	720	U		370	U		370	U		380	U	
4-CHLOROANILINE	720	U		370	U		370	U		380	U	
4-CHLOROPHENYL PHENYL ETHER	720	U		370	U		370	U		380	U	
4-METHYLPHENOL	720	U		370	U		370	U		380	U	
4-NITROANILINE	3500	U		1800	U		1800	U		1900	U	
4-NITROPHENOL	3500	U		1800	U		1800	U		1900	U	
4-NITROQUINOLINE-1-OXIDE	7200	UJ	C	3700	UJ	C	3700	UJ	C	3800	U	
5-NITRO-O-TOLUIDINE	1400	U		740	U		740	U		770	U	
7,12-DIMETHYLBENZ(A)ANTHRACENE	1400	U		740	U		740	U		770	U	
A,A-DIMETHYLPHENETHYLAMINE	3500	U		1800	U		1800	U		1900	UJ	C
ACENAPHTHENE	720	U		370	U		370	U		380	U	
ACENAPHTHYLENE	720	U		370	U		370	U		380	U	
ACETOPHENONE	720	U		370	U		370	U		380	U	
ANILINE	720	U		370	U		370	U		380	U	
ANTHRACENE	160	J	P	370	U		370	U		380	U	
ARAMITE	1400	U		740	U		740	U		770	U	
BENZO(A)ANTHRACENE	2600			370	U		370	U		380	U	
BENZO(A)PYRENE	3500			370	U		370	U		380	U	
BENZO(B)FLUORANTHENE	5700			370	U		370	U		380	U	
BENZO(G,H,I)PERYLENE	2700			370	U		370	U		380	U	
BENZO(K)FLUORANTHENE	2200			370	U		370	U		380	U	
BENZYL ALCOHOL	720	U		370	U		370	U		380	U	
BIS(2-CHLOROETHOXY)METHANE	720	U		370	U		370	U		380	U	
BIS(2-CHLOROETHYL)ETHER	720	U		370	U		370	U		380	U	
BIS(2-ETHYLHEXYL)PHTHALATE	720	U		370	U		98	J	P	380	U	
BUTYLBENZYL PHTHALATE	720	U		370	U		370	U		380	U	
CARBAZOLE	290	J	P	370	U		370	U		380	U	
CHLOROBENZILATE	720	U		370	U		370	U		380	U	
CHRYSENE	3900			370	U		370	U		380	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SS-06-01
08/01/00
A0H030185002
NORMAL
92.1 %
UG/KG

MPT-55-SS-07-01
08/01/00
A0H030185003
NORMAL
89.0 %
UG/KG

MPT-55-SS-08-01
08/01/00
A0H030185004
NORMAL
89.0 %
UG/KG

MPT-55-SS-09-01
08/03/00
A0H040127003
NORMAL
86.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
DI-N-BUTYL PHTHALATE	720	U		370	U		370	U		380	U	
DI-N-OCTYL PHTHALATE	720	U		370	U		370	U		380	U	
DIALLATE	1400	U		740	U		740	U		770	U	
DIBENZO(A,H)ANTHRACENE	730			370	U		370	U		380	U	
DIBENZOFURAN	720	U		370	U		370	U		380	U	
DIETHYL PHTHALATE	720	U		370	U		370	U		380	U	
DIMETHYL PHTHALATE	720	U		370	U		370	U		380	U	
DINOSEB	1400	UJ	C	740	UJ	C	740	UJ	C	770	U	
DIPHENYLAMINE	720	U		370	U		370	U		380	U	
ETHYL METHANESULFONATE	720	U		370	U		370	U		380	U	
FLUORANTHENE	5600			370	U		370	U		380	U	
FLUORENE	720	U		370	U		370	U		380	U	
HEXACHLOROBENZENE	720	U		370	U		370	U		380	U	
HEXACHLOROBUTADIENE	720	U		370	U		370	U		380	U	
HEXACHLOROCYCLOPENTADIENE	3500	U		1800	U		1800	U		1900	U	
HEXACHLOROETHANE	720	U		370	U		370	U		380	U	
HEXACHLOROPROPENE	7200	U		3700	U		3700	U		3800	U	
INDENO(1,2,3-CD)PYRENE	2600			370	U		370	U		380	U	
ISOPHORONE	720	U		370	U		370	U		380	U	
ISOSAFROLE	1400	U		740	U		740	U		770	U	
METHAPYRILENE	3500	U		1800	U		1800	U		1900	U	
METHYL METHANESULFONATE	720	U		370	U		370	U		380	U	
N-NITROSO-DI-N-BUTYLAMINE	720	U		370	U		370	U		380	U	
N-NITROSO-DI-N-PROPYLAMINE	720	U		370	U		370	U		380	U	
N-NITROSODIETHYLAMINE	720	U		370	U		370	U		380	U	
N-NITROSODIMETHYLAMINE	720	U		370	U		370	U		380	U	
N-NITROSODIPHENYLAMINE	720	U		370	U		370	U		380	U	
N-NITROSOMETHYLETHYLAMINE	720	U		370	U		370	U		380	U	
N-NITROSOMORPHOLINE	720	U		370	U		370	U		380	U	
N-NITROSOPIPERIDINE	720	U		370	U		370	U		380	U	
N-NITROSOPYRROLIDINE	720	U		370	U		370	U		380	U	
NAPHTHALENE	720	U		370	U		370	U		380	U	
NITROBENZENE	720	U		370	U		370	U		380	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-06-01	MPT-55-SS-07-01	MPT-55-SS-08-01	MPT-55-SS-09-01
SAMPLE DATE:	08/01/00	08/01/00	08/01/00	08/03/00
LABORATORY ID:	A0H030185002	A0H030185003	A0H030185004	A0H040127003
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.1 %	89.0 %	89.0 %	86.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
O-TOLUIDINE	1400	U		740	U		740	U		770	U	
P-DIMETHYLAMINOAZOBENZENE	1400	U		740	U		740	U		770	U	
P-PHENYLENEDIAMINE	7200	U		3700	U		3700	U		3800	UJ	C
PENTACHLOROBENZENE	720	U		370	U		370	U		380	U	
PENTACHLOROETHANE	3500	U		1800	U		1800	U		1900	U	
PENTACHLORONITROBENZENE	3500	U		1800	U		1800	U		1900	U	
PENTACHLOROPHENOL	3500	U		1800	U		1800	U		1900	U	
PHENACETIN	1400	U		740	U		740	U		770	U	
PHENANTHRENE	1400			370	U		370	U		380	U	
PHENOL	720	U		370	U		370	U		380	U	
PRONAMIDE	1400	U		740	U		740	U		770	U	
PYRENE	4000			370	U		370	U		380	U	
PYRIDINE	1400	U		740	U		740	U		770	U	
SAFROLE	1400	U		740	U		740	U		770	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SD-01-01	MPT-55-SD-02-01	MPT-55-SD-03-01	MPT-55-SS-01-01
SAMPLE DATE:	08/01/00	08/03/00	08/03/00	07/31/00
LABORATORY ID:	A0H030185005	A0H040127001	A0H040127002	A0H030175001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	76.0 %	55.0 %	81.0 %	96.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PESTICIDES/PCBs												
4,4'-DDD	2.2	U		3.1	U		2.1	U		1.8	U	
4,4'-DDE	2.2	U		2.8	J	P	2.1	U		1.8	U	
4,4'-DDT	2.2	U		3.1	U		2.1	U		1.8	U	
ALDRIN	2.2	U		3.1	U		2.1	U		1.8	U	
ALPHA-BHC	2.2	U		3.1	U		2.1	U		1.8	U	
ALPHA-CHLORDANE	2.2	U		3.1	U		2.1	U		1.8	U	
AROCLOR-1016	43	U		60	U		41	U		34	U	
AROCLOR-1221	43	U		60	U		41	U		34	U	
AROCLOR-1232	43	U		60	U		41	U		34	U	
AROCLOR-1242	43	U		60	U		41	U		34	U	
AROCLOR-1248	43	U		60	U		41	U		34	U	
AROCLOR-1254	43	U		60	U		41	U		34	U	
AROCLOR-1260	43	U		60	U		41	U		34	U	
BETA-BHC	2.2	U		3.1	U		2.1	U		1.8	U	
DELTA-BHC	2.2	U		3.1	U		2.1	U		1.8	U	
DIELDRIN	2.2	U		3.1	U		2.1	U		1.8	U	
ENDOSULFAN I	2.2	U		3.1	U		2.1	U		1.8	U	
ENDOSULFAN II	2.2	U		3.1	U		2.1	U		1.8	U	
ENDOSULFAN SULFATE	2.2	U		3.1	U		2.1	U		1.8	U	
ENDRIN	2.2	U		3.1	U		2.1	U		1.8	U	
ENDRIN ALDEHYDE	2.2	U		3.1	U		2.1	U		1.8	U	
ENDRIN KETONE	2.2	U		3.1	U		2.1	U		1.8	U	
GAMMA-BHC (LINDANE)	2.2	U		3.1	U		2.1	U		1.8	U	
GAMMA-CHLORDANE	2.2	U		3.1	U		2.1	U		1.8	U	
HEPTACHLOR	2.2	U		3.1	U		2.1	U		1.8	U	
HEPTACHLOR EPOXIDE	2.2	U		3.1	U		2.1	U		1.8	U	
ISODRIN	4.3	U		6	U		4.1	U		3.4	U	
KEPONE	43	UJ	C	60	U		41	U		34	UJ	C
METHOXYCHLOR	4.3	U		6	U		4.1	U		3.4	U	
TOXAPHENE	88	U		120	U		82	U		70	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:	MPT-55-SS-02-01	MPT-55-SS-03-01	MPT-55-SS-04-01	MPT-55-SS-05-01
SAMPLE DATE:	07/31/00	07/31/00	07/31/00	08/01/00
LABORATORY ID:	A0H030175002	A0H030175003	A0H030175004	A0H030185001
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	92.4 %	95.3 %	86.0 %	78.0 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PESTICIDES/PCBs												
4,4'-DDD	1.8	U		1.8	U		2	U		2.2	U	
4,4'-DDE	1.8	U		1.8	U		2	U		2.2	U	
4,4'-DDT	1.8	U		1.8	U		2	U		2.2	U	
ALDRIN	1.8	U		1.8	U		2	U		2.2	U	
ALPHA-BHC	1.8	U		1.8	U		2	U		2.2	U	
ALPHA-CHLORDANE	1.8	U		1.8	U		2	U		2.2	U	
AROCLOR-1016	36	U		35	U		38	U		42	U	
AROCLOR-1221	36	U		35	U		38	U		42	U	
AROCLOR-1232	36	U		35	U		38	U		42	U	
AROCLOR-1242	36	U		35	U		38	U		42	U	
AROCLOR-1248	36	U		35	U		38	U		42	U	
AROCLOR-1254	36	U		35	U		38	U		42	U	
AROCLOR-1260	36	U		35	U		38	U		42	U	
BETA-BHC	1.8	U		1.8	U		2	U		2.2	U	
DELTA-BHC	1.8	U		1.8	U		2	U		2.2	U	
DIELDRIN	1.8	U		1.8	U		2	U		2.2	U	
ENDOSULFAN I	1.8	U		1.8	U		2	U		2.2	U	
ENDOSULFAN II	1.8	U		1.8	U		2	U		2.2	U	
ENDOSULFAN SULFATE	1.8	U		1.8	U		2	U		2.2	U	
ENDRIN	1.8	U		1.8	U		2	U		2.2	U	
ENDRIN ALDEHYDE	1.8	U		1.8	U		2	U		2.2	U	
ENDRIN KETONE	1.8	U		1.8	U		2	U		2.2	U	
GAMMA-BHC (LINDANE)	1.8	U		1.8	U		2	U		2.2	U	
GAMMA-CHLORDANE	1.8	U		1.8	U		2	U		2.2	U	
HEPTACHLOR	1.8	U		1.8	U		2	U		2.2	U	
HEPTACHLOR EPOXIDE	1.8	U		1.8	U		2	U		2.2	U	
ISODRIN	3.6	U		3.5	U		3.8	U		4.2	U	
KEPONE	36	UJ	C	35	UJ	C	38	UJ	C	42	UJ	C
METHOXYCHLOR	3.6	U		3.5	U		3.8	U		4.2	U	
TOXAPHENE	73	U		70	U		78	U		85	U	

**NS MAYPORT
SOIL DATA
QUANTERRA
SDG: MP022**

SAMPLE NUMBER:
SAMPLE DATE:
LABORATORY ID:
QC_TYPE:
% SOLIDS:
UNITS:
FIELD DUPLICATE OF:

MPT-55-SS-06-01
08/01/00
A0H030185002
NORMAL
92.1 %
UG/KG

MPT-55-SS-07-01
08/01/00
A0H030185003
NORMAL
89.0 %
UG/KG

MPT-55-SS-08-01
08/01/00
A0H030185004
NORMAL
89.0 %
UG/KG

MPT-55-SS-09-01
08/03/00
A0H040127003
NORMAL
86.0 %
UG/KG

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PESTICIDES/PCBs												
4,4'-DDD	18	U		1.9	U		1.9	U		2	U	
4,4'-DDE	14	J	PU	2.7			1.9	U		2	U	
4,4'-DDT	84	R	U	1.9	U		1.9	U		2	U	
ALDRIN	18	U		1.9	U		1.9	U		2	U	
ALPHA-BHC	18	U		1.9	U		1.9	U		2	U	
ALPHA-CHLORDANE	18	U		1.9	U		1.9	U		2	U	
AROCLOR-1016	72	U		37	U		37	U		38	U	
AROCLOR-1221	72	U		37	U		37	U		38	U	
AROCLOR-1232	72	U		37	U		37	U		38	U	
AROCLOR-1242	72	U		37	U		37	U		38	U	
AROCLOR-1248	72	U		37	U		37	U		38	U	
AROCLOR-1254	72	U		37	U		37	U		38	U	
AROCLOR-1260	800			37	U		10	J	UP	38	U	
BETA-BHC	18	U		1.9	U		1.9	U		2	U	
DELTA-BHC	18	U		1.9	U		1.9	U		2	U	
DIELDRIN	18	U		1.9	U		1.9	U		2	U	
ENDOSULFAN I	18	U		1.9	U		1.9	U		2	U	
ENDOSULFAN II	18	U		1.9	U		1.9	U		2	U	
ENDOSULFAN SULFATE	18	U		1.9	U		1.9	U		2	U	
ENDRIN	18	U		1.9	U		1.9	U		2	U	
ENDRIN ALDEHYDE	18	U		1.9	U		1.9	U		2	U	
ENDRIN KETONE	18	U		1.9	U		1.9	U		2	U	
GAMMA-BHC (LINDANE)	18	U		1.9	U		1.9	U		2	U	
GAMMA-CHLORDANE	18	U		1.9	U		1.9	U		2	U	
HEPTACHLOR	18	U		1.9	U		1.9	U		2	U	
HEPTACHLOR EPOXIDE	18	U		1.9	U		1.9	U		2	U	
ISODRIN	36	U		3.7	U		3.7	U		3.8	U	
KEPONE	360	U		37	UJ	C	37	UJ	C	38	U	
METHOXYCHLOR	36	U		3.7	U		3.7	U		3.8	U	
TOXAPHENE	730	U		75	U		76	U		78	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MK101

Date Extracted: 08/08/00

Dilution factor: 1.09

Date Analyzed: 08/08/00

Moisture %: 24

QC Batch: 0222101

Client Sample Id: MPT-55-SD-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	14		U
75-05-8	Acetonitrile	140		U
107-02-8	Acrolein	140		U
107-13-1	Acrylonitrile	140		U
71-43-2	Benzene	7.1		U
75-27-4	Bromodichloromethane	7.1		U
75-25-2	Bromoform	7.1		U
74-83-9	Bromomethane	14		U
75-15-0	Carbon disulfide	7.1		U
56-23-5	Carbon tetrachloride	7.1		U
108-90-7	Chlorobenzene	7.1		U
126-99-8	Chloroprene	7.1		U
124-48-1	Dibromochloromethane	7.1		U
96-12-8	1,2-Dibromo-3-chloropropane	14		U
75-00-3	Chloroethane	14		U
110-75-8	2-Chloroethyl vinyl ether	71		U
67-66-3	Chloroform	7.1		U
74-87-3	Chloromethane	14		U
107-05-1	Allyl chloride	14		U
74-95-3	Dibromomethane	7.1		U
110-57-6	trans-1,4-Dichloro-2-butene	7.1		U
75-71-8	Dichlorodifluoromethane	14		U
75-34-3	1,1-Dichloroethane	7.1		U
107-06-2	1,2-Dichloroethane	7.1		U
75-35-4	1,1-Dichloroethene	7.1		U
156-59-2	cis-1,2-Dichloroethene	3.6		U
156-60-5	trans-1,2-Dichloroethene	3.6		U
540-59-0	1,2-Dichloroethene (total)	7.1		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MK101

Date Extracted: 08/08/00

Dilution factor: 1.09

Date Analyzed: 08/08/00

Moisture %: 24

QC Batch: 0222101

Client Sample Id: MPT-55-SD-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	7.1		Q
10061-01-5	cis-1,3-Dichloropropene	7.1		Q
10061-02-6	trans-1,3-Dichloropropene	7.1		Q
100-41-4	Ethylbenzene	7.1		Q
97-63-2	Ethyl methacrylate	7.1		Q
75-69-4	Trichlorofluoromethane	14		Q
591-78-6	2-Hexanone	29		Q
74-88-4	Iodomethane	7.1		Q
78-83-1	Isobutyl alcohol	290		Q
126-98-7	Methacrylonitrile	7.1		Q
75-09-2	Methylene chloride	7.1		Q
80-62-6	Methyl methacrylate	7.1		Q
107-12-0	Propionitrile	29		Q
100-42-5	Styrene	7.1		Q
630-20-6	1,1,1,2-Tetrachloroethane	7.1		Q
79-34-5	1,1,2,2-Tetrachloroethane	7.1		Q
127-18-4	Tetrachloroethene	7.1		Q
108-88-3	Toluene	7.1		Q
71-55-6	1,1,1-Trichloroethane	7.1		Q
79-00-5	1,1,2-Trichloroethane	7.1		Q
79-01-6	Trichloroethene	7.1		Q
96-18-4	1,2,3-Trichloropropane	7.1		Q
108-05-4	Vinyl acetate	14		Q
75-01-4	Vinyl chloride	14		Q
1330-20-7	Xylenes (total)	7.1		Q
1634-04-4	Methyl tert-butyl ether	29		Q
106-93-4	1,2-Dibromoethane (EDB)	7.1		Q
78-93-3	2-Butanone (MEK)	29		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030195 005

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MK101

Date Extracted: 08/08/00

Dilution factor: 1.09

Date Analyzed: 08/08/00

Moisture %: 24

QC Batch: 0222101

Client Sample Id: MPT-55-SD-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	29		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD3R102

Date Extracted: 08/10/00

Dilution factor: 0.98

Date Analyzed: 08/10/00

Moisture %: 45

QC Batch: 0224103

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	36	Q
75-05-8	Acetonitrile	180	Q
107-02-8	Acrolein	180	Q
107-13-1	Acrylonitrile	180	Q
71-43-2	Benzene	8.9	Q
75-27-4	Bromodichloromethane	8.9	Q
75-25-2	Bromoform	8.9	Q
74-83-9	Bromomethane	18	Q
75-15-0	Carbon disulfide	8.9	Q
56-23-5	Carbon tetrachloride	8.9	Q
108-90-7	Chlorobenzene	8.9	Q
126-99-8	Chloroprene	8.9	Q
124-48-1	Dibromochloromethane	8.9	Q
96-12-8	1,2-Dibromo-3-chloropropane	18	Q
75-00-3	Chloroethane	18	Q
110-75-8	2-Chloroethyl vinyl ether	89	Q
67-66-3	Chloroform	8.9	Q
74-87-3	Chloromethane	18	Q
107-05-1	Allyl chloride	18	Q
74-95-3	Dibromomethane	8.9	Q
110-57-6	trans-1,4-Dichloro-2-butene	8.9	Q
75-71-8	Dichlorodifluoromethane	18	Q
75-34-3	1,1-Dichloroethane	8.9	Q
107-06-2	1,2-Dichloroethane	8.9	Q
75-35-4	1,1-Dichloroethene	8.9	Q
156-59-2	cis-1,2-Dichloroethene	4.5	Q
156-60-5	trans-1,2-Dichloroethene	4.5	Q
540-59-0	1,2-Dichloroethene (total)	8.9	Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD3R102

Date Extracted: 08/10/00

Dilution factor: 0.98

Date Analyzed: 08/10/00

Moisture %: 45

QC Batch: 0224103

Client Sample Id: MPT-55-SD-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	8.9		Q
10061-01-5	cis-1,3-Dichloropropene	8.9		Q
10061-02-6	trans-1,3-Dichloropropene	8.9		Q
100-41-4	Ethylbenzene	8.9		Q
97-63-2	Ethyl methacrylate	8.9		Q
75-69-4	Trichlorofluoromethane	18		Q
591-78-6	2-Hexanone	36		Q
74-88-4	Iodomethane	8.9		Q
78-83-1	Isobutyl alcohol	360		Q
126-98-7	Methacrylonitrile	8.9		Q
75-09-2	Methylene chloride	8.9		Q
80-62-6	Methyl methacrylate	8.9		Q
107-12-0	Propionitrile	36		Q
100-42-5	Styrene	8.9		Q
630-20-6	1,1,1,2-Tetrachloroethane	8.9		Q
79-34-5	1,1,2,2-Tetrachloroethane	8.9		Q
127-18-4	Tetrachloroethene	8.9		Q
108-88-3	Toluene	8.9		Q
71-55-6	1,1,1-Trichloroethane	8.9		Q
79-00-5	1,1,2-Trichloroethane	8.9		Q
79-01-6	Trichloroethene	8.9		Q
96-18-4	1,2,3-Trichloropropane	8.9		Q
108-05-4	Vinyl acetate	18		Q
75-01-4	Vinyl chloride	18		Q
1330-20-7	Xylenes (total)	8.9		Q
1634-04-4	Methyl tert-butyl ether	36		Q
106-93-4	1,2-Dibromoethane (EDB)	8.9		Q
78-93-3	2-Butanone (MEK)	36		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD3R102

Date Extracted: 08/10/00

Dilution factor: 0.98

Date Analyzed: 08/10/00

Moisture %: 45

QC Batch: 0224103

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	36		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD48102

Date Extracted: 08/10/00

Dilution factor: 1.02

Date Analyzed: 08/10/00

Moisture %: 19

QC Batch: 0224103

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	25	Q
75-05-8	Acetonitrile	130	Q
107-02-8	Acrolein	130	Q
107-13-1	Acrylonitrile	130	Q
71-43-2	Benzene	6.3	Q
75-27-4	Bromodichloromethane	6.3	Q
75-25-2	Bromoform	6.3	Q
74-83-9	Bromomethane	13	Q
75-15-0	Carbon disulfide	6.3	Q
56-23-5	Carbon tetrachloride	6.3	Q
108-90-7	Chlorobenzene	6.3	Q
126-99-8	Chloroprene	6.3	Q
124-48-1	Dibromochloromethane	6.3	Q
96-12-8	1,2-Dibromo-3-chloropropane	13	Q
75-00-3	Chloroethane	13	Q
110-75-8	2-Chloroethyl vinyl ether	63	Q
67-66-3	Chloroform	6.3	Q
74-87-3	Chloromethane	13	Q
107-05-1	Allyl chloride	13	Q
74-95-3	Dibromomethane	6.3	Q
110-57-6	trans-1,4-Dichloro-2-butene	6.3	Q
75-71-8	Dichlorodifluoromethane	13	Q
75-34-3	1,1-Dichloroethane	6.3	Q
107-06-2	1,2-Dichloroethane	6.3	Q
75-35-4	1,1-Dichloroethene	6.3	Q
156-59-2	cis-1,2-Dichloroethene	3.1	Q
156-60-5	trans-1,2-Dichloroethene	3.1	Q
540-59-0	1,2-Dichloroethene (total)	6.3	Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD48102

Date Extracted: 08/10/00

Dilution factor: 1.02

Date Analyzed: 08/10/00

Moisture %: 19

QC Batch: 0224103

Client Sample Id: MPT-55-SD-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.3		U
10061-01-5	cis-1,3-Dichloropropene	6.3		U
10061-02-6	trans-1,3-Dichloropropene	6.3		U
100-41-4	Ethylbenzene	6.3		U
97-63-2	Ethyl methacrylate	6.3		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.3		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.3		U
75-09-2	Methylene chloride	6.3		U
80-62-6	Methyl methacrylate	6.3		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.3		U
630-20-6	1,1,1,2-Tetrachloroethane	6.3		U
79-34-5	1,1,2,2-Tetrachloroethane	6.3		U
127-18-4	Tetrachloroethene	6.3		U
108-88-3	Toluene	6.3		U
71-55-6	1,1,1-Trichloroethane	6.3		U
79-00-5	1,1,2-Trichloroethane	6.3		U
79-01-6	Trichloroethene	6.3		U
96-18-4	1,2,3-Trichloropropane	6.3		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.3		U
1634-04-4	Methyl tert-butyl ether	25		U
106-93-4	1,2-Dibromoethane (EDB)	6.3		U
78-93-3	2-Butanone (MEK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD48102

Date Extracted: 08/10/00

Dilution factor: 1.02

Date Analyzed: 08/10/00

Moisture %: 19

QC Batch: 0224103

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9GA101

Date Extracted: 08/08/00

Dilution factor: 1.22

Date Analyzed: 08/08/00

Moisture %: 4.0

QC Batch: 0222101

Client Sample Id: MPT-55-SS-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	25		Q
75-05-8	Acetonitrile	130		Q
107-02-8	Acrolein	130		Q
107-13-1	Acrylonitrile	130		Q
71-43-2	Benzene	6.4		Q
75-27-4	Bromodichloromethane	6.4		Q
75-25-2	Bromoform	6.4		Q
74-83-9	Bromomethane	13		Q
75-15-0	Carbon disulfide	6.4		Q
56-23-5	Carbon tetrachloride	6.4		Q
108-90-7	Chlorobenzene	6.4		Q
126-99-8	Chloroprene	6.4		Q
124-48-1	Dibromochloromethane	6.4		Q
96-12-8	1,2-Dibromo-3-chloropropane	13		Q
75-00-3	Chloroethane	13		Q
110-75-8	2-Chloroethyl vinyl ether	64		Q
67-66-3	Chloroform	6.4		Q
74-87-3	Chloromethane	13		Q
107-05-1	Allyl chloride	13		Q
74-95-3	Dibromomethane	6.4		Q
110-57-6	trans-1,4-Dichloro-2-butene	6.4		Q
75-71-8	Dichlorodifluoromethane	13		Q
75-34-3	1,1-Dichloroethane	6.4		Q
107-06-2	1,2-Dichloroethane	6.4		Q
75-35-4	1,1-Dichloroethene	6.4		Q
156-59-2	cis-1,2-Dichloroethene	3.2		Q
156-60-5	trans-1,2-Dichloroethene	3.2		Q
540-59-0	1,2-Dichloroethene (total)	6.4		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SC

Lab Sample ID: A0H030175 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9GA101

Date Extracted: 08/08/00

Dilution factor: 1.22

Date Analyzed: 08/08/00

Moisture %: 4.0

QC Batch: 0222101

Client Sample Id: MPT-55-SS-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.4		U
10061-01-5	cis-1,3-Dichloropropene	6.4		U
10061-02-6	trans-1,3-Dichloropropene	6.4		U
100-41-4	Ethylbenzene	6.4		U
97-63-2	Ethyl methacrylate	6.4		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.4		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.4		U
75-09-2	Methylene chloride	6.4		U
80-62-6	Methyl methacrylate	6.4		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.4		U
630-20-6	1,1,1,2-Tetrachloroethane	6.4		U
79-34-5	1,1,2,2-Tetrachloroethane	6.4		U
127-18-4	Tetrachloroethene	6.4		U
108-88-3	Toluene	6.4		U
71-55-6	1,1,1-Trichloroethane	6.4		U
79-00-5	1,1,2-Trichloroethane	6.4		U
79-01-6	Trichloroethene	6.4		U
96-18-4	1,2,3-Trichloropropane	6.4		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.4		U
1634-04-4	Methyl tert-butyl ether	25		U
106-93-4	1,2-Dibromoethane (EDB)	6.4		U
78-93-3	2-Butanone (MEK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9GA101

Date Extracted: 08/08/00

Dilution factor: 1.22

Date Analyzed: 08/08/00

Moisture %: 4.0

QC Batch: 0222101

Client Sample Id: MPT-55-SS-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030175 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9HM101

Date Extracted: 08/08/00

Dilution factor: 1.11

Date Analyzed: 08/08/00

Moisture %: 7.6

QC Batch: 0222101

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	24		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.0		U
75-27-4	Bromodichloromethane	6.0		U
75-25-2	Bromoform	6.0		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.0		U
56-23-5	Carbon tetrachloride	6.0		U
108-90-7	Chlorobenzene	6.0		U
126-99-8	Chloroprene	6.0		U
124-48-1	Dibromochloromethane	6.0		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	60		U
67-66-3	Chloroform	6.0		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.0		U
110-57-6	trans-1,4-Dichloro-2-butene	6.0		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.0		U
107-06-2	1,2-Dichloroethane	6.0		U
75-35-4	1,1-Dichloroethene	6.0		U
156-59-2	cis-1,2-Dichloroethene	3.0		U
156-60-5	trans-1,2-Dichloroethene	3.0		U
540-59-0	1,2-Dichloroethene (total)	6.0		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9HM101

Date Extracted: 08/08/00

Dilution factor: 1.11

Date Analyzed: 08/08/00

Moisture %: 7.6

QC Batch: 0222101

Client Sample Id: MPT-55-SS-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	6.0	U
10061-01-5	cis-1,3-Dichloropropene	6.0	U
10061-02-6	trans-1,3-Dichloropropene	6.0	U
100-41-4	Ethylbenzene	6.0	U
97-63-2	Ethyl methacrylate	6.0	U
75-69-4	Trichlorofluoromethane	12	U
591-78-6	2-Hexanone	24	U
74-88-4	Iodomethane	6.0	U
78-83-1	Isobutyl alcohol	240	U
126-98-7	Methacrylonitrile	6.0	U
75-09-2	Methylene chloride	6.0	U
80-62-6	Methyl methacrylate	6.0	U
107-12-0	Propionitrile	24	U
100-42-5	Styrene	6.0	U
630-20-6	1,1,1,2-Tetrachloroethane	6.0	U
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U
127-18-4	Tetrachloroethene	6.0	U
108-88-3	Toluene	6.0	U
71-55-6	1,1,1-Trichloroethane	6.0	U
79-00-5	1,1,2-Trichloroethane	6.0	U
79-01-6	Trichloroethene	6.0	U
96-18-4	1,2,3-Trichloropropane	6.0	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Xylenes (total)	6.0	U
1634-04-4	Methyl tert-butyl ether	24	U
106-93-4	1,2-Dibromoethane (EDB)	6.0	U
78-93-3	2-Butanone (MEK)	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030175 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9HM101

Date Extracted: 08/08/00

Dilution factor: 1.11

Date Analyzed: 08/08/00

Moisture %: 7.6

QC Batch: 0222101

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOK030175 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9HV101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 4.7

QC Batch: 0222101

Client Sample Id: MPT-55-SS-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	24	Q
75-05-8	Acetonitrile	120	Q
107-02-8	Acrolein	120	Q
107-13-1	Acrylonitrile	120	Q
71-43-2	Benzene	6.0	Q
75-27-4	Bromodichloromethane	6.0	Q
75-25-2	Bromoform	6.0	Q
74-83-9	Bromomethane	12	Q
75-15-0	Carbon disulfide	6.0	Q
56-23-5	Carbon tetrachloride	6.0	Q
108-90-7	Chlorobenzene	6.0	Q
126-99-8	Chloroprene	6.0	Q
124-48-1	Dibromochloromethane	6.0	Q
96-12-8	1,2-Dibromo-3-chloropropane	12	Q
75-00-3	Chloroethane	12	Q
110-75-8	2-Chloroethyl vinyl ether	60	Q
67-66-3	Chloroform	6.0	Q
74-87-3	Chloromethane	12	Q
107-05-1	Allyl chloride	12	Q
74-95-3	Dibromomethane	6.0	Q
110-57-6	trans-1,4-Dichloro-2-butene	6.0	Q
75-71-8	Dichlorodifluoromethane	12	Q
75-34-3	1,1-Dichloroethane	6.0	Q
107-06-2	1,2-Dichloroethane	6.0	Q
75-35-4	1,1-Dichloroethene	6.0	Q
156-59-2	cis-1,2-Dichloroethene	3.0	Q
156-60-5	trans-1,2-Dichloroethene	3.0	Q
540-59-0	1,2-Dichloroethene (total)	6.0	Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9HV101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 4.7

QC Batch: 0222101

Client Sample Id: MPT-55-SS-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.0		U
10061-01-5	cis-1,3-Dichloropropene	6.0		U
10061-02-6	trans-1,3-Dichloropropene	6.0		U
100-41-4	Ethylbenzene	6.0		U
97-63-2	Ethyl methacrylate	6.0		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	24		U
74-88-4	Iodomethane	6.0		U
78-83-1	Isobutyl alcohol	240		U
126-98-7	Methacrylonitrile	6.0		U
75-09-2	Methylene chloride	6.0		U
80-62-6	Methyl methacrylate	6.0		U
107-12-0	Propionitrile	24		U
100-42-5	Styrene	6.0		U
630-20-6	1,1,1,2-Tetrachloroethane	6.0		U
79-34-5	1,1,2,2-Tetrachloroethane	6.0		U
127-18-4	Tetrachloroethene	6.0		U
108-88-3	Toluene	6.0		U
71-55-6	1,1,1-Trichloroethane	6.0		U
79-00-5	1,1,2-Trichloroethane	6.0		U
79-01-6	Trichloroethene	6.0		U
96-18-4	1,2,3-Trichloropropane	6.0		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	6.0		U
1634-04-4	Methyl tert-butyl ether	24		U
106-93-4	1,2-Dibromoethane (EDB)	6.0		U
78-93-3	2-Butanone (MEK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9HV101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 4.7

QC Batch: 0222101

Client Sample Id: MPT-55-SS-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	24		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030175 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9J2101

Date Extracted: 08/10/00

Dilution factor: 1.31

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0224103

Client Sample Id: MPT-55-SS-04-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	30		U
75-05-8	Acetonitrile	150		U
107-02-8	Acrolein	150		U
107-13-1	Acrylonitrile	150		U
71-43-2	Benzene	7.6		U
75-27-4	Bromodichloromethane	7.6		U
75-25-2	Bromoform	7.6		U
74-83-9	Bromomethane	15		U
75-15-0	Carbon disulfide	7.6		U
56-23-5	Carbon tetrachloride	7.6		U
108-90-7	Chlorobenzene	7.6		U
126-99-8	Chloroprene	7.6		U
124-48-1	Dibromochloromethane	7.6		U
96-12-8	1,2-Dibromo-3-chloropropane	15		U
75-00-3	Chloroethane	15		U
110-75-8	2-Chloroethyl vinyl ether	76		U
67-66-3	Chloroform	7.6		U
74-87-3	Chloromethane	15		U
107-05-1	Allyl chloride	15		U
74-95-3	Dibromomethane	7.6		U
110-57-6	trans-1,4-Dichloro-2-butene	7.6		U
75-71-8	Dichlorodifluoromethane	15		U
75-34-3	1,1-Dichloroethane	7.6		U
107-06-2	1,2-Dichloroethane	7.6		U
75-35-4	1,1-Dichloroethene	7.6		U
156-59-2	cis-1,2-Dichloroethene	3.8		U
156-60-5	trans-1,2-Dichloroethene	3.8		U
540-59-0	1,2-Dichloroethene (total)	7.6		U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9J2101

Date Extracted: 08/10/00

Dilution factor: 1.31

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0224103

Client Sample Id: MPT-55-SS-04-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	7.6		U
10061-01-5	cis-1,3-Dichloropropene	7.6		U
10061-02-6	trans-1,3-Dichloropropene	7.6		U
100-41-4	Ethylbenzene	7.6		U
97-63-2	Ethyl methacrylate	7.6		U
75-69-4	Trichlorofluoromethane	15		U
591-78-6	2-Hexanone	30		U
74-88-4	Iodomethane	7.6		U
78-83-1	Isobutyl alcohol	300		U
126-98-7	Methacrylonitrile	7.6		U
75-09-2	Methylene chloride	7.6		U
80-62-6	Methyl methacrylate	7.6		U
107-12-0	Propionitrile	30		U
100-42-5	Styrene	7.6		U
630-20-6	1,1,1,2-Tetrachloroethane	7.6		U
79-34-5	1,1,2,2-Tetrachloroethane	7.6		U
127-18-4	Tetrachloroethene	7.6		U
108-88-3	Toluene	7.6		U
71-55-6	1,1,1-Trichloroethane	7.6		U
79-00-5	1,1,2-Trichloroethane	7.6		U
79-01-6	Trichloroethene	7.6		U
96-18-4	1,2,3-Trichloropropane	7.6		U
108-05-4	Vinyl acetate	15		U
75-01-4	Vinyl chloride	15		U
1330-20-7	Xylenes (total)	7.6		U
1634-04-4	Methyl tert-butyl ether	30		U
106-93-4	1,2-Dibromoethane (EDB)	7.6		U
78-93-3	2-Butanone (MEK)	30		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/01/00

Work Order: DH9J2101

Date Extracted: 08/10/00

Dilution factor: 1.31

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0224103

Client Sample Id: MPT-55-SS-04-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	30	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9LH101

Date Extracted: 08/08/00

Dilution factor: 0.96

Date Analyzed: 08/08/00

Moisture %: 22

QC Batch: 0222101

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	24	U
75-05-8	Acetonitrile	120	U
107-02-8	Acrolein	120	U
107-13-1	Acrylonitrile	120	U
71-43-2	Benzene	6.1	U
75-27-4	Bromodichloromethane	6.1	U
75-25-2	Bromoform	6.1	U
74-83-9	Bromomethane	12	U
75-15-0	Carbon disulfide	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
108-90-7	Chlorobenzene	6.1	U
126-99-8	Chloroprene	6.1	U
124-48-1	Dibromochloromethane	6.1	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
75-00-3	Chloroethane	12	U
110-75-8	2-Chloroethyl vinyl ether	61	U
67-66-3	Chloroform	6.1	U
74-87-3	Chloromethane	12	U
107-05-1	Allyl chloride	12	U
74-95-3	Dibromomethane	6.1	U
110-57-6	trans-1,4-Dichloro-2-butene	6.1	U
75-71-8	Dichlorodifluoromethane	12	U
75-34-3	1,1-Dichloroethane	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
156-59-2	cis-1,2-Dichloroethene	3.1	U
156-60-5	trans-1,2-Dichloroethene	3.1	U
540-59-0	1,2-Dichloroethene (total)	6.1	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9LH101

Date Extracted: 08/08/00

Dilution factor: 0.96

Date Analyzed: 08/08/00

Moisture %: 22

QC Batch: 0222101

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	6.1	Q
10061-01-5	cis-1,3-Dichloropropene	6.1	Q
10061-02-6	trans-1,3-Dichloropropene	6.1	Q
100-41-4	Ethylbenzene	6.1	Q
97-63-2	Ethyl methacrylate	6.1	Q
75-69-4	Trichlorofluoromethane	12	Q
591-78-6	2-Hexanone	24	Q
74-88-4	Iodcmethane	6.1	Q
78-83-1	Isobutyl alcohol	240	Q
126-98-7	Methacrylonitrile	6.1	Q
75-09-2	Methylene chloride	6.1	Q
80-62-6	Methyl methacrylate	6.1	Q
107-12-0	Propionitrile	24	Q
100-42-5	Styrene	6.1	Q
630-20-6	1,1,1,2-Tetrachloroethane	6.1	Q
79-34-5	1,1,2,2-Tetrachloroethane	6.1	Q
127-18-4	Tetrachloroethene	6.1	Q
108-88-3	Toluene	6.1	Q
71-55-6	1,1,1-Trichloroethane	6.1	Q
79-00-5	1,1,2-Trichloroethane	6.1	Q
79-01-6	Trichloroethene	6.1	Q
96-18-4	1,2,3-Trichloropropane	6.1	Q
108-05-4	Vinyl acetate	12	Q
75-01-4	Vinyl chloride	12	Q
1330-20-7	Xylenes (total)	6.1	Q
1634-04-4	Methyl tert-butyl ether	24	Q
106-93-4	1,2-Dibromoethane (EDB)	6.1	Q
78-93-3	2-Butanone (MEK)	24	Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9LH101

Date Extracted: 08/08/00

Dilution factor: 0.96

Date Analyzed: 08/08/00

Moisture %: 22

QC Batch: 0222101

Client Sample Id: MPT-55-SS-05-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	0
108-10-1	4-Methyl-2-pentanone (MIBK)	24		0

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9M9101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 7.9

QC Batch: 0222101

Client Sample Id: MPT-55-SS-06-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	25		Q
75-05-8	Acetonitrile	120		Q
107-02-8	Acrolein	120		Q
107-13-1	Acrylonitrile	120		Q
71-43-2	Benzene	6.2		Q
75-27-4	Bromodichloromethane	6.2		Q
75-25-2	Bromoform	6.2		Q
74-83-9	Bromomethane	12		Q
75-15-0	Carbon disulfide	6.2		Q
56-23-5	Carbon tetrachloride	6.2		Q
108-90-7	Chlorobenzene	6.2		Q
126-99-8	Chloroprene	6.2		Q
124-48-1	Dibromochloromethane	6.2		Q
96-12-8	1,2-Dibromo-3-chloropropane	12		Q
75-00-3	Chloroethane	12		Q
110-75-8	2-Chloroethyl vinyl ether	62		Q
67-66-3	Chloroform	6.2		Q
74-87-3	Chloromethane	12		Q
107-05-1	Allyl chloride	12		Q
74-95-3	Dibromomethane	6.2		Q
110-57-6	trans-1,4-Dichloro-2-butene	6.2		Q
75-71-8	Dichlorodifluoromethane	12		Q
75-34-3	1,1-Dichloroethane	6.2		Q
107-06-2	1,2-Dichloroethane	6.2		Q
75-35-4	1,1-Dichloroethene	6.2		Q
156-59-2	cis-1,2-Dichloroethene	3.1		Q
156-60-5	trans-1,2-Dichloroethene	3.1		Q
540-59-0	1,2-Dichloroethene (total)	6.2		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9M9101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 7.9

QC Batch: 0222101

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	6.2		U
10061-01-5	cis-1,3-Dichloropropene	6.2		U
10061-02-6	trans-1,3-Dichloropropene	6.2		U
100-41-4	Ethylbenzene	6.2		U
97-63-2	Ethyl methacrylate	6.2		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.2		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.2		U
75-09-2	Methylene chloride	6.2		U
80-62-6	Methyl methacrylate	6.2		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.2		U
630-20-6	1,1,1,2-Tetrachloroethane	6.2		U
79-34-5	1,1,2,2-Tetrachloroethane	6.2		U
127-18-4	Tetrachloroethene	6.2		U
108-88-3	Toluene	6.2		U
71-55-6	1,1,1-Trichloroethane	6.2		U
79-00-5	1,1,2-Trichloroethane	6.2		U
79-01-6	Trichloroethene	6.2		U
96-18-4	1,2,3-Trichloropropane	6.2		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	6.2		U
1634-04-4	Methyl tert-butyl ether	25		U
106-93-4	1,2-Dibromoethane (EDB)	6.2		U
78-93-3	2-Butanone (MEK)	25		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP022

Matrix: (soil/water) SO

Lab Sample ID:ACH030185 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9M9101

Date Extracted:08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %:7.9

QC Batch: 0222101

Client Sample Id: MPT-55-SS-06-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	25		U

TETRA TECH NUS, INC.

Lab Name:Severn Trent Laboratories, Inc.

SDG Number:MP022

Matrix: (soil/water) SO

Lab Sample ID:A0H030185 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MH101

Date Extracted:08/08/00

Dilution factor: 1.09

Date Analyzed: 08/08/00

Moisture %:11

QC Batch: 0222101

Client Sample Id: MPT-55-SS-07-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	25		U
75-05-8	Acetonitrile	120		U
107-02-8	Acrolein	120		U
107-13-1	Acrylonitrile	120		U
71-43-2	Benzene	6.1		U
75-27-4	Bromodichloromethane	6.1		U
75-25-2	Bromoform	6.1		U
74-83-9	Bromomethane	12		U
75-15-0	Carbon disulfide	6.1		U
56-23-5	Carbon tetrachloride	6.1		U
108-90-7	Chlorobenzene	6.1		U
126-99-8	Chloroprene	6.1		U
124-48-1	Dibromochloromethane	6.1		U
96-12-8	1,2-Dibromo-3-chloropropane	12		U
75-00-3	Chloroethane	12		U
110-75-8	2-Chloroethyl vinyl ether	61		U
67-66-3	Chloroform	6.1		U
74-87-3	Chloromethane	12		U
107-05-1	Allyl chloride	12		U
74-95-3	Dibromomethane	6.1		U
110-57-6	trans-1,4-Dichloro-2-butene	6.1		U
75-71-8	Dichlorodifluoromethane	12		U
75-34-3	1,1-Dichloroethane	6.1		U
107-06-2	1,2-Dichloroethane	6.1		U
75-35-4	1,1-Dichloroethene	6.1		U
156-59-2	cis-1,2-Dichloroethene	3.1		U
156-60-5	trans-1,2-Dichloroethene	3.1		U
540-59-0	1,2-Dichloroethene (total)	6.1		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MH101

Date Extracted: 08/08/00

Dilution factor: 1.09

Date Analyzed: 08/08/00

Moisture %: 11

QC Batch: 0222101

Client Sample Id: MPT-55-SS-07-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
78-87-5	1,2-Dichloropropane	6.1		U
10061-01-5	cis-1,3-Dichloropropene	6.1		U
10061-02-6	trans-1,3-Dichloropropene	6.1		U
100-41-4	Ethylbenzene	6.1		U
97-63-2	Ethyl methacrylate	6.1		U
75-69-4	Trichlorofluoromethane	12		U
591-78-6	2-Hexanone	25		U
74-88-4	Iodomethane	6.1		U
78-83-1	Isobutyl alcohol	250		U
126-98-7	Methacrylonitrile	6.1		U
75-09-2	Methylene chloride	6.1		U
80-62-6	Methyl methacrylate	6.1		U
107-12-0	Propionitrile	25		U
100-42-5	Styrene	6.1		U
630-20-6	1,1,1,2-Tetrachloroethane	6.1		U
79-34-5	1,1,2,2-Tetrachloroethane	6.1		U
127-18-4	Tetrachloroethene	6.1		U
108-88-3	Toluene	6.1		U
71-55-6	1,1,1-Trichloroethane	6.1		U
79-00-5	1,1,2-Trichloroethane	6.1		U
79-01-6	Trichloroethene	6.1		U
96-18-4	1,2,3-Trichloropropane	6.1		U
108-05-4	Vinyl acetate	12		U
75-01-4	Vinyl chloride	12		U
1330-20-7	Xylenes (total)	6.1		U
1634-04-4	Methyl tert-butyl ether	25		U
106-93-4	1,2-Dibromoethane (EDB)	6.1		U
78-93-3	2-Butanone (MEK)	25		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MH101

Date Extracted: 08/08/00

Dilution factor: 1.09

Date Analyzed: 08/08/00

Moisture %: 11

QC Batch: 0222101

Client Sample Id: MPT-55-SS-07-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MJ101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 11

QC Batch: 0222101

Client Sample Id: MPT-55-SS-08-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-64-1	Acetone	26		Q
75-05-8	Acetonitrile	130		Q
107-02-8	Acrolein	130		Q
107-13-1	Acrylonitrile	130		Q
71-43-2	Benzene	6.4		Q
75-27-4	Bromodichloromethane	6.4		Q
75-25-2	Bromoform	6.4		Q
74-83-9	Bromomethane	13		Q
75-15-0	Carbon disulfide	6.4		Q
56-23-5	Carbon tetrachloride	6.4		Q
108-90-7	Chlorobenzene	6.4		Q
126-99-8	Chloroprene	6.4		Q
124-48-1	Dibromochloromethane	6.4		Q
96-12-8	1,2-Dibromo-3-chloropropane	13		Q
75-00-3	Chloroethane	13		Q
110-75-8	2-Chloroethyl vinyl ether	64		Q
67-66-3	Chloroform	6.4		Q
74-87-3	Chloromethane	13		Q
107-05-1	Allyl chloride	13		Q
74-95-3	Dibromomethane	6.4		Q
110-57-6	trans-1,4-Dichloro-2-butene	6.4		Q
75-71-8	Dichlorodifluoromethane	13		Q
75-34-3	1,1-Dichloroethane	6.4		Q
107-06-2	1,2-Dichloroethane	6.4		Q
75-35-4	1,1-Dichloroethene	6.4		Q
156-59-2	cis-1,2-Dichloroethene	3.2		Q
156-60-5	trans-1,2-Dichloroethene	3.2		Q
540-59-0	1,2-Dichloroethene (total)	6.4		Q

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MJ101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 11

QC Batch: 0222101

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
78-87-5	1,2-Dichloropropane	6.4		U
10061-01-5	cis-1,3-Dichloropropene	6.4		U
10061-02-6	trans-1,3-Dichloropropene	6.4		U
100-41-4	Ethylbenzene	6.4		U
97-63-2	Ethyl methacrylate	6.4		U
75-69-4	Trichlorofluoromethane	13		U
591-78-6	2-Hexanone	26		U
74-88-4	Iodomethane	6.4		U
78-83-1	Isobutyl alcohol	260		U
126-98-7	Methacrylonitrile	6.4		U
75-09-2	Methylene chloride	6.4		U
80-62-6	Methyl methacrylate	6.4		U
107-12-0	Propionitrile	26		U
100-42-5	Styrene	6.4		U
630-20-6	1,1,1,2-Tetrachloroethane	6.4		U
79-34-5	1,1,2,2-Tetrachloroethane	6.4		U
127-18-4	Tetrachloroethene	6.4		U
108-88-3	Toluene	6.4		U
71-55-6	1,1,1-Trichloroethane	6.4		U
79-00-5	1,1,2-Trichloroethane	6.4		U
79-01-6	Trichloroethene	6.4		U
96-18-4	1,2,3-Trichloropropane	6.4		U
108-05-4	Vinyl acetate	13		U
75-01-4	Vinyl chloride	13		U
1330-20-7	Xylenes (total)	6.4		U
1634-04-4	Methyl tert-butyl ether	26		U
106-93-4	1,2-Dibromoethane (EDB)	6.4		U
78-93-3	2-Butanone (MEK)	26		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 004

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/02/00

Work Order: DH9MJ101

Date Extracted: 08/08/00

Dilution factor: 1.14

Date Analyzed: 08/08/00

Moisture %: 11

QC Batch: 0222101

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	26	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD49102

Date Extracted: 08/10/00

Dilution factor: 1.02

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0224103

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-64-1	Acetone	8.8	J
75-05-8	Acetonitrile	120	U
107-02-8	Acrolein	120	U
107-13-1	Acrylonitrile	120	U
71-43-2	Benzene	5.9	U
75-27-4	Bromodichloromethane	5.9	U
75-25-2	Bromoform	5.9	U
74-83-9	Bromomethane	12	U
75-15-0	Carbon disulfide	5.9	U
56-23-5	Carbon tetrachloride	5.9	U
108-90-7	Chlorobenzene	5.9	U
126-99-8	Chloroprene	5.9	U
124-48-1	Dibromochloromethane	5.9	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
75-00-3	Chloroethane	12	U
110-75-8	2-Chloroethyl vinyl ether	59	U
67-66-3	Chloroform	5.9	U
74-87-3	Chloromethane	12	U
107-05-1	Allyl chloride	12	U
74-95-3	Dibromomethane	5.9	U
110-57-6	trans-1,4-Dichloro-2-butene	5.9	U
75-71-8	Dichlorodifluoromethane	12	U
75-34-3	1,1-Dichloroethane	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U
75-35-4	1,1-Dichloroethene	5.9	U
156-59-2	cis-1,2-Dichloroethene	3.0	U
156-60-5	trans-1,2-Dichloroethene	3.0	U
540-59-0	1,2-Dichloroethene (total)	5.9	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD49102

Date Extracted: 08/10/00

Dilution factor: 1.02

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0224103

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
78-87-5	1,2-Dichloropropane	5.9	U
10061-01-5	cis-1,3-Dichloropropene	5.9	U
10061-02-6	trans-1,3-Dichloropropene	5.9	U
100-41-4	Ethylbenzene	5.9	U
97-63-2	Ethyl methacrylate	5.9	U
75-69-4	Trichlorofluoromethane	12	U
591-78-6	2-Hexanone	24	U
74-88-4	Iodomethane	5.9	U
78-83-1	Isobutyl alcohol	240	U
126-98-7	Methacrylonitrile	5.9	U
75-09-2	Methylene chloride	5.9	U
80-62-6	Methyl methacrylate	5.9	U
107-12-0	Propionitrile	24	U
100-42-5	Styrene	5.9	U
630-20-6	1,1,1,2-Tetrachloroethane	5.9	U
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
127-18-4	Tetrachloroethene	5.9	U
108-88-3	Toluene	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U
79-00-5	1,1,2-Trichloroethane	5.9	U
79-01-6	Trichloroethene	5.9	U
96-18-4	1,2,3-Trichloropropane	5.9	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Xylenes (total)	5.9	U
1634-04-4	Methyl tert-butyl ether	24	U
106-93-4	1,2-Dibromoethane (EDB)	5.9	U
78-93-3	2-Butanone (MEK)	24	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / g

Date Received: 08/04/00

Work Order: DHD49102

Date Extracted: 08/10/00

Dilution factor: 1.02

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0224103

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
108-10-1	4-Methyl-2-pentanone (MIBK)	24	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/02/00

Work Order: DH9MK10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 24

QC Batch: 0216337

Client Sample Id: MPT-55-SD-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	430		U
208-96-8	Acenaphthylene	430		U
98-86-2	Acetophenone	430		U
53-96-3	2-Acetylaminofluorene	4300		U
92-67-1	4-Aminobiphenyl	2100		U
62-53-3	Aniline	430		U
120-12-7	Anthracene	430		U
56-55-3	Benzo(a)anthracene	430		U
205-99-2	Benzo(b)fluoranthene	430		U
207-08-9	Benzo(k)fluoranthene	430		U
191-24-2	Benzo(ghi)perylene	430		U
50-32-8	Benzo(a)pyrene	430		U
100-51-6	Benzyl alcohol	430		U
111-91-1	bis(2-Chloroethoxy)methane	430		U
111-44-4	bis(2-Chloroethyl) ether	430		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	430		U
117-81-7	bis(2-Ethylhexyl) phthalate	430		U
101-55-3	4-Bromophenyl phenyl ether	430		U
85-68-7	Butyl benzyl phthalate	430		U
106-47-8	4-Chloroaniline	430		U
59-50-7	4-Chloro-3-methylphenol	430		U
91-58-7	2-Chloronaphthalene	430		U
95-57-8	2-Chlorophenol	430		U
7005-72-3	4-Chlorophenyl phenyl ether	430		U
218-01-9	Chrysene	430		U
2303-16-4	Diallate	860		U
53-70-3	Dibenz(a,h)anthracene	430		U
132-64-9	Dibenzofuran	430		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/02/00

Work Order: DH9MK10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 24

QC Batch: 0216337

Client Sample Id: MPT-55-SD-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
91-94-1	3,3'-Dichlorobenzidine	2100	U
120-83-2	2,4-Dichlorophenol	430	U
87-65-0	2,6-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U
60-11-7	p-Dimethylaminoazobenzene	860	U
57-97-6	7,12-Dimethylbenz(a)anthrace	860	U
119-93-7	3,3'-Dimethylbenzidine	2100	U
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
99-65-0	1,3-Dinitrobenzene	430	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
51-28-5	2,4-Dinitrophenol	2100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	860	U
123-91-1	1,4-Dioxane	430	U
122-39-4	Diphenylamine	430	U
62-50-0	Ethyl methanesulfonate	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	2100	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/02/00

Work Order: DH9MK10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 24

QC Batch: 0216337

Client Sample Id: MPT-55-SD-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	430		U
1888-71-7	Hexachloropropene	4300		U
193-39-5	Indeno (1,2,3-cd) pyrene	430		U
78-59-1	Isophorone	430		U
120-58-1	Isosafrole	860		U
91-80-5	Methapyrilene	2100		U
95-53-4	o-Toluidine	860		U
56-49-5	3-Methylcholanthrene	860		U
66-27-3	Methyl methanesulfonate	430		U
91-57-6	2-Methylnaphthalene	430		U
95-48-7	2-Methylphenol	430		U
108-39-4	3-Methylphenol	430		U
106-44-5	4-Methylphenol	430		U
91-20-3	Naphthalene	430		U
130-15-4	1,4-Naphthoquinone	2100		U
134-32-7	1-Naphthylamine	430		U
91-59-8	2-Naphthylamine	430		U
88-74-4	2-Nitroaniline	2100		U
99-09-2	3-Nitroaniline	2100		U
100-01-6	4-Nitroaniline	2100		U
98-95-3	Nitrobenzene	430		U
88-75-5	2-Nitrophenol	430		U
100-02-7	4-Nitrophenol	2100		U
56-57-5	4-Nitroquinoline-1-oxide	4300		U
924-16-3	N-Nitrosodi-n-butylamine	430		U
55-18-5	N-Nitrosodiethylamine	430		U
62-75-9	N-Nitrosodimethylamine	430		U
621-64-7	N-Nitrosodi-n-propylamine	430		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/02/00

Work Order: DH9MK10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 24

QC Batch: 0216337

Client Sample Id: MPT-55-SD-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	430	U
10595-95-6	N-Nitrosomethylethylamine	430	U
59-89-2	N-Nitrosomorpholine	430	U
100-75-4	N-Nitrosopiperidine	430	U
930-55-2	N-Nitrosopyrrolidine	430	U
99-55-8	5-Nitro-o-toluidine	860	U
608-93-5	Pentachlorobenzene	430	U
76-01-7	Pentachloroethane	2100	U
82-68-8	Pentachloronitrobenzene	2100	U
87-86-5	Pentachlorophenol	2100	U
62-44-2	Phenacetin	860	U
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
106-50-3	p-Phenylene diamine	4300	U
109-06-8	2-Picoline	860	U
23950-58-5	Pronamide	860	U
129-00-0	Pyrene	430	U
110-86-1	Pyridine	860	U
94-59-7	Safrole	860	U
95-94-3	1,2,4,5-Tetrachlorobenzene	430	U
58-90-2	2,3,4,6-Tetrachlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
99-35-4	1,3,5-Trinitrobenzene	2100	U
86-74-8	Carbazole	430	U
510-15-6	Chlorobenzilate	430	U
122-09-8	a,a-Dimethylphenethylamine	2100	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 005

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/02/00

Work Order: DH9MK10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 24

QC Batch: 0216337

Client Sample Id: MPT-55-SD-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	860		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 08/04/00

Work Order: DHD3R110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 45

QC Batch: 0220102

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	600	U
208-96-8	Acenaphthylene	600	U
98-86-2	Acetophenone	600	U
53-96-3	2-Acetylaminofluorene	6000	U
92-67-1	4-Aminobiphenyl	2900	U
62-53-3	Aniline	600	U
120-12-7	Anthracene	600	U
56-55-3	Benzo(a)anthracene	600	U
205-99-2	Benzo(b)fluoranthene	600	U
207-08-9	Benzo(k)fluoranthene	600	U
191-24-2	Benzo(ghi)perylene	600	U
50-32-8	Benzo(a)pyrene	600	U
100-51-6	Benzyl alcohol	600	U
111-91-1	bis(2-Chloroethoxy)methane	600	U
111-44-4	bis(2-Chloroethyl) ether	600	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	600	U
117-81-7	bis(2-Ethylhexyl) phthalate	600	U
101-55-3	4-Bromophenyl phenyl ether	600	U
85-68-7	Butyl benzyl phthalate	600	U
106-47-8	4-Chloroaniline	600	U
59-50-7	4-Chloro-3-methylphenol	600	U
91-58-7	2-Chloronaphthalene	600	U
95-57-8	2-Chlorophenol	600	U
7005-72-3	4-Chlorophenyl phenyl ether	600	U
218-01-9	Chrysene	600	U
2303-16-4	Diallate	1200	U
53-70-3	Dibenz(a,h)anthracene	600	U
132-64-9	Dibenzofuran	600	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 08/04/00

Work Order: DHD3R110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 45

QC Batch: 0220102

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	600	U
95-50-1	1,2-Dichlorobenzene	600	U
541-73-1	1,3-Dichlorobenzene	600	U
106-46-7	1,4-Dichlorobenzene	600	U
91-94-1	3,3'-Dichlorobenzidine	2900	U
120-83-2	2,4-Dichlorophenol	600	U
87-65-0	2,6-Dichlorophenol	600	U
84-66-2	Diethyl phthalate	1800	
60-11-7	p-Dimethylaminoazobenzene	1200	U
57-97-6	7,12-Dimethylbenz(a)anthracene	1200	U
119-93-7	3,3'-Dimethylbenzidine	2900	U
105-67-9	2,4-Dimethylphenol	600	U
131-11-3	Dimethyl phthalate	600	U
117-84-0	Di-n-octyl phthalate	600	U
99-65-0	1,3-Dinitrobenzene	600	U
534-52-1	4,6-Dinitro-2-methylphenol	2900	U
51-28-5	2,4-Dinitrophenol	2900	U
121-14-2	2,4-Dinitrotoluene	600	U
606-20-2	2,6-Dinitrotoluene	600	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	1200	U
123-91-1	1,4-Dioxane	600	U
122-39-4	Diphenylamine	600	U
62-50-0	Ethyl methanesulfonate	600	U
206-44-0	Fluoranthene	600	U
86-73-7	Fluorene	600	U
118-74-1	Hexachlorobenzene	600	U
87-68-3	Hexachlorobutadiene	600	U
77-47-4	Hexachlorocyclopentadiene	2900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 08/04/00

Work Order: DHD3R110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 45

QC Batch: 0220102

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	600		U
1888-71-7	Hexachloropropene	6000		U
193-39-5	Indeno(1,2,3-cd)pyrene	600		U
78-59-1	Isophorone	600		U
120-58-1	Isosafrole	1200		U
91-80-5	Methapyrilene	2900		U
95-53-4	o-Toluidine	1200		U
56-49-5	3-Methylcholanthrene	1200		U
66-27-3	Methyl methanesulfonate	600		U
91-57-6	2-Methylnaphthalene	600		U
95-48-7	2-Methylphenol	600		U
108-39-4	3-Methylphenol	600		U
106-44-5	4-Methylphenol	600		U
91-20-3	Naphthalene	600		U
130-15-4	1,4-Naphthoquinone	2900		U
134-32-7	1-Naphthylamine	600		U
91-59-8	2-Naphthylamine	600		U
88-74-4	2-Nitroaniline	2900		U
99-09-2	3-Nitroaniline	2900		U
100-01-6	4-Nitroaniline	2900		U
98-95-3	Nitrobenzene	600		U
88-75-5	2-Nitrophenol	600		U
100-02-7	4-Nitrophenol	2900		U
56-57-5	4-Nitroquinoline-1-oxide	6000		U
924-16-3	N-Nitrosodi-n-butylamine	600		U
55-18-5	N-Nitrosodiethylamine	600		U
62-75-9	N-Nitrosodimethylamine	600		U
621-64-7	N-Nitrosodi-n-propylamine	600		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 08/04/00

Work Order: DHD3R110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 45

QC Batch: 0220102

Client Sample Id: MPT-55-SD-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	600		U
10595-95-6	N-Nitrosomethylethylamine	600		U
59-89-2	N-Nitrosomorpholine	600		U
100-75-4	N-Nitrosopiperidine	600		U
930-55-2	N-Nitrosopyrrolidine	600		U
99-55-8	5-Nitro-o-toluidine	1200		U
608-93-5	Pentachlorobenzene	600		U
76-01-7	Pentachloroethane	2900		U
82-68-8	Pentachloronitrobenzene	2900		U
87-86-5	Pentachlorophenol	2900		U
62-44-2	Phenacetin	1200		U
85-01-8	Phenanthrene	600		U
108-95-2	Phenol	600		U
106-50-3	p-Phenylene diamine	6000		U
109-06-8	2-Picoline	1200		U
23950-58-5	Pronamide	1200		U
129-00-0	Pyrene	600		U
110-86-1	Pyridine	1200		U
94-59-7	Safrole	1200		U
95-94-3	1,2,4,5-Tetrachlorobenzene	600		U
58-90-2	2,3,4,6-Tetrachlorophenol	2900		U
120-82-1	1,2,4-Trichlorobenzene	600		U
95-95-4	2,4,5-Trichlorophenol	600		U
88-06-2	2,4,6-Trichlorophenol	600		U
99-35-4	1,3,5-Trinitrobenzene	2900		U
86-74-8	Carbazole	600		U
510-15-6	Chlorobenzilate	600		U
122-09-8	a,a-Dimethylphenethylamine	2900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.14 / g

Date Received: 08/04/00

Work Order: DHD3R110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 45

QC Batch: 0220102

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		1200	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/04/00

Work Order: DHD48110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 19

QC Batch: 0220102

Client Sample Id: MPT-55-SD-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	410		U
208-96-8	Acenaphthylene	410		U
98-86-2	Acetophenone	410		U
53-96-3	2-Acetylaminofluorene	4100		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	410		U
120-12-7	Anthracene	410		U
56-55-3	Benzo(a)anthracene	410		U
205-99-2	Benzo(b)fluoranthene	410		U
207-08-9	Benzo(k)fluoranthene	410		U
191-24-2	Benzo(ghi)perylene	410		U
50-32-8	Benzo(a)pyrene	410		U
100-51-6	Benzyl alcohol	410		U
111-91-1	bis(2-Chloroethoxy)methane	410		U
111-44-4	bis(2-Chloroethyl) ether	410		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410		U
117-81-7	bis(2-Ethylhexyl) phthalate	410		U
101-55-3	4-Bromophenyl phenyl ether	410		U
85-68-7	Butyl benzyl phthalate	410		U
106-47-8	4-Chloroaniline	410		U
59-50-7	4-Chloro-3-methylphenol	410		U
91-58-7	2-Chloronaphthalene	410		U
95-57-8	2-Chlorophenol	410		U
7005-72-3	4-Chlorophenyl phenyl ether	410		U
218-01-9	Chrysene	410		U
2303-16-4	Diallate	810		U
53-70-3	Dibenz(a,h)anthracene	410		U
132-64-9	Dibenzofuran	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/04/00

Work Order: DHD48110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 19

QC Batch: 0220102

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	410	U
95-50-1	1,2-Dichlorobenzene	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
120-83-2	2,4-Dichlorophenol	410	U
87-65-0	2,6-Dichlorophenol	410	U
84-66-2	Diethyl phthalate	410	U
60-11-7	p-Dimethylaminoazobenzene	810	U
57-97-6	7,12-Dimethylbenz(a)anthrace	810	U
119-93-7	3,3'-Dimethylbenzidine	2000	U
105-67-9	2,4-Dimethylphenol	410	U
131-11-3	Dimethyl phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
99-65-0	1,3-Dinitrobenzene	410	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	810	U
123-91-1	1,4-Dioxane	410	U
122-39-4	Diphenylamine	410	U
62-50-0	Ethyl methanesulfonate	410	U
206-44-0	Fluoranthene	410	U
86-73-7	Fluorene	410	U
118-74-1	Hexachlorobenzene	410	U
87-68-3	Hexachlorobutadiene	410	U
77-47-4	Hexachlorocyclopentadiene	2000	U

FORM I

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/04/00

Work Order: DHD48110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 19

QC Batch: 0220102

Client Sample Id: MPT-55-SD-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	410		U
1888-71-7	Hexachloropropene	4100		U
193-39-5	Indeno(1,2,3-cd)pyrene	410		U
78-59-1	Isophorone	410		U
120-58-1	Isosafrole	810		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	810		U
56-49-5	3-Methylcholanthrene	810		U
66-27-3	Methyl methanesulfonate	410		U
91-57-6	2-Methylnaphthalene	410		U
95-48-7	2-Methylphenol	410		U
108-39-4	3-Methylphenol	410		U
106-44-5	4-Methylphenol	410		U
91-20-3	Naphthalene	410		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	410		U
91-59-8	2-Naphthylamine	410		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	410		U
88-75-5	2-Nitrophenol	410		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4100		U
924-16-3	N-Nitrosodi-n-butylamine	410		U
55-18-5	N-Nitrosodiethylamine	410		U
62-75-9	N-Nitrosodimethylamine	410		U
621-64-7	N-Nitrosodi-n-propylamine	410		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/04/00

Work Order: DHD48110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 19

QC Batch: 0220102

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	410	U
10595-95-6	N-Nitrosomethylethylamine	410	U
59-89-2	N-Nitrosomorpholine	410	U
100-75-4	N-Nitrosopiperidine	410	U
930-55-2	N-Nitrosopyrrolidine	410	U
99-55-8	5-Nitro-o-toluidine	810	U
608-93-5	Pentachlorobenzene	410	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	810	U
85-01-8	Phenanthrene	410	U
108-95-2	Phenol	410	U
106-50-3	p-Phenylene diamine	4100	U
109-06-8	2-Picoline	810	U
23950-58-5	Pronamide	810	U
129-00-0	Pyrene	410	U
110-86-1	Pyridine	810	U
94-59-7	Safrole	810	U
95-94-3	1,2,4,5-Tetrachlorobenzene	410	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	410	U
510-15-6	Chlorobenzilate	410	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.06 / g

Date Received: 08/04/00

Work Order: DHD48110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 19

QC Batch: 0220102

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	810		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 08/01/00

Work Order: DH9GA10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.0

QC Batch: 0216337

Client Sample Id: MPT-55-SS-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	340		U
208-96-8	Acenaphthylene	340		U
98-86-2	Acetophenone	340		U
53-96-3	2-Acetylaminofluorene	3400		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	340		U
120-12-7	Anthracene	340		U
56-55-3	Benzo(a)anthracene	340		U
205-99-2	Benzo(b)fluoranthene	340		U
207-08-9	Benzo(k)fluoranthene	340		U
191-24-2	Benzo(ghi)perylene	340		U
50-32-8	Benzo(a)pyrene	340		U
100-51-6	Benzyl alcohol	340		U
111-91-1	bis(2-Chloroethoxy)methane	340		U
111-44-4	bis(2-Chloroethyl) ether	340		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340		U
117-81-7	bis(2-Ethylhexyl) phthalate	340		U
101-55-3	4-Bromophenyl phenyl ether	340		U
85-68-7	Butyl benzyl phthalate	340		U
106-47-8	4-Chloroaniline	340		U
59-50-7	4-Chloro-3-methylphenol	340		U
91-58-7	2-Chloronaphthalene	340		U
95-57-8	2-Chlorophenol	340		U
7005-72-3	4-Chlorophenyl phenyl ether	340		U
218-01-9	Chrysene	340		U
2303-16-4	Diallate	690		U
53-70-3	Dibenz(a,h)anthracene	340		U
132-64-9	Dibenzofuran	340		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 08/01/00

Work Order: DH9GA10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.0

QC Batch: 0216337

Client Sample Id: MPT-55-SS-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
120-83-2	2,4-Dichlorophenol	340	U
87-65-0	2,6-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U
60-11-7	p-Dimethylaminocazobenzene	690	U
57-97-6	7,12-Dimethylbenz(a)anthrace	690	U
119-93-7	3,3'-Dimethylbenzidine	1700	U
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
99-65-0	1,3-Dinitrobenzene	340	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	690	U
123-91-1	1,4-Dioxane	340	U
122-39-4	Diphenylamine	340	U
62-50-0	Ethyl methanesulfonate	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	1700	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030175 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 08/01/00

Work Order: DH9GA10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.0

QC Batch: 0216337

Client Sample Id: MPT-55-SS-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	340		U
1888-71-7	Hexachloropropene	3400		U
193-39-5	Indeno(1,2,3-cd)pyrene	340		U
78-59-1	Isophorone	340		U
120-58-1	Isosafrole	690		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	690		U
56-49-5	3-Methylcholanthrene.	690		U
66-27-3	Methyl methanesulfonate	340		U
91-57-6	2-Methylnaphthalene	340		U
95-48-7	2-Methylphenol	340		U
108-39-4	3-Methylphenol	340		U
106-44-5	4-Methylphenol	340		U
91-20-3	Naphthalene	340		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	340		U
91-59-8	2-Naphthylamine	340		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	340		U
88-75-5	2-Nitrophenol	340		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3400		U
924-16-3	N-Nitrosodi-n-butylamine	340		U
55-18-5	N-Nitrosodiethylamine	340		U
62-75-9	N-Nitrosodimethylamine	340		U
621-64-7	N-Nitrosodi-n-propylamine	340		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 08/01/00

Work Order: DH9GA10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.0

QC Batch: 0216337

Client Sample Id: MPT-55-SS-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	340		U
10595-95-6	N-Nitrosomethylethylamine	340		U
59-89-2	N-Nitrosomorpholine	340		U
100-75-4	N-Nitrosopiperidine	340		U
930-55-2	N-Nitrosopyrrolidine	340		U
99-55-8	5-Nitro-o-toluidine	690		U
608-93-5	Pentachlorobenzene	340		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	690		U
85-01-8	Phenanthrene	340		U
108-95-2	Phenol	340		U
106-50-3	p-Phenylene diamine	3400		U
109-06-8	2-Picoline	690		U
23950-58-5	Pronamide	690		U
129-00-0	Pyrene	340		U
110-86-1	Pyridine	690		U
94-59-7	Safrole	690		U
95-94-3	1,2,4,5-Tetrachlorobenzene	340		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	340		U
95-95-4	2,4,5-Trichlorophenol	340		U
88-06-2	2,4,6-Trichlorophenol	340		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	340		U
510-15-6	Chlorobenzilate	340		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.09 / g

Date Received: 08/01/00

Work Order: DH9GA10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.0

QC Batch: 0216337

Client Sample Id: MPT-55-SS-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	690		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HM10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 7.6

QC Batch: 0216337

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	360		U
208-96-8	Acenaphthylene	360		U
98-86-2	Acetophenone	360		U
53-96-3	2-Acetylaminofluorene	3600		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	360		U
120-12-7	Anthracene	360		U
56-55-3	Benzo (a) anthracene	360		U
205-99-2	Benzo (b) fluoranthene	84		J
207-08-9	Benzo (k) fluoranthene	360		U
191-24-2	Benzo (ghi) perylene	360		U
50-32-8	Benzo (a) pyrene	45		J
100-51-6	Benzyl alcohol	360		U
111-91-1	bis (2-Chloroethoxy) methane	360		U
111-44-4	bis (2-Chloroethyl) ether	360		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	360		U
117-81-7	bis (2-Ethylhexyl) phthalate	360		U
101-55-3	4-Bromophenyl phenyl ether	360		U
85-68-7	Butyl benzyl phthalate	360		U
106-47-8	4-Chloroaniline	360		U
59-50-7	4-Chloro-3-methylphenol	360		U
91-58-7	2-Chloronaphthalene	360		U
95-57-8	2-Chlorophenol	360		U
7005-72-3	4-Chlorophenyl phenyl ether	360		U
218-01-9	Chrysene	360		U
2303-16-4	Diallate	710		U
53-70-3	Dibenz (a,h) anthracene	360		U
132-64-9	Dibenzofuran	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HM10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 7.6

QC Batch: 0216337

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	360		U
95-50-1	1,2-Dichlorobenzene	360		U
541-73-1	1,3-Dichlorobenzene	360		U
106-46-7	1,4-Dichlorobenzene	360		U
91-94-1	3,3'-Dichlorobenzidine	1700		U
120-83-2	2,4-Dichlorophenol	360		U
87-65-0	2,6-Dichlorophenol	360		U
84-66-2	Diethyl phthalate	360		U
60-11-7	p-Dimethylaminoazobenzene	710		U
57-97-6	7,12-Dimethylbenz(a)anthracene	710		U
119-93-7	3,3'-Dimethylbenzidine	1700		U
105-67-9	2,4-Dimethylphenol	360		U
131-11-3	Dimethyl phthalate	360		U
117-84-0	Di-n-octyl phthalate	360		U
99-65-0	1,3-Dinitrobenzene	360		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
51-28-5	2,4-Dinitrophenol	1700		U
121-14-2	2,4-Dinitrotoluene	360		U
606-20-2	2,6-Dinitrotoluene	360		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	710		U
123-91-1	1,4-Dioxane	360		U
122-39-4	Diphenylamine	360		U
62-50-0	Ethyl methanesulfonate	360		U
206-44-0	Fluoranthene	70		J
86-73-7	Fluorene	360		U
118-74-1	Hexachlorobenzene	360		U
87-68-3	Hexachlorobutadiene	360		U
77-47-4	Hexachlorocyclopentadiene	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HM10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 7.6

QC Batch: 0216337

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	360		U
1888-71-7	Hexachloropropene	3600		U
193-39-5	Indeno (1,2,3-cd) pyrene	360		U
78-59-1	Isophorone	360		U
120-58-1	Isosafrole	710		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	710		U
56-49-5	3-Methylcholanthrene	710		U
66-27-3	Methyl methanesulfonate	360		U
91-57-6	2-Methylnaphthalene	360		U
95-48-7	2-Methylphenol	360		U
108-39-4	3-Methylphenol	360		U
106-44-5	4-Methylphenol	360		U
91-20-3	Naphthalene	360		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	360		U
91-59-8	2-Naphthylamine	360		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	360		U
88-75-5	2-Nitrophenol	360		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3600		U
924-16-3	N-Nitrosodi-n-butylamine	360		U
55-18-5	N-Nitrosodiethylamine	360		U
62-75-9	N-Nitrosodimethylamine	360		U
621-64-7	N-Nitrosodi-n-propylamine	360		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HM10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 7.6

QC Batch: 0216337

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	360		U
10595-95-6	N-Nitrosomethylethylamine	360		U
59-89-2	N-Nitrosomorpholine	360		U
100-75-4	N-Nitrosopiperidine	360		U
930-55-2	N-Nitrosopyrrolidine	360		U
99-55-8	5-Nitro-o-toluidine	710		U
608-93-5	Pentachlorobenzene	360		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	710		U
85-01-8	Phenanthrene	360		U
108-95-2	Phenol	360		U
106-50-3	p-Phenylene diamine	3600		U
109-06-8	2-Picoline	710		U
23950-58-5	Pronamide	710		U
129-00-0	Pyrene	360		U
110-86-1	Pyridine	710		U
94-59-7	Safrole	710		U
95-94-3	1,2,4,5-Tetrachlorobenzene	360		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	360		U
95-95-4	2,4,5-Trichlorophenol	360		U
88-06-2	2,4,6-Trichlorophenol	360		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	360		U
510-15-6	Chlorobenzilate	360		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HM10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 7.6

QC Batch: 0216337

Client Sample Id: MPT-55-SS-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	710		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 08/01/00

Work Order: DH9HV10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.7

QC Batch: 0216337

Client Sample Id: MPT-55-SS-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	350		U
208-96-8	Acenaphthylene	350		U
98-86-2	Acetophenone	350		U
53-96-3	2-Acetylaminofluorene	3500		U
92-67-1	4-Aminobiphenyl	1700		U
62-53-3	Aniline	350		U
120-12-7	Anthracene	350		U
56-55-3	Benzo(a)anthracene	350		U
205-99-2	Benzo(b)fluoranthene	350		U
207-08-9	Benzo(k)fluoranthene	350		U
191-24-2	Benzo(ghi)perylene	350		U
50-32-8	Benzo(a)pyrene	350		U
100-51-6	Benzyl alcohol	350		U
111-91-1	bis(2-Chloroethoxy)methane	350		U
111-44-4	bis(2-Chloroethyl) ether	350		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350		U
117-81-7	bis(2-Ethylhexyl) phthalate	350		U
101-55-3	4-Bromophenyl phenyl ether	350		U
85-68-7	Butyl benzyl phthalate	350		U
106-47-8	4-Chloroaniline	350		U
59-50-7	4-Chloro-3-methylphenol	350		U
91-58-7	2-Chloronaphthalene	350		U
95-57-8	2-Chlorophenol	350		U
7005-72-3	4-Chlorophenyl phenyl ether	350		U
218-01-9	Chrysene	350		U
2303-16-4	Diallate	690		U
53-70-3	Dibenz(a,h)anthracene	350		U
132-64-9	Dibenzofuran	350		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 08/01/00

Work Order: DH9HV10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.7

QC Batch: 0216337

Client Sample Id: MPT-55-SS-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	350		U
95-50-1	1,2-Dichlorobenzene	350		U
541-73-1	1,3-Dichlorobenzene	350		U
106-46-7	1,4-Dichlorobenzene	350		U
91-94-1	3,3'-Dichlorobenzidine	1700		U
120-83-2	2,4-Dichlorophenol	350		U
87-65-0	2,6-Dichlorophenol	350		U
84-66-2	Diethyl phthalate	350		U
60-11-7	p-Dimethylaminoazobenzene	690		U
57-97-6	7,12-Dimethylbenz(a)anthracene	690		U
119-93-7	3,3'-Dimethylbenzidine	1700		U
105-67-9	2,4-Dimethylphenol	350		U
131-11-3	Dimethyl phthalate	350		U
117-84-0	Di-n-octyl phthalate	350		U
99-65-0	1,3-Dinitrobenzene	350		U
534-52-1	4,6-Dinitro-2-methylphenol	1700		U
51-28-5	2,4-Dinitrophenol	1700		U
121-14-2	2,4-Dinitrotoluene	350		U
606-20-2	2,6-Dinitrotoluene	350		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	690		U
123-91-1	1,4-Dioxane	350		U
122-39-4	Diphenylamine	350		U
62-50-0	Ethyl methanesulfonate	350		U
206-44-0	Fluoranthene	350		U
86-73-7	Fluorene	350		U
118-74-1	Hexachlorobenzene	350		U
87-68-3	Hexachlorobutadiene	350		U
77-47-4	Hexachlorocyclopentadiene	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 08/01/00

Work Order: DH9HV10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.7

QC Batch: 0216337

Client Sample Id: MPT-55-SS-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	350		U
1888-71-7	Hexachloropropene	3500		U
193-39-5	Indeno(1,2,3-cd)pyrene	350		U
78-59-1	Isophorone	350		U
120-58-1	Isosafrole	690		U
91-80-5	Methapyrilene	1700		U
95-53-4	o-Toluidine	690		U
56-49-5	3-Methylcholanthrene	690		U
66-27-3	Methyl methanesulfonate	350		U
91-57-6	2-Methylnaphthalene	350		U
95-48-7	2-Methylphenol	350		U
108-39-4	3-Methylphenol	350		U
106-44-5	4-Methylphenol	350		U
91-20-3	Naphthalene	350		U
130-15-4	1,4-Naphthoquinone	1700		U
134-32-7	1-Naphthylamine	350		U
91-59-8	2-Naphthylamine	350		U
88-74-4	2-Nitroaniline	1700		U
99-09-2	3-Nitroaniline	1700		U
100-01-6	4-Nitroaniline	1700		U
98-95-3	Nitrobenzene	350		U
88-75-5	2-Nitrophenol	350		U
100-02-7	4-Nitrophenol	1700		U
56-57-5	4-Nitroquinoline-1-oxide	3500		U
924-16-3	N-Nitrosodi-n-butylamine	350		U
55-18-5	N-Nitrosodiethylamine	350		U
62-75-9	N-Nitrosodimethylamine	350		U
621-64-7	N-Nitrosodi-n-propylamine	350		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 08/01/00

Work Order: DH9HV10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.7

QC Batch: 0216337

Client Sample Id: MPT-55-SS-03-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
86-30-6	N-Nitrosodiphenylamine	350		U
10595-95-6	N-Nitrosomethylethylamine	350		U
59-89-2	N-Nitrosomorpholine	350		U
100-75-4	N-Nitrosopiperidine	350		U
930-55-2	N-Nitrosopyrrolidine	350		U
99-55-8	5-Nitro-o-toluidine	690		U
608-93-5	Pentachlorobenzene	350		U
76-01-7	Pentachloroethane	1700		U
82-68-8	Pentachloronitrobenzene	1700		U
87-86-5	Pentachlorophenol	1700		U
62-44-2	Phenacetin	690		U
85-01-8	Phenanthrene	350		U
108-95-2	Phenol	350		U
106-50-3	p-Phenylene diamine	3500		U
109-06-8	2-Picoline	690		U
23950-58-5	Pronamide	690		U
129-00-0	Pyrene	350		U
110-86-1	Pyridine	690		U
94-59-7	Safrole	690		U
95-94-3	1,2,4,5-Tetrachlorobenzene	350		U
58-90-2	2,3,4,6-Tetrachlorophenol	1700		U
120-82-1	1,2,4-Trichlorobenzene	350		U
95-95-4	2,4,5-Trichlorophenol	350		U
88-06-2	2,4,6-Trichlorophenol	350		U
99-35-4	1,3,5-Trinitrobenzene	1700		U
86-74-8	Carbazole	350		U
510-15-6	Chlorobenzilate	350		U
122-09-8	a,a-Dimethylphenethylamine	1700		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.02 / g

Date Received: 08/01/00

Work Order: DH9HV10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 4.7

QC Batch: 0216337

Client Sample Id: MPT-55-SS-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	690		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 08/01/00

Work Order: DH9J210X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 14

QC Batch: 0216337

Client Sample Id: MPT-55-SS-04-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	55		J
205-99-2	Benzo(b)fluoranthene	180		J
207-08-9	Benzo(k)fluoranthene	84		J
191-24-2	Benzo(ghi)perylene	120		J
50-32-8	Benzo(a)pyrene	89		J
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	140		J
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	100		J
2303-16-4	Diallate	770		U
53-70-3	Dibenz(a,h)anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 08/01/00

Work Order: DH9J210X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 14

QC Batch: 0216337

Client Sample Id: MPT-55-SS-04-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	380	U
87-65-0	2,6-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U
60-11-7	p-Dimethylaminoazobenzene	770	U
57-97-6	7,12-Dimethylbenz(a)anthrace	770	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
99-65-0	1,3-Dinitrobenzene	380	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770	U
123-91-1	1,4-Dioxane	380	U
122-39-4	Diphenylamine	380	U
62-50-0	Ethyl methanesulfonate	380	U
206-44-0	Fluoranthene	150	J
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 08/01/00

Work Order: DH9J210X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 14

QC Batch: 0216337

Client Sample Id: MPT-55-SS-04-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	380		U
1888-71-7	Hexachloropropene	3800		U
193-39-5	Indeno(1,2,3-cd)pyrene	95		J
78-59-1	Isophorone	380		U
120-58-1	Isosafrole	770		U
91-80-5	Methapyrilene	1900		U
95-53-4	o-Toluidine	770		U
56-49-5	3-Methylcholanthrene	770		U
66-27-3	Methyl methanesulfonate	380		U
91-57-6	2-Methylnaphthalene	380		U
95-48-7	2-Methylphenol	380		U
108-39-4	3-Methylphenol	380		U
106-44-5	4-Methylphenol	380		U
91-20-3	Naphthalene	380		U
130-15-4	1,4-Naphthoquinone	1900		U
134-32-7	1-Naphthylamine	380		U
91-59-8	2-Naphthylamine	380		U
88-74-4	2-Nitroaniline	1900		U
99-09-2	3-Nitroaniline	1900		U
100-01-6	4-Nitroaniline	1900		U
98-95-3	Nitrobenzene	380		U
88-75-5	2-Nitrophenol	380		U
100-02-7	4-Nitrophenol	1900		U
56-57-5	4-Nitroquinoline-1-oxide	3800		U
924-16-3	N-Nitrosodi-n-butylamine	380		U
55-18-5	N-Nitrosodiethylamine	380		U
62-75-9	N-Nitrosodimethylamine	380		U
621-64-7	N-Nitrosodi-n-propylamine	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 08/01/00

Work Order: DH9J210X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 14

QC Batch: 0216337

Client Sample Id: MPT-55-SS-04-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	380		U
10595-95-6	N-Nitrosomethylethylamine	380		U
59-89-2	N-Nitrosomorpholine	380		U
100-75-4	N-Nitrosopiperidine	380		U
930-55-2	N-Nitrosopyrrolidine	380		U
99-55-8	5-Nitro-o-toluidine	770		U
608-93-5	Pentachlorobenzene	380		U
76-01-7	Pentachloroethane	1900		U
82-68-8	Pentachloronitrobenzene	1900		U
87-86-5	Pentachlorophenol	1900		U
62-44-2	Phenacetin	770		U
85-01-8	Phenanthrene	380		U
108-95-2	Phenol	380		U
106-50-3	p-Phenylene diamine	3800		U
109-06-8	2-Picoline	770		U
23950-58-5	Pronamide	770		U
129-00-0	Pyrene	120		J
110-86-1	Pyridine	770		U
94-59-7	Safrole	770		U
95-94-3	1,2,4,5-Tetrachlorobenzene	380		U
58-90-2	2,3,4,6-Tetrachlorophenol	1900		U
120-82-1	1,2,4-Trichlorobenzene	380		U
95-95-4	2,4,5-Trichlorophenol	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
99-35-4	1,3,5-Trinitrobenzene	1900		U
86-74-8	Carbazole	380		U
510-15-6	Chlorobenzilate	380		U
122-09-8	a,a-Dimethylphenethylamine	1900		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.16 / g

Date Received: 08/01/00

Work Order: DH9J210X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 14

QC Batch: 0216337

Client Sample Id: MPT-55-SS-04-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	770	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/02/00

Work Order: DH9LH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 22

QC Batch: 0216337

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
83-32-9	Acenaphthene	420		U
208-96-8	Acenaphthylene	420		U
98-86-2	Acetophenone	420		U
53-96-3	2-Acetylaminofluorene	4200		U
92-67-1	4-Aminobiphenyl	2000		U
62-53-3	Aniline	420		U
120-12-7	Anthracene	420		U
56-55-3	Benzo(a)anthracene	420		U
205-99-2	Benzo(b)fluoranthene	420		U
207-08-9	Benzo(k)fluoranthene	420		U
191-24-2	Benzo(ghi)perylene	420		U
50-32-8	Benzo(a)pyrene	420		U
100-51-6	Benzyl alcohol	420		U
111-91-1	bis(2-Chloroethoxy)methane	420		U
111-44-4	bis(2-Chloroethyl) ether	420		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	420		U
117-81-7	bis(2-Ethylhexyl) phthalate	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
85-68-7	Butyl benzyl phthalate	420		U
106-47-8	4-Chloroaniline	420		U
59-50-7	4-Chloro-3-methylphenol	420		U
91-58-7	2-Chloronaphthalene	420		U
95-57-8	2-Chlorophenol	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
218-01-9	Chrysene	420		U
2303-16-4	Diallate	840		U
53-70-3	Dibenz(a,h)anthracene	420		U
132-64-9	Dibenzofuran	420		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/02/00

Work Order: DH9LH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 22

QC Batch: 0216337

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
84-74-2	Di-n-butyl phthalate	420		U
95-50-1	1,2-Dichlorobenzene	420		U
541-73-1	1,3-Dichlorobenzene	420		U
106-46-7	1,4-Dichlorobenzene	420		U
91-94-1	3,3'-Dichlorobenzidine	2000		U
120-83-2	2,4-Dichlorophenol	420		U
87-65-0	2,6-Dichlorophenol	420		U
84-66-2	Diethyl phthalate	420		U
60-11-7	p-Dimethylaminoazobenzene	840		U
57-97-6	7,12-Dimethylbenz(a)anthracene	840		U
119-93-7	3,3'-Dimethylbenzidine	2000		U
105-67-9	2,4-Dimethylphenol	420		U
131-11-3	Dimethyl phthalate	420		U
117-84-0	Di-n-octyl phthalate	420		U
99-65-0	1,3-Dinitrobenzene	420		U
534-52-1	4,6-Dinitro-2-methylphenol	2000		U
51-28-5	2,4-Dinitrophenol	2000		U
121-14-2	2,4-Dinitrotoluene	420		U
606-20-2	2,6-Dinitrotoluene	420		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	840		U
123-91-1	1,4-Dioxane	420		U
122-39-4	Diphenylamine	420		U
62-50-0	Ethyl methanesulfonate	420		U
206-44-0	Fluoranthene	420		U
86-73-7	Fluorene	420		U
118-74-1	Hexachlorobenzene	420		U
87-68-3	Hexachlorobutadiene	420		U
77-47-4	Hexachlorocyclopentadiene	2000		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/02/00

Work Order: DH9LH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 22

QC Batch: 0216337

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
67-72-1	Hexachloroethane	420		U
1888-71-7	Hexachloropropene	4200		U
193-39-5	Indeno(1,2,3-cd)pyrene	420		U
78-59-1	Isophorone	420		U
120-58-1	Isosafrole	840		U
91-80-5	Methapyrilene	2000		U
95-53-4	o-Toluidine	840		U
56-49-5	3-Methylcholanthrene	840		U
66-27-3	Methyl methanesulfonate	420		U
91-57-6	2-Methylnaphthalene	420		U
95-48-7	2-Methylphenol	420		U
108-39-4	3-Methylphenol	420		U
106-44-5	4-Methylphenol	420		U
91-20-3	Naphthalene	420		U
130-15-4	1,4-Naphthoquinone	2000		U
134-32-7	1-Naphthylamine	420		U
91-59-8	2-Naphthylamine	420		U
88-74-4	2-Nitroaniline	2000		U
99-09-2	3-Nitroaniline	2000		U
100-01-6	4-Nitroaniline	2000		U
98-95-3	Nitrobenzene	420		U
88-75-5	2-Nitrophenol	420		U
100-02-7	4-Nitrophenol	2000		U
56-57-5	4-Nitroquinoline-1-oxide	4200		U
924-16-3	N-Nitrosodi-n-butylamine	420		U
55-18-5	N-Nitrosodiethylamine	420		U
62-75-9	N-Nitrosodimethylamine	420		U
621-64-7	N-Nitrosodi-n-propylamine	420		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/02/00

Work Order: DH9LH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 22

QC Batch: 0216337

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	420	U
10595-95-6	N-Nitrosomethylethylamine	420	U
59-89-2	N-Nitrosomorpholine	420	U
100-75-4	N-Nitrosopiperidine	420	U
930-55-2	N-Nitrosopyrrolidine	420	U
99-55-8	5-Nitro-o-toluidine	840	U
608-93-5	Pentachlorobenzene	420	U
76-01-7	Pentachloroethane	2000	U
82-68-8	Pentachloronitrobenzene	2000	U
87-86-5	Pentachlorophenol	2000	U
62-44-2	Phenacetin	840	U
85-01-8	Phenanthrene	420	U
108-95-2	Phenol	420	U
106-50-3	p-Phenylene diamine	4200	U
109-06-8	2-Picoline	840	U
23950-58-5	Pronamide	840	U
129-00-0	Pyrene	420	U
110-86-1	Pyridine	840	U
94-59-7	Safrole	840	U
95-94-3	1,2,4,5-Tetrachlorobenzene	420	U
58-90-2	2,3,4,6-Tetrachlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
99-35-4	1,3,5-Trinitrobenzene	2000	U
86-74-8	Carbazole	420	U
510-15-6	Chlorobenzilate	420	U
122-09-8	a,a-Dimethylphenethylamine	2000	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.05 / g

Date Received: 08/02/00

Work Order: DH9LH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 22

QC Batch: 0216337

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
140-57-8	Aramite	840	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 08/02/00

Work Order: DH9M910X

Date Extracted: 08/04/00

Dilution factor: 2

Date Analyzed: 08/09/00

Moisture %: 7.9

QC Batch: 0216337

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	720	U
208-96-8	Acenaphthylene	720	U
98-86-2	Acetophenone	720	U
53-96-3	2-Acetylaminofluorene	7200	U
92-67-1	4-Aminobiphenyl	3500	U
62-53-3	Aniline	720	U
120-12-7	Anthracene	160	J
56-55-3	Benzo (a) anthracene	2600	
205-99-2	Benzo (b) fluoranthene	5700	
207-08-9	Benzo (k) fluoranthene	2200	
191-24-2	Benzo (ghi) perylene	2700	
50-32-8	Benzo (a) pyrene	3500	
100-51-6	Benzyl alcohol	720	U
111-91-1	bis (2-Chloroethoxy) methane	720	U
111-44-4	bis (2-Chloroethyl) ether	720	U
108-60-1	2,2'-Oxybis (1-Chloropropane)	720	U
117-81-7	bis (2-Ethylhexyl) phthalate	720	U
101-55-3	4-Bromophenyl phenyl ether	720	U
85-68-7	Butyl benzyl phthalate	720	U
106-47-8	4-Chloroaniline	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-58-7	2-Chloronaphthalene	720	U
95-57-8	2-Chlorophenol	720	U
7005-72-3	4-Chlorophenyl phenyl ether	720	U
218-01-9	Chrysene	3900	
2303-16-4	Diallate	1400	U
53-70-3	Dibenz (a, h) anthracene	730	
132-64-9	Dibenzofuran	720	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 08/02/00

Work Order: DH9M910X

Date Extracted: 08/04/00

Dilution factor: 2

Date Analyzed: 08/09/00

Moisture %: 7.9

QC Batch: 0216337

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
84-74-2	Di-n-butyl phthalate	720	U
95-50-1	1,2-Dichlorobenzene	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
120-83-2	2,4-Dichlorophenol	720	U
87-65-0	2,6-Dichlorophenol	720	U
84-66-2	Diethyl phthalate	720	U
60-11-7	p-Dimethylaminoazobenzene	1400	U
57-97-6	7,12-Dimethylbenz(a)anthrace	1400	U
119-93-7	3,3'-Dimethylbenzidine	3500	U
105-67-9	2,4-Dimethylphenol	720	U
131-11-3	Dimethyl phthalate	720	U
117-84-0	Di-n-octyl phthalate	720	U
99-65-0	1,3-Dinitrobenzene	720	U
534-52-1	4,6-Dinitro-2-methylphenol	3500	U
51-28-5	2,4-Dinitrophenol	3500	U
121-14-2	2,4-Dinitrotoluene	720	U
606-20-2	2,6-Dinitrotoluene	720	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	1400	U
123-91-1	1,4-Dioxane	720	U
122-39-4	Diphenylamine	720	U
62-50-0	Ethyl methanesulfonate	720	U
206-44-0	Fluoranthene	5600	
86-73-7	Fluorene	720	U
118-74-1	Hexachlorobenzene	720	U
87-68-3	Hexachlorobutadiene	720	U
77-47-4	Hexachlorocyclopentadiene	3500	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 08/02/00

Work Order: DH9M910X

Date Extracted: 08/04/00

Dilution factor: 2

Date Analyzed: 08/09/00

Moisture %: 7.9

QC Batch: 0216337

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
67-72-1	Hexachloroethane	720	U
1888-71-7	Hexachloropropene	7200	U
193-39-5	Indeno(1,2,3-cd)pyrene	2600	
78-59-1	Isophorone	720	U
120-58-1	Isosafrole	1400	U
91-80-5	Methapyrilene	3500	U
95-53-4	o-Toluidine	1400	U
56-49-5	3-Methylcholanthrene	1400	U
66-27-3	Methyl methanesulfonate	720	U
91-57-6	2-Methylnaphthalene	720	U
95-48-7	2-Methylphenol	720	U
108-39-4	3-Methylphenol	720	U
106-44-5	4-Methylphenol	720	U
91-20-3	Naphthalene	720	U
130-15-4	1,4-Naphthoquinone	3500	U
134-32-7	1-Naphthylamine	720	U
91-59-8	2-Naphthylamine	720	U
88-74-4	2-Nitroaniline	3500	U
99-09-2	3-Nitroaniline	3500	U
100-01-6	4-Nitroaniline	3500	U
98-95-3	Nitrobenzene	720	U
88-75-5	2-Nitrophenol	720	U
100-02-7	4-Nitrophenol	3500	U
56-57-5	4-Nitroquinoline-1-oxide	7200	U
924-16-3	N-Nitrosodi-n-butylamine	720	U
55-18-5	N-Nitrosodiethylamine	720	U
62-75-9	N-Nitrosodimethylamine	720	U
621-64-7	N-Nitrosodi-n-propylamine	720	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 08/02/00

Work Order: DH9M910X

Date Extracted: 08/04/00

Dilution factor: 2

Date Analyzed: 08/09/00

Moisture %: 7.9

QC Batch: 0216337

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	720	U
10595-95-6	N-Nitrosomethylethylamine	720	U
59-89-2	N-Nitrosomorpholine	720	U
100-75-4	N-Nitrosopiperidine	720	U
930-55-2	N-Nitrosopyrrolidine	720	U
99-55-8	5-Nitro-o-toluidine	1400	U
608-93-5	Pentachlorobenzene	720	U
76-01-7	Pentachloroethane	3500	U
82-68-8	Pentachloronitrobenzene	3500	U
87-86-5	Pentachlorophenol	3500	U
62-44-2	Phenacetin	1400	U
85-01-8	Phenanthrene	1400	
108-95-2	Phenol	720	U
106-50-3	p-Phenylene diamine	7200	U
109-06-8	2-Picoline	1400	U
23950-58-5	Pronamide	1400	U
129-00-0	Pyrene	4000	
110-86-1	Pyridine	1400	U
94-59-7	Safrole	1400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	720	U
58-90-2	2,3,4,6-Tetrachlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	720	U
95-95-4	2,4,5-Trichlorophenol	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
99-35-4	1,3,5-Trinitrobenzene	3500	U
86-74-8	Carbazole	290	J
510-15-6	Chlorobenzilate	720	U
122-09-8	a,a-Dimethylphenethylamine	3500	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.08 / g

Date Received: 08/02/00

Work Order: DH9M910X

Date Extracted: 08/04/00

Dilution factor: 2

Date Analyzed: 08/09/00

Moisture %: 7.9

QC Batch: 0216337

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	1400		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 08/02/00

Work Order: DH9MH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-07-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
83-32-9	Acenaphthene	370	U
208-96-8	Acenaphthylene	370	U
98-86-2	Acetophenone	370	U
53-96-3	2-Acetylaminofluorene	3700	U
92-67-1	4-Aminobiphenyl	1800	U
62-53-3	Aniline	370	U
120-12-7	Anthracene	370	U
56-55-3	Benzo(a)anthracene	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
191-24-2	Benzo(ghi)perylene	370	U
50-32-8	Benzo(a)pyrene	370	U
100-51-6	Benzyl alcohol	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
111-44-4	bis(2-Chloroethyl) ether	370	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370	U
117-81-7	bis(2-Ethylhexyl) phthalate	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
85-68-7	Butyl benzyl phthalate	370	U
106-47-8	4-Chloroaniline	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-58-7	2-Chloronaphthalene	370	U
95-57-8	2-Chlorophenol	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
218-01-9	Chrysene	370	U
2303-16-4	Diallate	740	U
53-70-3	Dibenz(a,h)anthracene	370	U
132-64-9	Dibenzofuran	370	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 08/02/00

Work Order: DH9MH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-07-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
84-74-2	Di-n-butyl phthalate	370		U
95-50-1	1,2-Dichlorobenzene	370		U
541-73-1	1,3-Dichlorobenzene	370		U
106-46-7	1,4-Dichlorobenzene	370		U
91-94-1	3,3'-Dichlorobenzidine	1800		U
120-83-2	2,4-Dichlorophenol	370		U
87-65-0	2,6-Dichlorophenol	370		U
84-66-2	Diethyl phthalate	370		U
60-11-7	p-Dimethylaminoazobenzene	740		U
57-97-6	7,12-Dimethylbenz(a)anthracene	740		U
119-93-7	3,3'-Dimethylbenzidine	1800		U
105-67-9	2,4-Dimethylphenol	370		U
131-11-3	Dimethyl phthalate	370		U
117-84-0	Di-n-octyl phthalate	370		U
99-65-0	1,3-Dinitrobenzene	370		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
51-28-5	2,4-Dinitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	370		U
606-20-2	2,6-Dinitrotoluene	370		U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	740		U
123-91-1	1,4-Dioxane	370		U
122-39-4	Diphenylamine	370		U
62-50-0	Ethyl methanesulfonate	370		U
206-44-0	Fluoranthene	370		U
86-73-7	Fluorene	370		U
118-74-1	Hexachlorobenzene	370		U
87-68-3	Hexachlorobutadiene	370		U
77-47-4	Hexachlorocyclopentadiene	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 08/02/00

Work Order: DH9MH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-07-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	370		U
1888-71-7	Hexachloropropene	3700		U
193-39-5	Indeno(1,2,3-cd)pyrene	370		U
78-59-1	Isophorone	370		U
120-58-1	Isosafrole	740		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	740		U
56-49-5	3-Methylcholanthrene	740		U
66-27-3	Methyl methanesulfonate	370		U
91-57-6	2-Methylnaphthalene	370		U
95-48-7	2-Methylphenol	370		U
108-39-4	3-Methylphenol	370		U
106-44-5	4-Methylphenol	370		U
91-20-3	Naphthalene	370		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	370		U
91-59-8	2-Naphthylamine	370		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	370		U
88-75-5	2-Nitrophenol	370		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3700		U
924-16-3	N-Nitrosodi-n-butylamine	370		U
55-18-5	N-Nitrosodiethylamine	370		U
62-75-9	N-Nitrosodimethylamine	370		U
621-64-7	N-Nitrosodi-n-propylamine	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 08/02/00

Work Order: DH9MH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-07-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
86-30-6	N-Nitrosodiphenylamine	370		U
10595-95-6	N-Nitrosomethylethylamine	370		U
59-89-2	N-Nitrosomorpholine	370		U
100-75-4	N-Nitrosopiperidine	370		U
930-55-2	N-Nitrosopyrrolidine	370		U
99-55-8	5-Nitro-o-toluidine	740		U
608-93-5	Pentachlorobenzene	370		U
76-01-7	Pentachloroethane	1800		U
82-68-8	Pentachloronitrobenzene	1800		U
87-86-5	Pentachlorophenol	1800		U
62-44-2	Phenacetin	740		U
85-01-8	Phenanthrene	370		U
108-95-2	Phenol	370		U
106-50-3	p-Phenylene diamine	3700		U
109-06-8	2-Picoline	740		U
23950-58-5	Pronamide	740		U
129-00-0	Pyrene	370		U
110-86-1	Pyridine	740		U
94-59-7	Safrole	740		U
95-94-3	1,2,4,5-Tetrachlorobenzene	370		U
58-90-2	2,3,4,6-Tetrachlorophenol	1800		U
120-82-1	1,2,4-Trichlorobenzene	370		U
95-95-4	2,4,5-Trichlorophenol	370		U
88-06-2	2,4,6-Trichlorophenol	370		U
99-35-4	1,3,5-Trinitrobenzene	1800		U
86-74-8	Carbazole	370		U
510-15-6	Chlorobenzilate	370		U
122-09-8	a,a-Dimethylphenethylamine	1800		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.1 / g

Date Received: 08/02/00

Work Order: DH9MH10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-07-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	740		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MJ10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-08-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	370		U
208-96-8	Acenaphthylene	370		U
98-86-2	Acetophenone	370		U
53-96-3	2-Acetylaminofluorene	3700		U
92-67-1	4-Aminobiphenyl	1800		U
62-53-3	Aniline	370		U
120-12-7	Anthracene	370		U
56-55-3	Benzo (a) anthracene	370		U
205-99-2	Benzo (b) fluoranthene	370		U
207-08-9	Benzo (k) fluoranthene	370		U
191-24-2	Benzo (ghi) perylene	370		U
50-32-8	Benzo (a) pyrene	370		U
100-51-6	Benzyl alcohol	370		U
111-91-1	bis (2-Chloroethoxy) methane	370		U
111-44-4	bis (2-Chloroethyl) ether	370		U
108-60-1	2,2'-Oxybis (1-Chloropropane)	370		U
117-81-7	bis (2-Ethylhexyl) phthalate	98		J
101-55-3	4-Bromophenyl phenyl ether	370		U
85-68-7	Butyl benzyl phthalate	370		U
106-47-8	4-Chloroaniline	370		U
59-50-7	4-Chloro-3-methylphenol	370		U
91-58-7	2-Chloronaphthalene	370		U
95-57-8	2-Chlorophenol	370		U
7005-72-3	4-Chlorophenyl phenyl ether	370		U
218-01-9	Chrysene	370		U
2303-16-4	Diallate	740		U
53-70-3	Dibenz (a, h) anthracene	370		U
132-64-9	Dibenzofuran	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MJ10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
120-83-2	2,4-Dichlorophenol	370	U
87-65-0	2,6-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U
60-11-7	p-Dimethylaminoazobenzene	740	U
57-97-6	7,12-Dimethylbenz(a)anthracene	740	U
119-93-7	3,3'-Dimethylbenzidine	1800	U
105-67-9	2,4-Dimethylphenol	370	U
131-11-3	Dimethyl phthalate	370	U
117-84-0	Di-n-octyl phthalate	370	U
99-65-0	1,3-Dinitrobenzene	370	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	740	U
123-91-1	1,4-Dioxane	370	U
122-39-4	Diphenylamine	370	U
62-50-0	Ethyl methanesulfonate	370	U
206-44-0	Fluoranthene	370	U
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MJ10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-08-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
67-72-1	Hexachloroethane	370		U
1888-71-7	Hexachloropropene	3700		U
193-39-5	Indeno (1,2,3-cd) pyrene	370		U
78-59-1	Isophorone	370		U
120-58-1	Isosafrole	740		U
91-80-5	Methapyrilene	1800		U
95-53-4	o-Toluidine	740		U
56-49-5	3-Methylcholanthrene	740		U
66-27-3	Methyl methanesulfonate	370		U
91-57-6	2-Methylnaphthalene	370		U
95-48-7	2-Methylphenol	370		U
108-39-4	3-Methylphenol	370		U
106-44-5	4-Methylphenol	370		U
91-20-3	Naphthalene	370		U
130-15-4	1,4-Naphthoquinone	1800		U
134-32-7	1-Naphthylamine	370		U
91-59-8	2-Naphthylamine	370		U
88-74-4	2-Nitroaniline	1800		U
99-09-2	3-Nitroaniline	1800		U
100-01-6	4-Nitroaniline	1800		U
98-95-3	Nitrobenzene	370		U
88-75-5	2-Nitrophenol	370		U
100-02-7	4-Nitrophenol	1800		U
56-57-5	4-Nitroquinoline-1-oxide	3700		U
924-16-3	N-Nitrosodi-n-butylamine	370		U
55-18-5	N-Nitrosodiethylamine	370		U
62-75-9	N-Nitrosodimethylamine	370		U
621-64-7	N-Nitrosodi-n-propylamine	370		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MJ10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
86-30-6	N-Nitrosodiphenylamine	370	U
10595-95-6	N-Nitrosomethylethylamine	370	U
59-89-2	N-Nitrosomorpholine	370	U
100-75-4	N-Nitrosopiperidine	370	U
930-55-2	N-Nitrosopyrrolidine	370	U
99-55-8	5-Nitro-o-toluidine	740	U
608-93-5	Pentachlorobenzene	370	U
76-01-7	Pentachloroethane	1800	U
82-68-8	Pentachloronitrobenzene	1800	U
87-86-5	Pentachlorophenol	1800	U
62-44-2	Phenacetin	740	U
85-01-8	Phenanthrene	370	U
108-95-2	Phenol	370	U
106-50-3	p-Phenylene diamine	3700	U
109-06-8	2-Picoline	740	U
23950-58-5	Pronamide	740	U
129-00-0	Pyrene	370	U
110-86-1	Pyridine	740	U
94-59-7	Safrole	740	U
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
99-35-4	1,3,5-Trinitrobenzene	1800	U
86-74-8	Carbazole	370	U
510-15-6	Chlorobenzilate	370	U
122-09-8	a,a-Dimethylphenethylamine	1800	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 004

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MJ10X

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/09/00

Moisture %: 11

QC Batch: 0216337

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite		740	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 08/04/00

Work Order: DHD49110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 14

QC Batch: 0220102

Client Sample Id: MPT-55-SS-09-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
83-32-9	Acenaphthene	380		U
208-96-8	Acenaphthylene	380		U
98-86-2	Acetophenone	380		U
53-96-3	2-Acetylaminofluorene	3800		U
92-67-1	4-Aminobiphenyl	1900		U
62-53-3	Aniline	380		U
120-12-7	Anthracene	380		U
56-55-3	Benzo(a)anthracene	380		U
205-99-2	Benzo(b)fluoranthene	380		U
207-08-9	Benzo(k)fluoranthene	380		U
191-24-2	Benzo(ghi)perylene	380		U
50-32-8	Benzo(a)pyrene	380		U
100-51-6	Benzyl alcohol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
111-44-4	bis(2-Chloroethyl) ether	380		U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380		U
117-81-7	bis(2-Ethylhexyl) phthalate	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
85-68-7	Butyl benzyl phthalate	380		U
106-47-8	4-Chloroaniline	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-58-7	2-Chloronaphthalene	380		U
95-57-8	2-Chlorophenol	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
218-01-9	Chrysene	380		U
2303-16-4	Diallate	770		U
53-70-3	Dibenz(a,h)anthracene	380		U
132-64-9	Dibenzofuran	380		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 08/04/00

Work Order: DHD49110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 14

QC Batch: 0220102

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
120-83-2	2,4-Dichlorophenol	380	U
87-65-0	2,6-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U
60-11-7	p-Dimethylaminoazobenzene	770	U
57-97-6	7,12-Dimethylbenz(a)anthracene	770	U
119-93-7	3,3'-Dimethylbenzidine	1900	U
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
99-65-0	1,3-Dinitrobenzene	380	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
51-28-5	2,4-Dinitrophenol	1900	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
88-85-7	2-sec-Butyl-4,6-dinitrophenol	770	U
123-91-1	1,4-Dioxane	380	U
122-39-4	Diphenylamine	380	U
62-50-0	Ethyl methanesulfonate	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U
77-47-4	Hexachlorocyclopentadiene	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 08/04/00

Work Order: DHD49110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 14

QC Batch: 0220102

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
67-72-1	Hexachloroethane	380	U
1888-71-7	Hexachloropropene	3800	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
78-59-1	Isophorone	380	U
120-58-1	Isosafrole	770	U
91-80-5	Methapyrilene	1900	U
95-53-4	o-Toluidine	770	U
56-49-5	3-Methylcholanthrene	770	U
66-27-3	Methyl methanesulfonate	380	U
91-57-6	2-Methylnaphthalene	380	U
95-48-7	2-Methylphenol	380	U
108-39-4	3-Methylphenol	380	U
106-44-5	4-Methylphenol	380	U
91-20-3	Naphthalene	380	U
130-15-4	1,4-Naphthoquinone	1900	U
134-32-7	1-Naphthylamine	380	U
91-59-8	2-Naphthylamine	380	U
88-74-4	2-Nitroaniline	1900	U
99-09-2	3-Nitroaniline	1900	U
100-01-6	4-Nitroaniline	1900	U
98-95-3	Nitrobenzene	380	U
88-75-5	2-Nitrophenol	380	U
100-02-7	4-Nitrophenol	1900	U
56-57-5	4-Nitroquinoline-1-oxide	3800	U
924-16-3	N-Nitrosodi-n-butylamine	380	U
55-18-5	N-Nitrosodiethylamine	380	U
62-75-9	N-Nitrosodimethylamine	380	U
621-64-7	N-Nitrosodi-n-propylamine	380	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 08/04/00

Work Order: DHD49110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 14

QC Batch: 0220102

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
86-30-6	N-Nitrosodiphenylamine	380	U
10595-95-6	N-Nitrosomethylethylamine	380	U
59-89-2	N-Nitrosomorpholine	380	U
100-75-4	N-Nitrosopiperidine	380	U
930-55-2	N-Nitrosopyrrolidine	380	U
99-55-8	5-Nitro-o-toluidine	770	U
608-93-5	Pentachlorobenzene	380	U
76-01-7	Pentachloroethane	1900	U
82-68-8	Pentachloronitrobenzene	1900	U
87-86-5	Pentachlorophenol	1900	U
62-44-2	Phenacetin	770	U
85-01-8	Phenanthrene	380	U
108-95-2	Phenol	380	U
106-50-3	p-Phenylene diamine	3800	U
109-06-8	2-Picoline	770	U
23950-58-5	Pronamide	770	U
129-00-0	Pyrene	380	U
110-86-1	Pyridine	770	U
94-59-7	Safrole	770	U
95-94-3	1,2,4,5-Tetrachlorobenzene	380	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
99-35-4	1,3,5-Trinitrobenzene	1900	U
86-74-8	Carbazole	380	U
510-15-6	Chlorobenzilate	380	U
122-09-8	a,a-Dimethylphenethylamine	1900	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 30.13 / g

Date Received: 08/04/00

Work Order: DHD49110

Date Extracted: 08/07/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 14

QC Batch: 0220102

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
140-57-8	Aramite	770		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 005

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MK103

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/08/00

Moisture %: 24

QC Batch: 0216335

Client Sample Id: MPT-55-SD-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
5103-71-9	alpha-Chlordane	2.2		U
5103-74-2	gamma-Chlordane	2.2		U
53494-70-5	Endrin ketone	2.2		U
309-00-2	Aldrin	2.2		U
319-84-6	alpha-BHC	2.2		U
319-85-7	beta-BHC	2.2		U
319-86-8	delta-BHC	2.2		U
58-89-9	gamma-BHC (Lindane)	2.2		U
72-54-8	4,4'-DDD	2.2		U
72-55-9	4,4'-DDE	2.2		U
50-29-3	4,4'-DDT	2.2		U
60-57-1	Dieldrin	2.2		U
959-98-8	Endosulfan I	2.2		U
33213-65-9	Endosulfan II	2.2		U
1031-07-8	Endosulfan sulfate	2.2		U
72-20-8	Endrin	2.2		U
7421-93-4	Endrin aldehyde	2.2		U
76-44-8	Heptachlor	2.2		U
1024-57-3	Heptachlor epoxide	2.2		U
465-73-6	Isodrin	4.3		U
143-50-0	Kepone	43		U
72-43-5	Methoxychlor	4.3		U
8001-35-2	Toxaphene	88		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH040127 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.02 / g

Date Received: 08/04/00

Work Order: DHD3R104

Date Extracted: 08/09/00

Dilution factor: 1

Date Analyzed: 08/11/00

Moisture %: 45

QC Batch: 0222091

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
5103-71-9	alpha-Chlordane	3.1		U
5103-74-2	gamma-Chlordane	3.1		U
53494-70-5	Endrin ketone	3.1		U
309-00-2	Aldrin	3.1		U
319-84-6	alpha-BHC	3.1		U
319-85-7	beta-BHC	3.1		U
319-86-8	delta-BHC	3.1		U
58-89-9	gamma-BHC (Lindane)	3.1		U
72-54-8	4,4'-DDD	3.1		U
72-55-9	4,4'-DDE	2.8		J
50-29-3	4,4'-DDT	3.1		U
60-57-1	Dieldrin	3.1		U
959-98-8	Endosulfan I	3.1		U
33213-65-9	Endosulfan II	3.1		U
1031-07-8	Endosulfan sulfate	3.1		U
72-20-8	Endrin	3.1		U
7421-93-4	Endrin aldehyde	3.1		U
76-44-8	Heptachlor	3.1		U
1024-57-3	Heptachlor epoxide	3.1		U
465-73-6	Isodrin	6.0		U
143-50-0	Kepone	60		U
72-43-5	Methoxychlor	6.0		U
8001-35-2	Toxaphene	120		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO
 Method: SW846 8081A
 Pesticides (8081A)

Lab Sample ID: A0H040127 002

Sample WT/Vol: 30.13 / g
 Work Order: DHD48104
 Dilution factor: 1
 Moisture %: 19

Date Received: 08/04/00
 Date Extracted: 08/09/00
 Date Analyzed: 08/11/00

QC Batch: 0222091

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
5103-71-9	alpha-Chlordane	2.1		U
5103-74-2	gamma-Chlordane	2.1		U
53494-70-5	Endrin ketone	2.1		U
309-00-2	Aldrin	2.1		U
319-84-6	alpha-BHC	2.1		U
319-85-7	beta-BHC	2.1		U
319-86-8	delta-BHC	2.1		U
58-89-9	gamma-BHC (Lindane)	2.1		U
72-54-8	4,4'-DDD	2.1		U
72-55-9	4,4'-DDE	2.1		U
50-29-3	4,4'-DDT	2.1		U
60-57-1	Dieldrin	2.1		U
959-98-8	Endosulfan I	2.1		U
33213-65-9	Endosulfan II	2.1		U
1031-07-8	Endosulfan sulfate	2.1		U
72-20-8	Endrin	2.1		U
7421-93-4	Endrin aldehyde	2.1		U
76-44-8	Heptachlor	2.1		U
1024-57-3	Heptachlor epoxide	2.1		U
465-73-6	Isodrin	4.1		U
143-50-0	Kepone	41		U
72-43-5	Methoxychlor	4.1		U
8001-35-2	Toxaphene	82		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc. SDG Number: MP022
 Matrix: (soil/water) SO Lab Sample ID: A0H030175.001
 Method: SW846 8081A
 Pesticides (8081A)
 Sample WT/Vol: 30.1 / g Date Received: 08/01/00
 Work Order: DH9GA103 Date Extracted: 08/04/00
 Dilution factor: 1 Date Analyzed: 08/08/00
 Moisture %: 4.0
 Client Sample Id: MPT-55-SS-01-01 QC Batch: 0216335

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
5103-71-9	alpha-Chlordane	1.8		U
5103-74-2	gamma-Chlordane	1.8		U
53494-70-5	Endrin ketone	1.8		U
309-00-2	Aldrin	1.8		U
319-84-6	alpha-BHC	1.8		U
319-85-7	beta-BHC	1.8		U
319-86-8	delta-BHC	1.8		U
58-89-9	gamma-BHC (Lindane)	1.8		U
72-54-8	4,4'-DDD	1.8		U
72-55-9	4,4'-DDE	1.8		U
50-29-3	4,4'-DDT	1.8		U
60-57-1	Dieldrin	1.8		U
959-98-8	Endosulfan I	1.8		U
33213-65-9	Endosulfan II	1.8		U
1031-07-8	Endosulfan sulfate	1.8		U
72-20-8	Endrin	1.8		U
7421-93-4	Endrin aldehyde	1.8		U
76-44-8	Heptachlor	1.8		U
1024-57-3	Heptachlor epoxide	1.8		U
465-73-6	Isodrin	3.4		U
143-50-0	Kepone	34		U
72-43-5	Methoxychlor	3.4		U
8001-35-2	Toxaphene	70		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.03 / g

Date Received: 08/01/00

Work Order: DH9HM103

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/08/00

Moisture %: 7.6

QC Batch: 0216335

Client Sample Id: MPT-55-SS-02-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
5103-71-9	alpha-Chlordane	1.8		U
5103-74-2	gamma-Chlordane	1.8		U
53494-70-5	Endrin ketone	1.8		U
309-00-2	Aldrin	1.8		U
319-84-6	alpha-BHC	1.8		U
319-85-7	beta-BHC	1.8		U
319-86-8	delta-BHC	1.8		U
58-89-9	gamma-BHC (Lindane)	1.8		U
72-54-8	4,4'-DDD	1.8		U
72-55-9	4,4'-DDE	1.8		U
50-29-3	4,4'-DDT	1.8		U
60-57-1	Dieldrin	1.8		U
959-98-8	Endosulfan I	1.8		U
33213-65-9	Endosulfan II	1.8		U
1031-07-8	Endosulfan sulfate	1.8		U
72-20-8	Endrin	1.8		U
7421-93-4	Endrin aldehyde	1.8		U
76-44-8	Heptachlor	1.8		U
1024-57-3	Heptachlor epoxide	1.8		U
465-73-6	Isodrin	3.6		U
143-50-0	Kepone	36		U
72-43-5	Methoxychlor	3.6		U
8001-35-2	Toxaphene	73		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030175 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HV103

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/08/00

Moisture %: 4.7

QC Batch: 0216335

Client Sample Id: MPT-55-SS-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
5103-71-9	alpha-Chlordane	1.8		U
5103-74-2	gamma-Chlordane	1.8		U
53494-70-5	Endrin ketone	1.8		U
309-00-2	Aldrin	1.8		U
319-84-6	alpha-BHC	1.8		U
319-85-7	beta-BHC	1.8		U
319-86-8	delta-BHC	1.8		U
58-89-9	gamma-BHC (Lindane)	1.8		U
72-54-8	4,4'-DDD	1.8		U
72-55-9	4,4'-DDE	1.8		U
50-29-3	4,4'-DDT	1.8		U
60-57-1	Dieldrin	1.8		U
959-98-8	Endosulfan I	1.8		U
33213-65-9	Endosulfan II	1.8		U
1031-07-8	Endosulfan sulfate	1.8		U
72-20-8	Endrin	1.8		U
7421-93-4	Endrin aldehyde	1.8		U
76-44-8	Heptachlor	1.8		U
1024-57-3	Heptachlor epoxide	1.8		U
465-73-6	Isodrin	3.5		U
143-50-0	Kepone	35		U
72-43-5	Methoxychlor	3.5		U
8001-35-2	Toxaphene	70		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 004

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.11 / g

Date Received: 08/01/00

Work Order: DH9J2103

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/08/00

Moisture %: 14

QC Batch: 0216335

Client Sample Id: MPT-55-SS-04-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
5103-71-9	alpha-Chlordane	2.0		U
5103-74-2	gamma-Chlordane	2.0		U
53494-70-5	Endrin ketone	2.0		U
309-00-2	Aldrin	2.0		U
319-84-6	alpha-BHC	2.0		U
319-85-7	beta-BHC	2.0		U
319-86-8	delta-BHC	2.0		U
58-89-9	gamma-BHC (Lindane)	2.0		U
72-54-8	4,4'-DDD	2.0		U
72-55-9	4,4'-DDE	2.0		U
50-29-3	4,4'-DDT	2.0		U
60-57-1	Dieldrin	2.0		U
959-98-8	Endosulfan I	2.0		U
33213-65-9	Endosulfan II	2.0		U
1031-07-8	Endosulfan sulfate	2.0		U
72-20-8	Endrin	2.0		U
7421-93-4	Endrin aldehyde	2.0		U
76-44-8	Heptachlor	2.0		U
1024-57-3	Heptachlor epoxide	2.0		U
465-73-6	Isodrin	3.8		U
143-50-0	Kepon	38		U
72-43-5	Methoxychlor	3.8		U
8001-35-2	Toxaphene	78		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.01 / g

Date Received: 08/02/00

Work Order: DH9LH103

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/08/00

Moisture %: 22

QC Batch: 0216335

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
53494-70-5	Endrin ketone	2.2	U
309-00-2	Aldrin	2.2	U
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	2.2	U
72-55-9	4,4'-DDE	2.2	U
50-29-3	4,4'-DDT	2.2	U
60-57-1	Dieldrin	2.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	2.2	U
1031-07-8	Endosulfan sulfate	2.2	U
72-20-8	Endrin	2.2	U
7421-93-4	Endrin aldehyde	2.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
465-73-6	Isodrin	4.2	U
143-50-0	Kepone	42	U
72-43-5	Methoxychlor	4.2	U
8001-35-2	Toxaphene	85	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030185 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.01 / g

Date Received: 08/02/00

Work Order: DH9M9103

Date Extracted: 08/04/00

Dilution factor: 10

Date Analyzed: 08/12/00

Moisture %: 7.9

QC Batch: 0216335

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
5103-71-9	alpha-Chlordane	18	U
5103-74-2	gamma-Chlordane	18	U
53494-70-5	Endrin ketone	18	U
309-00-2	Aldrin	18	U
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	gamma-BHC (Lindane)	18	U
72-54-8	4,4'-DDD	18	U
72-55-9	4,4'-DDE	14	J
50-29-3	4,4'-DDT	84	PG
60-57-1	Dieldrin	18	U
959-98-8	Endosulfan I	18	U
33213-65-9	Endosulfan II	18	U
1031-07-8	Endosulfan sulfate	18	U
72-20-8	Endrin	18	U
7421-93-4	Endrin aldehyde	18	U
76-44-8	Heptachlor	18	U
1024-57-3	Heptachlor epoxide	18	U
465-73-6	Isodrin	36	U
143-50-0	Kepone	360	U
72-43-5	Methoxychlor	36	U
8001-35-2	Toxaphene	730	U

*Get a wide
not reported*

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO
 Method: SW846 8081A
 Pesticides (8081A)

Lab Sample ID: A0H030185 003

Sample WT/Vol: 30.14 / g
 Work Order: DH9MH103
 Dilution factor: 1
 Moisture %: 11

Date Received: 08/02/00
 Date Extracted: 08/04/00
 Date Analyzed: 08/08/00

QC Batch: 0216335

Client Sample Id: MPT-55-SS-07-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
5103-71-9	alpha-Chlordane	1.9		U
5103-74-2	gamma-Chlordane	1.9		U
53494-70-5	Endrin ketone	1.9		U
309-00-2	Aldrin	1.9		U
319-84-6	alpha-BHC	1.9		U
319-85-7	beta-BHC	1.9		U
319-86-8	delta-BHC	1.9		U
58-89-9	gamma-BHC (Lindane)	1.9		U
72-54-8	4,4'-DDD	1.9		U
72-55-9	4,4'-DDE	2.7		
50-29-3	4,4'-DDT	1.9		U
60-57-1	Dieldrin	1.9		U
959-98-8	Endosulfan I	1.9		U
33213-65-9	Endosulfan II	1.9		U
1031-07-8	Endosulfan sulfate	1.9		U
72-20-8	Endrin	1.9		U
7421-93-4	Endrin aldehyde	1.9		U
76-44-8	Heptachlor	1.9		U
1024-57-3	Heptachlor epoxide	1.9		U
465-73-6	Isodrin	3.7		U
143-50-0	Kepone	37		U
72-43-5	Methoxychlor	3.7		U
8001-35-2	Toxaphene	75		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO
 Method: SW846 8081A
 Pesticides (8081A)

Lab Sample ID: A0H030185 004

Sample WT/Vol: 30.05 / g
 Work Order: DH9MJ103
 Dilution factor: 1
 Moisture %: 11

Date Received: 08/02/00
 Date Extracted: 08/04/00
 Date Analyzed: 08/08/00

QC Batch: 0216335

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
53494-70-5	Endrin ketone	1.9	U
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	1.9	U
72-55-9	4,4'-DDE	1.9	U
50-29-3	4,4'-DDT	1.9	U
60-57-1	Dieldrin	1.9	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	1.9	U
1031-07-8	Endosulfan sulfate	1.9	U
72-20-8	Endrin	1.9	U
7421-93-4	Endrin aldehyde	1.9	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
465-73-6	Isodrin	3.7	U
143-50-0	Kepone	37	U
72-43-5	Methoxychlor	3.7	U
8001-35-2	Toxaphene	76	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 30.1 / g

Date Received: 08/04/00

Work Order: DHD49104

Date Extracted: 08/09/00

Dilution factor: 1

Date Analyzed: 08/12/00

Moisture %: 14

QC Batch: 0222091

Client Sample Id: MPT-55-SS-09-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
5103-71-9	alpha-Chlordane	2.0		U
5103-74-2	gamma-Chlordane	2.0		U
53494-70-5	Endrin ketone	2.0		U
309-00-2	Aldrin	2.0		U
319-84-6	alpha-BHC	2.0		U
319-85-7	beta-BHC	2.0		U
319-86-8	delta-BHC	2.0		U
58-89-9	gamma-BHC (Lindane)	2.0		U
72-54-8	4,4'-DDD	2.0		U
72-55-9	4,4'-DDE	2.0		U
50-29-3	4,4'-DDT	2.0		U
60-57-1	Dieldrin	2.0		U
959-98-8	Endosulfan I	2.0		U
33213-65-9	Endosulfan II	2.0		U
1031-07-8	Endosulfan sulfate	2.0		U
72-20-8	Endrin	2.0		U
7421-93-4	Endrin aldehyde	2.0		U
76-44-8	Heptachlor	2.0		U
1024-57-3	Heptachlor epoxide	2.0		U
465-73-6	Isodrin	3.8		U
143-50-0	Kepone	38		U
72-43-5	Methoxychlor	3.8		U
8001-35-2	Toxaphene	78		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 005

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.18 / g

Date Received: 08/02/00

Work Order: DH9MK102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 24

QC Batch: 0216336

Client Sample Id: MPT-55-SD-01-01

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016	43		U
11104-28-2	Aroclor 1221	43		U
11141-16-5	Aroclor 1232	43		U
53469-21-9	Aroclor 1242	43		U
12672-29-6	Aroclor 1248	43		U
11097-69-1	Aroclor 1254	43		U
11096-82-5	Aroclor 1260	43		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.02 / g

Date Received: 08/04/00

Work Order: DHD3R103

Date Extracted: 08/09/00

Dilution factor: 1

Date Analyzed: 08/14/00

Moisture %: 45

QC Batch: 0222092

Client Sample Id: MPT-55-SD-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg
12674-11-2	Aroclor 1016	60	U
11104-28-2	Aroclor 1221	60	U
11141-16-5	Aroclor 1232	60	U
53469-21-9	Aroclor 1242	60	U
12672-29-6	Aroclor 1248	60	U
11097-69-1	Aroclor 1254	60	U
11096-82-5	Aroclor 1260	60	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.13 / g

Date Received: 08/04/00

Work Order: DHD48103

Date Extracted: 08/09/00

Dilution factor: 1

Date Analyzed: 08/14/00

Moisture %: 19

QC Batch: 0222092

Client Sample Id: MPT-55-SD-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	41		U
11104-28-2	Aroclor 1221	41		U
11141-16-5	Aroclor 1232	41		U
53469-21-9	Aroclor 1242	41		U
12672-29-6	Aroclor 1248	41		U
11097-69-1	Aroclor 1254	41		U
11096-82-5	Aroclor 1260	41		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.1 / g

Date Received: 08/01/00

Work Order: DH9GA102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 4.0

QC Batch: 0216336

Client Sample Id: MPT-55-SS-01-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
12674-11-2	Aroclor 1016	34	U
11104-28-2	Aroclor 1221	34	U
11141-16-5	Aroclor 1232	34	U
53469-21-9	Aroclor 1242	34	U
12672-29-6	Aroclor 1248	34	U
11097-69-1	Aroclor 1254	34	U
11096-82-5	Aroclor 1260	34	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.03 / g

Date Received: 08/01/00

Work Order: DH9HM102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 7.6

QC Batch: 0216336

Client Sample Id: MPT-55-SS-02-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	36		U
11104-28-2	Aroclor 1221	36		U
11141-16-5	Aroclor 1232	36		U
53469-21-9	Aroclor 1242	36		U
12672-29-6	Aroclor 1248	36		U
11097-69-1	Aroclor 1254	36		U
11096-82-5	Aroclor 1260	36		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030175 003

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.05 / g

Date Received: 08/01/00

Work Order: DH9HV102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 4.7

QC Batch: 0216336

Client Sample Id: MPT-55-SS-03-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	35		U
11104-28-2	Aroclor 1221	35		U
11141-16-5	Aroclor 1232	35		U
53469-21-9	Aroclor 1242	35		U
12672-29-6	Aroclor 1248	35		U
11097-69-1	Aroclor 1254	35		U
11096-82-5	Aroclor 1260	35		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: AOH030175 004

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.11 / g

Date Received: 08/01/00

Work Order: DH9J2102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 14

QC Batch: 0216336

Client Sample Id: MPT-55-SS-04-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	38		U
11104-28-2	Aroclor 1221	38		U
11141-16-5	Aroclor 1232	38		U
53469-21-9	Aroclor 1242	38		U
12672-29-6	Aroclor 1248	38		U
11097-69-1	Aroclor 1254	38		U
11096-82-5	Aroclor 1260	38		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO
 Method: SW846 8082
 PCBs (8082)

Lab Sample ID: A0H030185 001

Sample WT/Vol: 30.01 / g
 Work Order: DH9LH102
 Dilution factor: 1
 Moisture %: 22

Date Received: 08/02/00
 Date Extracted: 08/04/00
 Date Analyzed: 08/10/00

QC Batch: 0216336

Client Sample Id: MPT-55-SS-05-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	42		U
11104-28-2	Aroclor 1221	42		U
11141-16-5	Aroclor 1232	42		U
53469-21-9	Aroclor 1242	42		U
12672-29-6	Aroclor 1248	42		U
11097-69-1	Aroclor 1254	42		U
11096-82-5	Aroclor 1260	42		U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 002

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.01 / g

Date Received: 08/02/00

Work Order: DH9M9102

Date Extracted: 08/04/00

Dilution factor: 2

Date Analyzed: 08/10/00

Moisture %: 7.9

QC Batch: 0216336

Client Sample Id: MPT-55-SS-06-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor 1016	72		U
11104-28-2	Aroclor 1221	72		U
11141-16-5	Aroclor 1232	72		U
53469-21-9	Aroclor 1242	72		U
12672-29-6	Aroclor 1248	72		U
11097-69-1	Aroclor 1254	72		U
11096-82-5	Aroclor 1260	800		

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 003

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.14 / g

Date Received: 08/02/00

Work Order: DH9MH102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 11

QC Batch: 0216336

Client Sample Id: MPT-55-SS-07-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/kg Q
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	37	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	37	U
11096-82-5	Aroclor 1260	37	U

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H030185 004

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.05 / g

Date Received: 08/02/00

Work Order: DH9MJ102

Date Extracted: 08/04/00

Dilution factor: 1

Date Analyzed: 08/10/00

Moisture %: 11

QC Batch: 0216336

Client Sample Id: MPT-55-SS-08-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	37		U
11104-28-2	Aroclor 1221	37		U
11141-16-5	Aroclor 1232	37		U
53469-21-9	Aroclor 1242	37		U
12672-29-6	Aroclor 1248	37		U
11097-69-1	Aroclor 1254	37		U
11096-82-5	Aroclor 1260	10		J

TETRA TECH NUS, INC.

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: MP022

Matrix: (soil/water) SO

Lab Sample ID: A0H040127 003

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 30.1 / g

Date Received: 08/04/00

Work Order: DHD49103

Date Extracted: 08/09/00

Dilution factor: 1

Date Analyzed: 08/14/00

Moisture %: 14

QC Batch: 0222092

Client Sample Id: MPT-55-SS-09-01

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/kg	
12674-11-2	Aroclor 1016	38		U
11104-28-2	Aroclor 1221	38		U
11141-16-5	Aroclor 1232	38		U
53469-21-9	Aroclor 1242	38		U
12672-29-6	Aroclor 1248	38		U
11097-69-1	Aroclor 1254	38		U
11096-82-5	Aroclor 1260	38		U

APPENDIX C

SUPPORT DOCUMENTATION

SDG NARRATIVE

MP022

The following report contains the analytical results for twelve solid samples submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV Site, project number N0123. The samples were received August 1, 2 and 4, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The coolers were received at the laboratory at temperatures of 4.6, 3.6 and 2.3° C.

(See STL's Cooler Receipt Form for additional information.)

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	M	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	M	08/03/00	08/21/00	08/21/00	18	0	18
MG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	M	07/31/00	08/21/00	08/21/00	21	0	21
MG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	M	08/01/00	08/21/00	08/21/00	20	0	20
MG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	M	08/03/00	08/21/00	08/21/00	18	0	18
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	OS	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	OS	08/03/00	08/07/00	08/11/00	4	4	8
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	OS	08/03/00	08/07/00	08/11/00	4	4	8
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	OS	07/31/00	08/04/00	08/09/00	4	5	9
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	OS	08/01/00	08/04/00	08/09/00	3	5	8
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	OS	08/03/00	08/07/00	08/11/00	4	4	8
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	OV	08/03/00	08/10/00	08/10/00	7	0	7
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	OV	08/03/00	08/10/00	08/10/00	7	0	7
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	OV	07/31/00	08/08/00	08/08/00	8	0	8

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	OV	07/31/00	08/08/00	08/08/00	8	0	8
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	OV	07/31/00	08/08/00	08/08/00	8	0	8
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	OV	07/31/00	08/10/00	08/10/00	10	0	10
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	OV	08/03/00	08/10/00	08/10/00	7	0	7
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	PCB	08/03/00	08/09/00	08/14/00	6	5	11
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	PCB	08/03/00	08/09/00	08/14/00	6	5	11
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	PCB	07/31/00	08/04/00	08/10/00	4	6	10
UG/KG	MPT-55-SS-05-01	A0H030185001	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-06-01	A0H030185002	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-07-01	A0H030185003	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-08-01	A0H030185004	NORMAL	MP022	PCB	08/01/00	08/04/00	08/10/00	3	6	9
UG/KG	MPT-55-SS-09-01	A0H040127003	NORMAL	MP022	PCB	08/03/00	08/09/00	08/14/00	6	5	11
UG/KG	MPT-55-SD-01-01	A0H030185005	NORMAL	MP022	PEST	08/01/00	08/04/00	08/08/00	3	4	7
UG/KG	MPT-55-SD-02-01	A0H040127001	NORMAL	MP022	PEST	08/03/00	08/09/00	08/11/00	6	2	8
UG/KG	MPT-55-SD-03-01	A0H040127002	NORMAL	MP022	PEST	08/03/00	08/09/00	08/11/00	6	2	8
UG/KG	MPT-55-SS-01-01	A0H030175001	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8
UG/KG	MPT-55-SS-02-01	A0H030175002	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8
UG/KG	MPT-55-SS-03-01	A0H030175003	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8
UG/KG	MPT-55-SS-04-01	A0H030175004	NORMAL	MP022	PEST	07/31/00	08/04/00	08/08/00	4	4	8

<i>Units</i>	<i>Nsample</i>	<i>Lab Id</i>	<i>Qc Type</i>	<i>Sdg</i>	<i>Sort</i>	<i>Samp Date</i>	<i>Extr Date</i>	<i>Anal Date</i>	<i>SAMP_DATE TO EXTR_DATE</i>	<i>EXTR_DATE TO ANAL_DATE</i>	<i>SAMP_DATE TO ANAL_DATE</i>
<i>UG/KG</i>	<i>MPT-55-SS-05-01</i>	<i>A0H030185001</i>	<i>NORMAL</i>	<i>MP022</i>	<i>PEST</i>	<i>08/01/00</i>	<i>08/04/00</i>	<i>08/08/00</i>	<i>3</i>	<i>4</i>	<i>7</i>
<i>UG/KG</i>	<i>MPT-55-SS-06-01</i>	<i>A0H030185002</i>	<i>NORMAL</i>	<i>MP022</i>	<i>PEST</i>	<i>08/01/00</i>	<i>08/04/00</i>	<i>08/12/00</i>	<i>3</i>	<i>8</i>	<i>11</i>
<i>UG/KG</i>	<i>MPT-55-SS-07-01</i>	<i>A0H030185003</i>	<i>NORMAL</i>	<i>MP022</i>	<i>PEST</i>	<i>08/01/00</i>	<i>08/04/00</i>	<i>08/08/00</i>	<i>3</i>	<i>4</i>	<i>7</i>
<i>UG/KG</i>	<i>MPT-55-SS-08-01</i>	<i>A0H030185004</i>	<i>NORMAL</i>	<i>MP022</i>	<i>PEST</i>	<i>08/01/00</i>	<i>08/04/00</i>	<i>08/08/00</i>	<i>3</i>	<i>4</i>	<i>7</i>
<i>UG/KG</i>	<i>MPT-55-SS-09-01</i>	<i>A0H040127003</i>	<i>NORMAL</i>	<i>MP022</i>	<i>PEST</i>	<i>08/03/00</i>	<i>08/09/00</i>	<i>08/12/00</i>	<i>6</i>	<i>3</i>	<i>9</i>

North Canton Facility

Client: Tetra Tech - FL
Cooler Received on: 8/11/00

Project: MAVPO7
Opened on: 8/11/00

Quote#: _____
by: Amee Gandeey
(Signature)

Fedx Client Drop Off UPS Airborne

Cooler Safe Foam Box Client Cooler Other: _____
STL Shipper No# EO

- Were custody seals on the outside of the cooler and intact? Yes No
If YES, Quantity 1 Location OVER lid
Were the custody seals signed and dated? Yes No NA
- Shipper's packing slip attached to this form? Yes No NA
- Were custody papers included inside the cooler and relinquished? Yes No
- Did you sign the custody papers in the appropriate place? Yes No

5. Packing material used:
Peanuts Bubble Wrap Vermiculite Foam None Other: _____

6. Cooler temperature upon receipt 9.0 °C (see back of form for multiple coolers/temp)

METHOD: Temperature Vial Coolant Against Bottles

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- Were all the bottles sealed in separate plastic bags? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Did all bottle labels and tags agree with the custody papers? Yes No
- Were samples at the correct pH? Yes No NA
- Were correct bottles used for the tests indicated? Yes No
- Were air bubbles >6 mm in any VOA vials? Yes No NA
- Was a sufficient amount of sample sent in each bottle? Yes No

Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
Concerning: _____

MACRO MACRO

1. CHAIN OF CUSTODY

SR1A	Samples were received under proper custody procedures and without discrepancies.
X SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred <u>2 samples were sent for each cid instead of 5.</u>

2. SAMPLE CONDITION

SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
SR2B	Sample(s) _____ were received with insufficient volume
SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

SR4A	NCM has been generated. Refer to Clouseau for details
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5. Other Anomalies (see below or back)

Revision 1.3, June 19, 2000
SOP: NC-SC-0005, Sample Receiving
n:\qaqc\narrativ\stl\cooler_stl.doc

North Canton Facility

Client: TECHATECH Project: MAURORE Quote#: _____
 Cooler Received on: 8/2/00 Opened on: 8/2/00 by: [Signature]
 (Signature)

Fed: Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: 092

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 1 Location OVERLID
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt 3.0 °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 - COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 8. Did all bottles arrive in good condition (Unbroken)? Yes No
 9. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
- Concerning: _____

MACRO | MACRO

1. CHAIN OF CUSTODY

<input checked="" type="checkbox"/>	SR1A	Samples were received under proper custody procedures and without discrepancies.
	SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) _____ were received with insufficient volume
	SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s).
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

	SR4A	NCM has been generated. Refer to Clouseau for details
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5. Other Anomalies (see below or back)

Revision 13, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativ\stl\cooler_stl.doc

North Canton Facility

Client: Tetra Tech Project: Mayport Quote#: _____
 Cooler Received on: 8-4-00 Opened on: 8-4-00 by: Derry Burns
 (Signature)

Fedx Client Drop Off UPS Airborne
 Other: _____
 Cooler Safe Foam Box Client Cooler Other: _____
 STL Shipper No#: J631

1. Were custody seals on the outside of the cooler and intact? Yes No
 If YES, Quantity 1 Location over lid
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No
 3. Were custody papers included inside the cooler and relinquished? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used:
 Peanuts Bubble Wrap Vermiculite Foam None Other: _____
 6. Cooler temperature upon receipt 2.3 °C (see back of form for multiple coolers/temp)
 METHOD: Temperature Vial Coolant Against Bottles
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Were all the bottles sealed in separate plastic bags? Yes No
 Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Did all bottle labels and tags agree with the custody papers? Yes No
 10. Were samples at the correct pH? Yes No NA
 11. Were correct bottles used for the tests indicated? Yes No
 12. Were air bubbles >6 mm in any VOA vials? Yes No NA
 13. Was a sufficient amount of sample sent in each bottle? Yes No NA
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning: MACRO MACRO

1. CHAIN OF CUSTODY

<input checked="" type="checkbox"/> SR1A	Samples were received under proper custody procedures and without discrepancies.
<input type="checkbox"/> SR1B	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____

2. SAMPLE CONDITION

<input type="checkbox"/> SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
<input type="checkbox"/> SR2B	Sample(s) _____ were received with insufficient volume
<input type="checkbox"/> SR2C	Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

<input type="checkbox"/> SR3A	Sample(s) _____ were further preserved in sample/receiving to meet recommended pH level(s).
<input type="checkbox"/> SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. NCM

<input type="checkbox"/> SR4A	NCM has been generated. Refer to Clouseau for details
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5. Other Anomalies (see below or back)

Revision 1.3, June 19, 2000
 SOP: NC-SC-0005, Sample Receiving
 n:\qaqc\narrativ\stl\cooler_stl.doc



PROJECT NO: <i>N0123</i>	SITE NAME: <i>US Mayport</i>	PROJECT MANAGER AND PHONE NUMBER <i>T. Hansen</i>	LABORATORY NAME AND CONTACT: <i>Quanterra</i>
SAMPLERS (SIGNATURE) <i>[Signature]</i> <i>Chad Walker</i>		FIELD OPERATIONS LEADER AND PHONE NUMBER <i>T. Thompson (904) 281-0400</i>	ADDRESS <i>4101 Shuffel Dr NW</i>
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CARRIER/WAYBILL NUMBER	CITY, STATE <i>W. Canton, OH</i>

DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		COMMENTS	
						TYPE OF ANALYSIS					
8-1	1205	MPT-55-SS-05-01	Soil	G	6	3	X	X	X	X	Cool to 4°C
	1230	MPT-55-SS-06-01	|	|	6	3	X	X	X	X	
	1245	MPT-55-SS-07-01	|	|	6	3	X	X	X	X	
	1500	MPT-55-SS-08-01	↓	↓	6	3	X	X	X	X	
	1140	MPT-55-SW-01-01	H ₂ O	↓	9	3	X	X	X	X	
	1145	MPT-55-SD-01-01	Soil	↓	6	3	X	X	X	X	
		TB080100	H ₂ O		2	2	X				

1. RELINQUISHED BY <i>[Signature]</i>	DATE <i>8-7-00</i>	TIME <i>1700</i>	1. RECEIVED BY <i>[Signature]</i>	DATE <i>8/2/00</i>	TIME <i>905</i>
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME



PROJECT NO: 10123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hancer			LABORATORY NAME AND CONTACT: Quaverra						
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson			ADDRESS								
		CARRIER/WAYBILL NUMBER Fed Ex			CITY, STATE								
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day					CONTAINER TYPE PLASTIC (P) or GLASS (G)								
					PRESERVATIVE USED								
					TYPE OF ANALYSIS TCL VOC TCL SVOC TAL Metals Tin HCL HNO3 Mercury Molybdenum Cyanide Organochlorine Pest. NaOH PCBs								
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS						COMMENTS		
83	1140	MPT-55-SW-02-01	SW	G	9	X	X	X	X	X	X	X	Cool to 4°C
	1140	MPT-55-SD-02-01	Soil		6	X	X	X	X	X	X	X	
	1210	MPT-55-SW-03-01	SW		9	X	X	X	X	X	X	X	
	1210	MPT-55-SD-03-01	Soil		6	X	X	X	X	X	X	X	
	1230	MPT-55-SS-09-01	Soil		6	X	X	X	X	X	X	X	
		TB080300	W		2	X							
1. RELINQUISHED BY 		DATE 8-3-00	TIME 1500	1. RECEIVED BY Perry Burns		DATE 8-4-00	TIME 9:05 AM						
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME						
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME						
COMMENTS													



46

PROJECT NO: N6123		SITE NAME: Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen			LABORATORY NAME AND CONTACT: Quanterra						
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER Tom Thompson 904-281-0400			ADDRESS 4101 Shuffel Dr NW			CITY, STATE N. Canton, OH					
		CARRIER/WAYBILL NUMBER Fed Ex 7908 6816 5131											
STANDARD TAT <input checked="" type="checkbox"/> 5 RUSH TAT <input type="checkbox"/>				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED							
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day													
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (G)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS			
7/31	1339	MPT-55-SS-01-01	Soil	G	5	X	X	X	X	X	X		Cool to 4°C
	1350	MPT-55-SS-02-01	↓	↓	5	↓	↓	↓	↓	↓	↓		
	1420	MPT-55-SS-03-01	↓	↓	5	↓	↓	↓	↓	↓	↓		
	1445	MPT-55-SS-04-01	↓	↓	5	X	X	X	X	X	X		
1. RELINQUISHED BY		DATE	TIME	RECEIVED BY		DATE	TIME			DATE	TIME		
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME			DATE	TIME		
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME			DATE	TIME		
COMMENTS													

SDG NARRATIVE

MP022

GC/MS VOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Samples in this lot were preserved by freezing in water due to samples effervescing when preserved with sodium bisulfate.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

A full analyte spike was analyzed on a non-Navy sample in batch 0222263 due to a heavy sample load. QC check was in control.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

Lab File ID: BFB493X BFB Injection Date: 08/01/00

Instrument ID: A3I503 BFB Injection Time: 0813

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	46.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.7 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	73.6 (97.5)1
177	5.0 - 9.0% of mass 176	5.1 (6.9)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	VOX3465	08/01/00	0826
02	VSTD100	500NG-IC	VOX3466	08/01/00	0856
03	VSTD050	250NG-IC	VOX3467	08/01/00	0926
04	VSTD020	100NG-IC	VOX3468	08/01/00	0957
05	VSTD005	25NG-IC	VOX3469	08/01/00	1027
06	VSTD200	1000NG-A9IC	VOX3470	08/01/00	1058
07	VSTD100	500NG-A9IC	VOX3471	08/01/00	1128
08	VSTD050	250NG-A9IC	VOX3472	08/01/00	1201
09	VSTD020	100NG-A9IC	VOX3473	08/01/00	1229
10	VSTD005	25NG-A9IC	VOX3474	08/01/00	1259
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2000 08:26
 End Cal Date : 01-AUG-2000 12:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.i/X00801B.b/8260S503-3.m
 Cal Date : 01-Aug-2000 13:27 kardohes
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/msv/a3i503.i/X00801B.b/VOX3474.d
 Level 2: /chem/can/msv/a3i503.i/X00801B.b/VOX3473.d
 Level 3: /chem/can/msv/a3i503.i/X00801B.b/VOX3472.d
 Level 4: /chem/can/msv/a3i503.i/X00801B.b/VOX3471.d
 Level 5: /chem/can/msv/a3i503.i/X00801B.b/VOX3470.d

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
8 Dichlorodifluoromethane	0.26209	0.22506	0.22185	0.25974	0.22468	0.23868	8.526
9 Chloromethane	0.21889	0.21089	0.20328	0.20673	0.19936	0.20783	3.612
10 Vinyl Chloride	0.22200	0.21988	0.21169	0.22044	0.21545	0.21789	1.943
11 Bromomethane	0.25954	0.21225	0.17764	0.17502	0.17380	0.19965	18.581
12 Chloroethane	0.16859	0.14512	0.11658	0.09046	0.08130	0.12041	30.438
13 Trichlorofluoromethane	0.58291	0.55991	0.51095	0.46107	0.40040	0.50305	14.733
14 Acrolein	0.01389	0.01441	0.01413	0.01179	0.00933	0.01271	16.940
15 Acetone	0.08191	0.07104	0.06620	0.05477	0.04943	0.06467	20.023
16 1,1-Dichloroethene	0.31420	0.29730	0.27046	0.23300	0.19415	0.26182	18.600
17 Methylene Chloride	0.33172	0.31558	0.29258	0.28235	0.25603	0.29565	9.941
18 Carbon Disulfide	0.92450	0.88894	0.83872	0.79782	0.68873	0.82774	11.047
19 Acrylonitrile	0.03808	0.03897	0.03923	0.03553	0.03271	0.03690	7.493
20 trans-1,2-Dichloroethene	0.35857	0.34356	0.32326	0.30549	0.26804	0.31978	11.015
21 Vinyl acetate	0.35657	0.37468	0.40788	0.39341	0.38157	0.38282	5.054
22 1,1-Dichloroethane	0.64164	0.62742	0.58292	0.57405	0.53368	0.59194	7.327
23 2-Butanone	0.13753	0.09967	0.09426	0.09432	0.09250	0.10366	18.453
24 cis-1,2-dichloroethene	0.36278	0.35593	0.33743	0.32378	0.29107	0.33420	8.553
M 25 1,2-Dichloroethene (total)	0.36067	0.34974	0.33034	0.31464	0.27956	0.32699	9.750
26 Chloroform	0.73245	0.71533	0.67516	0.66155	0.62404	0.68171	6.343
27 1,1,1-Trichloroethane	0.65868	0.63859	0.60456	0.59526	0.57022	0.61346	5.738
28 Carbon Tetrachloride	0.68829	0.65045	0.60411	0.59547	0.58287	0.62424	7.044
29 1,2-Dichloroethane	0.41916	0.41687	0.39776	0.39012	0.39072	0.40293	3.505
30 Benzene	0.91422	0.88484	0.84809	0.84579	0.81475	0.86154	4.472
31 Trichloroethene	0.47409	0.44923	0.43448	0.43426	0.41680	0.44177	4.846
32 1,2-Dichloropropane	0.39887	0.39185	0.38046	0.37671	0.36501	0.38258	3.455
33 Bromodichloromethane	0.75612	0.75342	0.71490	0.71165	0.71266	0.73015	3.208

0.03665 (100)
 0.12041
 -30.4

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2000 08:26
 End Cal Date : 01-AUG-2000 12:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.i/X00801B.b/8260S503-3.m
 Cal Date : 01-Aug-2000 13:27 kardohes
 Curve Type : Average

Compound	25.000	100.000	250.000	500.000	1000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
34 2-Chloroethyl vinyl ether	0.13250	0.14106	0.15789	0.15407	0.16159	0.14942	8.182
35 4-Methyl-2-pentanone	0.24367	0.25086	0.26453	0.26037	0.27820	0.25953	5.100
36 cis-1,3-Dichloropropene	0.51591	0.54479	0.54495	0.55409	0.56355	0.54466	3.275
37 Toluene	1.23105	1.20597	1.14362	1.17268	1.13272	1.17721	3.516
38 trans-1,3-Dichloropropene	0.48976	0.51761	0.52499	0.54496	0.55247	0.52596	4.701
39 2-Hexanone	0.19595	0.21785	0.22507	0.22699	0.24659	0.22249	8.206
40 1,1,2-Trichloroethane	0.42638	0.41049	0.39599	0.38268	0.38379	0.39987	4.654
41 Tetrachloroethene	0.53934	0.51600	0.49177	0.50686	0.48496	0.50779	4.226
42 Dibromochloromethane	0.81484	0.82247	0.77904	0.76772	0.74701	0.78622	4.055
43 Chlorobenzene	1.11554	1.05148	0.99210	1.00537	0.97265	1.02743	5.565
44 Ethylbenzene	0.49592	0.46339	0.44397	0.45172	0.43840	0.45868	4.977
45 m + p-Xylene	0.61450	0.58710	0.55408	0.55429	0.54834	0.57166	4.969
46 Xylene-o	0.60296	0.58671	0.55466	0.56129	0.55172	0.57147	3.913
M 47 Xylenes (total)	0.61068	0.58697	0.55428	0.55663	0.54947	0.57160	4.610
48 Styrene	0.97229	0.96090	0.92748	0.93427	0.92065	0.94312	2.368
49 Bromoform	0.54772	0.58426	0.58755	0.58983	0.60381	0.58264	3.586
50 1,1,2,2-Tetrachloroethane	1.06477	1.05753	1.06447	1.03045	0.98630	1.04070	3.220
51 1,3-Dichlorobenzene	1.73332	1.56563	1.50509	1.54371	1.49723	1.56900	6.121
52 1,4-Dichlorobenzene	2.01523	1.63622	1.54776	1.56597	1.53435	1.65990	12.198
53 1,2-Dichlorobenzene	1.64002	1.45894	1.40046	1.36743	1.31161	1.43569	8.782
54 Freon-113	0.53902	0.47835	0.42915	0.38059	0.33708	0.43284	18.360
55 Acetonitrile	0.00642	0.00852	0.00852	0.00823	0.00978	0.00829	14.567 <-
56 Iodomethane	1.06418	0.96543	0.87169	0.78251	0.65636	0.86803	18.224
57 3-Chloropropene	0.12937	0.13033	0.12505	0.14137	0.11984	0.12919	6.172
58 2-Chloro-1,3-butadiene	0.43917	0.44707	0.42528	0.46706	0.38996	0.43370	6.628
59 Propionitrile	0.00769	0.01374	0.01445	0.01747	0.01504	0.01368	26.521 <-
60 Methacrylonitrile	0.10944	0.10134	0.09143	0.11541	0.09828	0.10318	9.119
61 Isobutanol	0.00734	0.00786	0.00703	0.00810	0.00661	0.00739	8.168 <-
62 Methyl Methacrylate	0.22517	0.23794	0.22980	0.27618	0.23349	0.24051	8.517
63 1,4-Dioxane	0.00214	0.00214	0.00204	0.00209	0.00222	0.00213	3.151 <-
64 Dibromomethane	0.34822	0.34400	0.32937	0.31758	0.31385	0.33060	4.641
65 Ethyl Methacrylate	0.39314	0.43272	0.45709	0.46493	0.48241	0.44606	7.748
66 1,2-Dibromoethane	0.58975	0.60525	0.59315	0.59324	0.59635	0.59555	0.991

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2000 08:26
 End Cal Date : 01-AUG-2000 12:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a31503.1/X00801B.b/8260S503-3.m
 Cal Date : 01-Aug-2000 13:27 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
67 1,1,1,2-Tetrachloroethane	0.60437	0.61335	0.59170	0.64935	0.52146	0.59605	7.866
68 1,2,3-Trichloropropane	0.93332	0.91110	0.91353	0.92071	0.92846	0.92142	1.030
69 1,4-Dichloro-2-butene	0.18236	0.18848	0.20038	0.20174	0.21151	0.19689	5.854
70 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
71 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
72 1,2-Dibromo-3-chloropropane	0.31215	0.29366	0.27359	0.30104	0.23078	0.28221	11.340
73 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++ <-
74 n-Butanol	0.00403	0.00480	0.00467	0.00577	0.00486	0.00482	12.854 <-
75 Ethyl Acetate	0.23216	0.22461	0.20754	0.25054	0.21264	0.22550	7.552
76 Cyclohexanone	0.02251	0.02143	0.01953	0.02362	0.01984	0.02138	8.140
77 Ethyl Ether	0.18028	0.17321	0.15966	0.17891	0.14015	0.16644	10.097
78 Methyl tert-butyl ether	0.58961	0.62652	0.61613	0.58165	0.53649	0.59008	5.962
79 Tetrahydrofuran	0.06859	0.06797	0.06611	0.05913	0.05521	0.06340	9.348
80 Dichlorofluoromethane	0.69190	0.69002	0.64681	0.70907	0.57128	0.66181	8.397
81 2-Nitropropane	0.05994	0.06210	0.05706	0.06776	0.05586	0.06054	7.786
82 tert-Butyl Alcohol	0.01737	0.01720	0.01874	0.01764	0.01722	0.01763	3.641
83 Cyclohexane	0.50549	0.46521	0.45509	0.45748	0.43840	0.46433	5.383
84 Hexane	0.38838	0.36992	0.35695	0.35638	0.34165	0.36266	4.831
85 Isopropyl Ether	1.12852	1.16176	1.06626	1.10695	0.86793	1.06628	10.895
86 2,2-Dichloropropane	0.51577	0.51494	0.49988	0.50240	0.46875	0.50035	3.810
87 1,1-Dichloropropene	0.50135	0.47775	0.45926	0.45687	0.43181	0.46541	5.565
88 1,3-Dichloropropane	0.62168	0.63083	0.61193	0.61060	0.60848	0.61670	1.521
89 Isopropylbenzene	1.66753	1.64858	1.59401	1.66085	1.66088	1.64637	1.826
90 Bromobenzene	1.03579	0.98049	0.94785	0.95023	0.89315	0.96150	5.420
91 2-Chlorotoluene	0.78804	0.70503	0.66520	0.68369	0.66789	0.70197	7.217
92 n-Propylbenzene	0.75030	0.71167	0.67199	0.69675	0.68697	0.70354	4.245
93 4-Chlorotoluene	0.80771	0.73427	0.68866	0.67519	0.65523	0.71221	8.535
94 1,3,5-Trimethylbenzene	2.21992	2.07198	1.98260	2.00024	1.98337	2.05162	4.923
95 tert-Butylbenzene	2.56443	2.38024	2.31202	2.38463	2.29086	2.38643	4.513
96 1,2,4-Trimethylbenzene	2.28425	2.11178	2.08476	2.17771	2.11120	2.15394	3.738
97 sec-Butylbenzene	3.32815	3.04955	2.97539	3.10461	2.99382	3.09030	4.603
98 4-Isopropyltoluene	2.71927	2.39164	2.31745	2.39716	2.33994	2.43309	6.721
99 n-Butylbenzene	2.45039	2.23182	2.20827	2.28768	2.26268	2.28817	4.176

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2000 08:26
 End Cal Date : 01-AUG-2000 12:59
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/can/msv/a3i503.1/X00801B.b/8260S503-3.m
 Cal Date : 01-Aug-2000 13:27 kardohes
 Curve Type : Average

Compound	25.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	RRF	% RSD
100 1,2,4-Trichlorobenzene	1.35917	1.09980	1.06268	1.04657	1.00136	1.11392	12.710
101 Naphthalene	2.39231	1.70625	1.59079	1.46112	1.37876	1.70585	23.656
102 Hexachlorobutadiene	0.93159	0.79565	0.77524	0.79857	0.87038	0.83424	7.824
103 1,2,3-Trichlorobenzene	1.44596	1.06475	0.99493	0.95596	0.90922	1.07417	20.063
104 Isopropyl Alcohol	++++	++++	++++	++++	++++	++++	++++ <-
105 N-Propanol	++++	++++	++++	++++	++++	++++	++++ <-
106 Isopropyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
107 N-Propyl Acetate	++++	++++	++++	++++	++++	++++	++++ <-
108 N-Butyl acetate	++++	++++	++++	++++	++++	++++	++++ <-
109 Dimethoxymethane	++++	++++	++++	++++	++++	++++	++++ <-
110 3,3,5-Trimethylcyclohexanone	++++	++++	++++	++++	++++	++++	++++ <-
111 Bromochloromethane	0.23808	0.23391	0.22267	0.21415	0.20009	0.22178	6.920
112 Paraldehyde	++++	++++	++++	++++	++++	++++	++++ <-
135 1-Chlorohexane	++++	++++	++++	++++	++++	++++	++++ <-
136 Chloropicrin	++++	++++	++++	++++	++++	++++	++++ <-
137 1,3,5-Trichlorobenzene	1.67896	1.35530	1.28252	1.27405	1.26238	1.37064	12.851
138 Methyl Acetate	0.17563	0.16572	0.15904	0.14805	0.14043	0.15777	8.845
139 Methylcyclohexane	0.53261	0.48546	0.47562	0.48004	0.47253	0.48925	5.052

\$ 4 1,2-Dichloroethane-d4	0.36305	0.36383	0.35307	0.33686	0.33838	0.35104	3.696
\$ 5 Toluene-d8	1.08320	1.08705	1.05086	1.04891	0.99353	1.05271	3.564
\$ 6 Bromofluorobenzene	0.91426	0.85221	0.82297	0.82810	0.83745	0.85100	4.356
\$ 7 Dibromofluoromethane	0.62211	0.60886	0.56695	0.54418	0.49521	0.56746	9.013

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022
 Lab File ID: BFB498X BFB Injection Date: 08/08/00
 Instrument ID: A3I503 BFB Injection Time: 0959
 Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120.0% of mass 95	79.0
175	5.0 - 9.0% of mass 174	6.1 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.2 (97.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.9)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-A9CC	VOX3625	08/08/00	1012
02	VSTD050	250NG-CC	VOX3626	08/08/00	1039
03	DHJLN-CHK	DHJLN102	VOX3627	08/08/00	1109
04	DHJLN-CKDUP	DHJLN103	VOX3628	08/08/00	1140
05	DHJLN-BLK	DHJLN101	VOX3629	08/08/00	1210
06	MPT-55-SS-01	DH9GA101	VOX3636	08/08/00	1543
07	MPT-55-SS-02	DH9HM101	VOX3637	08/08/00	1613
08	MPT-55-SS-03	DH9HV101	VOX3638	08/08/00	1644
09	MPT-55-SS-05	DH9LH101	VOX3640	08/08/00	1744
10	MPT-55-SS-06	DH9M9101	VOX3641	08/08/00	1814
11	MPT-55-SS-07	DH9MH101	VOX3642	08/08/00	1845
12	MPT-55-SS-08	DH9MJ101	VOX3643	08/08/00	1915
13	MPT-55-SD-01	DH9MK101	VOX3644	08/08/00	1945
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 08-AUG-2000 10:39
 Lab File ID: VOX3626.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00808A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	XD / XDRIFT	XD / XDRIFT		
\$ 4 1,2-Dichloroethane-d4	0.35104	0.42489	0.010		-21.0	50.0	Averaged
\$ 5 Toluene-d8	1.05271	1.14897	0.010		-9.1	50.0	Averaged
\$ 6 Bromofluorobenzene	0.85100	0.95723	0.010		-12.5	50.0	Averaged
\$ 7 Dibromofluoromethane	0.56746	0.66393	0.010		-17.0	50.0	Averaged
8 Dichlorodifluoromethane	0.23868	0.22170	0.010		7.1	50.0	Averaged
9 Chloromethane	0.20783	0.18947	0.100		8.8	50.0	Averaged
10 Vinyl Chloride	0.21789	0.19698	0.010		9.6	20.0	Averaged
11 Bromomethane	0.19965	0.19065	0.010		4.5	50.0	Averaged
12 Chloroethane	0.12041	0.12943	0.010		-7.5	50.0	Averaged
13 Trichlorofluoromethane	0.50305	0.65241	0.010		-29.7	50.0	Averaged
14 Acrolein	0.01271	0.01295	0.010		-1.8	50.0	Averaged
16 1,1-Dichloroethene	0.26182	0.30229	0.050		-15.5	20.0	Averaged
15 Acetone	0.06467	0.07985	0.010		-23.5	50.0	Averaged
54 Freon-113	0.43284	0.44147	0.010		-2.0	50.0	Averaged
56 Iodomethane	0.86803	0.81541	0.010		6.1	50.0	Averaged
18 Carbon Disulfide	0.82774	0.84415	0.010		-2.0	50.0	Averaged
55 Acetonitrile	0.00829	0.00854	0.010		-2.9	50.0	Averaged
17 Methylene Chloride	0.29565	0.30187	0.010		-2.1	50.0	Averaged
19 Acrylonitrile	0.03690	0.03813	0.010		-3.3	50.0	Averaged
78 Methyl tert-butyl ether	0.59008	0.65186	0.010		-10.5	50.0	Averaged
84 Hexane	0.36266	0.31470	0.010		13.2	50.0	Averaged
21 Vinyl acetate	0.38282	0.21882	0.010		42.8	50.0	Averaged
22 1,1-Dichloroethane	0.59194	0.60014	0.100		-1.4	50.0	Averaged
23 2-Butanone	0.10366	0.10520	0.010		-1.5	50.0	Averaged
20 trans-1,2-Dichloroethene	0.31978	0.33928	0.010		-6.1	50.0	Averaged
24 cis-1,2-dichloroethene	0.33420	0.34173	0.010		-2.3	50.0	Averaged
M 25 1,2-Dichloroethene (total)	0.32699	0.34050	0.010		-4.1	50.0	Averaged
86 2,2-Dichloropropane	0.50035	0.55560	0.010		-11.0	50.0	Averaged
111 Bromochloromethane	0.22178	0.22753	0.010		-2.6	50.0	Averaged
79 Tetrahydrofuran	0.06340	0.06077	0.010		4.2	50.0	Averaged
26 Chloroform	0.68171	0.71348	0.010		-4.7	20.0	Averaged
27 1,1,1-Trichloroethane	0.61346	0.69059	0.010		-12.6	50.0	Averaged
87 1,1-Dichloropropene	0.46541	0.47552	0.010		-2.2	50.0	Averaged
28 Carbon Tetrachloride	0.62424	0.70093	0.010		-12.3	50.0	Averaged
29 1,2-Dichloroethane	0.40293	0.46057	0.010		-14.3	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a31503.i Injection Date: 08-AUG-2000 10:39
 Lab File ID: VOX3626.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 25ONG-CC Quant Type: ISTD
 Method: /chem/can/msv/a31503.i/X00808A.b/8260S503-3.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RF250	RRF	XD / XDRIFT		
30 Benzene	0.86154	0.85554	0.010	0.7	50.0	Averaged
31 Trichloroethene	0.44177	0.48082	0.010	-8.8	50.0	Averaged
32 1,2-Dichloropropane	0.38258	0.38025	0.010	0.6	20.0	Averaged
63 1,4-Dioxane	0.00213	0.00197	0.010	7.3	50.0	Averaged
64 Dibromomethane	0.33060	0.35557	0.010	-7.6	50.0	Averaged
33 Bromodichloromethane	0.73015	0.77423	0.010	-6.0	50.0	Averaged
34 2-Chloroethyl vinyl ether	0.14942	0.16423	0.010	-9.9	50.0	Averaged
36 cis-1,3-Dichloropropane	0.54466	0.54543	0.010	-0.1	50.0	Averaged
35 4-Methyl-2-pentanone	0.25953	0.28355	0.010	-9.3	50.0	Averaged
37 Toluene	1.17721	1.12422	0.010	4.5	20.0	Averaged
38 trans-1,3-Dichloropropane	0.52596	0.50082	0.010	4.8	50.0	Averaged
65 Ethyl Methacrylate	0.44606	0.43550	0.010	2.4	50.0	Averaged
40 1,1,2-Trichloroethane	0.39987	0.39234	0.010	1.9	50.0	Averaged
88 1,3-Dichloropropane	0.61670	0.60584	0.010	1.8	50.0	Averaged
41 Tetrachloroethene	0.50779	0.51611	0.010	-1.6	50.0	Averaged
39 2-Hexanone	0.22249	0.23529	0.010	-5.8	50.0	Averaged
42 Dibromochloromethane	0.78622	0.81595	0.010	-3.8	50.0	Averaged
66 1,2-Dibromoethane	0.59555	0.58095	0.010	2.5	50.0	Averaged
43 Chlorobenzene	1.02743	1.01523	0.300	1.2	50.0	Averaged
44 Ethylbenzene	0.45868	0.45472	0.010	0.9	20.0	Averaged
45 m + p-Xylene	0.57166	0.58299	0.010	-2.0	50.0	Averaged
46 Xylene-o	0.57167	0.58975	0.010	-3.2	50.0	Averaged
M 47 Xylenes (total)	0.57160	0.58524	0.010	-2.4	50.0	Averaged
48 Styrene	0.94312	0.96418	0.010	-2.2	50.0	Averaged
49 Bromoform	0.58264	0.62784	0.100	-7.8	50.0	Averaged
89 Isopropylbenzene	1.64637	1.71284	0.010	-4.0	50.0	Averaged
50 1,1,2,2-Tetrachloroethane	1.04070	0.90967	0.300	12.6	50.0	Averaged
90 Bromobenzene	0.96150	0.94505	0.010	1.7	50.0	Averaged
68 1,2,3-Trichloropropane	0.92142	0.88553	0.010	3.9	50.0	Averaged
69 1,4-Dichloro-2-butene	0.19689	0.16222	0.010	17.6	50.0	Averaged
92 n-Propylbenzene	0.70354	0.66666	0.010	5.2	50.0	Averaged
91 2-Chlorotoluene	0.70197	0.65806	0.010	6.3	50.0	Averaged
94 1,3,5-Trimethylbenzene	2.05162	2.02508	0.010	1.3	50.0	Averaged
93 4-Chlorotoluene	0.71221	0.67459	0.010	5.3	50.0	Averaged
95 tert-Butylbenzene	2.38643	2.31703	0.010	2.9	50.0	Averaged
96 1,2,4-Trimethylbenzene	2.15394	2.11059	0.010	2.0	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 08-AUG-2000 10:39
 Lab File ID: VOX3626.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00808A.b/8260S503-3.m

COMPOUND	MIN		MAX		CURVE TYPE	
	RRF / AMOUNT	RF250	RRF	SD / XDRIFT		
97 sec-Butylbenzene	3.09030	2.97014	0.010	3.9	50.0	Averaged
51 1,3-Dichlorobenzene	1.56900	1.50767	0.010	3.9	50.0	Averaged
52 1,4-Dichlorobenzene	1.65990	1.55194	0.010	6.5	50.0	Averaged
53 1,2-Dichlorobenzene	1.43569	1.41738	0.010	1.3	50.0	Averaged
98 4-Isopropyltoluene	2.43309	2.33256	0.010	4.1	50.0	Averaged
99 n-Butylbenzene	2.28817	2.25937	0.010	1.3	50.0	Averaged
137 1,3,5-Trichlorobenzene	1.37064	1.26684	0.010	7.6	50.0	Averaged
100 1,2,4-Trichlorobenzene	1.11392	1.14521	0.010	-2.8	50.0	Averaged
102 Hexachlorobutadiene	0.83424	0.85362	0.010	-2.3	50.0	Averaged
101 Naphthalene	1.70585	1.36376	0.010	20.1	50.0	Averaged
103 1,2,3-Trichlorobenzene	1.07417	1.05178	0.010	2.1	50.0	Averaged
82 tert-Butyl Alcohol	0.01763	0.01717	0.010	2.6	50.0	Averaged
138 Methyl Acetate	0.15777	0.15682	0.010	0.6	50.0	Averaged
139 Methylcyclohexane	0.48925	0.44143	0.010	9.8	50.0	Averaged
83 Cyclohexane	0.46433	0.39625	0.010	14.7	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.1 Injection Date: 08-AUG-2000 10:12
 Lab File ID: VOX3625.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00808A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	XD / XDRIFT	XD / XDRIFT		
57 3-Chloropropene	0.12919	0.13305	0.010	-3.0	50.0	Averaged	
58 2-Chloro-1,3-butadiene	0.43370	0.49980	0.010	-15.2	50.0	Averaged	
59 Propionitrile	0.01368	0.01470	0.010	-7.5	50.0	Averaged	
60 Methacrylonitrile	0.10318	0.09796	0.010	5.1	50.0	Averaged	
61 Isobutanol	0.00739	0.00751	0.010	-1.7	50.0	Averaged	<-
62 Methyl Methacrylate	0.24051	0.24379	0.010	-1.4	50.0	Averaged	
67 1,1,1,2-Tetrachloroethane	0.59605	0.62782	0.010	-5.3	50.0	Averaged	
72 1,2-Dibromo-3-chloropropane	0.28221	0.20144	0.010	28.6	50.0	Averaged	
74 n-Butanol	0.00482	0.00471	0.010	2.4	50.0	Averaged	<-
75 Ethyl Acetate	0.22550	0.21880	0.010	3.0	50.0	Averaged	
76 Cyclohexanone	0.02138	0.02177	0.010	-1.8	50.0	Averaged	
77 Ethyl Ether	0.16644	0.18040	0.010	-8.4	50.0	Averaged	
80 Dichlorofluoromethane	0.66181	0.78765	0.010	-19.0	50.0	Averaged	
81 2-Nitropropane	0.06054	0.02307	0.010	61.9	50.0	Averaged	<-
85 Isopropyl Ether	1.06628	1.21579	0.010	-14.0	50.0	Averaged	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

Lab File ID: BFB501X BFB Injection Date: 08/10/00

Instrument ID: A3I503 BFB Injection Time: 0704

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.0
175	5.0 - 9.0% of mass 174	5.6 (7.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	78.3 (97.8)1
177	5.0 - 9.0% of mass 176	5.0 (6.4)2

1-Value is % of mass 174

2-Value is % of mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-A9CC	VOX3700	08/10/00	0716
02	VSTD050	250NG-CC	VOX3701	08/10/00	0744
03	DHNRW-CHK	DHNRW102	VOX3702	08/10/00	0814
04	DHNRW-CKDUP	DHNRW103	VOX3703	08/10/00	0855
05	DHNRW-BLK	DHNRW101	VOX3704	08/10/00	0925
06	MPT-55-SS-04	DH9J2101	VOX3705	08/10/00	0956
07	MPT-55-SD-02	DHD3R102	VOX3706	08/10/00	1026
08	MPT-55-SD-03	DHD48102	VOX3707	08/10/00	1057
09	MPT-55-SS-09	DHD49102	VOX3708	08/10/00	1127
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SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 10-AUG-2000 07:16
 Lab File ID: VOX3700.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-A9CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00810A.b/8260S503-3.m

COMPOUND	RF250		MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF250	RRF	XD / XDRIFT	XD / XDRIFT	
57 3-Chloropropene	0.12919	0.11432	0.010	11.5	50.0	Averaged
58 2-Chloro-1,3-butadiene	0.43370	0.46908	0.010	-8.2	50.0	Averaged
59 Propionitrile	0.01368	0.01132	0.010	17.3	50.0	Averaged
60 Methacrylonitrile	0.10318	0.09622	0.010	6.7	50.0	Averaged
61 Isobutanol	0.00739	0.00760	0.010	-2.8	50.0	Averaged
62 Methyl Methacrylate	0.24051	0.24565	0.010	-2.1	50.0	Averaged
67 1,1,1,2-Tetrachloroethane	0.59605	0.59204	0.010	0.7	50.0	Averaged
72 1,2-Dibromo-3-chloropropane	0.28221	0.27417	0.010	2.8	50.0	Averaged
74 n-Butanol	0.00482	0.00458	0.010	5.0	50.0	Averaged
75 Ethyl Acetate	0.22550	0.22182	0.010	1.6	50.0	Averaged
76 Cyclohexanone	0.02138	0.02295	0.010	-7.3	50.0	Averaged
77 Ethyl Ether	0.16644	0.16204	0.010	2.6	50.0	Averaged
80 Dichlorofluoromethane	0.66181	0.74102	0.010	-12.0	50.0	Averaged
81 2-Nitropropane	0.06054	0.06060	0.010	-0.1	50.0	Averaged
85 Isopropyl Ether	1.06628	1.12755	0.010	-5.7	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a31503.1 Injection Date: 10-AUG-2000 07:44
 Lab File ID: VOX3701.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a31503.1/X00810A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	XD / XDRIFT	MAX XD / XDRIFT	CURVE TYPE
\$ 4 1,2-Dichloroethane-d4	0.35104	0.38884	0.010	-10.8	50.0	Averaged
\$ 5 Toluene-d8	1.05271	1.12677	0.010	-7.0	50.0	Averaged
\$ 6 Bromofluorobenzene	0.85100	0.89641	0.010	-5.3	50.0	Averaged
\$ 7 Dibromofluoromethane	0.56746	0.63884	0.010	-12.6	50.0	Averaged
8 Dichlorodifluoromethane	0.23868	0.31651	0.010	-32.6	50.0	Averaged
9 Chloromethane	0.20783	0.24180	0.100	-16.3	50.0	Averaged
10 Vinyl Chloride	0.21789	0.23739	0.010	-8.9	20.0	Averaged
11 Bromomethane	0.19965	0.20248	0.010	-1.4	50.0	Averaged
12 Chloroethane	0.12041	0.12689	0.010	-5.4	50.0	Averaged
13 Trichlorofluoromethane	0.50305	0.65408	0.010	-30.0	50.0	Averaged
14 Acrolein	0.01271	0.01177	0.010	7.4	50.0	Averaged
16 1,1-Dichloroethene	0.26182	0.29187	0.050	-11.5	20.0	Averaged
15 Acetone	0.06467	0.06576	0.010	-1.7	50.0	Averaged
54 Fraon-113	0.43284	0.47422	0.010	-9.6	50.0	Averaged
56 Iodomethane	0.86803	0.91776	0.010	-5.7	50.0	Averaged
18 Carbon Disulfide	0.82774	0.82648	0.010	0.2	50.0	Averaged
55 Acetonitrile	0.00829	0.00737	0.010	11.1	50.0	Averaged
17 Methylene Chloride	0.29565	0.29256	0.010	1.0	50.0	Averaged
19 Acrylonitrile	0.03690	0.03616	0.010	2.0	50.0	Averaged
78 Methyl tert-butyl ether	0.59008	0.60630	0.010	-2.7	50.0	Averaged
84 Hexane	0.36266	0.32717	0.010	9.8	50.0	Averaged
21 Vinyl acetate	0.38282	0.29710	0.010	22.4	50.0	Averaged
22 1,1-Dichloroethane	0.59194	0.58724	0.100	0.8	50.0	Averaged
23 2-Butanone	0.10366	0.09660	0.010	6.8	50.0	Averaged
20 trans-1,2-Dichloroethene	0.31978	0.33457	0.010	-4.6	50.0	Averaged
24 cis-1,2-dichloroethene	0.33420	0.33973	0.010	-1.7	50.0	Averaged
M 25 1,2-Dichloroethene (total)	0.32699	0.33715	0.010	-3.1	50.0	Averaged
86 2,2-Dichloropropane	0.50035	0.53193	0.010	-6.3	50.0	Averaged
111 Bromochloromethane	0.22178	0.22103	0.010	0.3	50.0	Averaged
79 Tetrahydrofuran	0.06340	0.05469	0.010	13.7	50.0	Averaged
26 Chloroform	0.68171	0.70305	0.010	-3.1	20.0	Averaged
27 1,1,1-Trichloroethane	0.61346	0.67410	0.010	-9.9	50.0	Averaged
87 1,1-Dichloropropene	0.46541	0.47588	0.010	-2.2	50.0	Averaged
28 Carbon Tetrachloride	0.62424	0.69534	0.010	-11.4	50.0	Averaged
29 1,2-Dichloroethane	0.40293	0.44066	0.010	-9.4	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a31503.i Injection Date: 10-AUG-2000 07:44
 Lab File ID: VOX3701.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a31503.i/X00810A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
30 Benzene	0.86154	0.85112	0.010	1.2	50.0	Averaged
31 Trichloroethene	0.44177	0.45289	0.010	-2.5	50.0	Averaged
32 1,2-Dichloropropane	0.38258	0.36834	0.010	3.7	20.0	Averaged
63 1,4-Dioxane	0.00213	0.00189	0.010	11.2	50.0	Averaged
64 Dibromomethane	0.33060	0.34691	0.010	-4.9	50.0	Averaged
33 Bromodichloromethane	0.73015	0.76476	0.010	-4.7	50.0	Averaged
34 2-Chloroethyl vinyl ether	0.14942	0.14112	0.010	5.6	50.0	Averaged
36 cis-1,3-Dichloropropene	0.54466	0.51582	0.010	5.3	50.0	Averaged
35 4-Methyl-2-pentanone	0.25953	0.26930	0.010	-3.8	50.0	Averaged
37 Toluene	1.17721	1.12979	0.010	4.0	20.0	Averaged
38 trans-1,3-Dichloropropene	0.52596	0.49010	0.010	6.8	50.0	Averaged
65 Ethyl Methacrylate	0.44606	0.41243	0.010	7.5	50.0	Averaged
40 1,1,2-Trichloroethane	0.39987	0.38095	0.010	4.7	50.0	Averaged
88 1,3-Dichloropropane	0.61670	0.58539	0.010	5.1	50.0	Averaged
41 Tetrachloroethene	0.50779	0.50719	0.010	0.1	50.0	Averaged
39 2-Hexanone	0.22249	0.21034	0.010	5.5	50.0	Averaged
42 Dibromochloromethane	0.78622	0.79744	0.010	-1.4	50.0	Averaged
66 1,2-Dibromoethane	0.59555	0.56907	0.010	4.4	50.0	Averaged
43 Chlorobenzene	1.02743	0.99470	0.300	3.2	50.0	Averaged
44 Ethylbenzene	0.45868	0.44552	0.010	2.9	20.0	Averaged
45 m + p-Xylene	0.57166	0.56794	0.010	0.7	50.0	Averaged
46 Xylene-o	0.57147	0.57020	0.010	0.2	50.0	Averaged
M 47 Xylenes (total)	0.57160	0.56869	0.010	0.5	50.0	Averaged
48 Styrene	0.94312	0.91427	0.010	3.1	50.0	Averaged
49 Bromoform	0.58264	0.59670	0.100	-2.4	50.0	Averaged
89 Isopropylbenzene	1.64637	1.65102	0.010	-0.3	50.0	Averaged
50 1,1,2,2-Tetrachloroethane	1.04070	1.01718	0.300	2.3	50.0	Averaged
90 Bromobenzene	0.96150	0.94364	0.010	1.9	50.0	Averaged
68 1,2,3-Trichloropropane	0.92142	0.88744	0.010	3.7	50.0	Averaged
69 1,4-Dichloro-2-butene	0.19689	0.16419	0.010	16.6	50.0	Averaged
92 n-Propylbenzene	0.70354	0.66627	0.010	5.3	50.0	Averaged
91 2-Chlorotoluene	0.70197	0.66279	0.010	5.6	50.0	Averaged
94 1,3,5-Trimethylbenzene	2.05162	2.02160	0.010	1.5	50.0	Averaged
93 4-Chlorotoluene	0.71221	0.65252	0.010	8.4	50.0	Averaged
95 tert-Butylbenzene	2.38643	2.33493	0.010	2.2	50.0	Averaged
96 1,2,4-Trimethylbenzene	2.15394	2.09699	0.010	2.6	50.0	Averaged

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3i503.i Injection Date: 10-AUG-2000 07:44
 Lab File ID: VOX3701.d Init. Cal. Date(s): 01-AUG-2000 01-AUG-2000
 Analysis Type: SOIL Init. Cal. Times: 08:26 12:59
 Lab Sample ID: 250NG-CC Quant Type: ISTD
 Method: /chem/can/msv/a3i503.i/X00810A.b/8260S503-3.m

COMPOUND	RRF / AMOUNT	RF250	MIN		MAX		CURVE TYPE
			RRF	SD / XDRIFT	SD / XDRIFT		
97 sec-Butylbenzene	3.09030	2.99706	0.010		3.0	50.0	Averaged
51 1,3-Dichlorobenzene	1.56900	1.48347	0.010		5.5	50.0	Averaged
52 1,4-Dichlorobenzene	1.65990	1.51317	0.010		8.8	50.0	Averaged
53 1,2-Dichlorobenzene	1.43569	1.40054	0.010		2.4	50.0	Averaged
98 4-Isopropyltoluene	2.43309	2.31396	0.010		4.9	50.0	Averaged
99 n-Butylbenzene	2.28817	2.17481	0.010		5.0	50.0	Averaged
137 1,3,5-Trichlorobenzene	1.37064	1.25124	0.010		8.7	50.0	Averaged
100 1,2,4-Trichlorobenzene	1.11392	1.03851	0.010		6.8	50.0	Averaged
102 Hexachlorobutadiene	0.83424	0.79401	0.010		4.8	50.0	Averaged
101 Naphthalene	1.70585	1.31833	0.010		22.7	50.0	Averaged
103 1,2,3-Trichlorobenzene	1.07417	0.93434	0.010		13.0	50.0	Averaged
82 tert-Butyl Alcohol	0.01763	0.01816	0.010		-3.0	50.0	Averaged
138 Methyl Acetate	0.15777	0.16151	0.010		-2.4	50.0	Averaged
139 Methylcyclohexane	0.48925	0.45523	0.010		7.0	50.0	Averaged
83 Cyclohexane	0.46433	0.41876	0.010		9.8	50.0	Averaged

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DHNRW101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number: MP022

Lab File ID: VOX3704.d

Lot Number: AOH040127

Date Analyzed: 08/10/00

Time Analyzed: 09:25

Matrix: SOLID

Date Extracted: 08/10/00

GC Column: DB 624 ID: .75

Extraction Method: 5035

Instrument ID: 503

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MPT-55-SD-02-01	DHD3R102	VOX3706.d	08/10/00	10:26
02	MPT-55-SD-03-01	DHD48102	VOX3707.d	08/10/00	10:57
03	MPT-55-SS-09-01	DHD49102	VOX3708.d	08/10/00	11:27
04	CHECK SAMPLE	DHNRW102 C	VOX3702.d	08/10/00	08:14
05	DUPLICATE CHECK	DHNRW103 L	VOX3703.d	08/10/00	08:55
06					
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30					

COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DHNRW101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:MP022

Lab File ID: VOX3704.d

Lot Number: AOH030175

Date Analyzed: 08/10/00

Time Analyzed: 09:25

Matrix: SOLID

Date Extracted:08/10/00

GC Column: DB 624 ID: .75

Extraction Method: 5035

Instrument ID: 503

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CHECK SAMPLE	DHNRW102 C	VOX3702.d	08/10/00	08:14
02	DUPLICATE CHECK	DHNRW103 L	VOX3703.d	08/10/00	08:55
03	MPT-55-SS-04-01	DH9J2101	VOX3705.d	08/10/00	09:56
04					
05					
06					
07					
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09					
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11					
12					
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30					

COMMENTS:

FORM IV

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP022

Lot #: AOH110000

WO #: DHNRW102

BATCH: 0224103

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	‡ REC	QC LIMITS REC	QUAL
Bromomethane	50	48	96	10 - 242	
Vinyl chloride	50	46	93	41 - 138	
Chloroethane	50	54	108	82 - 114	
Chloromethane	50	45	90	10 - 273	
Methylene chloride	50	51	101	10 - 221	
Acetone	50	65	129*	80 - 120	a
Carbon disulfide	50	48	96	81 - 125	
1,1-Dichloroethene	50	53	106	55 - 142	
1,1-Dichloroethane	50	52	103	59 - 155	
1,2-Dichloroethene (total)	100	98	98	50 - 150	
Chloroform	50	54	107	77 - 126	
1,2-Dichloroethane	50	54	108	76 - 127	
2-Butanone (MEK)	50	60	119	20 - 155	
1,1,1-Trichloroethane	50	55	110	52 - 162	
Carbon tetrachloride	50	56	112	66 - 141	
Bromodichloromethane	50	52	104	35 - 155	
1,2-Dichloropropane	50	48	95	10 - 210	
cis-1,3-Dichloropropene	50	50	99	10 - 227	
Trichloroethene	50	52	103	70 - 131	
Dibromochloromethane	50	51	102	53 - 149	
1,1,2-Trichloroethane	50	49	98	52 - 150	
Benzene	50	49	98	75 - 129	
trans-1,3-Dichloropropene	50	49	99	17 - 183	
Bromoform	50	53	106	45 - 169	
4-Methyl-2-pentanone (MIB)	50	53	106	90 - 125	
2-Hexanone	50	59	118	87 - 129	
Tetrachloroethene	50	52	103	68 - 136	
1,1,2,2-Tetrachloroethane	50	52	104	46 - 157	
Toluene	50	48	96	71 - 130	
Chlorobenzene	50	49	98	75 - 127	
Ethylbenzene	50	48	96	37 - 162	

(Continued on next page)

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP022

Lot #: AOH110000

WO #: DHNRW102

BATCH: 0224103

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	‡ REC	QC LIMITS REC	QUAL
Styrene	50	47	93	79 - 100	
Xylenes (total)	150	150	98	83 - 129	
cis-1,2-Dichloroethene	50	49	98	50 - 150	
trans-1,2-Dichloroethene	50	49	97	54 - 156	
n-Hexane	50	51	102	98 - 117	

NOTES (S) :

* Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 36 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP022

Lot #: AOH110000

WO #: DHNRW103

BATCH: 0224103

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Chloromethane	50	45	90	10 - 273	
Bromomethane	50	49	98	10 - 242	
Vinyl chloride	50	46	91	41 - 138	
Chloroethane	50	55	109	82 - 114	
Methylene chloride	50	50	100	10 - 221	
Acetone	50	58	117	80 - 120	
Carbon disulfide	50	47	93	81 - 125	
1,1-Dichloroethene	50	52	105	55 - 142	
1,1-Dichloroethane	50	51	102	59 - 155	
1,2-Dichloroethene (total	100	95	95	50 - 150	
Chloroform	50	53	105	77 - 126	
1,2-Dichloroethane	50	53	106	76 - 127	
2-Butanone (MEK)	50	53	106	20 - 155	
1,1,1-Trichloroethane	50	54	108	52 - 162	
Carbon tetrachloride	50	54	109	66 - 141	
Bromodichloromethane	50	51	101	35 - 155	
1,2-Dichloropropane	50	47	94	10 - 210	
cis-1,3-Dichloropropene	50	48	96	10 - 227	
Trichloroethene	50	50	101	70 - 131	
Dibromochloromethane	50	49	98	53 - 149	
1,1,2-Trichloroethane	50	46	93	52 - 150	
Benzene	50	48	96	75 - 129	
trans-1,3-Dichloropropene	50	48	96	17 - 183	
Bromoform	50	49	99	45 - 169	
4-Methyl-2-pentanone (MIB	50	48	97	90 - 125	
2-Hexanone	50	53	106	87 - 129	
Tetrachloroethene	50	50	100	68 - 136	
1,1,2,2-Tetrachloroethane	50	46	92	46 - 157	
Toluene	50	47	94	71 - 130	
Chlorobenzene	50	48	96	75 - 127	
Ethylbenzene	50	47	94	37 - 162	

(Continued on next page)

SWS46 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: TETRA TECH NUS, INC.

Lab Code: QESCAN

SDG No: MP022

Lot #: AOH110000

WO #: DHNRW103

BATCH: 0224103

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Styrene	50	46	91	79 - 100	
Xylenes (total)	150	140	95	83 - 129	
cis-1,2-Dichloroethene	50	48	95	50 - 150	
trans-1,2-Dichloroethene	50	48	95	54 - 156	
n-Hexane	50	48	96*	98 - 117	a

NOTES (S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 36 outside limits

COMMENTS:

FORM III

CLIENT NS Mayport		JOB NUMBER	
SUBJECT Sample Calc			
BASED ON MPT-55-SS-09-01 (DHD49102)		DRAWING NUMBER	
BY DSS	CHECKED BY	APPROVED BY	DATE 10/12/00

Fraction: Volatile

Matrix: Soil

Compound: Acetone

Form I: 8.8 ug/kg

$$\text{ug/kg} = \frac{A_x (I_s)(Df)}{A_{is} (RRF)(W_s)(D)}$$

$$= \frac{988 \text{ Area} (250 \text{ ng})(1)}{103119 \text{ Area} (0.06467)(4.9 \text{ g})(0.86)}$$

$A_x = 988 \text{ Area}$

$I_s = 250 \text{ ng}$

$$= 8.78 \text{ ng/g}$$

$Df = 1$

$$= 8.78 \text{ ug/kg}$$

$A_{is} = 103119 \text{ Area}$

$RRF = 0.06467$

$W_s = 4.9 \text{ g}$

$D = 0.86$

SEVERN TRENT LABORATORIES, INC. - NORTH CANTON

VOLATILE REPORT SW-846 Method

Data file : /chem/can/msv/a3i503.i/X00810A.b/VOX3708.d
 Lab Smp Id: DHD49102 Client Smp ID: MPT-55-SS-09-01
 Inj Date : 10-AUG-2000 11:27
 Operator : 01819 Inst ID: a3i503.i
 Smp Info : DHD49102,,4.9G/5ML
 Misc Info : INCOS50-3,X00810A,8260S503-3,01819
 Comment :
 Method : /chem/can/msv/a3i503.i/X00810A.b/8260S503-3.m
 Meth Date : 11-Aug-2000 05:44 kardohe Quant Type: ISTD
 Cal Date : 01-AUG-2000 12:01 Cal File: VOX3472.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-8260+A9.sub
 Target Version: 3.50
 Processing Host: hpuxcs3

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	4.90000	Sample Volume
Va	100.00000	Amount of extract

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	8.341	8.327	(1.000)	103119	250.000		
* 2 Chlorobenzene-d5	117	13.864	13.864	(1.000)	88097	250.000		
* 3 1,4-Dichlorobenzene-d4	152	18.986	18.972	(1.000)	47884	250.000		
\$ 4 1,2-Dichloroethane-d4	65	7.826	7.798	(0.938)	38887	268.565	54.809	
\$ 5 Toluene-d8	98	11.074	11.060	(0.799)	101659	274.042	55.927	
\$ 6 Bromofluorobenzene	95	16.396	16.382	(1.183)	70792	236.067	48.177	
\$ 7 Dibromofluoromethane	113	7.297	7.283	(0.875)	68117	291.019	59.392	
8 Dichlorodifluoromethane	85						Compound Not Detected.	
9 Chloromethane	50						Compound Not Detected.	
10 Vinyl Chloride	62						Compound Not Detected.	
11 Bromomethane	94						Compound Not Detected.	
12 Chloroethane	64						Compound Not Detected.	
13 Trichlorofluoromethane	101						Compound Not Detected.	
14 Acrolein	56						Compound Not Detected.	
16 1,1-Dichloroethene	96						Compound Not Detected.	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/KG)
15 Acetone	43	4.307	4.278	(0.516)	988	37.0389	7.559
54 Freon-113	151	Compound Not Detected.					
56 Iodomethane	142	Compound Not Detected.					
18 Carbon Disulfide	76	Compound Not Detected.					
55 Acetonitrile	41	Compound Not Detected.					
17 Methylene Chloride	84	4.865	4.836	(0.583)	478	3.91967	0.7999
19 Acrylonitrile	53	Compound Not Detected.					
78 Methyl tert-butyl ether	73	Compound Not Detected.					
84 Hexane	57	Compound Not Detected.					
21 Vinyl acetate	43	Compound Not Detected.					
22 1,1-Dichloroethane	63	Compound Not Detected.					
23 2-Butanone	43	Compound Not Detected.					
20 trans-1,2-Dichloroethene	96	Compound Not Detected.					
24 cis-1,2-dichloroethene	96	Compound Not Detected.					
M 25 1,2-Dichloroethene (total)	96	Compound Not Detected.					
86 2,2-Dichloropropane	77	Compound Not Detected.					
111 Bromochloromethane	128	Compound Not Detected.					
79 Tetrahydrofuran	42	Compound Not Detected.					
26 Chloroform	83	Compound Not Detected.					
27 1,1,1-Trichloroethane	97	Compound Not Detected.					
87 1,1-Dichloropropene	75	Compound Not Detected.					
28 Carbon Tetrachloride	117	Compound Not Detected.					
29 1,2-Dichloroethane	62	Compound Not Detected.					
30 Benzene	78	Compound Not Detected.					
31 Trichloroethene	130	Compound Not Detected.					
32 1,2-Dichloropropane	63	Compound Not Detected.					
63 1,4-Dioxane	88	Compound Not Detected.					
64 Dibromomethane	93	Compound Not Detected.					
33 Bromodichloromethane	83	Compound Not Detected.					
34 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
36 cis-1,3-Dichloropropene	75	Compound Not Detected.					
35 4-Methyl-2-pentanone	43	Compound Not Detected.					
37 Toluene	91	11.188	11.174	(0.807)	1174	2.83005	0.5776
38 trans-1,3-Dichloropropene	75	Compound Not Detected.					
65 Ethyl Methacrylate	69	Compound Not Detected.					
40 1,1,2-Trichloroethane	97	Compound Not Detected.					
88 1,3-Dichloropropane	76	Compound Not Detected.					
41 Tetrachloroethene	164	Compound Not Detected.					
39 2-Hexanone	43	Compound Not Detected.					
42 Dibromochloromethane	129	Compound Not Detected.					
66 1,2-Dibromoethane	107	Compound Not Detected.					
43 Chlorobenzene	112	Compound Not Detected.					
44 Ethylbenzene	106	Compound Not Detected.					
45 m + p-Xylene	106	Compound Not Detected.					
46 Xylene-o	106	Compound Not Detected.					
M 47 Xylenes (total)	106	Compound Not Detected.					
48 Styrene	104	Compound Not Detected.					

503
Batch # 49 0224103

STL-NORTH CANTON
GC/MS VOA Run Log

011

Column Type: <u>DB624</u> <u>4P</u> Length <u>75 M</u> I.D. <u>0.53 mm</u> Flow Rate <u>1.5 ml/min</u>	BFB <u>100</u> C for <u>0.1</u> min to <u>200</u> C @ <u>20</u> C/min Hold <u> </u> min	Analysis <u>40</u> C for <u>2</u> min to <u>220</u> C @ <u>20</u> C/min to <u>230</u> C @ <u>30</u> C/min Hold <u> </u> min	Purge & Trap Trap: <u>10</u> Purge: <u>11</u> Desorb: <u>2</u> min @ <u>190</u> C Bake: <u>6</u> min @ <u>210</u> C
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Auto num	Sample ID Workorder #	Method	File Name	Amt purged	Sample prep	Comments	Sample status	Level: 2 Review
	BFB		BF6501X	50 ng	direct injection	(7:04)	OK	<i>R</i>
1	A11111		VOX3700	250 ng		00801X-19	OK	
2	8260std		VOX3701	250 ng		00801X	OK	
3	check	/	VOX3702	250 ng	identical	102	OK	
4	check	/	VOX3703	250 ng		103	OK	
5	blank	/	VOX3704	5.0 g	identical	101	OK	
6	dHdJ2-101	/	VOX3705	3.8 g			OK	
7	dHdJ2-102	/	VOX3706	5.1 g			OK	
8	dHd48-102	/	VOX3707	4.9 g			OK	
9	dHd49-102	/	VOX3708	4.9 g			OK	
10	dHdFV-10F	/	VOX3709	5.9 g		ISL (x2)	OK	
11	dHdG1-10F	/	VOX3710	6.2 g			OK	
12	dHd97-101	/	VOX3711	5.0 g			OK	
13	dHd98-101	/	VOX3712	5.0 g			OK	
14	dHd99-101	/	VOX3713	5.0 g			OK	
15	dHd9W-101	/	VOX3714	5.0 g			OK	
16	dHdA1-101	/	VOX3715	5.0 g			OK	
17	102	/	VOX3716	5.0 g	+250 ng		OK	
18	103	/	VOX3717	5.0 g	+250 ng		OK	
19	dHd9W-101	/	VOX3718	5.0 g		not needed		
20	dHd9R-101	/	VOX3719	5.0 g				
21	dHd9P-101	/	VOX3720	5.0 g				
22	dHd97-101	/	VOX3721	5.0 g				
008115L								

50175
40127
10169
70133

Analyst: JK

No 083

N:\MSVOA\503 run log

SDG NARRATIVE

MP022

GC/MS SEMIVOLATILES

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP022

Lab File ID: 9DF0807B

DFTPP Injection Date: 08/07/00

Instrument ID: A4HP9

DFTPP Injection Time: 0938

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.8 (1.4)1
69	Mass 69 relative abundance	58.9
70	Less than 2.0% of mass 69	0.6 (1.0)1
127	40.0 - 60.0% of mass 198	59.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	16.8
365	Greater than 1.0% of mass 198	1.5
441	Present, but less than mass 443	9.3
442	Greater than 40.0% of mass 198	55.9
443	17.0 - 23.0% of mass 442	11.0 (19.7)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	9SML0807	08/07/00	1000
02	SSTD008	SSTD008	9SMO807	08/07/00	1038
03	SSTD002	SSTD002	9SL0807	08/07/00	1116
04	SSTD025	SSTD025	9HHH0807	08/07/00	1154
05	SSTD020	SSTD020	9SHH0807	08/07/00	1232
06	SSTD016	SSTD016	9SH0807	08/07/00	1311
07	SSTD012	SSTD012	9SMH0807	08/07/00	1349
08					
09					
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20					
21					
22					

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP022

Lab File ID: 9DF0808H

DFTPP Injection Date: 08/09/00

Instrument ID: A4HP9

DFTPP Injection Time: 0302

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.8
68	Less than 2.0% of mass 69	0.7 (1.2)1
69	Mass 69 relative abundance	54.8
70	Less than 2.0% of mass 69	0.5 (0.9)1
127	40.0 - 60.0% of mass 198	57.1
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 1.0% of mass 198	1.7
441	Present, but less than mass 443	10.4
442	Greater than 40.0% of mass 198	63.7
443	17.0 - 23.0% of mass 442	12.3 (19.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD002	ASTD002	9AL0808	08/09/00	0324
02	ASTD005	ASTD005	9AML0808	08/09/00	0402
03	ASTD008	ASTD008	9AM0808	08/09/00	0440
04	ASTD012	ASTD012	9AMH0808	08/09/00	0518
05	ASTD016	ASTD016	9AH0808	08/09/00	0556
06	ASTD020	ASTD020	9AHH0808	08/09/00	0635
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
 End Cal Date : 09-AUG-2000 06:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Calibration File Names:

- Level 1: \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\9AL0808.D
- Level 2: \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\9AML0808.D
- Level 3: \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\9AM0808.D
- Level 4: \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\9AMH0808.D
- Level 5: \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\9AH0808.D
- Level 6: \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\9AHH0808.D
- Level 7: \\qcanoh05\dd\chem\MSS\a4hp9.i\00807a.b\9HHH0807.D

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
198 1,4-Dioxane	0.73246 *****	0.66187	0.72177	0.73618	0.66289	0.73007	0.70754	4.989 |<-
7 N-Nitrosomorpholine	0.78150 *****	0.76819	0.75030	0.67116	0.62067	0.61059	0.70040	10.862 |<-
8 Ethyl methanesulfonate	1.47260 *****	1.47879	1.47905	1.47087	1.41533	1.38663	1.45055	2.729 |<-
9 Pyridine	1.79227 1.88502	1.75234	1.69344	1.65141	1.90766	1.78033	1.78035	5.243
10 N-Nitrosodimethylamine	1.22851 1.23188	1.26495	1.20990	1.22700	1.19798	1.15632	1.21665	2.776
11 Ethyl methacrylate	1.71207 1.50521	1.55526	1.56355	1.53986	1.50653	1.43724	1.54567	5.481
12 3-Chloropropionitrile	0.89854 0.83321	0.86787	0.84353	0.83997	0.83314	0.80797	0.84632	3.430

0.5517 (10)
 1.5456
 - 0.443

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
13 Malononitrile	2.34328 2.06615	2.19802	2.11404	2.11619	2.09355	2.01787	2.13558	4.997
14 2-Picoline	1.91465 ++++	1.91507	1.98587	2.00528	1.89193	1.88949	1.93371	2.560 <-
15 N-Nitrosomethylethylamine	0.88889 ++++	0.90934	0.92433	0.98965	0.96251	0.95855	0.93888	4.015 <-
16 Methyl methanesulfonate	0.96961 ++++	0.94721	0.87359	0.92654	0.86838	0.84501	0.90506	5.491 <-
18 1,3-Dichloro-2-propanol	2.36742 ++++	2.31213	2.29400	2.29598	2.15802	2.10089	2.25474	4.534 <-
19 N-Nitrosodiethylamine	0.86070 ++++	0.86465	0.86900	0.88419	0.84411	0.83512	0.85963	2.054 <-
21 Aniline	2.66572 2.41947	2.55711	2.50552	2.57081	2.49998	2.40612	2.51782	3.583
22 Phenol	2.29725 1.79498	2.16987	2.10031	2.04545	1.95950	1.84044	2.02969	8.820
23 bis(2-Chloroethyl)ether	1.90396 1.32826	1.78341	1.70616	1.62959	1.48833	1.38375	1.60335	13.259
24 2-Chlorophenol	1.48598 1.27650	1.42544	1.38939	1.41112	1.36868	1.30264	1.37996	5.224

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
25 Pentachloroethane	0.46271 ++++	0.44224	0.46556	0.47310	0.44809	0.44158	0.45555	2.924
26 1,3-Dichlorobenzene	1.46253 1.23063	1.39602	1.35380	1.35727	1.30720	1.22842	1.33370	6.410
27 1,4-Dichlorobenzene	1.50146 1.23124	1.43879	1.37568	1.37967	1.32642	1.24553	1.35697	7.220
28 1,2-Dichlorobenzene	1.39666 1.03302	1.32024	1.27878	1.26899	1.17995	1.08974	1.22391	10.576
29 Benzyl Alcohol	1.01112 0.68794	0.98697	0.93741	0.87740	0.79795	0.72581	0.86066	14.751
30 2-Methylphenol	1.47695 1.31529	1.42458	1.39760	1.39405	1.36757	1.31300	1.38415	4.234
31 bis(2-Chloroisopropyl)ether	2.52052 2.04269	2.32622	2.23691	2.17403	2.09388	2.01937	2.20195	8.067
32 N-Nitroso-di-n-propylamine	1.33447 1.11705	1.27001	1.22218	1.18655	1.15490	1.10089	1.19800	7.014
M 195 Cresols, total	2.98997 2.27694	2.86884	2.75502	2.64331	2.48030	2.32050	2.61927	10.391
192 4-Methylphenol	1.51302 0.96165	1.44426	1.35742	1.24926	1.11273	1.00750	1.23512	17.418

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	-----	-----	-----	-----	-----	-----		
	50.000							
	Level 7							
-----	-----	-----	-----	-----	-----	-----	-----	-----
193 3-Methylphenol	1.41158	1.43884	1.40774	1.26744	1.15436	1.09428		
	+++++						1.29571	11.333 |←
34 Hexachloroethane	0.57549	0.55587	0.54021	0.53993	0.53054	0.50679		
	0.50318						0.53600	4.785
35 Nitrobenzene	0.42989	0.40975	0.40492	0.40333	0.39561	0.37955		
	0.38189						0.40071	4.306
36 N-Nitrosopyrrolidine	0.85902	0.85867	0.81360	0.70537	0.63208	0.62274		
	+++++						0.74858	14.612 |←
37 Acetophenone	2.15002	2.07891	1.99680	1.84790	1.71591	1.67597		
	1.30132						1.82383	15.962
39 o-Toluidine	2.38484	2.40264	2.36399	2.17484	1.97895	1.90341		
	+++++						2.20145	9.943 |←
40 N-Nitrosopiperidine	0.19996	0.20440	0.20231	0.20900	0.20256	0.20313		
	+++++						0.20356	1.489 |←
41 Isophorone	0.86844	0.82333	0.79360	0.77544	0.75479	0.72262		
	0.72490						0.78044	6.794
42 2-Nitrophenol	0.15663	0.15152	0.15467	0.15589	0.14580	0.13356		
	0.12708						0.14645	8.021
43 2,4-Dimethylphenol	0.32366	0.32149	0.31450	0.30688	0.30327	0.29049		
	0.28887						0.30702	4.527

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
44 bis(2-Chloroethoxy)methane	0.52905 0.42556	0.50225	0.48462	0.47555	0.45195	0.42866	0.47109	8.117
45 O,O,O-Triethyl phosphorothioic acid	0.13057 ++++	0.13236	0.12787	0.12221	0.11106	0.10910	0.12219	8.194 ←
46 2,4-Toluediamene	0.04888 0.02623	0.01783	0.01598	0.02764	0.03148	0.02648	0.02779	38.898
47 1,3,5-Trichlorobenzene	0.26232 0.18194	0.25145	0.23801	0.22887	0.20839	0.19108	0.22315	13.609
48 2,4-Dichlorophenol	0.21195 0.21481	0.21675	0.21827	0.22846	0.22556	0.21836	0.21917	2.671
49 Benzoic Acid	++++ 0.13393	0.09212	0.12317	0.15372	0.13574	0.12741	0.12768	15.924 ←
50 1,2,4-Trichlorobenzene	0.24109 0.19748	0.22997	0.22623	0.22638	0.21610	0.20362	0.22012	6.975
51 Naphthalene	1.06656 0.76772	0.99952	0.95780	0.92622	0.86550	0.80373	0.91244	11.714
52 4-Chloroaniline	0.37567 0.36573	0.37931	0.37819	0.39417	0.38777	0.36917	0.37857	2.620
53 a,a-Dimethyl-phenethylamine	0.56804 ++++	0.82807	0.74455	0.95888	0.93463	1.01917	0.84222	19.752 ←

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
54 2,6-Dichlorophenol	0.22614 ++++	0.23197	0.23457	0.22343	0.19718	0.18932	0.21710	8.779 <-
55 Hexachloropropene	0.12527 ++++	0.12367	0.11956	0.12314	0.10752	0.10302	0.11703	8.036 <-
56 Hexachlorobutadiene	0.11058 0.08667	0.10534	0.10263	0.10206	0.09697	0.08991	0.09917	8.588
57 1,2,3-Trichlorobenzene	0.23439 0.19094	0.22623	0.22164	0.21944	0.21213	0.19742	0.21460	7.272
58 N-Nitrosodi-n-butylamine	0.28864 ++++	0.29973	0.29125	0.27373	0.25532	0.25523	0.27732	6.860 <-
59 4-Chloro-3-Methylphenol	0.24350 0.26121	0.25983	0.26411	0.27228	0.27189	0.26006	0.26184	3.687
60 p-Phenylene diamine	0.10113 ++++	0.16605	0.21227	0.33303	0.30972	0.33239	0.24243	40.221 <-
61 Saffrole	0.23346 ++++	0.23759	0.23386	0.22603	0.20648	0.20348	0.22348	6.644 <-
62 2-Methylnaphthalene	0.60947 0.46187	0.58628	0.56799	0.54934	0.51725	0.47786	0.53858	10.256
63 1-Methylnaphthalene	0.60907 0.45559	0.58539	0.57104	0.54741	0.51041	0.47301	0.53599	10.832

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
64 Hexachlorocyclopentadiene	0.26436 0.18755	0.26888	0.25883	0.23901	0.21640	0.20180	0.23383	13.840
65 1,2,4,5-Tetrachlorobenzene	0.45275 *****	0.42753	0.42977	0.41007	0.36871	0.34725	0.40602	9.896 <-
66 2,4,6-Trichlorophenol	0.25320 0.27869	0.26792	0.26582	0.28340	0.28339	0.27640	0.27269	4.041
67 2,4,5-Trichlorophenol	0.25215 0.28814	0.26153	0.26914	0.29526	0.29450	0.28966	0.27862	6.258
68 1,2,3,5-Tetrachlorobenzene	0.41980 0.26894	0.39183	0.36914	0.34622	0.31033	0.28634	0.34180	16.346
69 1,4-Dinitrobenzene	0.12150 *****	0.15539	0.17572	0.19187	0.18767	0.18917	0.17022	16.103 <-
70 2-Chloronaphthalene	1.07177 0.68363	0.99740	0.93669	0.87582	0.78012	0.72717	0.86751	16.611
71 Isosafrole 1	0.15000 *****	0.14683	0.15162	0.16114	0.15865	0.15807	0.15438	3.678 <-
M 188 Isosafrole, Total	1.08906 *****	1.06780	1.05829	0.94070	0.84803	0.81283	0.96945	12.375 <-
72 Isosafrole 2	0.93906 *****	0.92097	0.90666	0.77956	0.68939	0.65477	0.81507	15.298 <-

Report Date : 09-Aug-2000 09:03

Page 8

STL - North Canton

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 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
73 2-Nitroaniline	0.31469 0.40159	0.32645	0.33920	0.38105	0.38613	0.38507		
74 1,2,3,4-Tetrachlorobenzene	0.37450 0.32214	0.35452	0.34529	0.35837	0.34482	0.32959	0.36203	9.480
75 1,4-Naphthoquinone	0.38758 ++++	0.44120	0.44317	0.44887	0.41900	0.41172	0.34703	5.089
76 Dimethylphthalate	1.08006 1.00938	1.04684	1.01462	1.04272	1.03161	1.00557	0.42526	5.539
77 m-Dinitrobenzene	0.14745 ++++	0.18806	0.20153	0.21420	0.20943	0.21213	1.03297	2.546
78 2,6-Dinitrotoluene	0.19865 0.17556	0.20693	0.21074	0.21704	0.20093	0.18549	0.19547	12.985
79 Acenaphthylene	1.86462 1.26063	1.76884	1.66997	1.59585	1.43718	1.34064	0.19933	7.273
80 1,2-Dinitrobenzene	0.10095 0.14428	0.10624	0.11200	0.12911	0.13452	0.13872	1.56253	14.372
81 3-Nitroaniline	0.21949 0.32357	0.21836	0.22729	0.28539	0.29163	0.30279	0.12369	13.826
82 Acenaphthene	1.10749 0.85439	1.06142	1.00732	0.98135	0.92380	0.87639	0.26693	16.491
							0.97316	9.655

STL - North Canton

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	± RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
83 2,4-Dinitrophenol	++++ 0.11561	++++	0.05592	0.08521	0.09573	0.10723	0.09194	25.220 |<-
84 Pentachlorobenzene	0.37048 ++++	0.35917	0.35838	0.33097	0.29634	0.28570	0.33351	10.658 |<-
85 4-Nitrophenol	++++ 0.11357	0.05212	0.06735	0.09640	0.09058	0.10489	0.08749	26.703 |<-
86 Dibenzofuran	1.39995 1.13574	1.32112	1.26648	1.27785	1.21276	1.15358	1.25250	7.453
87 2,4-Dinitrotoluene	0.24171 0.34849	0.26306	0.27383	0.32228	0.32812	0.33182	0.30133	13.607
88 2,3,4,6-Tetrachlorophenol	0.15861 ++++	0.18950	0.19872	0.21333	0.19730	0.19698	0.19241	9.507 |<-
89 1-Naphthylamine	0.94800 ++++	0.98874	1.03922	1.10009	1.01258	1.00378	1.01540	5.048 |<-
90 Zinophos	0.36499 ++++	0.36735	0.37080	0.34990	0.31696	0.30414	0.34569	8.225 |<-
91 2,3,5,6-Tetrachlorophenol	0.18758 0.21911	0.20168	0.20865	0.22510	0.22258	0.21879	0.21192	6.373
92 2-Naphthylamine	0.88107 ++++	0.75858	0.85398	0.95485	0.91411	0.92221	0.88080	7.860 <-

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Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
93 Diethylphthalate	1.16910 1.03127	1.14296	1.09747	1.10305	1.07547	1.03322	1.09322	4.738
94 Fluorene	1.14593 0.88591	1.10037	1.05732	1.04184	0.97246	0.91924	1.01758	9.369
95 4-Chlorophenyl-phenylether	0.44509 0.37031	0.43264	0.42155	0.43171	0.40728	0.38762	0.41374	6.496
96 4-Nitroaniline	0.19019 0.32771	0.17698	0.21001	0.27826	0.28785	0.30243	0.25335	23.600
97 5-Nitro-o-toluidine	0.25114 ++++	0.29638	0.32068	0.35220	0.33415	0.33163	0.31436	11.453 <-
98 4,6-Dinitro-2-methylphenol	0.05351 0.11981	0.06923	0.08202	0.10282	0.11052	0.11273	0.09295	26.917
99 N-Nitrosodiphenylamine	0.57890 0.48987	0.55598	0.54260	0.54835	0.52346	0.49476	0.53342	6.110
100 1,2-Diphenylhydrazine	1.29036 0.96828	1.19491	1.13494	1.08884	1.05340	0.99582	1.10379	10.254
101 Diphenylamine	0.57890 0.48987	0.55598	0.54260	0.54835	0.52346	0.49476	0.53342	6.110
102 Tetraethyl dithiopyrophosphat	0.09849 ++++	0.09827	0.09814	0.08580	0.07933	0.07633	0.08939	11.439 <-

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 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
103 Diallylate 1	1.20164 ++++	1.04367	1.00474	0.81857	0.74105	0.68974	0.91657	21.659 <-
M 189 Diallylate, Total	3.33095 ++++	3.17424	3.01574	2.49866	2.24119	2.16675	2.73792	18.258 <-
104 Phorate	0.24409 ++++	0.22858	0.22583	0.18946	0.17072	0.15805	0.20279	17.237 <-
105 1,3,5-Trinitrobenzene	0.03701 ++++	0.04951	0.05926	0.06633	0.06629	0.06763	0.05767	21.159 <-
106 4-Bromophenyl-phenylether	0.16807 0.14681	0.16791	0.16345	0.16448	0.15836	0.15015	0.15989	5.314
107 Hexachlorobenzene	0.18342 0.14355	0.17255	0.17029	0.16328	0.15600	0.14673	0.16226	8.893
108 Phenacetin	0.38561 ++++	0.44744	0.48126	0.47882	0.45719	0.44883	0.44986	7.709 <-
109 Diallylate 2	0.19819 ++++	0.19005	0.19603	0.19530	0.19555	0.19160	0.19445	1.558 <-
110 Dimethoate	0.55931 ++++	0.57093	0.59467	0.55770	0.51859	0.50747	0.55144	5.939 <-
111 Pentachlorophenol	0.07364 0.10863	0.09060	0.09749	0.10499	0.11021	0.10894	0.09921	13.451

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
 End Cal Date : 09-AUG-2000 06:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
112 Pentachloronitrobenzene	0.06511 ++++	0.06917	0.07242	0.06897	0.06679	0.06299	0.06757	4.937 | <-
113 4-Aminobiphenyl	0.52861 ++++	0.50524	0.60120	0.70742	0.67371	0.64974	0.61099	13.256 | <-
114 Pronamide	0.35025 ++++	0.34801	0.36000	0.33188	0.30955	0.29922	0.33315	7.284 | <-
115 Phenanthrene	1.12448 0.82799	1.05402	1.01497	0.98574	0.91122	0.84444	0.96612	11.376
116 Anthracene	1.06463 0.81290	1.03769	0.99531	0.97576	0.90360	0.85021	0.94858	10.042
117 Dinoseb	0.09613 ++++	0.12361	0.14217	0.13815	0.12730	0.12423	0.12526	12.915 | <-
118 Disulfoton	0.83056 ++++	0.75218	0.72692	0.59014	0.52983	0.48887	0.65308	20.870 | <-
119 Carbazole	0.90753 0.82988	0.84891	0.80711	0.89549	0.86264	0.83062	0.85460	4.276
120 Di-n-Butylphthalate	1.40625 1.09516	1.44301	1.36724	1.28928	1.21253	1.12063	1.27630	10.811
121 4-Nitroquinoline 1-oxide	0.03443 ++++	0.06272	0.07781	0.10347	0.09652	0.09492	0.07831	33.347 | <-

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
 End Cal Date : 09-AUG-2000 06:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
122 Methapyrilene	0.47644 +++++	0.47956	0.42200	0.43564	0.37891	0.37559	0.42802	10.581 <-
123 Fluoranthene	0.92369 0.73076	0.89686	0.87920	0.86168	0.79440	0.74009	0.83238	9.284
124 Benzidine	0.27181 1.13247	0.27258	0.25882	0.51353	0.67275	0.78373	0.55796	58.945 <-
125 Pyrene	1.78511 2.19673	1.76063	1.67027	1.80462	1.95055	1.97991	1.87826	9.429
126 Aramite 1	0.11229 +++++	0.11649	0.12262	0.11571	0.12509	0.12772	0.11999	5.037 <-
M 191 Aramite, Total	0.32408 +++++	0.37844	0.39319	0.40808	0.37471	0.38975	0.37804	7.659 <-
127 Aramite 2	0.15443 +++++	0.16440	0.17536	0.16251	0.17388	0.17819	0.16813	5.450 <-
128 p-Dimethylamino azobenzene	0.32625 +++++	0.34581	0.36928	0.34793	0.35299	0.35061	0.34881	3.970 <-
129 p-Chlorobenzilate	0.75887 +++++	0.73262	0.74121	0.63323	0.63747	0.62827	0.68861	8.943 <-
130 Famphur	0.53657 +++++	0.41092	0.37744	0.22011	0.18948	0.18332	0.31964	45.155 <-

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
 End Cal Date : 09-AUG-2000 06:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\A4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
131 Butylbenzylphthalate	0.83961 1.37630	0.92207	0.88895	1.00209	1.12958	1.18005	1.04838	18.205
132 3,3'-Dimethylbenzidine	0.35566 *****	0.25033	0.34045	0.39862	0.41356	0.42562	0.36404	17.801
133 3,3'-Dimethoxybenzidine	0.14615 0.23390	0.13621	0.13045	0.20055	0.22116	0.22651	0.18499	24.701
134 2-Acetylaminofluorene	0.35998 *****	0.42532	0.47121	0.51592	0.49877	0.49624	0.46124	12.741
135 3,3'-Dichlorobenzidine	0.32800 0.40583	0.32709	0.32710	0.36876	0.37114	0.37469	0.35752	8.593
136 Benzo(a)Anthracene	1.16520 1.61619	1.16138	1.14020	1.28655	1.36902	1.41939	1.30828	13.299
137 Chrysene	1.12439 1.60419	1.11661	1.09655	1.25902	1.33689	1.41124	1.27841	14.653
138 4,4'-Methylene bis(o-chloroan	0.17859 0.23753	0.16669	0.16529	0.19621	0.20163	0.20780	0.19339	13.272
139 bis(2-ethylhexyl)Phthalate	1.26644 1.81189	1.39117	1.29223	1.40073	1.55784	1.60023	1.47436	13.148
140 Di-n-octylphthalate	2.17684 2.21414	2.54048	2.48537	2.27919	2.39029	2.23552	2.33169	6.076

STL - North Canton
INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
141 Benzo(b)fluoranthene	1.21737 1.19948	1.22012	1.19925	1.23166	1.22043	1.20437	1.21324	1.020
142 Benzo(k)fluoranthene	1.23764 1.15819	1.24273	1.22412	1.22126	1.25552	1.13834	1.21111	3.699
143 7,12-dimethylbenz(a)anthracen	0.78283 ++++	0.80102	0.69067	0.81080	0.80610	0.82133	0.78546	6.130
144 Hexachlorophene	++++ ++++	++++	++++	++++	++++	++++	++++	++++
145 Hexachlorophene product	++++ ++++	++++	++++	++++	++++	++++	++++	++++
146 Benzo(a)pyrene	1.03151 1.04905	1.02361	1.02496	1.06934	1.07548	1.03486	1.04412	2.023
148 3-Methylcholanthrene	0.68277 ++++	0.69671	0.60405	0.76690	0.76325	0.75767	0.71189	8.987
149 Indeno(1,2,3-cd)pyrene	0.90059 1.03630	0.75931	0.78367	1.00224	1.02126	0.97874	0.92602	12.354
150 Dibenz(a,h)anthracene	0.70098 0.85171	0.72743	0.76391	0.82163	0.83856	0.80779	0.78743	7.324
151 Benzo(g,h,i)perylene	0.78129 0.87440	0.76020	0.79912	0.82516	0.84541	0.81139	0.81385	4.746

STL - North Canton

INITIAL CALIBRATION DATA

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 End Cal Date : 09-AUG-2000 06:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
199 3-Picoline	1.65828 ++++	1.77375	1.86743	1.93404	1.72815	1.76112	1.78713	5.538 <-
200 N,N-Dimethylacetamide	1.41496 ++++	1.49564	1.52017	1.52235	1.43313	1.41560	1.46698	3.504 <-
201 Quinoline	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
202 Diphenyl	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
203 Diphenyl ether	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
204 6-Methylchrysenes	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
205 Benzenethiol	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
207 Indene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
208 Dibenz(a,j)acridine	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
209 Benzaldehyde	1.32163 0.86718	1.22158	1.17024	1.14977	1.09159	1.01308	1.11930	13.178

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
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 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
210 Caprolactam	0.09605 0.11475	0.10314	0.10646	0.11430	0.11558	0.11074	0.10871	6.670
211 1,1'-Biphenyl	1.09232 0.84515	1.04239	0.98402	0.96610	0.90854	0.86617	0.95781	9.485
212 Atrazine	0.16395 0.14970	0.16484	0.15949	0.16240	0.16005	0.15132	0.15882	3.785
\$ 154 Nitrobenzene-d5	0.41038 0.39613	0.39705	0.39787	0.40789	0.40448	0.39255	0.40091	1.667
\$ 155 2-Fluorobiphenyl	1.13278 0.91747	1.07623	1.03497	1.03383	0.98682	0.94139	1.01764	7.403
\$ 156 Terphenyl-d14	0.97898 1.25424	0.97074	0.95470	1.03237	1.11410	1.13646	1.06308	10.363
\$ 157 Phenol-d5	2.06532 1.75425	1.93548	1.90020	1.89215	1.84253	1.75933	1.87847	5.739
\$ 158 2-Fluorophenol	1.60979 1.45282	1.54474	1.50328	1.52193	1.50067	1.44747	1.51153	3.684
\$ 159 2,4,6-Tribromophenol	0.08121 0.09981	0.08640	0.09039	0.09904	0.09896	0.09767	0.09335	7.927
\$ 186 2-Chlorophenol-d4	1.31760 1.05384	1.26620	1.23788	1.23709	1.17995	1.09807	1.19866	7.853

STL - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 10:00
 End Cal Date : 09-AUG-2000 06:35
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : HP RTE
 Method file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00808c.b\8270c.m
 Cal Date : 09-Aug-2000 08:37 gruberj
 Curve Type : Average

Compound	4.000	10.000	16.000	24.000	32.000	40.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	50.000							
	Level 7							
\$ 187 1,2-Dichlorobenzene-d4	0.89668	0.86252	0.81763	0.75685	0.66665	0.59504	0.73569	18.115
	0.55445							

DE
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP022

Lab File ID: 9DF0809A

DFTPP Injection Date: 08/09/00

Instrument ID: A4HP9

DFTPP Injection Time: 1103

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.3
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Mass 69 relative abundance	56.3
70	Less than 2.0% of mass 69	0.7 (1.2)1
127	40.0 - 60.0% of mass 198	56.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	16.9
365	Greater than 1.0% of mass 198	1.4
441	Present, but less than mass 443	9.3
442	Greater than 40.0% of mass 198	57.6
443	17.0 - 23.0% of mass 442	11.0 (19.2)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0809	08/09/00	1124
02	ASTD008	ASTD008	9AM0809	08/09/00	1202
03	DH9RGBLK	DH9RG101	DH9RG101	08/09/00	1240
04	DH9RGCHK	DH9RG102	DH9RG102	08/09/00	1318
05	MPT-55-SS-07	DH9MH10X	DH9MH10X	08/09/00	1550
06	MPT-55-SS-08	DH9MJ10X	DH9MJ10X	08/09/00	1628
07	MPT-55-SS-05	DH9LH10X	DH9LH10X	08/09/00	1707
08	MPT-55-SS-06	DH9M910X	DH9M910X	08/09/00	1745
09	MPT-55-SS-01	DH9GA10X	DH9GA10X	08/09/00	1939
10	MPT-55-SS-03	DH9HV10X	DH9HV10X	08/09/00	2016
11	MPT-55-SS-02	DH9HM10X	DH9HM10X	08/09/00	2055
12	MPT-55-SS-04	DH9J210X	DH9J210X	08/09/00	2133
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 09-AUG-2000 11:24
 Lab File ID: 9SM0809.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00809a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.78035	1.58939	0.010	-10.7	50.0
10 N-Nitrosodimethylamine	1.21665	1.08798	0.010	-10.6	50.0
11 Ethyl methacrylate	1.54567	1.37957	0.010	-10.7	50.0
12 3-Chloropropionitrile	0.84632	0.85023	0.010	0.5	50.0
13 Malononitrile	2.13558	1.89670	0.010	-11.2	50.0
209 Benzaldehyde	1.11930	1.06954	0.010	-4.4	50.0
21 Aniline	2.51782	2.55399	0.010	1.4	50.0
22 Phenol	2.02969	2.08641	0.010	2.8	20.0
23 bis(2-Chloroethyl)ether	1.60335	1.62651	0.010	1.4	50.0
24 2-Chlorophenol	1.37996	1.33667	0.010	-3.1	50.0
26 1,3-Dichlorobenzene	1.33370	1.33803	0.010	0.3	50.0
27 1,4-Dichlorobenzene	1.35697	1.34578	0.010	-0.8	20.0
28 1,2-Dichlorobenzene	1.22391	1.23394	0.010	0.8	50.0
29 Benzyl Alcohol	0.86066	0.94910	0.010	10.3	50.0
30 2-Methylphenol	1.38415	1.49044	0.010	7.7	50.0
31 bis(2-Chloroisopropyl)ether	2.20195	2.28939	0.010	4.0	50.0
37 Acetophenone	1.82383	1.84119	0.010	1.0	50.0
32 N-Nitroso-di-n-propylamine	1.19800	1.10743	0.050	-7.6	50.0
192 4-Methylphenol	1.23512	1.38623	0.010	12.2	50.0
34 Hexachloroethane	0.53600	0.56837	0.010	6.0	50.0
35 Nitrobenzene	0.40071	0.37336	0.010	-6.8	50.0
41 Isophorone	0.78044	0.76088	0.010	-2.5	50.0
42 2-Nitrophenol	0.14645	0.13041	0.010	-11.0	20.0
43 2,4-Dimethylphenol	0.30702	0.34654	0.010	12.9	50.0
44 bis(2-Chloroethoxy)methane	0.47109	0.48711	0.010	3.4	50.0
46 2,4-Toluenediamine	0.02779	0.02528	0.010	-9.0	50.0
47 1,3,5-Trichlorobenzene	0.22315	0.23892	0.010	7.1	50.0
48 2,4-Dichlorophenol	0.21917	0.23930	0.010	9.2	20.0
49 Benzoic Acid	0.12768	0.09192	0.010	-28.0	50.0
50 1,2,4-Trichlorobenzene	0.22012	0.23352	0.010	6.1	50.0
51 Naphthalene	0.91244	0.90366	0.010	-1.0	50.0
52 4-Chloroaniline	0.37857	0.40404	0.010	6.7	50.0
56 Hexachlorobutadiene	0.09917	0.10178	0.010	2.6	20.0
210 Caprolactam	0.10871	0.11781	0.010	8.4	50.0
57 1,2,3-Trichlorobenzene	0.21460	0.22557	0.010	5.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 09-AUG-2000 11:24
 Lab File ID: 9SM0809.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00809a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.26184	0.30585	0.010	16.8	20.0
62 2-Methylnaphthalene	0.53858	0.54672	0.010	1.5	50.0
63 1-Methylnaphthalene	0.53599	0.54100	0.010	0.9	50.0
64 Hexachlorocyclopentadiene	0.23383	0.24182	0.050	3.4	50.0
66 2,4,6-Trichlorophenol	0.27269	0.29109	0.010	6.7	20.0
67 2,4,5-Trichlorophenol	0.27862	0.30902	0.010	10.9	50.0
211 1,1'-Biphenyl	0.95781	0.95365	0.010	-0.4	50.0
68 1,2,3,5-Tetrachlorobenzene	0.34180	0.37097	0.010	8.5	50.0
70 2-Chloronaphthalene	0.86751	0.88843	0.010	2.4	50.0
73 2-Nitroaniline	0.36203	0.32658	0.010	-9.8	50.0
74 1,2,3,4-Tetrachlorobenzene	0.34703	0.36318	0.010	4.7	50.0
76 Dimethylphthalate	1.03297	1.04043	0.010	0.7	50.0
78 2,6-Dinitrotoluene	0.19933	0.17592	0.010	-11.7	50.0
79 Acenaphthylene	1.56253	1.59568	0.010	2.1	50.0
80 1,2-Dinitrobenzene	0.12369	0.10212	0.010	-17.4	50.0
81 3-Nitroaniline	0.26693	0.24307	0.010	-8.9	50.0
82 Acenaphthene	0.97316	0.96547	0.010	-0.8	20.0
83 2,4-Dinitrophenol	0.09194	0.05692	0.050	-38.1	50.0
85 4-Nitrophenol	0.08749	0.10021	0.050	14.5	50.0
86 Dibenzofuran	1.25250	1.29803	0.010	3.6	50.0
87 2,4-Dinitrotoluene	0.30133	0.26197	0.010	-13.1	50.0
91 2,3,5,6-Tetrachlorophenol	0.21192	0.20708	0.010	-2.3	50.0
93 Diethylphthalate	1.09322	1.08588	0.010	-0.7	50.0
94 Fluorene	1.01758	1.04283	0.010	2.5	50.0
95 4-Chlorophenyl-phenylether	0.41374	0.44750	0.010	8.2	50.0
96 4-Nitroaniline	0.25335	0.24422	0.010	-3.6	50.0
98 4,6-Dinitro-2-methylphenol	0.09295	0.06617	0.010	-28.8	50.0
99 N-Nitrosodiphenylamine	0.53342	0.51795	0.010	-2.9	20.0
100 1,2-Diphenylhydrazine	1.10379	1.01841	0.010	-7.7	50.0
106 4-Bromophenyl-phenylether	0.15989	0.15688	0.010	-1.9	50.0
107 Hexachlorobenzene	0.16226	0.15644	0.010	-3.6	50.0
212 Atrazine	0.15882	0.16345	0.010	2.9	50.0
111 Pentachlorophenol	0.09921	0.08947	0.010	-9.8	20.0
115 Phenanthrene	0.96612	0.96256	0.010	-0.4	50.0
116 Anthracene	0.94858	0.94337	0.010	-0.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.1 Injection Date: 09-AUG-2000 11:24
 Lab File ID: 9SM0809.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00809a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
119 Carbazole	0.85460	0.85366	0.010	-0.1	50.0
120 Di-n-Butylphthalate	1.27630	1.29190	0.010	1.2	50.0
123 Fluoranthene	0.83238	0.89196	0.010	7.2	20.0
124 Benzidine	0.55796	0.37096	0.010	-33.5	50.0
125 Pyrene	1.87826	1.73471	0.010	-7.6	50.0
131 Butylbenzylphthalate	1.04838	0.96270	0.010	-8.2	50.0
133 3,3'-Dimethoxybenzidine	0.18499	0.17905	0.010	-3.2	50.0
135 3,3'-Dichlorobenzidine	0.35752	0.33531	0.010	-6.2	50.0
136 Benzo(a)Anthracene	1.30828	1.21551	0.010	-7.1	50.0
137 Chrysene	1.27841	1.14579	0.010	-10.4	50.0
138 4,4'-Methylene bis(o-chloro	0.19339	0.19434	0.010	0.5	50.0
139 bis(2-ethylhexyl)Phthalate	1.47436	1.38674	0.010	-5.9	50.0
140 Di-n-octylphthalate	2.33169	2.45575	0.010	5.3	20.0
141 Benzo(b)fluoranthene	1.21324	1.16743	0.010	-3.8	50.0
142 Benzo(k)fluoranthene	1.21111	1.15184	0.010	-4.9	50.0
146 Benzo(a)pyrene	1.04412	0.97527	0.010	-6.6	20.0
149 Indeno(1,2,3-cd)pyrene	0.92602	0.73816	0.010	-20.3	50.0
150 Dibenz(a,h)anthracene	0.78743	0.67832	0.010	-13.9	50.0
151 Benzo(g,h,i)perylene	0.81385	0.73255	0.010	-10.0	50.0
\$ 154 Nitrobenzene-d5	0.40091	0.35842	0.010	-10.6	50.0
\$ 155 2-Fluorobiphenyl	1.01764	1.04419	0.010	2.6	50.0
\$ 156 Terphenyl-d14	1.06308	0.95287	0.010	-10.4	50.0
\$ 157 Phenol-d5	1.87847	1.91487	0.010	1.9	50.0
\$ 158 2-Fluorophenol	1.51153	1.55770	0.010	3.1	50.0
\$ 159 2,4,6-Tribromophenol	0.09335	0.09281	0.010	-0.6	50.0
\$ 186 2-Chlorophenol-d4	1.19866	1.19320	0.010	-0.5	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.73569	0.75444	0.010	2.5	50.0
M 195 Cresols, total	2.61927	2.87668	0.010	9.8	50.0
101 Diphenylamine	0.53342	0.51795	0.010	-2.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 09-AUG-2000 12:02
 Lab File ID: 9AM0809.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00809a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
7 N-Nitrosomorpholine	0.70040	0.76840	0.010	9.7	50.0
8 Ethyl methanesulfonate	1.45055	1.24734	0.010	-14.0	50.0
14 2-Picoline	1.93371	1.99134	0.010	3.0	50.0
15 N-Nitrosomethylethylamine	0.93888	0.90504	0.010	-3.6	50.0
16 Methyl methanesulfonate	0.90506	0.85350	0.010	-5.7	50.0
18 1,3-Dichloro-2-propanol	2.25474	2.00372	0.010	-11.1	50.0
19 N-Nitrosodiethylamine	0.85963	0.85627	0.010	-0.4	50.0
25 Pentachloroethane	0.45555	0.42674	0.010	-6.3	50.0
36 N-Nitrosopyrrolidine	0.74858	0.75958	0.010	1.5	50.0
37 Acetophenone	1.82383	1.91550	0.010	5.0	50.0
39 o-Toluidine	2.20145	2.24275	0.010	1.9	50.0
40 N-Nitrosopiperidine	0.20356	0.21066	0.010	3.5	50.0
45 O,O,O-Triethyl phosphorothi	0.12219	0.12890	0.010	5.5	50.0
53 a,a-Dimethyl-phenethylamine	0.84222	0.76646	0.010	-9.0	50.0
54 2,6-Dichlorophenol	0.21710	0.23986	0.010	10.5	50.0
55 Hexachloropropene	0.11703	0.11707	0.010	0.0	50.0
58 N-Nitrosodi-n-butylamine	0.27732	0.27420	0.010	-1.1	50.0
60 p-Phenylene diamine	0.24243	0.24943	0.010	2.9	50.0
61 Safrole	0.22348	0.23054	0.010	3.2	50.0
65 1,2,4,5-Tetrachlorobenzene	0.40602	0.39022	0.010	-3.9	50.0
71 Isosafrole 1	0.15438	0.14302	0.010	-7.4	50.0
M 188 Isosafrole, Total	0.96945	0.93167	0.010	-3.9	50.0
72 Isosafrole 2	0.81507	0.78865	0.010	-3.2	50.0
75 1,4-Naphthoquinone	0.42526	0.41751	0.010	-1.8	50.0
84 Pentachlorobenzene	0.33351	0.31133	0.010	-6.7	50.0
89 1-Naphthylamine	1.01540	0.93545	0.010	-7.9	50.0
92 2-Naphthylamine	0.88080	0.75335	0.010	-14.5	50.0
90 Zinophos	0.34569	0.33302	0.010	-3.7	50.0
102 Tetraethyl dithiopyrophosph	0.08939	0.08390	0.010	-6.1	50.0
103 Diallylate 1	0.91657	0.83108	0.010	-9.3	50.0
M 189 Diallylate, Total	2.73792	2.68367	0.010	-2.0	50.0
109 Diallylate 2	0.19445	0.17141	0.010	-11.8	50.0
104 Phorate	0.20279	0.19327	0.010	-4.7	50.0
105 1,3,5-Trinitrobenzene	0.05767	0.03023	0.010	-47.6	50.0
108 Phenacetin	0.44986	0.40401	0.010	-10.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 09-AUG-2000 12:02
 Lab File ID: 9AM0809.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00809a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.55144	0.48189	0.010	-12.6	50.0
112 Pentachloronitrobenzene	0.06757	0.05229	0.010	-22.6	50.0
113 4-Aminobiphenyl	0.61099	0.48450	0.010	-20.7	50.0
114 Pronamide	0.33315	0.30872	0.010	-7.3	50.0
117 Dinoseb	0.12526	0.07016	0.010	-44.0	50.0
118 Disulfoton	0.65308	0.63015	0.010	-3.5	50.0
121 4-Nitroquinoline 1-oxide	0.07811	0.05639	0.010	-28.0	50.0
122 Methapyrilene	0.42802	0.37086	0.010	-13.4	50.0
126 Aramite 1	0.11999	0.11000	0.010	-8.3	50.0
M 191 Aramite, Total	0.37804	0.39779	0.010	5.2	50.0
127 Aramite 2	0.16813	0.15597	0.010	-7.2	50.0
128 p-Dimethylamino azobenzene	0.34881	0.31089	0.010	-10.9	50.0
129 p-Chlorobenzilate	0.68861	0.56864	0.010	-17.4	50.0
130 Pamphur	0.31964	0.26275	0.010	-17.8	50.0
132 3,3'-Dimethylbenzidine	0.36404	0.32662	0.010	-10.3	50.0
134 2-Acetylaminofluorene	0.46124	0.40592	0.010	-12.0	50.0
143 7,12-dimethylbenz[a]anthrac	0.78546	0.78611	0.010	0.1	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.71189	0.69820	0.010	-1.9	50.0
193 3-Methylphenol	1.29571	1.38353	0.010	6.8	50.0
69 1,4-Dinitrobenzene	0.17022	0.10714	0.010	-37.1	50.0
77 m-Dinitrobenzene	0.19547	0.13767	0.010	-29.6	50.0
198 1,4-Dioxane	0.70754	0.73945	0.010	4.5	50.0
88 2,3,4,6-Tetrachlorophenol	0.19241	0.17365	0.010	-9.8	50.0
97 5-Nitro-o-toluidine	0.31436	0.26799	0.010	-14.8	50.0
199 3-Picoline	1.78713	1.82560	0.010	2.2	50.0
200 N,N-Dimethylacetamide	1.46698	1.52314	0.010	3.8	50.0

13

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP022

Lab File ID: 9DF0810B

DFTPP Injection Date: 08/10/00

Instrument ID: A4HP9

DFTPP Injection Time: 1203

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.3
68	Less than 2.0% of mass 69	0.8 (1.4)1
69	Mass 69 relative abundance	54.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	54.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	16.5
365	Greater than 1.0% of mass 198	1.3
441	Present, but less than mass 443	9.0
442	Greater than 40.0% of mass 198	54.6
443	17.0 - 23.0% of mass 442	10.2 (18.8)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0810	08/10/00	1203
02	ASTD008	ASTD008	9AM0810	08/10/00	1241
03	MPT-55-SD-01	DH9MK10X	DH9MK10X	08/10/00	1433
04					
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STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-AUG-2000 12:03
 Lab File ID: 9SM0810.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00810a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
9 Pyridine	1.78035	1.61580	0.010	-9.2	50.0
10 N-Nitrosodimethylamine	1.21665	1.14753	0.010	-5.7	50.0
11 Ethyl methacrylate	1.54567	1.51059	0.010	-2.3	50.0
12 3-Chloropropionitrile	0.84632	0.88064	0.010	4.1	50.0
13 Malononitrile	2.13558	1.70790	0.010	-20.0	50.0
209 Benzaldehyde	1.11930	1.10483	0.010	-1.3	50.0
21 Aniline	2.51782	2.28830	0.010	-9.1	50.0
22 Phenol	2.02969	2.23057	0.010	9.9	20.0
23 bis(2-Chloroethyl)ether	1.60335	1.71077	0.010	6.7	50.0
24 2-Chlorophenol	1.37996	1.31109	0.010	-5.0	50.0
26 1,3-Dichlorobenzene	1.33370	1.42893	0.010	7.1	50.0
27 1,4-Dichlorobenzene	1.35697	1.42657	0.010	5.1	20.0
28 1,2-Dichlorobenzene	1.22391	1.29719	0.010	6.0	50.0
29 Benzyl Alcohol	0.86066	0.95321	0.010	10.8	50.0
30 2-Methylphenol	1.38415	1.46277	0.010	5.7	50.0
31 bis(2-Chloroisopropyl)ether	2.20195	2.14114	0.010	-2.8	50.0
37 Acetophenone	1.82383	1.89686	0.010	4.0	50.0
32 N-Nitroso-di-n-propylamine	1.19800	1.10524	0.050	-7.7	50.0
192 4-Methylphenol	1.23512	1.31662	0.010	6.6	50.0
34 Hexachloroethane	0.53600	0.59197	0.010	10.4	50.0
35 Nitrobenzene	0.40071	0.41167	0.010	2.7	50.0
41 Isophorone	0.78044	0.79682	0.010	2.1	50.0
42 2-Nitrophenol	0.14645	0.15100	0.010	3.1	20.0
43 2,4-Dimethylphenol	0.30702	0.35014	0.010	14.0	50.0
44 bis(2-Chloroethoxy)methane	0.47109	0.53980	0.010	14.6	50.0
46 2,4-Toluediamene	0.02779	0.02176	0.010	-21.7	50.0
47 1,3,5-Trichlorobenzene	0.22315	0.26903	0.010	20.6	50.0
48 2,4-Dichlorophenol	0.21917	0.23757	0.010	8.4	20.0
49 Benzoic Acid	0.12768	0.11041	0.010	-13.5	50.0
50 1,2,4-Trichlorobenzene	0.22012	0.24490	0.010	11.3	50.0
51 Naphthalene	0.91244	0.94359	0.010	3.4	50.0
52 4-Chloroaniline	0.37857	0.35040	0.010	-7.4	50.0
56 Hexachlorobutadiene	0.09917	0.11790	0.010	18.9	20.0
210 Caprolactam	0.10871	0.11678	0.010	7.4	50.0
57 1,2,3-Trichlorobenzene	0.21460	0.24551	0.010	14.4	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-AUG-2000 12:03
 Lab File ID: 9SM0810.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00810a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
59 4-Chloro-3-Methylphenol	0.26184	0.29622	0.010	13.1	20.0
62 2-Methylnaphthalene	0.53858	0.56688	0.010	5.3	50.0
63 1-Methylnaphthalene	0.53599	0.57324	0.010	6.9	50.0
64 Hexachlorocyclopentadiene	0.23383	0.22212	0.050	-5.0	50.0
66 2,4,6-Trichlorophenol	0.27269	0.29758	0.010	9.1	20.0
67 2,4,5-Trichlorophenol	0.27862	0.28817	0.010	3.4	50.0
211 1,1'-Biphenyl	0.95781	0.98988	0.010	3.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.34180	0.40865	0.010	19.6	50.0
70 2-Chloronaphthalene	0.86751	0.89113	0.010	2.7	50.0
73 2-Nitroaniline	0.36203	0.29640	0.010	-18.1	50.0
74 1,2,3,4-Tetrachlorobenzene	0.34703	0.38996	0.010	12.4	50.0
76 Dimethylphthalate	1.03297	1.09405	0.010	5.9	50.0
78 2,6-Dinitrotoluene	0.19933	0.20289	0.010	1.8	50.0
79 Acenaphthylene	1.56253	1.62841	0.010	4.2	50.0
80 1,2-Dinitrobenzene	0.12369	0.10873	0.010	-12.1	50.0
81 3-Nitroaniline	0.26693	0.20994	0.010	-21.3	50.0
82 Acenaphthene	0.97316	1.00897	0.010	3.7	20.0
83 2,4-Dinitrophenol	0.09194	0.05034	0.050	-45.2	50.0
85 4-Nitrophenol	0.08749	0.07790	0.050	-11.0	50.0
86 Dibenzofuran	1.25250	1.26151	0.010	0.7	50.0
87 2,4-Dinitrotoluene	0.30133	0.25800	0.010	-14.4	50.0
91 2,3,5,6-Tetrachlorophenol	0.21192	0.20800	0.010	-1.8	50.0
93 Diethylphthalate	1.09322	1.08908	0.010	-0.4	50.0
94 Fluorene	1.01758	1.02867	0.010	1.1	50.0
95 4-Chlorophenyl-phenylether	0.41374	0.44707	0.010	8.1	50.0
96 4-Nitroaniline	0.25335	0.19526	0.010	-22.9	50.0
98 4,6-Dinitro-2-methylphenol	0.09295	0.07794	0.010	-16.2	50.0
99 N-Nitrosodiphenylamine	0.53342	0.53671	0.010	0.6	20.0
100 1,2-Diphenylhydrazine	1.10379	1.07197	0.010	-2.9	50.0
106 4-Bromophenyl-phenylether	0.15989	0.17584	0.010	10.0	50.0
107 Hexachlorobenzene	0.16226	0.19029	0.010	17.3	50.0
212 Atrazine	0.15882	0.18031	0.010	13.5	50.0
111 Pentachlorophenol	0.09921	0.10027	0.010	1.1	20.0
115 Phenanthrene	0.96612	1.01477	0.010	5.0	50.0
116 Anthracene	0.94858	0.93631	0.010	-1.3	50.0

Data File: \\qcanoh05\dd\chem\MSS\a4hp9.i\00810a.b\9SM0810.D
 Report Date: 10-Aug-2000 12:44

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i
 Lab File ID: 9SM0810.D
 Analysis Type:
 Lab Sample ID: sstd008
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00810a.b\8270c.m

Injection Date: 10-AUG-2000 12:03
 Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Init. Cal. Times: 10:00 06:35
 Quant Type: ISTD

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
119 Carbazole	0.85460	0.77921	0.010	-8.8	50.0
120 Di-n-Butylphthalate	1.27630	1.45580	0.010	14.1	50.0
123 Fluoranthene	0.83238	0.90211	0.010	8.4	20.0
124 Benzidine	0.55796	0.36869	0.010	-33.9	50.0
125 Pyrene	1.87826	1.59832	0.010	-14.9	50.0
131 Butylbenzylphthalate	1.04838	0.89688	0.010	-14.5	50.0
133 3,3'-Dimethoxybenzidine	0.18499	0.18248	0.010	-1.4	50.0
135 3,3'-Dichlorobenzidine	0.35752	0.37436	0.010	4.7	50.0
136 Benzo(a)Anthracene	1.30828	1.16534	0.010	-10.9	50.0
137 Chrysene	1.27841	1.10272	0.010	-13.7	50.0
138 4,4'-Methylene bis(o-chloro	0.19339	0.19086	0.010	-1.3	50.0
139 bis(2-ethylhexyl) Phthalate	1.47436	1.32798	0.010	-9.9	50.0
140 Di-n-octylphthalate	2.33169	2.30113	0.010	-1.3	20.0
141 Benzo(b)fluoranthene	1.21324	1.16744	0.010	-3.8	50.0
142 Benzo(k)fluoranthene	1.21111	1.19715	0.010	-1.2	50.0
146 Benzo(a)pyrene	1.04412	1.03713	0.010	-0.7	20.0
149 Indeno(1,2,3-cd)pyrene	0.92602	1.02771	0.010	11.0	50.0
150 Dibenz(a,h)anthracene	0.78743	0.85058	0.010	8.0	50.0
151 Benzo(g,h,i)perylene	0.81385	0.87465	0.010	7.5	50.0
\$ 154 Nitrobenzene-d5	0.40091	0.39618	0.010	-1.2	50.0
\$ 155 2-Fluorobiphenyl	1.01764	1.08976	0.010	7.1	50.0
\$ 156 Terphenyl-d14	1.06308	0.88124	0.010	-17.1	50.0
\$ 157 Phenol-d5	1.87847	1.82241	0.010	-3.0	50.0
\$ 158 2-Fluorophenol	1.51153	1.49064	0.010	-1.4	50.0
\$ 159 2,4,6-Tribromophenol	0.09335	0.09224	0.010	-1.2	50.0
\$ 186 2-Chlorophenol-d4	1.19866	1.17165	0.010	-2.3	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.73569	0.80716	0.010	9.7	50.0
M 195 Cresols, total	2.61927	2.77940	0.010	6.1	50.0
101 Diphenylamine	0.53342	0.53671	0.010	0.6	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-AUG-2000 12:41
 Lab File ID: 9AM0810.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00810a.b\8270c.m

COMPOUND	RRP	RP16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.70040	0.80123	0.010	14.4	50.0
8 Ethyl methanesulfonate	1.45055	1.31969	0.010	-9.0	50.0
14 2-Picoline	1.93371	1.97933	0.010	2.4	50.0
15 N-Nitrosomethylethylamine	0.93888	0.94026	0.010	0.1	50.0
16 Methyl methanesulfonate	0.90506	0.84874	0.010	-6.2	50.0
18 1,3-Dichloro-2-propanol	2.25474	2.10230	0.010	-6.8	50.0
19 N-Nitrosodiethylamine	0.85963	0.90863	0.010	5.7	50.0
25 Pentachloroethane	0.45555	0.49354	0.010	8.3	50.0
36 N-Nitrosopyrrolidine	0.74858	0.80818	0.010	8.0	50.0
37 Acetophenone	1.82383	2.12704	0.010	16.6	50.0
39 o-Toluidine	2.20145	2.34460	0.010	6.5	50.0
40 N-Nitrosopiperidine	0.20356	0.21391	0.010	5.1	50.0
45 O,O,O-Triethyl phosphorothi	0.12219	0.14509	0.010	18.7	50.0
53 a,a-Dimethyl-phenethylamine	0.84222	0.57687	0.010	-31.5	50.0
54 2,6-Dichlorophenol	0.21710	0.24248	0.010	11.7	50.0
55 Hexachloropropene	0.11703	0.11216	0.010	-4.2	50.0
58 N-Nitrosodi-n-butylamine	0.27732	0.28197	0.010	1.7	50.0
60 p-Phenylene diamine	0.24243	0.15879	0.010	-34.5	50.0
61 Safrole	0.22348	0.24264	0.010	8.6	50.0
65 1,2,4,5-Tetrachlorobenzene	0.40602	0.46023	0.010	13.4	50.0
71 Isosafrole 1	0.15438	0.15221	0.010	-1.4	50.0
M 188 Isosafrole, Total	0.96945	1.01142	0.010	4.3	50.0
72 Isosafrole 2	0.81507	0.85921	0.010	5.4	50.0
75 1,4-Naphthoquinone	0.42526	0.40341	0.010	-5.1	50.0
84 Pentachlorobenzene	0.33351	0.36077	0.010	8.2	50.0
89 1-Naphthylamine	1.01540	0.90284	0.010	-11.1	50.0
92 2-Naphthylamine	0.88080	0.80712	0.010	-8.4	50.0
90 Zinophos	0.34569	0.36101	0.010	4.4	50.0
102 Tetraethyl dithiopyrophosph	0.08939	0.10955	0.010	22.6	50.0
103 Diallate 1	0.91657	1.04812	0.010	14.4	50.0
M 189 Diallate, Total	2.73792	2.89589	0.010	5.8	50.0
109 Diallate 2	0.19445	0.20449	0.010	5.2	50.0
104 Phorate	0.20279	0.24267	0.010	19.7	50.0
105 1,3,5-Trinitrobenzene	0.05767	0.03982	0.010	-31.0	50.0
108 Phenacetin	0.44986	0.44310	0.010	-1.5	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 10-AUG-2000 12:41
 Lab File ID: 9AM0810.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\qcanoh05\dd\chem\MSS\a4hp9.i\00810a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
110 Dimethoate	0.55144	0.56505	0.010	2.5	50.0
112 Pentachloronitrobenzene	0.06757	0.07020	0.010	3.9	50.0
113 4-Aminobiphenyl	0.61099	0.51195	0.010	-16.2	50.0
114 Pronamide	0.33315	0.37703	0.010	13.2	50.0
117 Dinoseb	0.12526	0.10560	0.010	-15.7	50.0
118 Disulfoton	0.65308	0.77899	0.010	19.3	50.0
121 4-Nitroquinoline 1-oxide	0.07831	0.06304	0.010	-19.5	50.0
122 Methapyrilene	0.42802	0.34399	0.010	-19.6	50.0
126 Aramite 1	0.11999	0.11769	0.010	-1.9	50.0
M 191 Aramite, Total	0.37804	0.39295	0.010	3.9	50.0
127 Aramite 2	0.16813	0.16084	0.010	-4.3	50.0
128 p-Dimethylamino azobenzene	0.34881	0.32401	0.010	-7.1	50.0
129 p-Chlorobenzilate	0.68861	0.63201	0.010	-8.2	50.0
130 Pamphur	0.31964	0.47092	0.010	47.3	50.0
132 3,3'-Dimethylbenzidine	0.36404	0.43636	0.010	19.9	50.0
134 2-Acetylaminofluorene	0.46124	0.50510	0.010	9.5	50.0
143 7,12-dimethylbenz[a]anthrac	0.78546	0.60412	0.010	-23.1	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0 <-
145 Hexachlorophene product	++++	++++	0.010	++++	50.0 <-
148 3-Methylcholanthrene	0.71189	0.61370	0.010	-13.8	50.0
193 3-Methylphenol	1.29571	1.43944	0.010	11.1	50.0
69 1,4-Dinitrobenzene	0.17022	0.12212	0.010	-28.3	50.0
77 m-Dinitrobenzene	0.19547	0.15142	0.010	-22.5	50.0
198 1,4-Dioxane	0.70754	0.86759	0.010	22.6	50.0
88 2,3,4,6-Tetrachlorophenol	0.19241	0.18302	0.010	-4.9	50.0
97 5-Nitro-o-toluidine	0.31436	0.26200	0.010	-16.7	50.0
199 3-Picoline	1.78713	1.73484	0.010	-2.9	50.0
200 N,N-Dimethylacetamide	1.46698	1.47018	0.010	0.2	50.0

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: MP022

Lab File ID: 9SM0811D

DFTPP Injection Date: 08/11/00

Instrument ID: A4HP9

DFTPP Injection Time: 0935

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.2
68	Less than 2.0% of mass 69	0.5 (0.9)1
69	Mass 69 relative abundance	54.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.9
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	16.7
365	Greater than 1.0% of mass 198	1.4
441	Present, but less than mass 443	9.3
442	Greater than 40.0% of mass 198	54.1
443	17.0 - 23.0% of mass 442	10.4 (19.3)2

1-Value is % of mass 69

2-Value is % of mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD008	SSTD008	9SM0811	08/11/00	0935
02	ASTD008	ASTD008	9AM0811A	08/11/00	1050
03	DHFE4BLK	DHFE4101	DHFE4101	08/11/00	1128
04	MPT-55-SS-09	DHD49110	DHD49110	08/11/00	1320
05	MPT-55-SD-03	DHD48110	DHD48110	08/11/00	1357
06	MPT-55-SD-02	DHD3R110	DHD3R110	08/11/00	1435
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STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 11-AUG-2000 09:35
 Lab File ID: 9SM0811.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00811a.b\8270c.m

COMPOUND	RRP	RP16	MIN RRP	RD	MAX RD
9 Pyridine	1.78035	1.39097	0.010	-21.9	50.0
10 N-Nitrosodimethylamine	1.21665	1.11695	0.010	-8.2	50.0
11 Ethyl methacrylate	1.54567	1.58302	0.010	2.4	50.0
12 3-Chloropropionitrile	0.84632	0.91454	0.010	8.1	50.0
13 Malononitrile	2.13558	1.71974	0.010	-19.5	50.0
209 Benzaldehyde	1.11930	1.16586	0.010	4.2	50.0
21 Aniline	2.51782	2.28705	0.010	-9.2	50.0
22 Phenol	2.02969	2.28202	0.010	12.4	20.0
23 bis(2-Chloroethyl)ether	1.60335	1.80824	0.010	12.8	50.0
24 2-Chlorophenol	1.37996	1.31811	0.010	-4.5	50.0
26 1,3-Dichlorobenzene	1.33370	1.45404	0.010	9.0	50.0
27 1,4-Dichlorobenzene	1.35697	1.43877	0.010	6.0	20.0
28 1,2-Dichlorobenzene	1.22391	1.29690	0.010	6.0	50.0
29 Benzyl Alcohol	0.86066	0.95425	0.010	10.9	50.0
30 2-Methylphenol	1.38415	1.46386	0.010	5.8	50.0
31 bis(2-Chloroisopropyl)ether	2.20195	2.27754	0.010	3.4	50.0
37 Acetophenone	1.82383	1.96884	0.010	8.0	50.0
32 N-Nitroso-di-n-propylamine	1.19800	1.15114	0.050	-3.9	50.0
192 4-Methylphenol	1.23512	1.39774	0.010	13.2	50.0
34 Hexachloroethane	0.53600	0.60723	0.010	13.3	50.0
35 Nitrobenzene	0.40071	0.43574	0.010	8.7	50.0
41 Isophorone	0.78044	0.83015	0.010	6.4	50.0
42 2-Nitrophenol	0.14645	0.15448	0.010	5.5	20.0
43 2,4-Dimethylphenol	0.30702	0.35779	0.010	16.5	50.0
44 bis(2-Chloroethoxy)methane	0.47109	0.55294	0.010	17.4	50.0
46 2,4-Toluenediamine	0.02779	0.01722	0.010	-38.0	50.0
47 1,3,5-Trichlorobenzene	0.22315	0.27010	0.010	21.0	50.0
48 2,4-Dichlorophenol	0.21917	0.23243	0.010	6.1	20.0
49 Benzoic Acid	0.12768	0.08425	0.010	-34.0	50.0
50 1,2,4-Trichlorobenzene	0.22012	0.24471	0.010	11.2	50.0
51 Naphthalene	0.91244	0.96412	0.010	5.7	50.0
52 4-Chloroaniline	0.37857	0.34171	0.010	-9.7	50.0
56 Hexachlorobutadiene	0.09917	0.11857	0.010	19.6	20.0
210 Caprolactam	0.10871	0.11218	0.010	3.2	50.0
57 1,2,3-Trichlorobenzene	0.21460	0.24484	0.010	14.1	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 11-AUG-2000 09:35
 Lab File ID: 9SM0811.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00811a.b\8270c.m

COMPOUND	RRP	RF16	MIN RRP	%D	MAX %D
59 4-Chloro-3-Methylphenol	0.26184	0.28700	0.010	9.6	20.0
62 2-Methylnaphthalene	0.53858	0.56440	0.010	4.8	50.0
63 1-Methylnaphthalene	0.53599	0.57479	0.010	7.2	50.0
64 Hexachlorocyclopentadiene	0.23383	0.22545	0.050	-3.6	50.0
66 2,4,6-Trichlorophenol	0.27269	0.28734	0.010	5.4	20.0
67 2,4,5-Trichlorophenol	0.27862	0.27526	0.010	-1.2	50.0
211 1,1'-Biphenyl	0.95781	0.98905	0.010	3.3	50.0
68 1,2,3,5-Tetrachlorobenzene	0.34180	0.40911	0.010	19.7	50.0
70 2-Chloronaphthalene	0.86751	0.89723	0.010	3.4	50.0
73 2-Nitroaniline	0.36203	0.31239	0.010	-13.7	50.0
74 1,2,3,4-Tetrachlorobenzene	0.34703	0.38646	0.010	11.4	50.0
76 Dimethylphthalate	1.03297	1.08835	0.010	5.4	50.0
78 2,6-Dinitrotoluene	0.19933	0.21053	0.010	5.6	50.0
79 Acenaphthylene	1.56253	1.62307	0.010	3.9	50.0
80 1,2-Dinitrobenzene	0.12369	0.11324	0.010	-8.4	50.0
81 3-Nitroaniline	0.26693	0.22402	0.010	-16.1	50.0
82 Acenaphthene	0.97316	1.00074	0.010	2.8	20.0
83 2,4-Dinitrophenol	0.09194	0.05722	0.050	-37.8	50.0
85 4-Nitrophenol	0.08749	0.08503	0.050	-2.8	50.0
86 Dibenzofuran	1.25250	1.24024	0.010	-1.0	50.0
87 2,4-Dinitrotoluene	0.30133	0.27316	0.010	-9.3	50.0
91 2,3,5,6-Tetrachlorophenol	0.21192	0.20421	0.010	-3.6	50.0
93 Diethylphthalate	1.09322	1.08808	0.010	-0.5	50.0
94 Fluorene	1.01758	1.00844	0.010	-0.9	50.0
95 4-Chlorophenyl-phenylether	0.41374	0.44158	0.010	6.7	50.0
96 4-Nitroaniline	0.25335	0.20517	0.010	-19.0	50.0
98 4,6-Dinitro-2-methylphenol	0.09295	0.08586	0.010	-7.6	50.0
99 N-Nitrosodiphenylamine	0.53342	0.53991	0.010	1.2	20.0
100 1,2-Diphenylhydrazine	1.10379	1.14891	0.010	4.1	50.0
106 4-Bromophenyl-phenylether	0.15989	0.17533	0.010	9.7	50.0
107 Hexachlorobenzene	0.16226	0.19101	0.010	17.7	50.0
212 Atrazine	0.15882	0.18418	0.010	16.0	50.0
111 Pentachlorophenol	0.09921	0.09664	0.010	-2.6	20.0
115 Phenanthrene	0.96612	1.02737	0.010	6.3	50.0
116 Anthracene	0.94858	0.96619	0.010	1.9	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 11-AUG-2000 09:35
 Lab File ID: 9SM0811.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: sstd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00811a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	RD	MAX RD
119 Carbazole	0.85460	0.85047	0.010	-0.5	50.0
120 Di-n-Butylphthalate	1.27630	1.48552	0.010	16.4	50.0
123 Fluoranthene	0.83238	0.94184	0.010	13.1	20.0
124 Benzidine	0.55796	0.37062	0.010	-33.6	50.0
125 Pyrene	1.87826	1.54527	0.010	-17.7	50.0
131 Butylbenzylphthalate	1.04838	0.84742	0.010	-19.2	50.0
133 3,3'-Dimethoxybenzidine	0.18499	0.18307	0.010	-1.0	50.0
135 3,3'-Dichlorobenzidine	0.35752	0.37585	0.010	5.1	50.0
136 Benzo(a)Anthracene	1.30828	1.13188	0.010	-13.5	50.0
137 Chrysene	1.27841	1.08224	0.010	-15.3	50.0
138 4,4'-Methylene bis(o-chloro	0.19339	0.19061	0.010	-1.4	50.0
139 bis(2-ethylhexyl)Phthalate	1.47436	1.25052	0.010	-15.2	50.0
140 Di-n-octylphthalate	2.33169	2.17220	0.010	-6.8	20.0
141 Benzo(b)fluoranthene	1.21324	1.16546	0.010	-3.9	50.0
142 Benzo(k)fluoranthene	1.21111	1.19650	0.010	-1.2	50.0
146 Benzo(a)pyrene	1.04412	1.02235	0.010	-2.1	20.0
149 Indeno(1,2,3-cd)pyrene	0.92602	1.02259	0.010	10.4	50.0
150 Dibenz(a,h)anthracene	0.78743	0.84324	0.010	7.1	50.0
151 Benzo(g,h,i)perylene	0.81385	0.85630	0.010	5.2	50.0
\$ 154 Nitrobenzene-d5	0.40091	0.41992	0.010	4.7	50.0
\$ 155 2-Fluorobiphenyl	1.01764	1.08305	0.010	6.4	50.0
\$ 156 Terphenyl-d14	1.06308	0.85506	0.010	-19.6	50.0
\$ 157 Phenol-d5	1.87847	1.84402	0.010	-1.8	50.0
\$ 158 2-Fluorophenol	1.51153	1.48673	0.010	-1.6	50.0
\$ 159 2,4,6-Tribromophenol	0.09335	0.09276	0.010	-0.6	50.0
\$ 186 2-Chlorophenol-d4	1.19866	1.17519	0.010	-2.0	50.0
\$ 187 1,2-Dichlorobenzene-d4	0.73569	0.82150	0.010	11.7	50.0
M 195 Cresols, total	2.61927	2.86159	0.010	9.3	50.0
101 Diphenylamine	0.53342	0.53991	0.010	1.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 11-AUG-2000 10:50
 Lab File ID: 9AM0811A.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00811a.b\8270c.m

COMPOUND	RRF	RF16	MIN RRF	%D	MAX %D
7 N-Nitrosomorpholine	0.70040	0.85330	0.010	21.8	50.0
8 Ethyl methanesulfonate	1.45055	1.38907	0.010	-4.2	50.0
14 2-Picoline	1.93371	2.03382	0.010	5.2	50.0
15 N-Nitrosomethyl ethylamine	0.93888	0.96659	0.010	3.0	50.0
16 Methyl methanesulfonate	0.90506	0.90228	0.010	-0.3	50.0
18 1,3-Dichloro-2-propanol	2.25474	2.15294	0.010	-4.5	50.0
19 N-Nitrosodiethylamine	0.85963	0.93700	0.010	9.0	50.0
25 Pentachloroethane	0.45555	0.50178	0.010	10.1	50.0
36 N-Nitrosopyrrolidine	0.74858	0.83220	0.010	11.2	50.0
37 Acetophenone	1.82383	2.16058	0.010	18.5	50.0
39 o-Toluidine	2.20145	2.36155	0.010	7.3	50.0
40 N-Nitrosopiperidine	0.20356	0.21482	0.010	5.5	50.0
45 O,O,O-Triethyl phosphorothi	0.12219	0.14302	0.010	17.0	50.0
53 a,a-Dimethyl-phenethylamine	0.84222	0.60069	0.010	-28.7	50.0
54 2,6-Dichlorophenol	0.21710	0.23343	0.010	7.5	50.0
55 Hexachloropropene	0.11703	0.11476	0.010	-1.9	50.0
58 N-Nitrosodi-n-butylamine	0.27732	0.29068	0.010	4.8	50.0
60 p-Phenylene diamine	0.24243	0.14951	0.010	-38.3	50.0
61 Safrole	0.22348	0.23842	0.010	6.7	50.0
65 1,2,4,5-Tetrachlorobenzene	0.40602	0.45303	0.010	11.6	50.0
71 Isosafrole 1	0.15438	0.14977	0.010	-3.0	50.0
M 188 Isosafrole, Total	0.96945	0.99580	0.010	2.7	50.0
72 Isosafrole 2	0.81507	0.84603	0.010	3.8	50.0
75 1,4-Naphthoquinone	0.42526	0.39532	0.010	-7.0	50.0
84 Pentachlorobenzene	0.33351	0.35764	0.010	7.2	50.0
89 1-Naphthylamine	1.01540	0.87005	0.010	-14.3	50.0
92 2-Naphthylamine	0.88080	0.72146	0.010	-18.1	50.0
90 Zinophos	0.34569	0.37259	0.010	7.8	50.0
102 Tetraethyl dithiopyrophosph	0.08939	0.11164	0.010	24.9	50.0
103 Diallate 1	0.91657	1.11946	0.010	22.1	50.0
M 189 Diallate, Total	2.73792	3.02535	0.010	10.5	50.0
109 Diallate 2	0.19445	0.22087	0.010	13.6	50.0
104 Phorate	0.20279	0.24973	0.010	23.1	50.0
105 1,3,5-Trinitrobenzene	0.05767	0.05262	0.010	-8.8	50.0
108 Phenacetin	0.44986	0.46427	0.010	3.2	50.0

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a4hp9.i Injection Date: 11-AUG-2000 10:50
 Lab File ID: 9AM0811A.D Init. Cal. Date(s): 07-AUG-2000 09-AUG-2000
 Analysis Type: Init. Cal. Times: 10:00 06:35
 Lab Sample ID: astd008 Quant Type: ISTD
 Method: \\QCANOH05\dd\chem\MSS\a4hp9.i\00811a.b\8270c.m

COMPOUND	RRF	RP16	MIN RRF	%D	MAX %D
110 Dimethoate	0.55144	0.59021	0.010	7.0	50.0
112 Pentachloronitrobenzene	0.06757	0.07620	0.010	12.8	50.0
113 4-Aminobiphenyl	0.61099	0.51766	0.010	-15.3	50.0
114 Pronamide	0.33315	0.37568	0.010	12.8	50.0
117 Dinoseb	0.12526	0.13158	0.010	5.0	50.0
118 Disulfoton	0.65308	0.81403	0.010	24.6	50.0
121 4-Nitroquinoline 1-oxide	0.07831	0.07000	0.010	-10.6	50.0
122 Methapyrilene	0.42802	0.40294	0.010	-5.9	50.0
126 Aramite 1	0.11999	0.11318	0.010	-5.7	50.0
M 191 Aramite, Total	0.37804	0.38241	0.010	1.2	50.0
127 Aramite 2	0.16813	0.15853	0.010	-5.7	50.0
128 p-Dimethylamino azobenzene	0.34881	0.30890	0.010	-11.4	50.0
129 p-Chlorobenzilate	0.68861	0.64808	0.010	-5.9	50.0
130 Pamphur	0.31964	0.45572	0.010	42.6	50.0
132 3,3'-Dimethylbenzidine	0.36404	0.38459	0.010	5.6	50.0
134 2-Acetylaminofluorene	0.46124	0.50888	0.010	10.3	50.0
143 7,12-dimethylbenz[a]anthrac	0.78546	0.60259	0.010	-23.3	50.0
144 Hexachlorophene	++++	++++	0.010	++++	50.0
145 Hexachlorophene product	++++	++++	0.010	++++	50.0
148 3-Methylcholanthrene	0.71189	0.59894	0.010	-15.9	50.0
193 3-Methylphenol	1.29571	1.64407	0.010	26.9	50.0
69 1,4-Dinitrobenzene	0.17022	0.13184	0.010	-22.5	50.0
77 m-Dinitrobenzene	0.19547	0.15880	0.010	-18.8	50.0
198 1,4-Dioxane	0.70754	0.89077	0.010	25.9	50.0
88 2,3,4,6-Tetrachlorophenol	0.19241	0.17611	0.010	-8.5	50.0
97 5-Nitro-o-toluidina	0.31436	0.25970	0.010	-17.4	50.0
199 3-Picoline	1.78713	1.76597	0.010	-1.2	50.0
200 N,N-Dimethylacetamide	1.46698	1.48206	0.010	1.0	50.0

STL - North Canton

Semivolatile REPORT SW-846 Method 8270
 Data file : \\qcanoh05\dd\chem\MSS\a4hp9.i\00809a.b\DH9J210X.D
 Lab Smp Id: DH9J210X Client Smp ID: MPT-55-SS-04-01
 Inj Date : 09-AUG-2000 21:33
 Operator : 001710 Inst ID: a4hp9.i
 Smp Info : dh9j210x,00809a.b,8270c,4-8270ap9.sub
 Misc Info :
 Comment :
 Method : \\QCANOH05\dd\chem\MSS\a4hp9.i\00809a.b\8270c.m
 Meth Date : 10-Aug-2000 08:41 gruberj Quant Type: ISTD
 Cal Date : 09-AUG-2000 06:35 Cal File: 9AHH0808.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: CANPMSSV02
 Compound Sublist: 4-8270ap9.sub

Concentration Formula: $Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100)$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	5000.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.160	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
* 1 1,4-Dichlorobenzene-d4	152	7.260	7.262	(1.000)	400599	8.00000	(Q)
* 2 Naphthalene-d8	136	9.616	9.618	(1.000)	1553974	8.00000	
* 3 Acenaphthene-d10	164	13.109	13.112	(1.000)	794784	8.00000	
* 4 Phenanthrene-d10	188	16.096	16.093	(1.000)	1047825	8.00000	
* 5 Chrysene-d12	240	21.459	21.456	(1.000)	485329	8.00000	
* 6 Perylene-d12	264	24.141	24.138	(1.000)	342952	8.00000	
7 N-Nitrosomorpholine	56	Compound Not Detected.					
8 Ethyl methanesulfonate	79	Compound Not Detected.					
9 Pyridine	79	Compound Not Detected.					
10 N-Nitrosodimethylamine	74	Compound Not Detected.					
11 Ethyl methacrylate	69	Compound Not Detected.					
12 3-Chloropropionitrile	54	Compound Not Detected.					
13 Malononitrile	66	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/kg)
109 Diallate 2	86				Compound Not Detected.		
110 Dimethoate	87				Compound Not Detected.		
111 Pentachlorophenol	266				Compound Not Detected.		
112 Pentachloronitrobenzene	237				Compound Not Detected.		
113 4-Aminobiphenyl	169				Compound Not Detected.		
114 Pronamide	173				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
117 Dinoseb	211				Compound Not Detected.		
118 Disulfoton	88				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
121 4-Nitroquinoline 1-oxide	190				Compound Not Detected.		
122 Methapyrilene	58				Compound Not Detected.		
123 Fluoranthene	202	18.548	18.550 (1.152)		165054	1.51392	125.49
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202	18.997	18.999 (0.885)		145913	1.28054	106.14
126 Aramite 1	185				Compound Not Detected.		
M 191 Aramite, Total	100				Compound Not Detected.		
127 Aramite 2	185				Compound Not Detected.		
128 p-Dimethylamino azobenzene	225				Compound Not Detected.		
129 p-Chlorobenzilate	139				Compound Not Detected.		
130 Famphur	218				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
132 3,3'-Dimethylbenzidine	212				Compound Not Detected.		
133 3,3'-Dimethoxybenzidine	244				Compound Not Detected.		
134 2-Acetylaminofluorene	181				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228	21.438	21.435 (0.999)		45712	0.57595	47.741
137 Chrysene	228	21.507	21.510 (1.002)		83257	1.07350	88.984
138 4,4'-Methylene bis(o-chloroan	231				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149	21.636	21.633 (1.008)		134178	1.50014	124.35
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252	23.473	23.476 (0.972)		96334	1.85221	153.53 (M) 2
142 Benzo(k)fluoranthene	252	23.500	23.519 (0.973)		45290	0.87232	72.307 (M) 3
143 7,12-dimethylbenz(a)anthracen	256				Compound Not Detected.		
144 Hexachlorophene	198				Compound Not Detected.		
145 Hexachlorophene product	462				Compound Not Detected.		
146 Benzo(a)pyrene	252	24.039	24.037 (0.996)		41406	0.92506	76.680
148 3-Methylcholanthrene	268				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276	25.915	25.912 (1.073)		39192	0.98727	81.836
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276	26.411	26.403 (1.094)		42770	1.22589	101.62
\$ 154 Nitrobenzene-d5	82	8.296	8.299 (0.863)		894223	11.4828	951.83
\$ 155 2-Fluorobiphenyl	172	11.790	11.787 (0.899)		1179232	11.6639	966.84
\$ 156 Terphenyl-d14	244	19.386	19.384 (0.903)		859882	13.3329	1105.2
\$ 157 Phenol-d5	99	6.672	6.659 (0.919)		1717239	18.2561	1513.3

North Canton GC/MS SEMIVOLATILE RUN LOG

DATE: 8-9-00

COLUMN TYPE: PXT-5

ANALYSIS 40 deg. C for 1.5 min.

CASE NO. _____
SDG NO. _____

LENGTH: 30

to 320 deg. C @ 11.5 deg. C/min

ID: .32 mm

hold for 2.7 min.

FILM THICKNESS: .5 MICRONS F.D. = 2.5 E.T. = 27:53 I.S.# 2300 TUNE: DFTR-U

FILE NAME	LOT #/ FILE NAME	SAMPLE PREP	D.F.	QUAL	COMMENTS	ANALYST
9DF0809A	SV2285			OK	(11:03)	J.
9SM0809	SV2358			OK	Cal Std OK MW Checked by: 8-10-00	J.
9AM0809	SV2284	* 2nd source continuing		OK		
DH9RG101	B	B-4 30g-Sul	ST	OK		
DH9RG102	C			OK		
DH7ME102				OK		
DH7ME111	MS			OK		
DH7ME112	MSD			OK		
DH9MH10X				OK		
DH9MJ10X				OK		
DH9LH10X				OK		
DH9M910X			50:100	OK		
DH9R6110			ST	OK		
DH9PW110				OK		
DH9GA10X				OK		
DH9HV10X				OK		
DH9HM10X				OK		
DH9J210X				OK		
DHAF610A				OK		
DHAFQ10C				OK		
DH9MK10X				OK	scan out of line	
J 8-9-00						

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 8/16/00
Time: 11:11:53

* QC BATCH: 0216337 *
* PREP DATE: 8/04/00 *
* COMP DATE: 8/04/00 *

PREP DATE: 8/04/00
COMP DATE: 8/04/00

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MIH	MATRIX	INIT/FIN WT/VOL	PH'S INIT	ADJ1	ADJ2	SOLVENTS EXTRACTION VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
8/14/00 COMMENTS:	8/21/00	A0H030175-003 DH9HV-1-0X	D	13	QL	SOLID	30.02g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/14/00 COMMENTS:	8/21/00	A0H030175-004 DH9J2-1-0X	D	13	QL	SOLID	30.16g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/15/00 COMMENTS:	8/22/00	A0H030185-001 DH9IH-1-0X	D	13	QL	SOLID	30.05g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/15/00 COMMENTS:	8/22/00	A0H030185-003 DH9MI-1-0X	D	13	QL	SOLID	30.10g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/15/00 COMMENTS:	8/22/00	A0H030185-004 DH9MJ-1-0X	D	13	QL	SOLID	30.18g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/15/00 COMMENTS:	8/22/00	A0H030185-005 DH9MK-1-0X	D	13	QL	SOLID	30.06g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/15/00 COMMENTS:	8/22/00	A0H030185-002 DH9M9-1-0X	D	13	QL	SOLID	30.08g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/16/00 COMMENTS:	8/23/00	A0H030201-001 DH9PW-1-10	D	13	QL	SOLID	30.02g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/14/00 COMMENTS:	0/00/00	A0H030000-337 DH9RG-1-01B		13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SUP #90291
8/14/00 COMMENTS:	0/00/00	A0H030000-337 DH9RG-1-02C		13	QL	SOLID	30.00g 5.00mL	NA	NA	NA	DCM/ACE	300.0	.0	0.5ML SPIKE #89303 0.5ML SUP #90291

CLIENT NAS Mayport		JOB NUMBER	
SUBJECT Sample Calc.			
BASED ON MPT-55-SS-04-01 (DH9J2-10X)		DRAWING NUMBER	
BY DSS	CHECKED BY	APPROVED BY	DATE 10/12/00

Fraction: Semivolatile

Matrix: Soil

Compound: Benzo (G, H, I) perlene

Form I: 120.0 ug/kg

$$\text{ug/kg} = \frac{A_X (I_s \times D_f) (GPC \times V_t)}{A_{is} (\overline{RRF}) (V_i) (W_s \times D)}$$

$$A_X = 42770 \text{ Area}$$

$$I_s = 8.0 \text{ ng}$$

$$D_f = 1$$

$$GPC = 1$$

$$V_t = 5000 \text{ ul}$$

$$A_{is} = 342952 \text{ Area}$$

$$\overline{RRF} = 0.81385$$

$$V_i = 2.0 \text{ ul}$$

$$W_s = 30.1 \text{ g}$$

$$D = 0.86$$

$$\begin{aligned} \text{ug/kg} &= \frac{42770 \text{ Area} (8.0 \text{ ng}) (1) (1) (5000 \text{ ul})}{342952 \text{ Area} (0.81385) (2.0 \text{ ul}) (30.1 \text{ g}) (0.86)} \\ &= 118.39 \text{ ng/g} \\ &\text{or } 118.39 \text{ ug/kg} \end{aligned}$$

SDG NARRATIVE

MP022

GC SEMIVOLATILES – 8081A

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample MPT-55-sss-06-01 had elevated reporting limits due to matrix interference.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SEVERN TRENT LABORATORIES Contract:
 Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022
 GC Column: CLP PESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 07/31/00 08/07/
 Instrument ID: A2HP5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		TOX3	08/07/00	1302	
02	AP93	AP9 3	08/07/00	1324	
03	PEM	PEM	08/08/00	0113	
04	AB3	AB3	08/08/00	0135	
05	MPT-55-SS-01	DH9GA103	08/08/00	0601	
06	MPT-55-SS-02	DH9HM103	08/08/00	0623	
07	PEM	PEM	08/08/00	0645	
08	AB3	AB3	08/08/00	0707	
09	PEM	PEM	08/08/00	1324	
10	AB3	AB3	08/08/00	1346	
11	MPT-55-SS-03	DH9HV103	08/08/00	1408	
12	MPT-55-SS-04	DH9J2103	08/08/00	1431	
13	MPT-55-SS-05	DH9LH103	08/08/00	1453	
14	MPT-55-SS-07	DH9MH103	08/08/00	1515	
15	MPT-55-SS-08	DH9MJ103	08/08/00	1537	
16	MPT-55-SD-01	DH9MK103	08/08/00	1559	
17	DH9QQBLK	DH9QQ101	08/08/00	1706	
18	DH9QQCHK	DH9QQ102	08/08/00	1728	
19	DH9QQCHKDUP	DH9QQ103	08/08/00	1813	
20	PEM	PEM	08/08/00	2026	
21	AB3	AB3	08/08/00	2048	
22	TOX3	TOX3	08/08/00	2110	
23	AP93	AP9 3	08/08/00	2217	
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

Column used to flag retention time values with an asterisk.
 * Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

GC Column: CLP PESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 07/31/00 08/11/

Instrument ID: A2HP5

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

ICAL {

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #	
01	PEM	PEM	08/11/00	1348		
02	AB3	AB3	08/11/00	1455		
03		TOX 3	08/11/00	1623		
04		AP9 1	08/11/00	1646		
05		AP9 2	08/11/00	1708		
06	AP93	AP9 3	08/11/00	1730		
07		AP9 4	08/11/00	1752		
08		AP9 5	08/11/00	1814		
09		AP9 6	08/11/00	1836		
10	DHJLCBLK	DHJLC101	08/11/00	2005		
11	DHJLCCHK	DHJLC102	08/11/00	2027		
12	DHJLCCHKDUP	DHJLC103	08/11/00	2049		
13	MPT-55-SD-02	DHD3R104	08/11/00	2218		
14	MPT-55-SD-03	DHD48104	08/11/00	2240		
15	PEM	PEM	08/12/00	0009		
16	AB3	AB3	08/12/00	0031		
17	MPT-55-SS-06	DH9M9103	08/12/00	0115		
18	MPT-55-SS-09	DHD49104	08/12/00	0457		
19	PEM	PEM	08/12/00	0541		
20	AB3	AB3	08/12/00	0604		
21		TOX3	08/12/00	0626		
22	AP93	AP9 3	08/12/00	0710		
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Data File: /chem/can/gcs/a2hp5.i/00807a.b/012f1201.d
Report Date: 08/08/2000

Page

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 012f1201.d
Analysis Type: NONE

Injection Date: 07-AUG-2000 13:24
Lab Sample ID: AP9 3
Method File: /chem/can/gcs/a2hp5.i/00807a.b/pesthp5a.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
32 Isodrin	0.0200	0.0197	1.7	15.0
35 Kepone	0.3200	0.2025	36.7	15.0
37 Hexachlorobenzene	0.0400	0.0390	2.5	15.0

Data File: /chem/can/gcs/a2hp5.i/00807a-r.b/012f1201.d
Report Date: 08/08/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 012f1201.d
Analysis Type: NONE

Injection Date: 07-AUG-2000 13:24
Lab Sample ID: AP9 3
Method File: /chem/can/gcs/a2hp5.i/00807a-r.b/pesthp5

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
32 Isodrin	0.0200	0.0202	1.1	15.0
35 Kepone	0.3200	0.1560	51.3	15.0
37 Hexachlorobenzene	0.0400	0.0395	1.3	15.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
 Lab File ID: 095f9501.d
 Analysis Type: NONE

Injection Date: 08-AUG-2000 20:48
 Lab Sample ID: AB3
 Method File: /chem/can/gcs/a2hp5.i/00807a.b/pesthp5a.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 alpha-BHC	0.0250	0.0255	2.2	15.0
0 gamma-BHC (Lindane)	0.0250	0.0256	2.3	15.0
0 beta-BHC	0.0250	0.0250	0.2	15.0
0 delta-BHC	0.0250	0.0250	0.1	15.0
0 Heptachlor	0.0250	0.0267	6.8	15.0
0 Aldrin	0.0250	0.0266	6.3	15.0
0 Heptachlor epoxide	0.0250	0.0269	7.5	15.0
0 gamma-Chlordane	0.0250	0.0266	6.5	15.0
0 alpha-Chlordane	0.0250	0.0269	7.6	15.0
0 4,4'-DDE	0.0250	0.0272	8.9	15.0
0 Endosulfan sulfate	0.0250	0.0263	5.1	15.0
0 Endosulfan I	0.0250	0.0270	7.8	15.0
0 Endrin ketone	0.0250	0.0271	8.4	15.0
0 Dieldrin	0.0250	0.0274	9.5	15.0
0 Endrin	0.0250	0.0283	13.3	15.0
0 4,4'-DDD	0.0250	0.0294	17.6	15.0
0 Endosulfan II	0.0250	0.0271	8.5	15.0
0 4,4'-DDT	0.0250	0.0236	5.4	15.0
0 Endrin aldehyde	0.0250	0.0282	12.7	15.0
0 Methoxychlor	0.0250	0.0256	2.3	15.0
29 Tetrachloro-m-xylene	0.0250	0.0249	0.3	15.0
30 Decachlorobiphenyl	0.0250	0.0284	13.4	15.0

Report Date: 08/10/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 095f9501.d
Analysis Type: NONE

Injection Date: 08-AUG-2000 20:48
Lab Sample ID: AB3
Method File: /chem/can/gcs/a2hp5.i/00807a-r.b/pesthp5

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 alpha-BHC	0.0250	0.0259	3.6	15.0
0 gamma-BHC (Lindane)	0.0250	0.0263	5.0	15.0
0 beta-BHC	0.0250	0.0255	1.8	15.0
0 delta-BHC	0.0250	0.0256	2.4	15.0
0 Heptachlor	0.0250	0.0276	10.4	15.0
0 Aldrin	0.0250	0.0260	3.9	15.0
0 Heptachlor epoxide	0.0250	0.0261	4.5	15.0
0 gamma-Chlordane	0.0250	0.0259	3.7	15.0
0 alpha-Chlordane	0.0250	0.0257	2.9	15.0
0 4,4'-DDE	0.0250	0.0259	3.4	15.0
0 Methoxychlor	0.0250	0.0250	0.1	15.0
0 Endosulfan I	0.0250	0.0258	3.4	15.0
0 Endrin ketone	0.0250	0.0265	6.0	15.0
0 Dieldrin	0.0250	0.0263	5.4	15.0
0 Endrin	0.0250	0.0274	9.5	15.0
0 4,4'-DDD	0.0250	0.0284	13.6	15.0
0 Endosulfan II	0.0250	0.0261	4.4	15.0
0 4,4'-DDT	0.0250	0.0224	10.5	15.0
0 Endrin aldehyde	0.0250	0.0272	8.9	15.0
0 Endosulfan sulfate	0.0250	0.0252	0.9	15.0
29 Tetrachloro-m-xylene	0.0250	0.0256	2.3	15.0
30 Decachlorobiphenyl	0.0250	0.0281	12.5	15.0

Data File: /chem/can/gcs/a2hp5.i/00807a.b/096f9601.d
Report Date: 08/10/2000

-->

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 096f9601.d
Analysis Type: NONE

Injection Date: 08-AUG-2000 21:10
Lab Sample ID: TOX3
Method File: /chem/can/gcs/a2hp5.i/00807a.b/pesthp5a.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
21 Toxaphene	1.0000	1.1578	15.8	15.0<--

Data File: /chem/can/gcs/a2hp5.i/00807a-r.b/096f9601.d
Report Date: 08/10/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 096f9601.d
Analysis Type: NONE

Injection Date: 08-AUG-2000 21:10
Lab Sample ID: TOX3
Method File: /chem/can/gcs/a2hp5.i/00807a-r.b/pesthr

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
21 Toxaphene	1.0000	1.0398	4.0	15.0

Data File: /chem/can/gcs/a2hp5.i/00807a.b/099f9901.d
Report Date: 08/09/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 099f9901.d
Analysis Type: NONE

Injection Date: 08-AUG-2000 22:17
Lab Sample ID: AP9 3
Method File: /chem/can/gcs/a2hp5.i/00807a.b/pesthp5a.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
32 Isodrin	0.0200	0.0213	6.5	15.0
35 Kepone	0.3200	0.1153	64.0	15.0
37 Hexachlorobenzene	0.0400	0.0408	2.1	15.0

Data File: /chem/can/gcs/a2hp5.i/00807a-r.b/0019901.d
Report Date: 08/10/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
Lab File ID: 099f9901.d
Analysis Type: NONE

Injection Date: 08-AUG-2000 22:17
Lab Sample ID: AP9 3
Method File: /chem/can/gcs/a2hp5.i/00807a-r.b/pesthp5

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
32 Isodrin	0.0200	0.0215	7.4	15.0
35 Kepone	0.3200	0.0952	70.2	15.0
37 Hexachlorobenzene	0.0400	0.0413	3.3	15.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
 Lab File ID: 032f3201.d
 Analysis Type: NONE

Injection Date: 12-AUG-2000 00:31
 Lab Sample ID: AB3
 Method File: /chem/can/gcs/a2hp5.i/00811a.b/pesthp5a.

COMPOUND	EXPECTED	MEASURED	%D	MAX %D
	CONC.	CONC.		
0 alpha-BHC	0.0250	0.0242	3.4	15.0
0 gamma-BHC (Lindane)	0.0250	0.0240	3.8	15.0
0 beta-BHC	0.0250	0.0237	5.1	15.0
0 delta-BHC	0.0250	0.0240	3.9	15.0
0 Heptachlor	0.0250	0.0242	3.1	15.0
0 Aldrin	0.0250	0.0235	6.0	15.0
0 Heptachlor epoxide	0.0250	0.0237	5.1	15.0
0 gamma-Chlordane	0.0250	0.0233	6.8	15.0
0 alpha-Chlordane	0.0250	0.0237	5.2	15.0
0 4,4'-DDE	0.0250	0.0228	8.7	15.0
0 Endosulfan sulfate	0.0250	0.0249	0.5	15.0
0 Endosulfan I	0.0250	0.0236	5.8	15.0
0 Endrin ketone	0.0250	0.0248	0.6	15.0
0 Dieldrin	0.0250	0.0235	5.9	15.0
0 Endrin	0.0250	0.0239	4.5	15.0
0 4,4'-DDD	0.0250	0.0244	2.4	15.0
0 Endosulfan II	0.0250	0.0245	2.1	15.0
0 4,4'-DDT	0.0250	0.0239	4.4	15.0
0 Endrin aldehyde	0.0250	0.0247	1.1	15.0
0 Methoxychlor	0.0250	0.0253	1.2	15.0
29 Tetrachloro-m-xylene	0.0250	0.0240	4.0	15.0
30 Decachlorobiphenyl	0.0250	0.0239	4.3	15.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: a2hp5.i
 Lab File ID: 032f3201.d
 Analysis Type: NONE

Injection Date: 12-AUG-2000 00:31
 Lab Sample ID: AB3
 Method File: /chem/can/gcs/a2hp5.i/00811a-r.b/pesthp5

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0 alpha-BHC	0.0250	0.0238	4.8	15.0
0 gamma-BHC (Lindane)	0.0250	0.0243	2.7	15.0
0 beta-BHC	0.0250	0.0238	4.6	15.0
0 delta-BHC	0.0250	0.0240	3.9	15.0
0 Heptachlor	0.0250	0.0257	2.7	15.0
0 Aldrin	0.0250	0.0234	6.3	15.0
0 Heptachlor epoxide	0.0250	0.0237	5.3	15.0
0 gamma-Chlordane	0.0250	0.0233	6.7	15.0
0 alpha-Chlordane	0.0250	0.0233	7.0	15.0
0 4,4'-DDE	0.0250	0.0228	8.9	15.0
0 Methoxychlor	0.0250	0.0328	31.2	15.0
0 Endosulfan I	0.0250	0.0231	7.8	15.0
0 Endrin ketone	0.0250	0.0317	27.0	15.0
0 Dieldrin	0.0250	0.0233	6.7	15.0
0 Endrin	0.0250	0.0243	3.0	15.0
0 4,4'-DDD	0.0250	0.0249	0.2	15.0
0 Endosulfan II	0.0250	0.0242	3.4	15.0
0 4,4'-DDT	0.0250	0.0262	4.9	15.0
0 Endrin aldehyde	0.0250	0.0241	3.6	15.0
0 Endosulfan sulfate	0.0250	0.0244	2.4	15.0
29 Tetrachloro-m-xylene	0.0250	0.0237	5.4	15.0
30 Decachlorobiphenyl	0.0250	0.0244	2.3	15.0

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

GC Column(1): CLP PESTICIDES ID: 0.53 (mm) GC Column(2): CLP PESTICIDES II ID

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	MPT-55-SS-01	63	64	75	0*			1
02	MPT-55-SS-02	55	56	79	0*			1
03	MPT-55-SS-03	53	54	0*	71			1
04	MPT-55-SS-04	41	42	72	66			0
05	MPT-55-SS-05	71	72	0*	86			1
06	MPT-55-SS-07	65	65	76	74			0
07	MPT-55-SS-08	61	61	0*	76			1
08	MPT-55-SD-01	46	47	0*	58			1
09	DH9QQBLK	49	50	72	70			0
10	DH9QQCHK	64	64	77	75			0
11	DH9QQCHKDUP	61	62	78	74			0
12	DHJLCBLK	68	68	88	85			0
13	DHJLCCHK	51	51	57	54			0
14	DHJLCCHKDUP	56	55	65	63			0
15	MPT-55-SD-02	95	93	97	96			0
16	MPT-55-SD-03	101	99	98	103			0
17	MPT-55-SS-06	OD	OD	590D	OD			0
18	MPT-55-SS-09	95	92	102	98			0
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (31-131)
S2 (DCB) = Decachlorobiphenyl (18-145)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

MPT-55-SD-02-01

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

Lab Sample ID: DHD3R104 Date(s) Analyzed: 08/11/00 08/11/00

Instrument ID (1): A2HP5 Instrument ID (2): A2HP5

GC Column(1): CLP PESTICIDES ID: 0.53 (mm) GC Column(2): CLP PESTICIDES II ID

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDE	1	9.88	9.83	9.93	1.513	24.3
	2	11.24	11.19	11.29	1.881	
Hexachlorobenzene	1					
	2	6.90	6.89	6.99	33.95	
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

*Reported
10/11/00*

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

MPT-55-SS-06-01

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

Lab Sample ID: DH9M9103 Date(s) Analyzed: 08/12/00 08/12/00

Instrument ID (1): A2HP5 Instrument ID (2): A2HP5

GC Column(1): CLP PESTICIDES ID: 0.53(mm) GC Column(2): CLP PESTICIDES II ID

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1					
	2	12.51	12.46	12.56	7.611	
Methoxychlor	1					
	2	14.51	14.43	14.53	82.59	
Endrin aldehyde	1	11.75	11.69	11.79	5.151	
	2	13.39	13.32	13.42	31.05	502.8
gamma-Chlordane	1					
	2	10.64	10.54	10.64	36.89	
alpha-Chlordane	1	9.63	9.59	9.69	3.680	
	2					
4,4'-DDT	1	11.27	11.26	11.36	11.56	
	2	13.20	13.17	13.27	77.08	566.8
4,4'-DDE	1	9.88	9.83	9.93	13.06	
	2	11.24	11.19	11.29	7.212	81.1
Endrin	1	10.60	10.51	10.61	48.21	
	2					

← 110L
N/A

30 11/04/00
13.06 9/12/00 - 7.21 09/12/00
7.21 09/12/00
OLM03.0

CLIENT N/S Mayport		JOB NUMBER	
SUBJECT Sample Calc.			
BASED ON MPT-55-SS-06-01 (DH9M19103)		DRAWING NUMBER	
BY DSS	CHECKED BY	APPROVED BY	DATE 10/12/00

Fraction: Pesticide
 Matrix: Soil
 Compound: 4,4'-DDE on Signal a
 Form I: 14.2 ug/kg

$$\begin{aligned}
 \text{ug/kg} &= \frac{A_v (V_t)(GPC)(Df)}{\overline{CF} (V_i)(W_s)(D)} \\
 A_v &= 250317 \text{ Area} \\
 V_t &= 10000 \mu\text{l} \\
 GPC &= 1 \\
 Df &= 10 \\
 \overline{CF} &= 63862709 \frac{\text{Area}}{\text{ng}} \\
 V_i &= 1.0 \text{ ml} \\
 W_s &= 30.01 \text{ g} \\
 D &= 0.921 \% \text{ solid}
 \end{aligned}$$

$$\begin{aligned}
 &= \frac{250317 \text{ Area} (10000 \mu\text{l})(1)(10)}{63862709 \frac{\text{Area}}{\text{ng}} (1.0 \text{ ml})(30.01 \text{ g})(0.921)} \\
 &= 14.18 \text{ ng/g or } \text{ug/kg}
 \end{aligned}$$

$\frac{\text{Area}}{\text{Area}} = \frac{\text{ng}}{\text{Area}}$

SEVERN TRENT LABORATORIES, INC.-NORTH CANTON

Data file : /chem/can/gcs/a2hp5.i/00811a.b/034f3401.d
 Lab Smp Id: DH9M9103 Client Smp ID: MPT-55-SS-06-01
 Inj Date : 12-AUG-2000 01:15
 Operator : 001808 Inst ID: a2hp5.i
 Smp Info : DH9M9103,10
 Misc Info :
 Comment :
 Method : /chem/can/gcs/a2hp5.i/00811a.b/pesthp5a.m
 Meth Date : 14-Aug-2000 12:37 lip Quant Type: ESTD
 Cal Date : 11-AUG-2000 18:36 Cal File: 016f1601.d
 Als bottle: 34
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: pestap9.sub
 Target Version: 3.50 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt*Vi/Ws * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	10000.00000	Volume of final extract
Vi	1.00000	volume injected
Ws	30.01000	initial volume of sample

Cpnd Variable Local Compound Variable

CONCENTRATIONS					
RT	EXP RT	DLT RT	ON-COL	FINAL	
---	-----	-----	RESPONSE (ng)	(ug/Kg)	TARGET RANGE RATIO
---	-----	-----	-----	-----	-----

5 3 Tetrachloro-m-xylene CAS #: 877-09-8

Compound Not Detected

6 Hexachlorobenzene CAS #: 118-74-1

Compound Not Detected

RT	EXP RT	DLT RT	CONCENTRATIONS		TARGET RANGE	RATIO
			ON-COL RESPONSE (ng)	FINAL (ug/Kg)		

20						
20 Heptachlor epoxide				CAS #: 1024-57-3		
Compound Not Detected						

21						
21 gamma-Chlordane				CAS #: 5103-74-2		
Compound Not Detected						

22						
22 alpha-Chlordane				CAS #: 5103-71-9		
9.591	9.691	-0.100	36093	0.00110	3.680 80.00- 120.00	100.00 (M)

24						
24 4,4'-DDE				CAS #: 72-55-9		
9.831	9.931	-0.100	250317	0.00392	13.06 80.00- 120.00	100.00 (M)

23						
23 Endosulfan I				CAS #: 959-98-8		
Compound Not Detected						

25						
25 Dieldrin				CAS #: 60-57-1		
Compound Not Detected						

28						
28 Endrin				CAS #: 72-20-8		
10.515	10.615	-0.100	407638	0.01447	48.21 80.00- 120.00	100.00

30						
30 4,4'-DDD				CAS #: 72-54-8		
Compound Not Detected						

41						
41 ENDO2/DDD				CAS #:		
13.218	13.318	-0.100	394145		0.00- 20.00	100.00

32						
32 Endosulfan II				CAS #: 33213-65-9		
Compound Not Detected						

27						
27 Toxaphene				CAS #: 8001-35-2		
10.579	10.679	-0.100	407638	1.17578	3918 80.00- 120.00	100.00
11.626	11.726	-0.100	38684	0.07883	262.7 114.04- 154.04	9.49
11.916	12.016	-0.100	1407992	2.59929	8661 115.64- 155.64	345.40
12.378	12.478	-0.100	279952	0.44562	1485 52.78- 92.78	68.68
13.171	13.271	-0.100	394145	0.94199	3139 69.36- 109.36	96.69
Average of Peak Concentrations =				3493		

NC

pl. 8/16
 Y Assigned

NC

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 8/06/00
Time: 18:28:41

* QC BATCH: 0216335 *
* *****

PREP DATE: 8/04/00
COMP DATE: 8/04/00

EXTR EXPR	ANL DUE	LOT#, MSRUN/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH*S INIT ADJ1 ADJ2	SOLVENTS EXTRACTION VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
8/15/00 COMMENTS:	8/22/00	A0H030185-005 DH9MK-1-03	D	11	QJ SOLID	30.18g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML 2/.2 #3732
8/15/00 COMMENTS:	8/22/00	A0H030185-002 DH9M9-1-03	D	11	QJ SOLID	30.01g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML 2/.2 #3732
8/16/00 COMMENTS:	8/23/00	A0H030201-001 DH9PW-1-04	D	11	QJ SOLID	30.02g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML 2/.2 #3732
8/14/00 COMMENTS:	0/00/00	A0H030000-335 DH9QQ-1-01B		11	QJ SOLID	30.00g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML 2/.2 #3732
8/14/00 COMMENTS:	0/00/00	A0H030000-335 DH9QQ-1-02C		11	QJ SOLID	30.00g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML NPDES #3734 1.0ML 2/.2 #3732
8/14/00 COMMENTS:	0/00/00	A0H030000-335 DH9QQ-1-03L	R	11	QJ SOLID	30.00g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML NPDES #3734 1.0ML 2/.2 #3732
8/16/00 COMMENTS:	8/23/00	A0H030201-002 DH9R6-1-04	D	11	QJ SOLID	30.14g 10.00mL	NA NA NA	DCM/ACE 300.0 HEXANE	50.0	1.0ML 2/.2 #3732

S/S BY D.T.
DCM #T03281 ACE #H451-T08465 NA2S04 #8024-T04644
ASSOC. BLK AND SAMPLES W/ 0216336

R = RUSH C = CLP
E = EPA 600 D = EXP. DEL)
M = CLIENT REQ MS/MSD
:

NUMBER OF WORK ORDERS IN BATCH: 14

SDG NARRATIVE
MP022
GC SEMIVOLATILES – 8082

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS and Surrogates Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

GC Column: RTX-CLP PESTICIDES ID: 0.32 (mm) Init. Calib. Date(s): 07/09/00 07

Instrument ID: A2HP2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	#	RT	#
-----	-----	-----	-----	-----	-----	-----	-----
01		2154 0.5	08/09/00	1005			
02		1248 0.5	08/09/00	1022			
03		1242 0.5	08/09/00	1038			
04		1232 0.5	08/09/00	1055			
05		1660 0.5	08/10/00	0056			
06	DH9R1BLK	DH9R1101	08/10/00	0146			
07	DH9R1CHK	DH9R1102	08/10/00	0203			
08	DH9R1CHKDUP	DH9R1103	08/10/00	0219			
09	MPT-55-SS-01	DH9GA102	08/10/00	0235			
10	MPT-55-SS-02	DH9HM102	08/10/00	0252			
11	MPT-55-SS-03	DH9HV102	08/10/00	0308			
12	MPT-55-SS-04	DH9J2102	08/10/00	0325			
13	MPT-55-SS-05	DH9LH102	08/10/00	0341			
14	MPT-55-SS-06	DH9M9102	08/10/00	0358			
15	MPT-55-SS-07	DH9MH102	08/10/00	0414			
16	MPT-55-SS-08	DH9MJ102	08/10/00	0431			
17	MPT-55-SD-01	DH9MK102	08/10/00	0447			
18		1660 0.5	08/10/00	0553			
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

GC Column: RTX-CLP PESTICIDES ID: 0.32 (mm) Init. Calib. Date(s): 08/12/00 08

Instrument ID: A2HP2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	#	RT	#
-----	-----	-----	-----	-----	-----	-----	-----
01	2154 0.5	08/13/00	1254				
02	1248 0.5	08/13/00	1310				
03	1242 0.5	08/13/00	1327				
04	1232 0.5	08/13/00	1343				
05	1660 0.5	08/14/00	0820				
06	DHJLDBLK DHJLD101	08/14/00	0837				
07	DHJLDCHK DHJLD102	08/14/00	0853				
08	DHJLDCHKDUP DHJLD103	08/14/00	0910				
09	MPT-55-SD-02 DHD3R103	08/14/00	1016				
10	MPT-55-SD-03 DHD48103	08/14/00	1033				
11	MPT-55-SS-09 DHD49103	08/14/00	1049				
12	1660 0.5	08/14/00	1122				
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date : 13-Aug-2000 07:16

SEVERN TRENT LABORATORIES, INC.-NORTH CANTON

INITIAL CALIBRATION DATA

Start Cal Date : 12-AUG-2000 01:28
 End Cal Date : 12-AUG-2000 08:03
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/can/gcs/a2hp2.i/00811ic.b/hp2fpcb.m
 Cal Date : 13-Aug-2000 07:10 salmonr
 Curve Type : Average

Calibration File Names:

Level 1: /chem/can/gcs/a2hp2.i/00811ic.b/061f6101.d
 Level 2: /chem/can/gcs/a2hp2.i/00811ic.b/062f6201.d
 Level 3: /chem/can/gcs/a2hp2.i/00811ic.b/063f6301.d
 Level 4: /chem/can/gcs/a2hp2.i/00811ic.b/064f6401.d
 Level 5: /chem/can/gcs/a2hp2.i/00811ic.b/065f6501.d

Compound	0.10000	0.20000	0.50000	1.000	2.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
2 AROCLOR-1221 (1)	289970	254255	253518	246303	228599	254529	8.779
(2)	192560	171480	170690	166966	149800	170299	8.946
(3)	726700	636160	608292	599989	555415	625311	10.182
3 AROCLOR-1016 (1)	453910	452930	418778	398268	377366	420250	8.004
(2)	847150	800005	731330	702846	656124	747491	10.209
(3)	1249250	1217180	1196590	1199207	1200966	1212638	1.814
(4)	730610	706170	670906	660402	641308	681879	5.284
(5)	573660	572315	535376	519301	495926	539316	6.265
4 AROCLOR-1232 (1)	526400	541430	506886	472153	439282	497230	8.344
(2)	349550	353710	328730	301785	277715	322298	10.029
(3)	487270	513930	494298	474621	463856	486795	3.934
(4)	218730	219485	217836	196549	186606	207841	7.346
(5)	278380	135405	102180	95787	160614	154473	47.936
5 AROCLOR-1242 (1)	390020	355550	364282	333043	333846	355348	6.662
(2)	629760	600690	561798	508559	503791	560920	9.897
(3)	906590	797230	889516	843599	892434	865874	5.207
(4)	528410	489490	518296	475010	492174	500676	4.394
(5)	454330	459535	442124	400659	411576	433645	6.041
6 AROCLOR-1248 (1)	319240	305960	295518	274412	256118	290250	8.666
(2)	616510	589455	563096	538056	506972	562818	7.603
(3)	748510	717515	695578	672349	652658	697322	5.389
(4)	714300	697810	699784	686156	668991	693408	2.440
(5)	357330	356365	354198	339994	327174	347012	3.780
7 AROCLOR-1254 (1)	541230	488000	456894	435110	410527	466352	10.859
(2)	995470	874820	833732	815216	815710	866990	8.743
(3)	1283350	1144605	1143414	1161685	1144744	1175560	5.166
(4)	798020	711780	673796	660167	642010	697155	8.884
(5)	871890	802675	739600	789347	762380	793178	6.341

Handwritten note: %RSD = 16.51

10B
 PESTICIDE IDENTIFICATION SUMMARY
 FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

MPT-55-SS-08-01

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

Lab Sample ID: DH9MJ102 Date(s) Analyzed: 08/10/00 08/10/00

Instrument ID (1): A2HP2 Instrument ID (2): A2HP2

GC Column(1): RTX-CLP PESTICIDES ID: 0.32 (mm) GC Column(2): DB-5.625 ID:

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%D
			FROM	TO			
AROCLOR-1260	1	4.42	4.33	4.53	8.710	9.217	
	2	4.74	4.67	4.87	9.588		
	3	5.13	5.03	5.23	9.432		
	4	6.08	5.99	6.19	8.936		
	5	6.51	6.42	6.62	9.420		
COLUMN 1	1	5.74	5.64	5.84	9.299	13.36	44.9
	2	6.06	5.95	6.15	14.80		
	3	6.61	6.51	6.71	10.34		
	4	7.67	7.58	7.78	9.158		
	5	8.32	8.22	8.42	23.21		
COLUMN 2	1						
	2						
	3						
	4						
	5						
COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes.

10B
 PESTICIDE IDENTIFICATION SUMMARY
 FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

MPT-55-SS-06-01

Lab Name: SEVERN TRENT LABORATORIES Contract:

Lab Code: QESOH Case No.: SAS No.: SDG No.: MP022

Lab Sample ID: DH9M9102 Date(s) Analyzed: 08/10/00 08/10/00

Instrument ID (1): A2HP2 Instrument ID (2): A2HP2

GC Column(1): RTX-CLP PESTICIDES ID: 0.32 (mm) GC Column(2): DB-5.625 ID:

ANALYTE	PEAK	RT	RT WINDOW		CONCENTRATION	MEAN CONCENTRATION	%D
			FROM	TO			
AROCLOR-1260	1	4.42	4.33	4.53	282.2	739.9	
	2	4.76	4.67	4.87	453.0		
	3	5.13	5.03	5.23	827.3		
	4	6.08	5.99	6.19	990.8		
	5	6.51	6.42	6.62	1146		
COLUMN 1	1	5.73	5.64	5.84	310.7	784.5	6.0
	2	6.04	5.95	6.15	539.7		
	3	6.61	6.51	6.71	909.5		
	4	7.67	7.58	7.78	1032		
	5	8.32	8.22	8.42	1131		
COLUMN 2	1					784.5	6.0
	2						
	3						
	4						
	5						
COLUMN 1	1					784.5	6.0
	2						
	3						
	4						
	5						
COLUMN 2	1					784.5	6.0
	2						
	3						
	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes.

CLIENT <i>NS Mayport</i>		JOB NUMBER	
SUBJECT <i>Sample Calc</i>			
BASED ON <i>MPT-55-55-06-01 (DH9M9102)</i>		DRAWING NUMBER	
BY <i>DSS</i>	CHECKED BY	APPROVED BY	DATE <i>10/12/00</i>

Fraction : PCB's
 Matrix : Soil
 Compound : Aroclor 1260 on Signal #2
 Form I : 850 ug/kg

$\bar{A}_X = 2233449 \text{ Area}$

$V_t = 10 \text{ ml} = 10^4 \mu\text{l}$

$D_f = 2$

$\bar{C}_F = 1834857 \frac{\text{Area}}{\text{mg}}$

$V_i = 1.0 \text{ ml}$

$W_s = 30.01 \text{ g}$

$D = 0.921$

$$\text{ug/kg} = \frac{A_X (V_t) (D_f)}{\bar{C}_F (V_i) (W_s) (D)}$$

$$= \frac{2233449 \text{ Area} (10^4 \mu\text{l}) (2)}{1834857 \frac{\text{Area}}{\text{mg}} (1.0 \mu\text{l}) (30.01 \text{ g}) (0.921)}$$

$$= 850 \text{ ug/g} \text{ or } \text{ug/kg}$$

Data File: /chem/can/gcs/a2hp2.i/00809b-r.b/068f6801.d
 Report Date: 22-Aug-2000 06:46

SEVERN TRENT LABORATORIES, INC.-NORTH CANTON

Data file : /chem/can/gcs/a2hp2.i/00809b-r.b/068f6801.d
 Lab Smp Id: DH9M9102 Client Smp ID: MPT-55-SS-06-01
 Inj Date : 10-AUG-2000 03:58
 Operator : 0595 Inst ID: a2hp2.i
 Smp Info : DH9M9102,2
 Misc Info :
 Comment :
 Method : /chem/can/gcs/a2hp2.i/00809b-r.b/hp2rpcb.m
 Meth Date : 22-Aug-2000 06:44 ridsenr Quant Type: ESTD
 Cal Date : 09-JUL-2000 18:37 Cal File: 026f2601.d
 Als bottle: 68
 Dil Factor: 2.00000
 Integrator: Falcon Compound Sublist: REG.sub
 Target Version: 3.50 Sample Matrix: SOIL

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	2.00000	Dilution Factor
Vt	10000.00000	final volume
Vo	30.01000	initial volume

Cpnd Variable

Local Compound Variable

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE (ng)	(ug/kg)		

\$ 1 TCX				CAS #: 877-09-8		
2.202	2.402	-0.200	505754 0.00965	6.434	80.00- 120.00	100.00

\$ AROCLOR-1260				CAS #: 11096-82-5		
5.636	5.836	-0.200	696006 0.46623	310.7	80.00- 120.00	100.00 (M)
5.947	6.147	-0.200	1466926 0.80978	539.7	89.26- 148.77	210.76
6.513	6.712	-0.200	2245705 1.36475	909.5	81.01- 135.01	322.66
7.576	7.776	-0.200	4261318 1.54803	1032	135.73- 226.21	612.25
8.225	8.425	-0.200	2497289 1.69688	1131	72.16- 120.27	358.80
Average of Peak Concentrations =				784.5		

\$ 9 DCB				CAS #: 2051-24-3		
10.820	11.020	-0.200	286320 0.01306	8.704	80.00- 120.00	100.00

RESPONSE = 2233449

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 8/06/00
Time: 18:25:53

*
* QC BATCH: 0216336 *
*

PREP DATE: 8/04/00
COMP DATE: 8/04/00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH*S ADJ1	ADJ2	SOLVENTS		VOL	SPIKE STANDARD/ SURROGATE ID	
											EXTRACTION	VOL EXCHANGE			
8/15/00 COMMENTS:	8/22/00	A0H030185-005 DH9MK-1-02	D	63	QH	SOLID	30.18g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 2/.2 #3732
8/15/00 COMMENTS:	8/22/00	A0H030185-002 DH9M9-1-02	D	63	QH	SOLID	30.01g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 2/.2 #3732
8/16/00 COMMENTS:	8/23/00	A0H030201-001 DH9PW-1-03	D	63	QH	SOLID	30.02g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 2/.2 #3732
8/14/00 COMMENTS:	0/00/00	A0H030000-336 DH9R1-1-01B		63	QH	SOLID	30.00g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 2/.2 #3732
8/14/00 COMMENTS:	0/00/00	A0H030000-336 DH9R1-1-02C		63	QH	SOLID	30.00g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 10PPM #3735 1.0ML 2/.2 #3732
8/14/00 COMMENTS:	0/00/00	A0H030000-336 DH9R1-1-03L	R	63	QH	SOLID	30.00g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 10PPM #3735 1.0ML 2/.2 #3732
8/16/00 COMMENTS:	8/23/00	A0H030201-002 DH9R6-1-03	D	63	QH	SOLID	30.14g 10.00mL	NA	NA	NA	DCM/ACE	300.0	HEXANE	50.0	1.0ML 2/.2 #3732

S/S BY D.T.

DCM #T03281 ACE #H451-T08465 NA2SO4 #B024-T04644
ASSOC. BLK AND SAMPLES W/ 0216335

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 14

SDev	.15	.234	157.	.071	.318	2.107	1.218
%RSD	.1533	7.366	.1127	1.834	4.032	36.43	120.3
#1	97.12	3.008	139400.	3.795	7.655	7.272	1.873
#2	96.91	3.339	139600.	3.894	8.104	4.293	.1511
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.
Elem	Sn	Tl	V	Zn	2203/1	2203/2	2068/2
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	2.157	6.441	14.95	24.21	6.001	8.818	-.5549
SDev	.118	2.798	.53	.09	.564	.195	.1541
%RSD	5.473	43.44	3.545	.3742	9.398	2.209	27.77
#1	2.240	8.419	15.33	24.27	5.602	8.680	-.4459
#2	2.073	4.462	14.58	24.15	6.400	8.955	-.6639
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	25000.	20000.	50000.	10000.			
Low	-1000.	-1000.	-1000.	-1000.			
Elem	2068/1	1960/1	1960/2				
Units	PPB	PPB	PPB				
Avg	1.794	9.167	4.093				
SDev	1.748	.324	2.996				
%RSD	97.44	3.537	73.21				
#1	3.030	9.396	6.212				
#2	.5579	8.938	1.974				
Errors	NOCHECK	NOCHECK	NOCHECK				
High							
Low							
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avg	14200	--	--	--	--	--	--
SDev	30.40559	--	--	--	--	--	--
%RSD	.2141239	--	--	--	--	--	--
#1	14222	--	--	--	--	--	--
#2	14178	--	--	--	--	--	--

Method: TOTAL Sample Name: DHD34 MPT-55-SW-03 Operator: MJC
 Run Time: 08/18/00 15:05:48
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Ca
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	.1344	1913.	6.070	199.9	29.45	.1319	81790.
SDev	.8300	.	1.643	.4	.05	.0109	28.

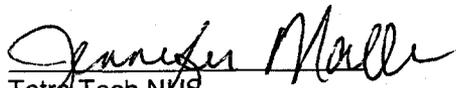
TO: T. HANSEN
DATE: DECEMBER 6, 2000

- PAGE 3

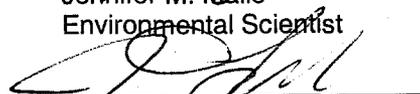
The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."



Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist



Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- D = MS/MSD Noncompliance
- E = LCS/LCSD Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = GFAA PDS - GFAA MSA's $r < 0.995$
- K = ICP Interference - include ICSAB % R's
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation
- N = Internal Standard Noncompliance
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = Pest/PCB D% between columns for positive results
- V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
- W = EMPC result
- X = Signal to noise response drop
- Y = % Solid content is less than 30%

**NS MAYPORT
WATER DATA
QUANTERRA
SDG: MP023**

SAMPLE NUMBER:	MPT-55-SW-01-01	MPT-55-SW-02-01	MPT-55-SW-03-01	
SAMPLE DATE:	08/01/00	08/03/00	08/03/00	//
LABORATORY ID:	A0H030213001	A0H040124001	A0H040124002	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ALUMINUM	192	U	A	4330			1910					
ANTIMONY	3.1	U		3.1	U		3.1	U				
ARSENIC	38.5			8.2			6.1					
BARIUM	55.2			27.7			29.5					
BERYLLIUM	0.2	U		0.2	U		0.2	U				
CADMIUM	0.33			0.3	U		0.3	U				
CALCIUM	116000			77200			81800					
CHROMIUM	1.8	U	A	6.5			2.6	U	A			
COBALT	1.1	U	A	1.0	U	A	0.70	U				
COPPER	9.8			4.3			3.5					
IRON	3150			2490			775					
LEAD	6.9			7.9			9.1					
MAGNESIUM	4740			16600			23700					
MANGANESE	450			97			45.1					
MERCURY	0.10	U		0.10	U		0.10	U				
MOLYBDENUM	4.6			3.2			2.7					
NICKEL	4.6	U	A	3.8	U	A	2.7	U	A			
POTASSIUM	3180			8880			13100					
SELENIUM	4.9	U		5.8			4.9	U				
SILVER	1.0	U		1.0	U		1.0	U				
SODIUM	7130			140000			209000					
THALLIUM	6.6			6.4			6.6					
TIN	2.8	U		2.8	U		2.8	U				
VANADIUM	2.4	U	A	15			17.9					
ZINC	56			24.2			30.8					

NS MAYPORT
 WATER DATA
 QUANTERRA
 SDG: MP023

SAMPLE NUMBER:	MPT-55-SW-01-01	MPT-55-SW-02-01	MPT-55-SW-03-01	
SAMPLE DATE:	08/01/00	08/03/00	08/03/00	//
LABORATORY ID:	A0H030213001	A0H040124001	A0H040124002	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE									
MISCELLANEOUS PARAMETERS												
CYANIDE, TOTAL(UG/L)	10	U		10	U		10	U				

APPENDIX B
Results as Reported by the Laboratory

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DH9V4 Client ID: MPT-55-SW-01-01
 Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	192	B*	1	ICPST	8/18/00	14:26
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	8/18/00	14:26
Arsenic	189.04	2.9	10.0	38.5		1	ICPST	8/18/00	14:26
Barium	493.41	0.30	200	55.2	B	1	ICPST	8/18/00	14:26
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	8/18/00	14:26
Cadmium	226.50	0.30	2.0	0.33	B	1	ICPST	8/18/00	14:26
Calcium	317.93	22.4	5000	116000		1	ICPST	8/18/00	14:26
Chromium	267.72	0.80	5.0	1.8	B	1	ICPST	8/18/00	14:26
Cobalt	228.62	0.70	7.0	1.1	B	1	ICPST	8/18/00	14:26
Copper	324.75	1.3	25.0	9.8	B	1	ICPST	8/18/00	14:26
Iron	271.44	14.9	100	3150	N*	1	ICPST	8/18/00	14:26
Lead	220.35	1.3	3.0	6.9		1	ICPST	8/18/00	14:26
Magnesium	279.08	10.2	5000	4740	B	1	ICPST	8/18/00	14:26
Manganese	257.61	0.20	15.0	450		1	ICPST	8/18/00	14:26
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	8/16/00	20:34
Molybdenum	202.03	1.7	40.0	4.6	B	1	ICPST	8/18/00	14:26
Nickel	231.60	1.3	40.0	4.6	B	1	ICPST	8/18/00	14:26
Potassium	766.49	19.8	5000	3180	B	1	ICPST	8/18/00	14:26
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	8/18/00	14:26
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	8/18/00	14:26
Sodium	330.23	155	5000	7130		1	ICPST	8/18/00	14:26
Thallium	190.86	6.3	10.0	6.6	B	1	ICPST	8/18/00	14:26
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	8/18/00	14:26
Vanadium	292.40	0.80	7.0	2.4	B	1	ICPST	8/18/00	14:26
Zinc	213.86	1.0	20.0	56.0		1	ICPST	8/18/00	14:26

Comments: Lot #: A0H030213 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DHD2F Client ID: MPT-55-SW-02-01
 Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	4330	*	1	ICPST	8/18/00	15:01
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	8/18/00	15:01
Arsenic	189.04	2.9	10.0	8.2	B	1	ICPST	8/18/00	15:01
Barium	493.41	0.30	200	27.7	B	1	ICPST	8/18/00	15:01
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	8/18/00	15:01
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	8/18/00	15:01
Calcium	317.93	22.4	5000	77200		1	ICPST	8/18/00	15:01
Chromium	267.72	0.80	5.0	6.5		1	ICPST	8/18/00	15:01
Cobalt	228.62	0.70	7.0	1.0	B	1	ICPST	8/18/00	15:01
Copper	324.75	1.3	25.0	4.3	B	1	ICPST	8/18/00	15:01
Iron	271.44	14.9	100	2490	N*	1	ICPST	8/18/00	15:01
Lead	220.35	1.3	3.0	7.9		1	ICPST	8/18/00	15:01
Magnesium	279.08	10.2	5000	16600		1	ICPST	8/18/00	15:01
Manganese	257.61	0.20	15.0	97.0		1	ICPST	8/18/00	15:01
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	8/16/00	20:37
Molybdenum	202.03	1.7	40.0	3.2	B	1	ICPST	8/18/00	15:01
Nickel	231.60	1.3	40.0	3.8	B	1	ICPST	8/18/00	15:01
Potassium	766.49	19.8	5000	8880		1	ICPST	8/18/00	15:01
Selenium	196.03	4.9	5.0	5.8		1	ICPST	8/18/00	15:01
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	8/18/00	15:01
Sodium	330.23	155	5000	140000		1	ICPST	8/18/00	15:01
Thallium	190.86	6.3	10.0	6.4	B	1	ICPST	8/18/00	15:01
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	8/18/00	15:01
Vanadium	292.40	0.80	7.0	15.0		1	ICPST	8/18/00	15:01
Zinc	213.86	1.0	20.0	24.2		1	ICPST	8/18/00	15:01

Comments: Lot #: A0H040124 Sample #: 1

STL North Canton
Metals Data Reporting Form

Sample Results

Lab Sample ID: DHD34 Client ID: MPT-55-SW-03-01
 Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	O	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	10.3	200	1910	*	1	ICPST	8/18/00	15:05
Antimony	206.84	3.1	10.0	3.1	U	1	ICPST	8/18/00	15:05
Arsenic	189.04	2.9	10.0	6.1	B	1	ICPST	8/18/00	15:05
Barium	493.41	0.30	200	29.5	B	1	ICPST	8/18/00	15:05
Beryllium	313.04	0.20	5.0	0.20	U	1	ICPST	8/18/00	15:05
Cadmium	226.50	0.30	2.0	0.30	U	1	ICPST	8/18/00	15:05
Calcium	317.93	22.4	5000	81800		1	ICPST	8/18/00	15:05
Chromium	267.72	0.80	5.0	2.6	B	1	ICPST	8/18/00	15:05
Cobalt	228.62	0.70	7.0	0.70	U	1	ICPST	8/18/00	15:05
Copper	324.75	1.3	25.0	3.5	B	1	ICPST	8/18/00	15:05
Iron	271.44	14.9	100	775	N*	1	ICPST	8/18/00	15:05
Lead	220.35	1.3	3.0	9.1		1	ICPST	8/18/00	15:05
Magnesium	279.08	10.2	5000	23700		1	ICPST	8/18/00	15:05
Manganese	257.61	0.20	15.0	45.1		1	ICPST	8/18/00	15:05
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	8/16/00	20:39
Molybdenum	202.03	1.7	40.0	2.7	B	1	ICPST	8/18/00	15:05
Nickel	231.60	1.3	40.0	2.7	B	1	ICPST	8/18/00	15:05
Potassium	766.49	19.8	5000	13100		1	ICPST	8/18/00	15:05
Selenium	196.03	4.9	5.0	4.9	U	1	ICPST	8/18/00	15:05
Silver	328.07	1.0	5.0	1.0	U	1	ICPST	8/18/00	15:05
Sodium	330.23	155	5000	209000		1	ICPST	8/18/00	15:05
Thallium	190.86	6.3	10.0	6.6	B	1	ICPST	8/18/00	15:05
Tin	189.99	2.8	50.0	2.8	U	1	ICPST	8/18/00	15:05
Vanadium	292.40	0.80	7.0	17.9		1	ICPST	8/18/00	15:05
Zinc	213.86	1.0	20.0	30.8		1	ICPST	8/18/00	15:05

TKTRA TECH NUS, INC.

Client Sample ID: MPT-55-SW-01-01

General Chemistry

Lot-Sample #....: AOH030213-001 Work Order #....: DH9V4 Matrix.....: WS
Date Sampled....: 08/01/00 11:40 Date Received...: 08/02/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	08/14-08/15/00	0228155

Dilution Factor: 1

TETRA TECH MUS, INC.

Client Sample ID: MPT-55-SW-02-01

General Chemistry

Lot-Sample #....: AOH040124-001 Work Order #....: DHD2F Matrix.....: WS
Date Sampled....: 08/03/00 11:40 Date Received...: 08/04/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	4.0 B	10.0	ug/L	SW846 9012A	08/15-08/16/00	0228588

Dilution Factor: 1

NOTE(S) :

- RL Reporting Limit
- B Estimated result. Result is less than RL.

TETRA TECH BUS, INC.

Client Sample ID: MPT-55-SW-03-01

General Chemistry

Lot-Sample #....: AOH040124-002 Work Order #....: DHD34 Matrix.....: WS
Date Sampled....: 08/03/00 12:10 Date Received...: 08/04/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	08/15-08/16/00	0229588

Dilution Factor: 1

APPENDIX C
Support Documentation



PROJECT NO: No 123		SITE NAME: NS Mayport Grp IV		PROJECT MANAGER AND PHONE NUMBER T. Hansen				LABORATORY NAME AND CONTACT: Chauterra							
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson				ADDRESS									
		CARRIER/WAYBILL NUMBER Fed Ex				CITY, STATE									
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED											
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	NO. OF CONTAINERS	TYPE OF ANALYSIS						COMMENTS			
						TCL VOC	TCL SVOC	TAL Metals, Tin	Mercury	Molybdenum	Cyanide	Organochlorine Pest.	PCBs		
8/3	1140	MPT-55-SW-02-01	SW	G	9	X	X	X	X	X	X	X		Cool to 4°C	
	1140	MPT-55-SD-02-01	Soil		6										
	1210	MPT-55-SW-03-01	SW		9										
	1210	MPT-55-SD-03-01	Soil		6										
	1230	MPT-55-SS-09-01	Soil		6	X	X	X	X	X	X	X			
		TB080300	W		2	X									
1. RELINQUISHED BY 		DATE 8-3-00	TIME 1500	1. RECEIVED BY Terry Burns		DATE 8-4-00	TIME 9:05 AM	2. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME
COMMENTS												2.3°C			

STL North Canton



PROJECT NO: 110123		SITE NAME: NS Mayport		PROJECT MANAGER AND PHONE NUMBER T. Hansen			LABORATORY NAME AND CONTACT: Quanterra					
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER AND PHONE NUMBER T. Thompson (904) 281-0400			ADDRESS 4101 Shuffel Dr NW							
		CARRIER/WAYBILL NUMBER			CITY, STATE N. Canton, OH							
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day		CONTAINER TYPE PLASTIC (P) or GLASS (G)			PRESERVATIVE USED							
DATE YEAR	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS		
8-1	1205	MPT-55-SS-05-01	Soil	G	6	3	X	X	X	X	X	Cool to 4°C
	1230	MPT-55-SS-06-01	|	|	6	3						
	1245	MPT-55-SS-07-01	|	|	6	3						
	1500	MPT-55-SS-08-01	↓	↓	6	3						
	1140	MPT-55-SW-01-01 ✓/✓	H ₂ O	↓	9	3						
↓	1145	MPT-55-SD-01-01	Soil	↓	6	3	X	X	X	X	X	
		TB080100 ✓	H ₂ O		2	2	X					
1. RELINQUISHED BY 		DATE 8-1-00	TIME 1700	1. RECEIVED BY 		DATE 8-21-00	TIME 905					
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME					
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME					
COMMENTS 3.6°C												

DISTRIBUTION:

WHITE (ACCOMPANIES SAMPLE)

YELLOW (FIELD COPY)

PINK (FILE COPY)

FORM NO. TINUS-001E-1

3/99

NORTH CANTON OH

16

MP023

HOLDING TIME
09/01/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	CN	08/01/00	08/14/00	08/15/00	13	1	14
UG/L	MPT-55-SW-02-01	A0H040124001	NORMAL	MP023	CN	08/03/00	08/15/00	08/16/00	12	1	13
UG/L	MPT-55-SW-03-01	A0H040124002	NORMAL	MP023	CN	08/03/00	08/15/00	08/16/00	12	1	13
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	HG	08/01/00	08/16/00	08/16/00	15	0	15
UG/L	MPT-55-SW-02-01	A0H040124001	NORMAL	MP023	HG	08/03/00	08/16/00	08/16/00	13	0	13
UG/L	MPT-55-SW-03-01	A0H040124002	NORMAL	MP023	HG	08/03/00	08/16/00	08/16/00	13	0	13
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	M	08/01/00	08/16/00	08/18/00	15	2	17
UG/L	MPT-55-SW-02-01	A0H040124001	NORMAL	MP023	M	08/03/00	08/16/00	08/18/00	13	2	15
UG/L	MPT-55-SW-03-01	A0H040124002	NORMAL	MP023	M	08/03/00	08/16/00	08/18/00	13	2	15
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	OS	08/01/00	08/05/00	08/10/00	4	5	9
UG/L	MPT-55-SW-01-01RE	A0H030213001	NORMAL	MP023	OS	08/01/00	08/10/00	08/17/00	9	7	16
UG/L	MPT-55-SW-02-01RE	A0H040124001	NORMAL	MP023	OS	08/03/00	08/10/00	08/17/00	7	7	14
UG/L	MPT-55-SW-03-01RE	A0H040124002	NORMAL	MP023	OS	08/03/00	08/10/00	08/17/00	7	7	14
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/L	MPT-55-SW-02-01	A0H040124001	NORMAL	MP023	OV	08/03/00	08/08/00	08/08/00	5	0	5
UG/L	MPT-55-SW-03-01	A0H040124002	NORMAL	MP023	OV	08/03/00	08/08/00	08/08/00	5	0	5
UG/L	TB080100	A0H030213002	TRIP BLANK	MP023	OV	08/01/00	08/08/00	08/08/00	7	0	7
UG/L	TB080300	A0H040124003	TRIP BLANK	MP023	OV	08/03/00	08/08/00	08/08/00	5	0	5
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	PCB	08/01/00	08/04/00	08/08/00	3	4	7
UG/L	MPT-55-SW-02-01	A0H040124001	NORMAL	MP023	PCB	08/03/00	08/07/00	08/14/00	4	7	11
UG/L	MPT-55-SW-03-01	A0H040124002	NORMAL	MP023	PCB	08/03/00	08/07/00	08/14/00	4	7	11
UG/L	MPT-55-SW-01-01	A0H030213001	NORMAL	MP023	PEST	08/01/00	08/04/00	08/07/00	3	3	6
UG/L	MPT-55-SW-02-01	A0H040124001	NORMAL	MP023	PEST	08/03/00	08/07/00	08/10/00	4	3	7
UG/L	MPT-55-SW-02-01RE	A0H040124001	NORMAL	MP023	PEST	08/03/00	08/11/00	08/14/00	8	3	11
UG/L	MPT-55-SW-03-01	A0H040124002	NORMAL	MP023	PEST	08/03/00	08/07/00	08/10/00	4	3	7

<i>Units</i>	<i>Nsample</i>	<i>Lab Id</i>	<i>Qc Type</i>	<i>Sdg</i>	<i>Sort</i>	<i>Samp Date</i>	<i>Extr Date</i>	<i>Anal Date</i>	<i>SAMP_DATE</i> <i>TO</i> <i>EXTR_DATE</i>	<i>EXTR_DATE</i> <i>TO</i> <i>ANAL_DATE</i>	<i>SAMP_DATE</i> <i>TO</i> <i>ANAL_DATE</i>
<i>UG/L</i>	<i>MPT-55-SW-03-01RE</i>	<i>A0H040124002</i>	<i>NORMAL</i>	<i>MP023</i>	<i>PEST</i>	<i>08/03/00</i>	<i>08/11/00</i>	<i>08/14/00</i>	<i>8</i>	<i>3</i>	<i>11</i>

ANALYTICAL METHODS SUMMARY

A0H030213

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Cyanide, Total	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Organochlorine Pesticides	SW846 8081A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SDG NARRATIVE

MP023

The following report contains the analytical results for four water samples and one quality control sample submitted to STL North Canton by Tetra Tech NUS, Inc. from the NS Mayport Group IV Site, project number N0123. The samples were received August 2 and 4, 2000, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated.

Please refer to individual analytical sections for laboratory specific narratives.

SAMPLE RECEIVING

The coolers were received at the laboratory at temperatures of 3.6 and 2.3° C.

(See STL's Cooler Receipt Form for additional information.)

SDG NARRATIVE

MP023

METALS

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the IDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are \pm the standard reporting limit (SRL).

Some reporting limits are lower than our standard reporting limit (SRL) but are supported by the laboratory's MDL and/or IDLs; however, there are no standards in the calibration curve low enough to support these value. The continuing calibration blanks and method blanks may not support the lower RL.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10816a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck4ICB 8/16/00 5:39 PM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Mercury	253.7	0.2	0.1	U								

STL North Canton
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60818a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB 8/18/00 9:03 AM		Found	O	Found	O	Found	O	Found	O
			Found	O								
Aluminum	308.215	200	10.3	U								
Antimony	206.838	10	3.1	U								
Arsenic	189.042	10	2.9	U								
Barium	493.409	200	0.4	B								
Beryllium	313.042	5	0.4	B								
Cadmium	226.502	2	0.3	U								
Calcium	317.933	5000	27.9	B								
Chromium	267.716	5	0.8	U								
Cobalt	228.616	7	0.7	U								
Copper	324.753	25	1.3	U								
Iron	271.441	100	16.1	B								
Lead	220.353	3	1.3	U								
Magnesium	279.078	5000	15.3	B								
Manganese	257.61	15	0.4	B								
Molybdenum	202.03	40	1.7	U								
Nickel	231.604	40	1.3	U								
Potassium	766.491	5000	34.8	B								
Selenium	196.026	5	4.9	U								
Silver	328.068	5	1.0	U								
Sodium	330.232	5000	155.0	U								
Thallium	190.864	10	6.3	U								
Tin	189.989	50	2.8	U								
Vanadium	292.402	7	0.8	B								
Zinc	213.856	20	1.2	B								

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10816a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 8/16/00 5:43 PM	Ck1CCB 8/16/00 5:59 PM	Ck1CCB 8/16/00 6:15 PM	Ck1CCB 8/16/00 6:30 PM	Ck1CCB 8/16/00 6:44 PM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10816a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 8/16/00 6:50 PM	Ck1CCB 8/16/00 7:13 PM	Ck1CCB 8/16/00 7:28 PM	Ck1CCB 8/16/00 7:44 PM	Ck1CCB 8/16/00 8:00 PM
			Found O	Found O	Found O	Found O	Found O
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA

Units: ug/L

Chart Number: hg10816a.prn

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	Ck1CCB 8/16/00 8:16 PM		Ck1CCB 8/16/00 8:31 PM		Ck1CCB 8/16/00 8:46 PM		Found	O
			Found	O	Found	O	Found	O		
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U		

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60818a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/18/00 9:32 AM		CCB 8/18/00 10:04 AM		CCB 8/18/00 11:25 AM		CCB 8/18/00 12:28 PM		CCB 8/18/00 1:28 PM	
			Found	O	Found	O	Found	O	Found	O	Found	O
Aluminum	308.215	200	40.5	B	34.3	B	10.3	U	16.2	B	21.7	B
Antimony	206.838	10	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
Barium	493.409	200	0.7	B	0.7	B	0.7	B	0.8	B	0.8	B
Beryllium	313.042	5	0.7	B	0.7	B	0.7	B	0.8	B	0.8	B
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Calcium	317.933	5000	34.0	B	34.6	B	22.4	U	81.5	B	27.5	B
Chromium	267.716	5	0.8	U	0.8	U	0.8	U	0.9	B	0.8	U
Cobalt	228.616	7	0.7	U	0.9	B	0.7	U	1.2	B	1.0	B
Copper	324.753	25	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Iron	271.441	100	18.2	B	24.6	B	14.9	U	20.8	B	36.7	B
Lead	220.353	3	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
Magnesium	279.078	5000	36.3	B	38.8	B	14.0	B	35.6	B	20.3	B
Manganese	257.61	15	0.6	B	0.7	B	0.7	B	1.1	B	1.3	B
Molybdenum	202.03	40	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Nickel	231.604	40	1.3	U	1.3	U	1.3	U	1.3	U	1.6	B
Potassium	766.491	5000	26.9	B	27.0	B	31.1	B	38.7	B	29.1	B
Selenium	196.026	5	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U
Silver	328.068	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Sodium	330.232	5000	155.0	U	155.0	U	155.0	U	155.0	U	155.0	U
Thallium	190.864	10	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
Tin	189.989	50	2.8	U	2.8	U	2.8	U	2.8	U	3.6	B
Vanadium	292.402	7	0.9	B	1.1	B	1.0	B	1.2	B	1.1	B
Zinc	213.856	20	1.0	U	1.0	U	1.3	B	1.5	B	1.0	U

STL North Canton
Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: i60818a.arc

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB 8/18/00 1:44 PM		CCB 8/18/00 2:49 PM		CCB 8/18/00 3:54 PM		Found	O
			Found	O	Found	O	Found	O		
Aluminum	308.215	200	10.3	U	10.3	U	-19.0	B		
Antimony	206.838	10	3.1	U	3.1	U	3.1	U		
Arsenic	189.042	10	2.9	U	2.9	U	2.9	U		
Barium	493.409	200	0.7	B	0.9	B	0.8	B		
Beryllium	313.042	5	0.8	B	0.8	B	0.8	B		
Cadmium	226.502	2	0.3	U	0.3	U	0.3	U		
Calcium	317.933	5000	23.1	B	22.4	U	22.4	U		
Chromium	267.716	5	0.8	U	0.9	B	0.8	U		
Cobalt	228.616	7	1.0	B	0.8	B	0.7	B		
Copper	324.753	25	1.3	U	1.3	U	-1.7	B		
Iron	271.441	100	14.9	U	17.1	B	14.9	U		
Lead	220.353	3	1.3	U	1.3	U	1.3	U		
Magnesium	279.078	5000	18.9	B	23.5	B	23.6	B		
Manganese	257.61	15	0.7	B	0.8	B	0.8	B		
Molybdenum	202.03	40	1.7	U	1.7	U	1.7	U		
Nickel	231.604	40	1.3	U	1.5	B	1.3	U		
Potassium	766.491	5000	26.2	B	36.1	B	25.3	B		
Selenium	196.026	5	4.9	U	4.9	U	4.9	U		
Silver	328.068	5	1.0	U	1.0	U	1.0	U		
Sodium	330.232	5000	155.0	U	155.0	U	155.0	U		
Thallium	190.864	10	6.3	U	6.3	U	6.3	U		
Tin	189.989	50	2.8	U	3.5	B	3.3	B		
Vanadium	292.402	7	1.0	B	1.3	B	1.2	B		
Zinc	213.856	20	1.2	B	1.4	B	1.4	B		

STL North Canton
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DHWJTB

Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	10.3	200	13.4	B	1	ICPST	8/18/00	14:15
Antimony	206.838	3.1	10.0	3.1	U	1	ICPST	8/18/00	14:15
Arsenic	189.042	2.9	10.0	2.9	U	1	ICPST	8/18/00	14:15
Barium	493.409	0.30	200	0.30	U	1	ICPST	8/18/00	14:15
Beryllium	313.042	0.20	5.0	0.20	U	1	ICPST	8/18/00	14:15
Cadmium	226.502	0.30	2.0	0.30	U	1	ICPST	8/18/00	14:15
Calcium	317.933	22.4	5000	390	B	1	ICPST	8/18/00	14:15
Chromium	267.716	0.80	5.0	0.80	U	1	ICPST	8/18/00	14:15
Cobalt	228.616	0.70	7.0	0.70	U	1	ICPST	8/18/00	14:15
Copper	324.753	1.3	25.0	1.3	U	1	ICPST	8/18/00	14:15
Iron	271.441	14.9	100	47.9	B	1	ICPST	8/18/00	14:15
Lead	220.353	1.3	3.0	1.3	U	1	ICPST	8/18/00	14:15
Magnesium	279.078	10.2	5000	89.7	B	1	ICPST	8/18/00	14:15
Manganese	257.61	0.20	15.0	2.5	B	1	ICPST	8/18/00	14:15
Mercury	253.7	0.10	0.20	0.10	U	1	CVAA	8/16/00	20:29
Molybdenum	202.03	1.7	40.0	1.7	U	1	ICPST	8/18/00	14:15
Nickel	231.604	1.3	40.0	1.3	U	1	ICPST	8/18/00	14:15
Potassium	766.491	19.8	5000	19.8	U	1	ICPST	8/18/00	14:15
Selenium	196.026	4.9	5.0	4.9	U	1	ICPST	8/18/00	14:15
Silver	328.068	1.0	5.0	1.0	U	1	ICPST	8/18/00	14:15
Sodium	330.232	155	5000	155	U	1	ICPST	8/18/00	14:15
Thallium	190.864	6.3	10.0	6.3	U	1	ICPST	8/18/00	14:15
Tin	189.989	2.8	50.0	2.8	U	1	ICPST	8/18/00	14:15
Vanadium	292.402	0.80	7.0	0.80	U	1	ICPST	8/18/00	14:15
Zinc	213.856	1.0	20.0	-1.7	B	1	ICPST	8/18/00	14:15

Comments: Lot #: A0H030213

STL North Canton
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DH9V4S
 Original Sample ID: DH9V4 Client ID: MPT-55-SW-01-01S
 Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MS Conc	O	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	192	B	1940		2000	87.3	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Antimony	206.8	3.1	U	440		500	88.0	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Arsenic	189.0	38.5		1820		2000	89.3	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Barium	493.4	55.2	B	1830		2000	88.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Beryllium	313.0	0.20	U	45.5		50	91.0	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Cadmium	226.5	0.33	B	43.9		50	87.1	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Calcium	317.9	116000		155000		50000	78.7	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Chromium	267.7	1.8	B	183		200	90.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Cobalt	228.6	1.1	B	438		500	87.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Copper	324.8	9.8	B	236		250	90.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Iron	271.4	3150		3890	N	1000	74.6	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Lead	220.4	6.9		454		500	89.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Magnesium	279.1	4740	B	51800		50000	94.0	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Manganese	257.6	450		866		500	83.2	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Mercury	253.7	0.10	U	1.0		1	102.5	1	1	CVAA	8/16/00	20:34	8/16/00	20:35
Molybdenum	202.0	4.6	B	839		1000	83.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Nickel	231.6	4.6	B	461		500	91.2	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Potassium	766.5	3180	B	53700		50000	101.0	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Selenium	196.0	4.9	U	1810		2000	90.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Silver	328.1	1.0	U	51.6		50	103.2	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Sodium	330.2	7130		54700		50000	95.2	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Thallium	190.9	6.6	B	1800		2000	89.7	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Tin	190	2.8	U	1630		2000	81.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Vanadium	292.4	2.4	B	448		500	89.1	1	1	ICPST	8/18/00	14:26	8/18/00	14:36
Zinc	213.9	56.0		511		500	91.0	1	1	ICPST	8/18/00	14:26	8/18/00	14:36

Comments: Lot #: A0H030213 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL

Form 5A Equivalent

B Result is between IDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DH9V4D
 Original Sample ID: DH9V4 Client ID: MPT-55-SW-01-01D
 Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	MSD Conc	O	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	192	B	2380	*	2000	109.2	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Antimony	206.8	3.1	U	468		500	93.6	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Arsenic	189.0	38.5		1930		2000	94.6	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Barium	493.4	55.2	B	1940		2000	94.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Beryllium	313.0	0.20	U	48.8		50	97.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Cadmium	226.5	0.33	B	46.6		50	92.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Calcium	317.9	116000		160000		50000	88.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Chromium	267.7	1.8	B	193		200	95.7	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Cobalt	228.6	1.1	B	465		500	92.8	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Copper	324.8	9.8	B	251		250	96.6	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Iron	271.4	3150	N	4280	*	1000	113.1	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Lead	220.4	6.9		484		500	95.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Magnesium	279.1	4740	B	55400		50000	101.3	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Manganese	257.6	450		901		500	90.1	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Molybdenum	202.0	4.6	B	899		1000	89.4	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Nickel	231.6	4.6	B	491		500	97.3	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Potassium	766.5	3180	B	57300		50000	108.3	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Selenium	196.0	4.9	U	1890		2000	94.7	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Silver	328.1	1.0	U	54.6		50	109.2	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Sodium	330.2	7130		56600		50000	98.9	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Thallium	190.9	6.6	B	1900		2000	94.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Tin	190	2.8	U	1710		2000	85.5	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Vanadium	292.4	2.4	B	476		500	94.6	1	1	ICPST	8/18/00	14:26	8/18/00	14:54
Zinc	213.9	56.0		543		500	97.3	1	1	ICPST	8/18/00	14:26	8/18/00	14:54

Comments: Lot #: A0H030213 Sample #: 1

Version 3.63.6 Beta

U Result is less than the IDL

Form 5A Equivalent

B Result is between IDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

STL North Canton
Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DH9V4D

Matrix Spike Sample ID: DH9V4S Client ID: MPT-55-SW-01-01D

Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	O	MSD Conc	O	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	1940		2380	*	22.3 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Antimony	206.838	440		468		6.1 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Arsenic	189.042	1820		1930		5.8 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Barium	493.409	1830		1940		6.4 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Beryllium	313.042	45.5		48.8		6.9 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Cadmium	226.502	43.9		46.6		5.9 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Calcium	317.933	155000		160000		11.8 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Chromium	267.716	183		193		5.6 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Cobalt	228.616	438		465		6.0 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Copper	324.753	236		251		6.5 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Iron	271.441	3890	N	4280	*	41.1 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Lead	220.353	454		484		6.5 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Magnesium	279.078	51800		55400		7.5 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Manganese	257.61	866		901		8.0 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Molybdenum	202.03	839		899		7.0 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Nickel	231.604	461		491		6.4 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Potassium	766.491	53700		57300		7.0 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Selenium	196.026	1810		1890		4.6 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Silver	328.068	51.6		54.6		5.7 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Sodium	330.232	54700		56600		3.9 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Thallium	190.864	1800		1900		5.3 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Tin	189.989	1630		1710		4.9 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Vanadium	292.402	448		476		6.1 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54
Zinc	213.856	511		543		6.7 %	1	1	ICPST	8/18/00	14:36	8/18/00	14:54

Comments: Lot #: A0H030213 Sample #: 1

Version 3.63.6 Beta

- U Result is less than the IDL
- B Result is between IDL and RL
- N Spike recovery failed
- NC Percent recovery was not calculated
- * Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL North Canton

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DHWJTC

Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	2000	1910	95.6		80-120	1	ICPST	8/18/00	14:20
Antimony	206.838	500	465	92.9		80-120	1	ICPST	8/18/00	14:20
Arsenic	189.042	2000	1880	93.9		80-120	1	ICPST	8/18/00	14:20
Barium	493.409	2000	1880	93.7		80-120	1	ICPST	8/18/00	14:20
Beryllium	313.042	50.0	48.1	96.1		80-120	1	ICPST	8/18/00	14:20
Cadmium	226.502	50.0	47.5	94.9		80-120	1	ICPST	8/18/00	14:20
Calcium	317.933	50000	49000	98.0		80-120	1	ICPST	8/18/00	14:20
Chromium	267.716	200	191	95.5		80-120	1	ICPST	8/18/00	14:20
Cobalt	228.616	500	466	93.1		80-120	1	ICPST	8/18/00	14:20
Copper	324.753	250	239	95.6		80-120	1	ICPST	8/18/00	14:20
Iron	271.441	1000	1050	105.4		77-127	1	ICPST	8/18/00	14:20
Lead	220.353	500	476	95.3		80-120	1	ICPST	8/18/00	14:20
Magnesium	279.078	50000	50000	100.0		80-120	1	ICPST	8/18/00	14:20
Manganese	257.61	500	478	95.5		80-120	1	ICPST	8/18/00	14:20
Mercury	253.7	5.0	5.1	101.0		70-118	1	CVAA	8/16/00	20:32
Molybdenum	202.03	1000	902	90.2		80-120	1	ICPST	8/18/00	14:20
Nickel	231.604	500	487	97.4		80-120	1	ICPST	8/18/00	14:20
Potassium	766.491	50000	52600	105.2		80-120	1	ICPST	8/18/00	14:20
Selenium	196.026	2000	1950	97.4		80-120	1	ICPST	8/18/00	14:20
Silver	328.068	50.0	54.2	108.5		80-120	1	ICPST	8/18/00	14:20
Sodium	330.232	50000	50600	101.1		80-120	1	ICPST	8/18/00	14:20
Thallium	190.864	2000	1960	97.9		80-120	1	ICPST	8/18/00	14:20
Tin	189.989	2000	1750	87.6		80-120	1	ICPST	8/18/00	14:20
Vanadium	292.402	500	476	95.2		80-120	1	ICPST	8/18/00	14:20
Zinc	213.856	500	494	98.9		80-120	1	ICPST	8/18/00	14:20

Comments: Lot #: A0H030213

STL North Canton
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DH9V4L

Original Sample ID: DH9V4 Client ID: MPT-55-SW-01-01

Matrix: Water Units: ug/L Prep Date: 8/16/00 Prep Batch: 0229109

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	O	Serial Dilution Conc	O	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	192	B	135	B		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Antimony	206.838	3.1	U	15.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Arsenic	189.042	38.5		42.2	B		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Barium	493.409	55.2	B	56.8	B	2.9 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Beryllium	313.042	0.20	U	1.0	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Cadmium	226.502	0.33	B	1.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Calcium	317.933	116000		117000		1.4 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Chromium	267.716	1.8	B	4.0	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Cobalt	228.616	1.1	B	3.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Copper	324.753	9.8	B	6.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Iron	271.441	3150	N	3240		3.0 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Lead	220.353	6.9		6.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Magnesium	279.078	4740	B	4810	B	1.5 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Manganese	257.61	450		464		3.1 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Molybdenum	202.03	4.6	B	8.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Nickel	231.604	4.6	B	10.2	B		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Potassium	766.491	3180	B	3080	B	3.2 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Selenium	196.026	4.9	U	24.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Silver	328.068	1.0	U	5.0	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Sodium	330.232	7130		7370	B		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Thallium	190.864	6.6	B	31.5	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Tin	189.989	2.8	U	14.0	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Vanadium	292.402	2.4	B	4.0	U		1	5	ICPST	8/18/00	14:26	8/18/00	14:31
Zinc	213.856	56.0		61.3	B	9.5 %	1	5	ICPST	8/18/00	14:26	8/18/00	14:31

Comments: _____

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Aluminum	308.21	200	10.3	4/18/00
Antimony	206.84	10	3.1	4/18/00
Arsenic	189.04	10	2.9	4/18/00
Barium	493.41	200	0.30	4/18/00
Beryllium	313.04	5	0.20	4/18/00
Cadmium	226.50	2	0.30	4/18/00
Calcium	317.93	5000	22.4	4/18/00
Chromium	267.72	5	0.80	4/18/00
Cobalt	228.62	7	0.70	4/18/00
Copper	324.75	25	1.3	4/18/00
Iron	271.44	100	14.9	4/18/00
Lead	220.35	3	1.3	4/18/00
Magnesium	279.08	5000	10.2	4/18/00
Manganese	257.61	15	0.20	4/18/00
Molybdenum	202.03	40	1.7	4/18/00
Nickel	231.60	40	1.3	4/18/00
Potassium	766.49	5000	19.8	4/18/00
Selenium	196.03	5	4.9	4/18/00
Silver	328.07	5	1.0	4/18/00
Sodium	330.23	5000	155	4/18/00
Thallium	190.86	10	6.3	4/18/00
Tin	189.99	50	2.8	4/18/00
Vanadium	292.40	7	0.80	4/18/00
Zinc	213.86	20	1.0	4/18/00

STL North Canton
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	IDL	Date of IDL
Mercury	253.70	0.2	0.10	3/21/00

Analysis Run Log ICP-IV

 : Instrument Upload Run Log - Page 1 :
 : Started Sat Aug 19 05:16:54 2000 by COUNTSK :
 : Data File: UPLSCAN_DATA_ROOT:<TJA>I60818A.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	SO	1	18-AUG-2000	07:58:00			I6
2	CALSTD	1	18-AUG-2000	08:02:00			I6
3	CAL	1	18-AUG-2000	08:07:00			I6
4	S100	1	18-AUG-2000	08:11:00			I6
5	ICV	1	18-AUG-2000	08:14:00			I6
6	ICB	1	18-AUG-2000	08:20:00			I6
7	SO	1	18-AUG-2000	08:40:00			I6
8	CALSTD	1	18-AUG-2000	08:45:00			I6
9	CAL	1	18-AUG-2000	08:50:00			I6
10	S100	1	18-AUG-2000	08:53:00			I6
11	ICV	1	18-AUG-2000	08:56:00			I6
12	ICB	1	18-AUG-2000	09:03:00			I6
13	CRI	1	18-AUG-2000	09:08:00			I6
14	ICSA	1	18-AUG-2000	09:14:00			I6
15	ICSAB	1	18-AUG-2000	09:19:00			I6
16	CCV	1	18-AUG-2000	09:25:00			I6
17	CCB	1	18-AUG-2000	09:32:00			I6
18	ICSA	1	18-AUG-2000	09:46:00			I6
19	ICSAB	1	18-AUG-2000	09:51:00			I6
20	CCV	1	18-AUG-2000	09:57:00			I6
21	CCB	1	18-AUG-2000	10:04:00			I6
22	DHWJXB	1	18-AUG-2000	10:25:00	0229111	A0H160000	I6
23	DHWJXC	1	18-AUG-2000	10:30:00			I6
24	DHV78	1	18-AUG-2000	10:37:00	0229111	H15143	I6
25	DHV78S	1	18-AUG-2000	10:42:00	0229111	H15143	I6
26	DHV78D	1	18-AUG-2000	10:46:00	0229111	H15143	I6
27	DHDMJ	1	18-AUG-2000	10:53:00	0229111	A0H040195	I6
28	DHDQW	1	18-AUG-2000	10:58:00	0229111	A0H040195	I6
29	DHDR6	1	18-AUG-2000	11:03:00	0229111	A0H040195	I6
30	DHDRQ	1	18-AUG-2000	11:07:00	0229111	A0H040195	I6
31	DHX2MB	1	18-AUG-2000	11:14:00	0229216	A0H160000	I6
32	CCV	1	18-AUG-2000	11:19:00			I6
33	CCB	1	18-AUG-2000	11:25:00			I6
34	DHX2MC	1	18-AUG-2000	11:30:00	0229216	A0H160000	I6
35	DHG58	1	18-AUG-2000	11:37:00	0229216	A0H070150	I6
36	DHG58	5	18-AUG-2000	11:42:00	0229216	A0H070150	I6
37	DHG58S	1	18-AUG-2000	11:46:00	0229216	A0H070150	I6
38	DHG58D	1	18-AUG-2000	11:51:00	0229216	A0H070150	I6
39	DHG5C	1	18-AUG-2000	11:58:00	0229216	A0H070150	I6
40	DHG5F	1	18-AUG-2000	12:03:00	0229216	A0H070150	I6
41	DHG5G	1	18-AUG-2000	12:07:00	0229216	A0H070150	I6
42	DHG5L	1	18-AUG-2000	12:12:00	0229216	A0H070150	I6
43	DHG5N	1	18-AUG-2000	12:17:00	0229216	A0H070150	I6
44	CCV	1	18-AUG-2000	12:22:00			I6

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: Instrument Upload                               Run Log - Page 2 :
: Started Sat Aug 19 05:16:54 2000 by COUNTSK      :
: Data File: UPL$CAN_DATA_ROOT:<TJA>I60818A.ARC;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	CCB	1	18-AUG-2000	12:28:00			I6
46	ZZZZZ	1	18-AUG-2000	12:33:00			I6
47	DHG5V	1	18-AUG-2000	12:38:00	0229216	AOH070150	I6
48	DHG5X	1	18-AUG-2000	12:43:00	0229216	AOH070150	I6
49	DHG61	1	18-AUG-2000	12:48:00	0229216	AOH070150	I6
50	DHG65	1	18-AUG-2000	12:52:00	0229216	AOH070150	I6
51	DHG67	1	18-AUG-2000	12:57:00	0229216	AOH070150	I6
52	DHG6A	1	18-AUG-2000	13:02:00	0229216	AOH070150	I6
53	DHG6D	1	18-AUG-2000	13:07:00	0229216	AOH070150	I6
54	DHG6G	1	18-AUG-2000	13:12:00	0229216	AOH070150	I6
55	DHG6K	1	18-AUG-2000	13:16:00	0229216	AOH070150	I6
56	CCV	1	18-AUG-2000	13:21:00			I6
57	CCB	1	18-AUG-2000	13:28:00			I6
58	CCV	1	18-AUG-2000	13:38:00			I6
59	CCB	1	18-AUG-2000	13:44:00			I6
60	DHG6N	1	18-AUG-2000	13:49:00	0229216	AOH070150	I6
61	DHG6P	1	18-AUG-2000	13:54:00	0229216	AOH070150	I6
62	DHG6R	1	18-AUG-2000	13:59:00	0229216	AOH070150	I6
63	DHG6T	1	18-AUG-2000	14:03:00	0229216	AOH070150	I6
64	DHG70	1	18-AUG-2000	14:08:00	0229216	AOH070150	I6
65	DHWJTB	1	18-AUG-2000	14:15:00	0229109	AOH160000	I6
66	DHWJTC	1	18-AUG-2000	14:20:00	0229109	AOH160000	I6
67	DH9V4	1	18-AUG-2000	14:26:00	0229109	MP023	I6
68	DH9V4L	1	18-AUG-2000	14:31:00			I6
69	DH9V4S	1	18-AUG-2000	14:36:00	0229109	MP023	I6
70	CCV	1	18-AUG-2000	14:42:00			I6
71	CCB	1	18-AUG-2000	14:49:00			I6
72	DH9V4D	1	18-AUG-2000	14:54:00	0229109	MP023	I6
73	DHD2F	1	18-AUG-2000	15:01:00	0229109	MP023	I6
74	DHD34	1	18-AUG-2000	15:05:00	0229109	MP023	I6
75	DHWJPB	1	18-AUG-2000	15:12:00	0229107	AOH160000	I6
76	DHWJPC	1	18-AUG-2000	15:17:00	0229107	AOH160000	I6
77	DHN3G	1	18-AUG-2000	15:23:00	0229107	AOH100246	I6
78	DHN3GL	1	18-AUG-2000	15:28:00			I6
79	DHPPAF	1	18-AUG-2000	15:33:00	0229107	AOH110197	I6
80	DHPPGF	1	18-AUG-2000	15:38:00	0229107	AOH110197	I6
81	DHPPHF	1	18-AUG-2000	15:43:00	0229107	AOH110197	I6
82	CCV	1	18-AUG-2000	15:47:00			I6
83	CCB	1	18-AUG-2000	15:54:00			I6
84	DHPPLF	1	18-AUG-2000	15:59:00	0229107	AOH110197	I6
85	DHPPMF	1	18-AUG-2000	16:04:00	0229107	AOH110197	I6
86	DHPPNF	1	18-AUG-2000	16:08:00	0229107	AOH110197	I6
87	DHRK5	1	18-AUG-2000	16:13:00	0229107	AOH140104	I6
88	DHRKL	1	18-AUG-2000	16:18:00	0229107	AOH140104	I6

VOID
 MR
 8/29/00

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Analysis Run Log

 : Instrument Upload
 : Started Wed Aug 16 20:26:00 2000 by IRWINS
 : Data File: UPLSCAN_DATA_ROOT:<LHG>HG10816A.PRN;1

Run Log - Page 1 :

: CVAA

: Hg-HI

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	16-AUG-2000	17:30:23			H1
2	STD2REP1	1	16-AUG-2000	17:31:43			H1
3	STD3REP1	1	16-AUG-2000	17:32:49			H1
4	STD4REP1	1	16-AUG-2000	17:33:55			H1
5	STD5REP1	1	16-AUG-2000	17:35:02			H1
6	STD6REP1	1	16-AUG-2000	17:36:40			H1
7	CK5ICV	1	16-AUG-2000	17:38:06			H1
8	CK4ICB	1	16-AUG-2000	17:39:31			H1
9	CK3CRA	1	16-AUG-2000	17:40:39			H1
10	CK2CCV	1	16-AUG-2000	17:41:49			H1
11	CK1CCB	1	16-AUG-2000	17:43:04			H1
12	DHK23B	1	16-AUG-2000	17:45:20	0222187	AOH090000	H1
13	DHK23C	1	16-AUG-2000	17:46:44	0222187	AOH090000	H1
14	DGRPF	2	16-AUG-2000	17:48:21	0222187	AOG260104	H1
15	DGRPF	2	16-AUG-2000	17:49:37	0222187	AOG260104	H1
16	DGRPFS	2	16-AUG-2000	17:50:43	0222187	AOG260104	H1
17	DHTP7BF	1	16-AUG-2000	17:52:13	0228116	AOH150000	H1
18	DHTP7CF	1	16-AUG-2000	17:53:22	0228116	AOH150000	H1
19	DHEVPF	1	16-AUG-2000	17:54:43	0228116	HO4222	H1
20	DHEXKF	1	16-AUG-2000	17:55:50	0228116	HO4222	H1
21	DHEXTF	1	16-AUG-2000	17:56:57	0228116	HO4222	H1
22	CK2CCV	1	16-AUG-2000	17:58:15			H1
23	CK1CCB	1	16-AUG-2000	17:59:30			H1
24	DHEXXF	1	16-AUG-2000	18:01:16	0228116	HO4222	H1
25	DHEX8F	1	16-AUG-2000	18:02:22	0228116	HO4222	H1
26	DHEX8SF	1	16-AUG-2000	18:03:47	0228116	HO4222	H1
27	DHEX8DF	1	16-AUG-2000	18:05:25	0228116	HO4222	H1
28	DHEORF	1	16-AUG-2000	18:06:50	0228116	HO4222	H1
29	DHEORSF	1	16-AUG-2000	18:08:06	0228116	HO4222	H1
30	DHEORDF	1	16-AUG-2000	18:09:16	0228116	HO4222	H1
31	DHE1CF	1	16-AUG-2000	18:10:36	0228116	HO4222	H1
32	DHE1HF	1	16-AUG-2000	18:11:42	0228116	HO4222	H1
33	DHE1JF	1	16-AUG-2000	18:13:07	0228116	HO4222	H1
34	CK2CCV	1	16-AUG-2000	18:14:12			H1
35	CK1CCB	1	16-AUG-2000	18:15:47			H1
36	DHE1LF	1	16-AUG-2000	18:16:57	0228116	HO4222	H1
37	DHE1MF	1	16-AUG-2000	18:18:03	0228116	HO4222	H1
38	DHE1PF	1	16-AUG-2000	18:19:12	0228116	HO4222	H1
39	DHTP1B	1	16-AUG-2000	18:20:28	0228113	AOH150000	H1
40	DHTP1C	1	16-AUG-2000	18:21:45	0228113	AOH150000	H1
41	DHPXQ	1	16-AUG-2000	18:23:01	0228113	AOH110206	H1
42	DHPXV	1	16-AUG-2000	18:24:08	0228113	AOH110206	H1
43	DHPX1	1	16-AUG-2000	18:25:14	0228113	AOH110206	H1
44	DHPX1S	1	16-AUG-2000	18:26:20	0228113	AOH110206	H1

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:      Instrument Upload                               Run Log - Page 2 :
:      Started Wed Aug 16 20:26:01 2000 by IRWINS      :
:      Data File: UPLSCAN_DATA_ROOT:<LHG>HG10816A.PRN;1 :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	DHPX1D	1	16-AUG-2000	18:27:36	0228113	AOH110206	H1
46	CK2CCV	1	16-AUG-2000	18:28:57			H1
47	CK1CCB	1	16-AUG-2000	18:30:08			H1
48	DHQ01	1	16-AUG-2000	18:31:14	0228113	AOH110206	H1
49	DHTNQB	1	16-AUG-2000	18:32:32	0228109	AOH150000	H1
50	DHTNQC	1	16-AUG-2000	18:33:49	0228109	AOH150000	H1
51	DHNV2	1	16-AUG-2000	18:35:01	0228109	AOH110102	H1
52	DHNV2S	1	16-AUG-2000	18:36:11	0228109	AOH110102	H1
53	DHNV2D	1	16-AUG-2000	18:37:16	0228109	AOH110102	H1
54	DHNV6	1	16-AUG-2000	18:38:23	0228109	AOH110102	H1
55	DHPR9	1	16-AUG-2000	18:39:53	0228109	H10248	H1
56	DHR1A	1	16-AUG-2000	18:41:03	0228109	AOH120165	H1
57	DHR1J	1	16-AUG-2000	18:42:19	0228109	AOH120165	H1
58	CK2CCV	1	16-AUG-2000	18:43:26			H1
59	CK1CCB	1	16-AUG-2000	18:44:30			H1
60	DHR1M	1	16-AUG-2000	18:45:35	0228109	AOH120165	H1
61	DHR1P	1	16-AUG-2000	18:46:47	0228109	AOH120165	H1
62	DHR1R	1	16-AUG-2000	18:48:06	0228109	AOH120165	H1
63	CK2CCV	1	16-AUG-2000	18:49:34			H1
64	CK1CCB	1	16-AUG-2000	18:50:40			H1
65	CK2CCV	1	16-AUG-2000	19:12:02			H1
66	CK1CCB	1	16-AUG-2000	19:13:07			H1
67	DHWJXB	1	16-AUG-2000	19:14:31	0229111	AOH160000	H1
68	DHWJXC	1	16-AUG-2000	19:15:37	0229111	AOH160000	H1
69	DHV78	1	16-AUG-2000	19:16:46	0229111	H15143	H1
70	DHV78S	1	16-AUG-2000	19:18:07	0229111	H15143	H1
71	DHV78D	1	16-AUG-2000	19:20:16	0229111	H15143	H1
72	DHDMJ	1	16-AUG-2000	19:21:23	0229111	AOH040195	H1
73	DHDQW	1	16-AUG-2000	19:22:40	0229111	AOH040195	H1
74	DHDRQ	1	16-AUG-2000	19:23:56	0229111	AOH040195	H1
75	DHDR6	1	16-AUG-2000	19:25:06	0229111	AOH040195	H1
76	DHWK2B	1	16-AUG-2000	19:26:22	0229113	AOH160000	H1
77	CK2CCV	1	16-AUG-2000	19:27:39			H1
78	CK1CCB	1	16-AUG-2000	19:28:53			H1
79	DHWK2C	1	16-AUG-2000	19:30:03	0229113	AOH160000	H1
80	DHV3E	1	16-AUG-2000	19:31:13	0229113	AOH150124	H1
81	DHV3ES	1	16-AUG-2000	19:32:38	0229113	AOH150124	H1
82	DHV3ED	1	16-AUG-2000	19:33:44	0229113	AOH150124	H1
83	DHWJMBF	1	16-AUG-2000	19:35:31	0229105	AOH160000	H1
84	DHWJMCF	1	16-AUG-2000	19:36:39	0229105	AOH160000	H1
85	DHH4RF	1	16-AUG-2000	19:38:04	0229105	H08124	H1
86	DHH4RSF	1	16-AUG-2000	19:39:10	0229105	H08124	H1
87	DHH4RDF	1	16-AUG-2000	19:40:26	0229105	H08124	H1
88	DHH5XF	1	16-AUG-2000	19:41:32	0229105	H08124	H1

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:      Instrument Upload                               Run Log - Page 3 :
:      Started Wed Aug 16 20:26:01 2000 by IRWINS      :
:      Data File: UPL$CAN_DATA_ROOT:<LHG>HG10816A.PRN;1 :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	CK2CCV	1	16-AUG-2000	19:42:57			H1
90	CK1CCB	1	16-AUG-2000	19:44:13			H1
91	DHH61F	1	16-AUG-2000	19:45:29	0229105	HO8124	H1
92	DHH66F	1	16-AUG-2000	19:46:56	0229105	HO8124	H1
93	DHH69F	1	16-AUG-2000	19:48:06	0229105	HO8124	H1
94	DHK9KF	1	16-AUG-2000	19:49:15	0229105	HO8124	H1
95	DHMHFF	1	16-AUG-2000	19:50:23	0229105	HO8124	H1
96	DHWJPB	1	16-AUG-2000	19:51:44	0229107	AOH160000	H1
97	DHWJPC	1	16-AUG-2000	19:53:00	0229107	AOH160000	H1
98	DHN3G	1	16-AUG-2000	19:54:06	0229107	AOH100246	H1
99	DHPPAF	1	16-AUG-2000	19:55:33	0229107	AOH110197	H1
100	DHPPGF	1	16-AUG-2000	19:56:39	0229107	AOH110197	H1
101	CK2CCV	1	16-AUG-2000	19:58:56			H1
102	CK1CCB	1	16-AUG-2000	20:00:14			H1
103	DHPPHF	1	16-AUG-2000	20:01:40	0229107	AOH110197	H1
104	DHPPLF	1	16-AUG-2000	20:03:01	0229107	AOH110197	H1
105	DHPPMF	1	16-AUG-2000	20:05:20	0229107	AOH110197	H1
106	DHPPNF	1	16-AUG-2000	20:06:26	0229107	AOH110197	H1
107	DHRKLL	1	16-AUG-2000	20:07:34	0229107	AOH140104	H1
108	DHRKLP	1	16-AUG-2000	20:08:39	0229107	AOH140104	H1
109	DHRKR	1	16-AUG-2000	20:10:26	0229107	AOH140104	H1
110	DHRKS	1	16-AUG-2000	20:11:34	0229107	AOH140104	H1
111	DHRLA	1	16-AUG-2000	20:12:41	0229107	AOH140104	H1
112	DHRLD	1	16-AUG-2000	20:13:56	0229107	AOH140104	H1
113	CK2CCV	1	16-AUG-2000	20:15:06			H1
114	CK1CCB	1	16-AUG-2000	20:16:14			H1
115	DHRLH	1	16-AUG-2000	20:17:19	0229107	AOH140104	H1
116	DHRLK	1	16-AUG-2000	20:18:25	0229107	AOH140104	H1
117	DHRL0	1	16-AUG-2000	20:20:16	0229107	AOH140104	H1
118	DHRL0S	1	16-AUG-2000	20:21:35	0229107	AOH140104	H1
119	DHRL0D	1	16-AUG-2000	20:22:45	0229107	AOH140104	H1
120	DHRL2	1	16-AUG-2000	20:24:01	0229107	AOH140104	H1
121	DHRL3	1	16-AUG-2000	20:25:17	0229107	AOH140104	H1
122	DHRL6	1	16-AUG-2000	20:26:25	0229107	AOH140104	H1
123	DHRL8	1	16-AUG-2000	20:27:33	0229107	AOH140104	H1
124	DHWJTB	1	16-AUG-2000	20:29:01	0229109	AOH160000	H1
125	CK2CCV	1	16-AUG-2000	20:30:07			H1
126	CK1CCB	1	16-AUG-2000	20:31:15			H1
127	DHWJTC	1	16-AUG-2000	20:32:54	0229109	AOH160000	H1
128	DH9V4	1	16-AUG-2000	20:34:15	0229109	MP023	H1
129	DH9V4S	1	16-AUG-2000	20:35:21	0229109	MP023	H1
130	DH9V4D	1	16-AUG-2000	20:36:38	0229109	MP023	H1
131	DHD2F	1	16-AUG-2000	20:37:44	0229109	MP023	H1
132	DHD34	1	16-AUG-2000	20:39:03	0229109	MP023	H1

(continued)

 : Instrument Upload Run Log - Page 4 :
 : Started Wed Aug 16 20:26:01 2000 by IRWINS :
 : Data File: UPL\$CAN_DATA_ROOT:<LHG>HG10816A.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	DHTPEBT	1	16-AUG-2000	20:40:30	0229114	AOH150000	H1
134	DHWK4BT	1	16-AUG-2000	20:41:48	0229114	AOH160000	H1
135	DHWK4CT	1	16-AUG-2000	20:43:04	0229114	AOH160000	H1
136	DHWK4LT	1	16-AUG-2000	20:44:23	0229114	AOH160000	H1
137	CK2CCV	1	16-AUG-2000	20:45:31			H1
138	CK1CCB	1	16-AUG-2000	20:46:35			H1
139	DHNV1T	1	16-AUG-2000	20:47:43	0229114	AOH110102	H1
140	DHWK4BT	1	16-AUG-2000	20:48:51	0229127	AOH160000	H1
141	DHWK4BT	1	16-AUG-2000	20:49:59	0229127	AOH160000	H1
142	DHWK4CT	1	16-AUG-2000	20:51:08	0229127	AOH160000	H1
143	DHNVDT	1	16-AUG-2000	20:52:36	0229127	AOH110102	H1
144	DHNV3T	1	16-AUG-2000	20:55:06	0229127	AOH110102	H1
145	DHNVLT	1	16-AUG-2000	20:56:23	0229127	AOH110105	H1
146	DHNVET	1	16-AUG-2000	20:57:30	0229127	AOH110105	H1
147	DHNVFT	1	16-AUG-2000	20:59:01	0229127	AOH110105	H1
148	DHNVGT	1	16-AUG-2000	21:00:10	0229127	AOH110105	H1
149	CK2CCV	1	16-AUG-2000	21:01:19			H1
150	CK1CCB	1	16-AUG-2000	21:03:05			H1
151	DHNVMT	1	16-AUG-2000	21:04:25	0229127	AOH110105	H1
152	DHNVNT	1	16-AUG-2000	21:05:31	0229127	AOH110105	H1
153	DHNVNTS	1	16-AUG-2000	21:06:40	0229127	AOH110105	H1
154	DHNVNTD	1	16-AUG-2000	21:08:09	0229127	AOH110105	H1
155	DHNVQT	1	16-AUG-2000	21:09:41	0229127	AOH110105	H1
156	DHNVRT	1	16-AUG-2000	21:11:00	0229127	AOH110105	H1
157	DHNVTT	1	16-AUG-2000	21:12:16	0229127	AOH110105	H1
158	CK2CCV	1	16-AUG-2000	21:13:28			H1
159	CK1CCB	1	16-AUG-2000	21:14:58			H1
160	CK2CCV	1	16-AUG-2000	22:03:16			H1
161	CK1CCB	1	16-AUG-2000	22:04:22			H1
162	DHEORSF	1	16-AUG-2000	22:05:28	0228116	H04222	H1
163	DHEORDF	1	16-AUG-2000	22:06:34	0228116	H04222	H1
164	CK2CCV	1	16-AUG-2000	22:07:44			H1
165	CK1CCB	1	16-AUG-2000	22:08:49			H1

VOID
MR
8-29-00

----- End of Report -----

SDG NARRATIVE

MP023

GENERAL CHEMISTRY

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

Sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

Holding Time Violation

All samples were prepared and analyzed within the method-specified holding time requirements.

Method Blank Contamination

All analytes in the method blank were less than the associated reporting limits.

MS/MSD/LCS/DCS/Sample Duplicate Outside of QC Criteria

All spike recovery and RPD data met method-specific quality control criteria.

Calibrations

All calibrations and calibration verifications met method-specific quality control criteria.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: AOH030213

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Cyanide	ND	10	ug/L	SW846 9012A	08/14/00	0228155
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #: AOH040124

Matrix: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Cyanide	ND	Work Order #: DHWHP101 10.0	ug/L	MB Lot-Sample #: AOH150000-588 SW846 9012A	08/15-08/16/00	0228588

Dilution Factor: 1

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: AOH030213

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Cyanide	108	Work Order #: DHTTQ102 (61 - 115)	LCS Lot-Sample#: AOH150000-155 SW846 9012A	08/14/00	0228155

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: AOH040124

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Cyanide	102	Work Order #: DHWHP102 (61 - 115)	LCS Lot-Sample#: AOH150000-588 SW846 9012A	08/15-08/16/00	0228588

Dilution Factor: 1

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: AOH030213

Matrix.....: WATER

Date Sampled...: 08/01/00

Date Received...: 08/01/00

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>PREPARATION-</u>	<u>PREP</u>
<u>RECOVERY LIMITS</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Total Cyanide	WO#: (25 - 134)	DH5ED10L-MS/DH5ED10M-MSD	MS Lot-Sample #: AOH010183-001	
108	(25 - 134)	SW846 9012A	08/14/00	0228155
88	(25 - 134) 20	(0-99) SW846 9012A	08/14/00	0228155

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0H040124

Matrix.....: WATER

Date Sampled...: 08/02/00 14:50 Date Received...: 08/04/00

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>PREPARATION-</u>	<u>PREP</u>
	<u>RECOVERY LIMITS</u>	<u>LIMITS</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Cyanide, Total		WC#: DHDD812Q-MS/DHDD812R-MSD	MS Lot-Sample #:	A0H040155-005
	100	(25 - 134)	SW846 9012A	08/15-08/16/00 0228588
	104	(25 - 134) 3.2 (0-99)	SW846 9012A	08/15-08/16/00 0228588

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

%RSD	617.6	.0186	27.06	.1895	.1629	8.225	.0337
#1	-.4525	1913.	7.231	199.6	29.48	.1396	81770.
#2	.7213	1913.	4.908	200.1	29.42	.1243	81810.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2000.	500000.	10000.	50000.	25000.	4000.	600000.
Low	-1000.	-5000.	-5000.	-1000.	-5000.	-1000.	-1000.
Elem	Cd	Co	Cr	Cu	Fe	K	Mg
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	.2255	.6197	2.623	3.461	775.4	13090.	23680.
SDev	.0174	.2701	.318	.119	5.6	26.	1.
%RSD	7.697	43.58	12.14	3.450	.7192	.2009	.0044
#1	.2377	.4287	2.398	3.546	771.5	13070.	23680.
#2	.2132	.8107	2.848	3.377	779.4	13110.	23680.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	50000.	50000.	30000.	600000.	600000.	600000.
Low	-1000.	-1000.	-1000.	-1000.	-1000.	-10000.	-10000.
Elem	Mn	Mo	Na ³⁰²	Ni	Pb	Se	Sb
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	45.07	2.698	208900.	2.647	9.104	2.612	1.419
SDev	.02	.419	235.	.059	.153	1.043	.366
%RSD	.0520	15.53	.1126	2.213	1.677	39.94	25.78
#1	45.05	2.401	208800.	2.688	8.996	3.349	1.678
#2	45.08	2.994	209100.	2.605	9.212	1.874	1.160
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	50000.	50000.	600000.	50000.	15000.	10000.	10000.
Low	-1000.	-1000.	-10000.	-1000.	-1000.	-1000.	-1000.
Elem	Sn	Tl	V	Zn	2203/1	2203/2	2068/2
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avg	.9476	6.603	17.88	30.80	8.322	9.495	-.7530
SDev	.2948	2.178	.12	.14	1.488	.514	.5510
%RSD	31.11	32.98	.6732	.4403	17.88	5.411	73.17
#1	1.156	8.143	17.97	30.90	7.270	9.858	-1.143
#2	.7391	5.064	17.80	30.71	9.373	9.132	-.3634
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	25000.	20000.	50000.	10000.			
Low	-1000.	-1000.	-1000.	-1000.			
Elem	2068/1	1960/1	1960/2				
Units	PPB	PPB	PPB				
Avg	2.503	6.955	.4433				
SDev	.823	2.995	3.059				
%RSD	32.89	43.07	690.2				
#1	3.086	4.837	2.607				
#2	1.921	9.073	-1.720				

9.104ppb = 9.1 ug/L
 gmm 9/22/00

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations:

Affected samples : All

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level (aqueous)</u>
Aluminum	40.5 ug/L	202.5 ug/L
Barium	0.9 ug/L	4.5 ug/L
Beryllium	0.8 ug/L	4.0 ug/L
Calcium ⁽¹⁾	390 ug/L	1950 ug/L
Chromium	0.9 ug/L	4.5 ug/L
Cobalt	1.2 ug/L	6.0 ug/L
Iron ⁽¹⁾	47.9 ug/L	239.5 ug/L
Magnesium ⁽¹⁾	89.7 ug/L	448.5 ug/L
Manganese ⁽¹⁾	2.5 ug/L	12.5 ug/L
Nickel	1.6 ug/L	8.0 ug/L
Potassium	38.7 ug/L	193.5 ug/L
Tin	3.6 ug/L	18 ug/L
Vanadium	1.3 ug/L	6.5 ug/L
Zinc	1.5 ug/L	7.5 ug/L

⁽¹⁾ - Maximum concentration present in an aqueous preparation blank

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration in evaluation for blank contamination. Positive results less than the blank action level for aluminum, chromium, cobalt, nickel and vanadium were qualified, "U", as a result of blank contamination. No validation action was required for the remaining analytes as the results reported were either greater than the blank action level or were nondetected, "U".

Notes

The reported value for cyanide was less than the laboratory reporting limit in sample MPT-55SW-02-01. The sample result was reported as nondetected at 10 ug/L.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory/preparation blanks.

Other Factors Affecting Data Quality: Laboratory duplicate imprecision was noted for aluminum and iron.

APPENDIX F

**HUMAN HEALTH RISK ASSESSMENT
INFORMATION AND CALCULATIONS**

TABLE 1.1
SELECTION OF EXPOSURE PATHWAYS
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 3

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway		
Current	Surface Soil ⁽¹⁾	Surface Soil/ Air	Exposed Areas	Base Worker	Adult	Ingestion	On-site	Quant ⁽²⁾	The site is currently an active Naval base in which workers are engaged in base activities.		
						Dermal	On-site	Quant	The site is currently an active Naval base in which workers are engaged in base activities.		
						Inhalation	On-site	Quant	The site is currently an active Naval base in which workers are engaged in base activities.		
				Construction Worker	Adult	Ingestion	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.		
						Dermal	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.		
						Inhalation	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.		
				Trespasser	Adult and Adolescent	Ingestion	On-site	Quant	The site is currently an active Naval base where persons other than base workers may occasionally be on-site.		
						Dermal	On-site	Quant	The site is currently an active Naval base where persons other than base workers may occasionally be on-site.		
						Inhalation	On-site	Quant	The site is currently an active Naval base where persons other than base workers may occasionally be on-site.		
	Subsurface Soil	Subsurface Soil	Excavations	Construction Worker	Adult	Ingestion	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.		
						Dermal	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.		
						Inhalation	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.		
	Groundwater	Groundwater	Tap Water	Base Worker	Adult	Ingestion	On-site	None	Shallow groundwater is not and is not expected to be used as a water supply.		
						Military Resident	Adult and Child	Ingestion	On-site	None	Shallow groundwater is not and is not expected to be used as a water supply.
								Dermal	On-site	None	Shallow groundwater is not and is not expected to be used as a water supply.
Groundwater/ Air		Entire Area	Construction Worker	Adult	Ingestion	On-site	Quant	Minimal exposure is anticipated.			
					Dermal	On-site	Quant	Minimal exposure is anticipated.			
					Inhalation	On-site	Quant	Minimal exposure is anticipated.			
Surface Water	Surface Water/ Air	Storm Drainage Ditches	Base Worker	Adult	Ingestion	On-site	Quant	The site is currently an active Naval base in which workers are engaged in base activities.			
					Dermal	On-site	Quant	The site is currently an active Naval base in which workers are engaged in base activities.			
					Inhalation	On-site	None	Minimal exposure is anticipated.			
			Construction Worker	Adult	Ingestion	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.			
					Dermal	On-site	Quant	The site is currently an active Naval base in which construction workers are occasionally engaged in intrusive activities in the soil.			
					Inhalation	On-site	None	Minimal exposure is anticipated.			
			Trespasser	Adult and Adolescent	Ingestion	Off-site	Quant	The site is currently an active Naval base where persons other than base workers may occasionally be on-site.			
					Dermal	Off-site	Quant	The site is currently an active Naval base where persons other than base workers may occasionally be on-site.			
					Inhalation	Off-site	None	Minimal exposure is anticipated.			

TABLE 1.1
SELECTION OF EXPOSURE PATHWAYS
GROUP IV
NAVAL STATION MAYPORT
PAGE 2 OF 3

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/ Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway			
Future	Surface Soil	Surface Soil/ Air	Storm Drainage Ditches	Base Worker	Adult	Ingestion	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
						Dermal	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
						Inhalation	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
				Construction Worker	Adult	Ingestion	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
						Dermal	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
						Inhalation	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
				Trespasser	Adult and Adolescent	Ingestion	Off-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
						Dermal	Off-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
						Inhalation	Off-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).			
Future	Surface Soil	Surface Soil/ Air	Exposed Areas	Base Worker	Adult	Ingestion	On-site	Quant	Evaluated under current conditions.			
						Dermal	On-site	Quant	Evaluated under current conditions.			
						Inhalation	On-site	Quant	Evaluated under current conditions.			
				Construction Worker	Adult	Ingestion	On-site	Quant	Evaluated under current conditions.			
						Dermal	On-site	Quant	Evaluated under current conditions.			
						Inhalation	On-site	Quant	Evaluated under current conditions.			
				Trespasser	Adult and Adolescent	Ingestion	On-site	Quant	Evaluated under current conditions.			
						Dermal	On-site	Quant	Evaluated under current conditions.			
						Inhalation	On-site	Quant	Evaluated under current conditions.			
				On-site Resident	Adult and Child	Ingestion	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.			
						Dermal	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.			
						Inhalation	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.			
				Subsurface Soil	Subsurface Soil	Excavations	Construction Worker	Adult	Ingestion	On-site	Quant	Evaluated under current conditions.
									Dermal	On-site	Quant	Evaluated under current conditions.
									Inhalation	On-site	Quant	Evaluated under current conditions.
Groundwater	Groundwater	Tap Water	Base Worker	Adult	Ingestion	On-site	None	Shallow groundwater is not and is not expected to be used as a water supply.				
					Military Resident	Adult and Child	Ingestion	On-site	None	Shallow groundwater is not and is not expected to be used as a water supply.		
							Dermal	On-site	None	Shallow groundwater is not and is not expected to be used as a water supply.		
			Inhalation	On-site			None	Shallow groundwater is not and is not expected to be used as a water supply.				
			On-site Resident	Adult and Child	Ingestion	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.				
					Dermal	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.				
					Inhalation	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.				
			Groundwater/ Air	Entire Area	Construction Worker	Adult	Ingestion	On-site	Quant	Evaluated under current conditions.		
							Dermal	On-site	Quant	Evaluated under current conditions.		
Inhalation	On-site	Quant					Evaluated under current conditions.					

**TABLE 1.1
SELECTION OF EXPOSURE PATHWAYS
GROUP IV
NAVAL STATION MAYPORT
PAGE 3 OF 3**

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	On-Site/Off-Site	Type of Analysis	Rationale for Selection or Exclusion of Exposure Pathway
	Surface Water	Surface Water/ Air	Storm Drainage Ditches	Base Worker	Adult	Ingestion	On-site	None	Evaluated under current conditions.
						Dermal	On-site	None	Evaluated under current conditions.
						Inhalation	On-site	None	Evaluated under current conditions.
				Construction Worker	Adult	Ingestion	On-site	None	Evaluated under current conditions.
						Dermal	On-site	None	Evaluated under current conditions.
						Inhalation	On-site	None	Evaluated under current conditions.
				Trespasser	Adult and Adolescent	Ingestion	Off-site	None	Evaluated under current conditions.
						Dermal	Off-site	None	Evaluated under current conditions.
						Inhalation	Off-site	None	Evaluated under current conditions.
				On-site Resident	Adult and Child	Ingestion	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.
						Dermal	On-site	Quant	The site is expected to remain a Naval base in the future. On-site residents are unlikely. This pathway was evaluated for information purposes.
						Inhalation	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
	Sediments	Sediments	Storm Drainage Ditches	Base Worker	Adult	Ingestion	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Dermal	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Inhalation	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
				Construction Worker	Adult	Ingestion	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Dermal	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Inhalation	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
				Trespasser	Adult and Adolescent	Ingestion	Off-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Dermal	Off-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Inhalation	Off-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
				On-site Resident	Adult and Child	Ingestion	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Dermal	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).
						Inhalation	On-site	None	Minimal exposure is anticipated (i.e., so low such that it is not worth quantifying).

Footnotes:

- 1 Surface soil is defined as soil collected from 0 to 1 feet below ground surface (bgs).
- 2 Quantitative.

**TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
1 OF 1**

Scenario Timeframe: Current/Future Medium: Surface Soil Exposure Medium: Surface Soil/ Air Exposure Point: Group 4

CAS Number	Chemical	Fraction	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used For Screening ⁽¹⁾	Background Value ⁽²⁾	Region 9 PRG ⁽³⁾	Potential ARAR/TBC Value ⁽⁴⁾	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
Organic Volatiles (mg/kg)																
	Acetone	OV	0.0088	J	0.0088	J	55-SS-09-01	1/8	0.024-0.030	0.0088	NA	160 N	78	FL Residential	no	BSL
Organic Semivolatiles (mg/kg)																
56-55-3	Benzo(a)anthracene	OS	0.055	J	0.055	J	55-SS-04-01	1/8	0.34-0.42	0.055	NA	0.103 C	0.23	FL Residential	yes	cPAH
50-32-8	Benzo(a)pyrene	OS	0.045	J	0.089	J	55-SS-04-01	2/8	0.34-0.42	0.089	NA	0.103 C	0.017	FL Residential	yes	ASL
205-99-2	Benzo(b)fluoranthene	OS	0.084	J	0.18	J	55-SS-04-01	2/8	0.34-0.42	0.18	NA	0.103 C	0.23	FL Residential	yes	cPAH
191-24-2	Benzo(g,h,i)perylene	OS	0.12	J	0.12	J	55-SS-04-01	1/8	0.34-0.42	0.12	NA	NA - N	230	FL Residential	no	BSL
207-08-9	Benzo(k)fluoranthene	OS	0.084	J	0.084	J	55-SS-04-01	1/8	0.34-0.42	0.084	NA	1.03 C	2.5	FL Residential	yes	cPAH
117-81-7	Bis(2-ethylhexyl)phthalate	OS	0.098	J	0.14	J	55-SS-04-01	2/8	0.34-0.72	0.14	NA	5.8 C	10.9	FL Residential	no	BSL
218-01-9	Chrysene	OS	0.1	J	0.1	J	55-SS-04-01	1/8	0.34-0.42	0.1	NA	10.3 C	23.3	FL Residential	yes	cPAH
53-70-3	Dibenzo(a,h)anthracene	OS	--		--		--	0/8	0.34-0.42	--	NA	0.0103 C	0.017	FL Residential	yes	cPAH
206-44-0	Fluoranthene	OS	0.07	J	0.15	J	55-SS-04-01	2/8	0.34-0.42	0.15	NA	230 - N	290	FL Residential	no	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	OS	0.095	J	0.095	J	55-SS-04-01	1/8	0.34-0.42	0.095	NA	0.103 C	0.23	FL Residential	yes	cPAH
129-00-0	Pyrene	OS	0.12	J	0.12	J	55-SS-04-01	1/8	0.34-0.42	0.12	NA	230 - N	220	FL Residential	no	BSL
Pesticides (mg/kg)																
72-55-9	4,4'-DDE	PES	0.0027		0.0027		55-SS-07-01	1/8	0.0018-0.0022	0.0027	NA	0.28 C	0.55	FL Residential	no	BSL
11096-82-4	Aroclor-1260	PES	0.01	J	0.01	J	55-SS-08-01	1/8	0.034-0.042	0.01	NA	0.04 C	0.08	FL Residential	no	BSL
Metals (mg/kg)																
7429-90-5	Aluminum	M	193	J	1970	J	55-SS-04-01	8/8	--	1970	Not Avail	7600 - N	7200	FL Residential	no	BSL
7440-38-2	Arsenic	M	0.42		1.3		55-SS-08-01	8/8	--	1.3	Not Avail	0.07 C	0.13	FL Residential	yes	ASL
7440-39-3	Barium	M	2.7		16.8		55-SS-08-01	8/8	--	16.8	5.5	540 - N	110 (s)	FL Residential	no	BSL
7440-43-9	Cadmium	M	0.07	J	1.3		55-SS-08-01	6/8	0.04-0.05	1.3	1.1	3.7 N	75 (s)	FL Residential	no	BSL
7440-70-2	Calcium	M	3460		53800		55-SS-07-01	8/8	--	53800	Not Avail	NA	NA	--	no	NUT
7440-47-3	Chromium	M	1.8	J	10.6		55-SS-08-01	7/8	1.4	10.6	2.6	5 C	35	FL Residential	no	BSL
7440-48-4	Cobalt	M	0.31		1.2		55-SS-08-01	4/8	0.23-0.28	1.2	Not Avail	470 - N	470	FL Residential	no	BSL
7440-50-8	Copper	M	2.5	J	50.7	J	55-SS-01-01	7/8	0.38	50.7	0.69	290 - N	110(s)	FL Residential	no	BSL
7439-89-6	Iron	M	366		2950		55-SS-08-01	8/8	--	2950	Not Avail	2300 - N	2300	FL Residential	yes	ASL
7439-92-1	Lead	M	0.79		80.9		55-SS-08-01	8/8	--	80.9	Not Avail	400	400	FL Residential	no	BSL
7439-95-4	Magnesium	M	102		714		55-SS-08-01	8/8	--	714	Not Avail	NA	NA	--	no	NUT
7439-96-5	Manganese	M	4.2		32.9		55-SS-08-01	8/8	--	32.9	Not Avail	180 - N	160	FL Residential	no	BSL
7439-97-6	Mercury	M	0.29		0.29		55-SS-08-01	1/8	0.02	0.29	Not Avail	2.3 - N	0.34	FL Residential	no	BSL
7439-98-7	Molybdenum	M	0.27		0.27		55-SS-04-01	1/8	0.2-0.24	0.27	Not Avail	39 N	39	FL Residential	no	BSL
7440-09-7	Potassium	M	30		139		55-SS-08-01	8/8	--	139	Not Avail	NA	NA	--	no	NUT
7440-23-5	Sodium	M	1100		1100		55-SS-07-01	0	78.5-429	1100	Not Avail	NA	NA	--	no	NUT
7440-62-2	Vanadium	M	0.97		7		55-SS-04-01	8/8	--	7	3.4	55 - N	15(s)	FL Residential	no	BSL
7440-66-6	Zinc	M	14.1	J	323	J	55-SS-08-01	7/8	1.7	323	2.7	2300 - N	2300	FL Residential	no	BSL

⁽¹⁾ Maximum concentration used as screening value

⁽²⁾ The background screening value is twice the average of background concentrations for inorganic analytes.

⁽³⁾ Based on Superfund Preliminary Remediation Goals, USEPA Region IX, Residential land use (Cancer benchmark value = 1E-06, Hazard Quotient = 0.1) (May 2000)

⁽⁴⁾ FL Residential from Technical Report: Development of Soil Cleanup Levels for Chapter 62-777, F.A.C. (May 1999)(Cancer benchmark value = 1E-06, Hazard Quotient = 0.1)

⁽⁵⁾ Rationale Codes

Selection Reason	Above Screening Levels (ASL)
	If one cPAH is selected as a COPC, all are selected (PAH)
Deletion Reason	Essential Nutrient (NUT)
	Below Screening Levels (BSL)

Chemical names in bold indicate that chemical was selected as a COPC

Definitions:

NA = Not Applicable

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered

J = Estimated Value

COPC = Chemical of Potential Concern

s = direct exposure based on acute toxicity

N = noncarcinogen

C = carcinogen

**TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SUBSURFACE SOIL AREA OF CONCERN C
GROUP IV
NAVAL STATION MAYPORT
1 OF 1**

Scenario Timeframe: Current/Future
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil
Exposure Point: Group 4

CAS Number	Chemical		Fraction	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used For Screening ⁽¹⁾	Background Value ⁽²⁾	Region 9 PRG ⁽³⁾	Potential ARAR/TBC Value ⁽⁴⁾	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
Organic Volatiles (mg/kg)																	
75-35-4	1,1-Dichloroethene	1,1-DICHLOROETH	OV	0.00079	J	0.0012	J	G4-SU-42-04	3/66	0.0048-0.31	0.0012	NA	0.009 C	0.015	FL Residential	no	BSL
78-93-3	2-Butanone	2-BUTANONE	OV	0.0057	J	0.0057	J	G4-SU-05-04	1/66	0.019-1.2	0.0057	NA	730 N	310	FL Residential	no	BSL
67-64-1	Acetone	ACETONE	OV	0.0028	J	0.026	J	G4-SU-05-04	7/66	0.02-1.2	0.026	NA	160 N	78	FL Residential	no	BSL
75-15-0	Carbon Disulfide	CARBON DISULFIDE	OV	0.0014	J	0.0032	J	G4-SU-59-05	3/66	0.0048-0.31	0.0032	NA	36 N	20	FL Residential	no	BSL
Organic Semivolatiles (mg/kg)																	
91-57-6	2-Methylnaphthalene	2-METHYLNAPHTHA	OS	0.44	J	1.22	J	SU-28-05	3/67	0.35-0.95	1.22	NA	Not Avail	8	FL Residential	no	BSL
83-32-9	Acenaphthene	ACENAPHTHENE	OS	2	J	2	J	SU-28-05	1/65	0.35-3.6	2	NA	370 N	190	FL Residential	no	BSL
120-12-7	Anthracene	ANTHRACENE	OS	0.08	J	1.55	J	SU-28-05	2/67	0.35-3.6	1.55	NA	2200 N	1800	FL Residential	no	BSL
56-55-3	Benzo(a)anthracene	BENZO(A)ANTHRAC	OS	0.055	J	0.97	J	SU-20-10	7/67	0.35-4	0.97	NA	0.10 C	0.23	FL Residential	yes	ASL
50-32-8	Benzo(a)pyrene	BENZO(A)PYRENE	OS	0.051	J	0.79	J	SU-20-10	7/67	0.35-4	0.79	NA	0.010 C	0.017	FL Residential	yes	ASL
205-99-2	Benzo(b)fluoranthene	BENZO(B)FLUORAN	OS	0.049	J	1.2	J	SU-20-10	8/67	0.35-4	1.2	NA	0.10 C	0.23	FL Residential	yes	ASL
191-24-2	Benzo(g,h,i)perylene	BENZO(G,H,I)PERYL	OS	0.057	J	0.27	J	SU-20-10	5/67	0.35-4	0.27	NA	NA - N	230	FL Residential	no	BSL
207-08-9	Benzo(k)fluoranthene	BENZO(K)FLUORAN	OS	0.072	J	0.45	J	SU-20-10	4/67	0.35-4	0.45	NA	1.0 C	2.5	FL Residential	yes	cPAH
117-81-7	Bis(2-ethylhexyl)phthalate	BIS(2-ETHYLHEXYL)	OS	1.9	J	2.15	J	SU-28-05	1/67	0.35-3.6	2.15	NA	5.8 C	12.7	FL Residential	no	BSL
218-01-9	Chrysene	CHRYSENE	OS	0.061	J	1.1	J	SU-20-10	7/67	0.35-4	1.1	NA	10 C	23	FL Residential	yes	cPAH
84-66-2	Diethyl phthalate	DIETHYL PHTHALAT	OS	0.054	J	0.74	J	SU-20-10	3/67	0.35-4	0.74	NA	4900 N	5400	FL Residential	no	BSL
53-70-3	Dibenzo(a,h)anthracene	DIBENZO(A,H)ANTH	OS	0.072	J	0.072	J	SU-41-06	1/67	0.35-4	0.072	NA	0.010 C	0.017	FL Residential	yes	ASL
206-44-0	Fluoranthene	FLUORANTHENE	OS	0.06	J	1.45	J	SU-28-05	9/67	0.35-3.6	1.45	NA	230 - N	290	FL Residential	no	BSL
86-73-7	Fluorene	FLUORENE	OS	0.4	J	2.85	J	SU-28-05	2/67	0.35-3.6	2.85	NA	260 N	220	FL Residential	no	BSL
118-74-1	Hexachlorobenzene	HEXACHLOROBENZ	OS	2.2	J	2.2	J	SU-06-07	1/67	0.35-4	2.2	NA	0.05 C	0.08	FL Residential	yes	ASL
193-39-5	Indeno(1,2,3-cd)pyrene	INDENO(1,2,3-CD)PY	OS	0.063	J	0.34	J	SU-20-10	5/67	0.35-4	0.34	NA	0.10 C	0.25	FL Residential	yes	ASL
91-20-3	Naphthalene	NAPHTHALENE	OS	1.7	J	1.85	J	SU-28-05	1/67	0.35-4	1.85	NA	5.6 N	4	FL Residential	no	BSL
85-01-8	Phenanthrene	PHENANTHRENE	OS	0.052	J	3.15	J	SU-28-05	6/67	0.35-3.6	3.15	NA	NA - N	200	FL Residential	no	BSL
129-00-0	Pyrene	PYRENE	OS	0.068	J	2.45	J	SU-28-05	9/67	0.35-3.6	2.45	NA	230 - N	220	FL Residential	no	BSL
Metals (mg/kg)																	
7429-90-5	Aluminum	ALUMINUM	M	51.3	J	12000	J	SU-49-03	67/67	--	12000	Not Avail	7600 - N	7200	FL Residential	yes	ASL
7440-36-0	Antimony	ANTIMONY	M	0.33	J	0.33	J	SU-57-03	1/67	0.22-0.79	0.33	Not Avail	3.1 N	2.6	FL Residential	no	BSL
7440-38-2	Arsenic	ARSENIC	M	0.205	J	6.9	J	SU-49-03	64/67	0.26-0.44	6.9	0.7	0.065 C	0.13	FL Residential	yes	ASL
7440-39-3	Barium	BARIUM	M	1.7	J	16.9	J	SU-49-03	67/67	--	16.9	7.2	540 - N	110 (s)	FL Residential	no	BSL
7440-43-9	Cadmium	CADMIUM	M	0.03	J	0.27	J	SU-49-03	20/67	0.02-0.11	0.27	Not Avail	3.7 N	75 (s)	FL Residential	no	BSL
7440-70-2	Calcium	CALCIUM	M	499	J	264000	J	SU-06-07	66/67	159	264000	Not Avail	NA	NA	--	no	NUT
7440-47-3	Chromium	CHROMIUM	M	0.7	J	50	J	SU-67-05	67/67	--	50	2.7	5 C	35	FL Residential	yes	ASL
7440-48-4	Cobalt	COBALT	M	0.1	J	3.6	J	SU-49-03	56/67	0.06-0.27	3.6	0.8	470 - N	470	FL Residential	no	BSL
7440-50-8	Copper	COPPER	M	0.24	J	203	J	SU-45-04	28/67	0.2-0.29	203	2.1	290 - N	110(s)	FL Residential	yes	ASL
7439-89-6	Iron	IRON	M	7.36	J	16700	J	SU-49-03	67/67	--	16700	Not Avail	2300 - N	2300	FL Residential	yes	ASL
7439-92-1	Lead	LEAD	M	0.24	J	57.9	J	SU-57-03	57/67	0.21-1.5	57.9	1.66	400	400	FL Residential	no	BSL
7439-95-4	Magnesium	MAGNESIUM	M	54.8	J	2470	J	SU-49-03	65/67	11.1-29.5	2470	Not Avail	NA	NA	--	no	NUT
7439-96-5	Manganese	MANGANESE	M	1.4	J	180	J	SU-49-03	67/67	--	180	Not Avail	180 - N	160	FL Residential	yes	ASL
7439-97-6	Mercury	MERCURY	M	0.01	J	0.06	J	SU-49-03	20/67	0.01-0.02	0.06	0.05	2.3 - N	0.34	FL Residential	no	BSL
7440-02-0	Nickel	NICKEL	M	0.22	J	7.8	J	SU-45-04	62/67	0.2-0.23	7.8	Not Avail	160 - N	110(s)	FL Residential	no	BSL
7440-09-7	Potassium	POTASSIUM	M	19.5	J	1540	J	SU-49-03	60/67	8.1-73.8	1540	Not Avail	NA	NA	--	no	NUT
7782-49-2	Selenium	SILVER	M	0.255	J	0.82	J	SU-49-03	1/67	0.27-0.7	0.82	Not Avail	39 N	39	FL Residential	no	BSL
7440-22-4	Silver	SODIUM	M	2.5	J	2.5	J	SU-27-07	1/67	0.04-0.57	2.5	Not Avail	39 N	39	FL Residential	no	BSL
7440-23-5	Sodium	TIN	M	59.8	J	3100	J	SU-06-07	22/67	34.2-1470	3100	Not Avail	NA	NA	--	no	NUT
7440-31-5	Tin	VANADIUM	M	107	J	107	J	SU-44-04	1/67	0.95-2.7	107	5.4	4700 N	4400	FL Residential	no	BSL
7440-62-2	Vanadium	ZINC	M	0.7	J	26.6	J	SU-49-03	67/67	--	26.6	3.1	55 - N	15(s)	FL Residential	yes	ASL
7440-66-6	Zinc		M	4.5	J	143	J	SU-27-07	35/67	1.7-7.9	143	4.9	2300 - N	2300	FL Residential	no	BSL

⁽¹⁾ Maximum concentration used as screening value

⁽²⁾ The background screening value is twice the average of background concentrations for inorganic analytes.

⁽³⁾ Based on Superfund Preliminary Remediation Goals, USEPA Region IX, Residential land use (Cancer benchmark value = 1E-06, Hazard Quotient = 0.1) (May 2000)

⁽⁴⁾ FL Residential from Technical Report, Development of Soil Cleanup Levels for Chapter 62-777, F.A.C. (May 1999)(Cancer benchmark value = 1E-06, Hazard Quotient = 0.1)

⁽⁵⁾ Rationale Codes

Selection Reason

Above Screening Levels (ASL)

Deletion Reason

If one cPAH is selected as a COPC, all are selected (PAH)
Maximum detected concentration is below background screening level (BKG)
Essential Nutrient (NUT)
Below Screening Levels (BSL)

Definitions:

NA = Not Applicable

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered

J = Estimated Value

COPC = Chemical of Potential Concern

s = direct exposure based on acute toxicity

N = noncarcinogen

C = carcinogen

Chemical names in bold indicate that chemical was selected as a COPC

**TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1**

Scenario Timeframe: Future Medium: Surface Water Exposure Medium: Surface Water Exposure Point: Ponds
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CAS Number	Chemical	Fraction	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used For Screening ⁽¹⁾	Background Value ⁽²⁾	Screening Toxicity Values ⁽³⁾	Potential ARAR/TBC Value ⁽⁴⁾	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
Organic Volatiles (µg/l)																	
78-93-3	2-Butanone	OV	4.8	J	4.8	J	µg/l	55-SW-01-01	1/5	10	4.8	NA	190 N	12000	Florida SW	no	BSL
67-64-1	Acetone	OV	3	J	39	J	µg/l	55-SW-01-01	7/7	--	39	NA	61 N	169.2	Florida SW	no	BSL
75-15-0	Carbon Disulfide	OV	0.37	J	0.37	J	µg/l	55-SW-01-01	1/7	1-5	0.37	NA	100 N	10.5	Florida SW	no	BSL
Organic Semivolatiles (µg/l)																	
108-39-4	3-Methylphenol	OS	18		18		µg/l	55-SW-01-01	1/3	10	18	NA	180 N	44.5	Florida SW	no	BSL
106-44-5	4-Methylphenol	OS	18		18		µg/l	55-SW-01-01	1/3	10	18	NA	18 N	7	Florida SW	yes	ASL
62-53-3	Aniline	OS	11		11		µg/l	55-SW-01-01	1/7	10	11	NA	4 C	1.3	Florida SW	yes	ASL
117-81-7	Bis(2-ethylhexyl)phthalate	OS	1	J	2	J	µg/l	G4W001	3/7	5-10	2	NA	1.6 C	0.007	Florida SW	yes	ASL
85-68-7	Butyl benzyl phthalate	OS	4	J	4	J	µg/l	G4W003	1/7	10	4	NA	730 N	2.5	Florida SW	yes	ASL
84-74-2	Di-n-butyl phthalate	OS	1	J	2	J	µg/l	G4W001	3/7	10	2	NA	360 N	2.3	Florida SW	no	BSL
108-95-2	Phenol	OS	12		12		µg/l	55-SW-01-01	1/7	10	12	NA	2200 N	0.65	Florida SW	yes	ASL
Metals (µg/l)																	
7429-90-5	Aluminum	M	1910		4330		µg/l	55-SW-02-01	2/3	192	4330	Not Avail	3600 N	1.3	Florida SW	yes	ASL
7440-38-2	Arsenic	M	6.1		38.5		µg/l	55-SW-01-01	3/7	5	38.5	5.6	0.015 C	50 P	Florida SW	no	BSL
7440-39-3	Barium	M	27.1		55.2		µg/l	55-SW-01-01	4/7	25	55.2	22.9	260 N	(6)	Florida SW	yes	ASL
7440-43-9	Cadmium	M	0.33		0.33		µg/l	55-SW-01-01	1/7	0.3-5	0.33	3.1	1.8 N	0.93	Florida SW	no	BKG, BSL
7440-70-2	Calcium	M	77200		116000		µg/l	55-SW-01-01	3/3	--	116000	282175	nutrient	Not Avail	--	no	NUT, BKG
7440-47-3	Chromium	M	6.5		6.5		µg/l	55-SW-02-01	1/7	1.8-10	6.5	2.6	11 N	1.1	Florida SW	yes	ASL
7440-50-8	Copper	M	3.5		9.8		µg/l	55-SW-01-01	3/7	10	9.8	14.5	140 N	0.29	Florida SW	no	BKG
7439-89-6	Iron	M	775		3150		µg/l	55-SW-01-01	3/3	--	3150	386	1100 N	100	Florida SW	yes	ASL
7439-92-1	Lead	M	4.6		10.3		µg/l	G4W004	6/7	3	10.3	2.1	Not Avail	15 P	Florida SW	no	BSL
7439-95-4	Magnesium	M	4740		23700		µg/l	55-SW-03-01	3/3	--	23700	671150	nutrient	Not Avail	--	no	NUT, BKG
7439-96-5	Manganese	M	45.1		450		µg/l	55-SW-01-01	3/3	--	450	83.5	88 N	Not Avail	--	yes	ASL
7439-98-7	Molybdenum	M	2.7		4.6		µg/l	55-SW-01-01	3/3	--	4.6	Not Avail	18 N	Not Avail	--	yes	ASL
7440-09-7	Potassium	M	3180		13100		µg/l	55-SW-03-01	3/3	--	13100	Not Avail	nutrient	Not Avail	--	no	NUT
7782-49-2	Selenium	M	5.8		5.8		µg/l	55-SW-02-01	1/7	4.9-5	5.8	8.5	18 N	5	Florida SW	no	BKG
7440-23-5	Sodium	M	7130		209000		µg/l	55-SW-03-01	3/3	--	209000	191542	nutrient	(7)	Florida SW	no	BSL, NUT
7440-28-0	Thallium	M	6.4		6.6		µg/l	55-SW-01-01	3/7	10	6.6	19.9	0.24 N	6.3	Florida SW	no	BKG
7440-31-5	Tin	M	43.3		81.7		µg/l	G4W004	4/7	2.8	81.7	216	2200 N	Not Avail	--	no	BKG
7440-62-2	Vanadium	M	15		17.9		µg/l	55-SW-03-01	2/7	2.4-10	17.9	6.4	26 N	Not Avail	--	yes	ASL
7440-66-6	Zinc	M	24.2		67.9		µg/l	G4W003	4/7	20	67.9	8.8	1100 N	86	Florida SW	no	BSL

Data from groundwater collected from 11/1999 through 01/2000 except where noted.

- (1) Maximum concentration used as screening value
- (2) The background screening value is twice the average of detected concentrations for inorganic analytes.
- (3) Based on Superfund Preliminary Remediation Goals, USEPA Region IX, Residential land use (Cancer benchmark value = 1E-06, Hazard Quotient = 0.1) (May 2000)
- (4) Based on Freshwater Surface Water Criteria from Technical Report: Development of Soil Cleanup Levels for Chapter 62-777, F.A.C. (May 1999)(Cancer benchmark value = 1E-06, Hazard Quotient = 0.1)
- (5) Rationale Codes

Selection Reason	Above Screening Levels (ASL)
Deletion Reason	Inrequent Detection (IFD) Background Levels (BKG) No Toxicity Information (NTX) Essential Nutrient (NUT) Below Screening Level (BSL)

- (6) Screening concentration should not be greater than 10% above background.
- (7) Shall not be increased more than 50% above background or to 1275, whichever is greater (per Chapter 62-302, F.A.C.)

Definitions:
 Not Avail = Not available
 NA = Not Applicable
 COPC = Chemical of Potential Concern
 ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
 N = noncarcinogenic
 C = Carcinogenic
 Florida SW = Freshwater SW criteria from Technical Report: Development of Soil Cleanup Requirements for Chapter 62-777, F.A.C. (May 1999)
 s = Secondary Standard, presented but not used in COPC selection

**TABLE 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SEDIMENT
GROUP IV
NAVAL STATION MAYPORT
1 OF 1**

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Group 4

CAS Number	Chemical	Fraction	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used For Screening ⁽¹⁾	Background Value ⁽²⁾	Region 9 PRG ⁽³⁾	Potential ARAR/TBC Value ⁽⁴⁾	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
Organic Volatiles (mg/kg)																
78-93-3	2-Butanone	OV	0.003	J	0.016	J	G4D00401	4/11	0.011-0.036	0.016	NA	730 N	310	FL Residential	no	BSL
67-64-1	Acetone	OV	0.002	J	0.015	J	G4D00301	5/9	0.011-0.036	0.015	NA	160 N	78	FL Residential	no	BSL
75-15-0	Carbon Disulfide	OV	0.004	J	0.027	J	G4D00401	3/11	0.005-0.0089	0.027	NA	36 N	20	FL Residential	no	BSL
75-09-2	Methylene Chloride	OV	0.002	J	0.012	J	G4D00401	8/11	0.0063-0.0089	0.012	NA	1.1 C	2	FL Residential	no	BSL
127-18-4	Tetrachloroethene	OV	0.008	J	0.009	J	G4D00501	2/11	0.005-0.014	0.009	NA	0.71 C	1.1	FL Residential	no	BSL
Organic Semivolatiles (mg/kg)																
56-55-3	Benzo(a)anthracene	OS	0.1	J	0.1	J	G4D00301	1/10	0.41-2.6	0.1	NA	0.078 C	0.18	FL Residential	yes	cPAH
50-32-8	Benzo(a)pyrene	OS	0.056	J	0.12	J	G4D00301	2/10	0.41-2.6	0.12	NA	0.0078 C	0.013	FL Residential	yes	ASL
205-99-2	Benzo(b)fluoranthene	OS	0.09	J	0.15	J	G4D00301	2/10	0.41-2.6	0.15	NA	0.078 C	0.18	FL Residential	yes	cPAH
191-24-2	Benzo(g,h,i)perylene	OS	0.078	J	0.56	J	G4D00501	2/10	0.41-0.67	0.56	NA	NA - N	230	FL Residential	no	BSL
207-08-9	Benzo(k)fluoranthene	OS	0.086	J	0.18	J	G4D00301	2/10	0.41-2.6	0.18	NA	0.78 C	1.9	FL Residential	yes	cPAH
117-81-7	Bis(2-ethylhexyl)phthalate	OS	0.058	J	2	J	G4D00501	6/10	0.41-0.6	2	NA	4.4 C	9.5	FL Residential	no	BSL
85-68-7	Butyl benzyl phthalate	OS	0.099	J	1.5	J	G4D00501	2/10	0.41-0.67	1.5	NA	1200 N	1500	FL Residential	no	BSL
218-01-9	Chrysene	OS	0.086	J	0.18	J	G4D00301	2/10	0.41-2.6	0.18	NA	7.8 C	18	FL Residential	yes	cPAH
84-66-2	Diethyl phthalate	OS	1.8	J	1.8	J	55-SD-02-01	1/10	0.41-2.6	1.8	NA	4900 N	5400	FL Residential	no	BSL
84-74-2	Di-n-butyl phthalate	OS	0.071	J	0.53	J	G4D00401	4/10	0.41-2.6	0.53	NA	610 N	730	FL Residential	no	BSL
53-70-3	Dibenzo(a,h)anthracene	OS	--	J	--	J	--	0/10	0.41-2.6	--	NA	0.0078 C	0.013	FL Residential	yes	cPAH
206-44-0	Fluoranthene	OS	0.085	J	0.25	J	G4D00301	3/10	0.41-2.6	0.25	NA	230 - N	290	FL Residential	no	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	OS	0.076	J	0.37	J	G4D00501	2/10	0.41-0.67	0.37	NA	0.078 C	0.18	FL Residential	yes	ASL
85-01-8	Phenanthrene	OS	0.1	J	0.1	J	G4D00301	1/10	0.41-2.6	0.1	NA	NA - N	200	FL Residential	no	BSL
129-00-0	Pyrene	OS	0.067	J	0.24	J	G4D00301	3/10	0.41-2.6	0.24	NA	230 - N	220	FL Residential	no	BSL
Pesticides (mg/kg)																
72-55-9	4,4'-DDE	PEST	0.0028	J	0.0028	J	55-SD-02-01	1/4	0.0021-0.052	0.0028	NA	0.21 C	0.41	FL Residential	no	BSL
57-74-9	Chlordane	PEST	6.2	J	6.2	J	G4D00501	1/1	--	6.2	NA	0.2 C	0.39	FL Residential	yes	ASL
Metals (mg/kg)																
7429-90-5	Aluminum	M	240	J	1980	J	55-SD-02-01	3/3	--	1980	Not Avail	7600 - N	7200	FL Residential	no	BSL
7440-38-2	Arsenic	M	0.71	J	8.7	J	G4D00501	6/9	0.55-0.9	8.7	2.5	0.049 C	0.1	FL Residential	yes	ASL
7440-39-3	Barium	M	2.3	J	220	J	G4D00501	8/9	3.4	220	14.3	540 - N	110 (s)	FL Residential	yes	ASL
7440-43-9	Cadmium	M	1.4	J	17	J	G4D00501	4/4	--	17	0.9	3.7 N	75 (s)	FL Residential	yes	BSL
7440-70-2	Calcium	M	14700	J	59500	J	55-SD-03-01	3/3	--	59500	Not Avail	NA	NA	--	no	NUT
7440-47-3	Chromium	M	1.7	J	171	J	G4D00501	9/9	--	171	14.7	3.8 C	26	FL Residential	yes	ASL
7440-48-4	Cobalt	M	0.47	J	3.7	J	G4D00401	4/9	0.27-1.8	3.7	2	470 - N	470	FL Residential	no	BSL
7440-50-8	Copper	M	1.8	J	640	J	G4D00501	8/9	0.94	640	5	290 - N	110(s)	FL Residential	yes	ASL
7439-89-6	Iron	M	430	J	2100	J	55-SD-02-01	3/3	--	2100	Not Avail	2300 - N	2300	FL Residential	no	BSL
7439-92-1	Lead	M	2.6	J	440	J	G4D00501	9/9	--	440	6.8	400	400	FL Residential	yes	ASL
7439-95-4	Magnesium	M	80.8	J	788	J	55-SD-03-01	3/3	--	788	Not Avail	NA	NA	--	no	NUT
7439-96-5	Manganese	M	10.8	J	25.1	J	55-SD-02-01	3/3	--	25.1	Not Avail	180 - N	160	FL Residential	no	BSL
7439-97-6	Mercury	M	1.4	J	1.4	J	G4D00501	1/9	0.02-0.25	1.4	0.3	2.3 N	0.34	FL Residential	yes	ASL
7439-98-7	Molybdenum	M	0.54	J	0.54	J	55-SD-02-01	1/3	0.23-0.25	0.54	Not Avail	39 N	39	FL Residential	no	BSL
7440-02-0	Nickel	M	2.4	J	17	J	G4D00501	5/9	0.31-2.7	17	6.2	160 N	110(s)	FL Residential	no	BSL
7440-09-7	Potassium	M	24.5	J	144	J	55-SD-02-01	3/3	--	144	Not Avail	NA	NA	--	no	NUT
7782-49-2	Selenium	M	0.87	J	0.87	J	55-SD-02-01	1/9	0.53-1.4	0.87	1.1	39 N	39	FL Residential	no	BSL
7440-22-4	Silver	M	4.6	J	4.6	J	G4D00501	1/9	0.38-2.8	4.6	Not Avail	39 N	39	FL Residential	no	BSL
7440-23-5	Sodium	M	516	J	516	J	55-SD-03-01	1/3	131-366	516	Not Avail	NA	NA	--	no	NUT
7440-31-5	Tin	M	8.1	J	43	J	G4D00501	4/9	2.2-3.4	43	35.8	4700 N	4400	FL Residential	no	BSL
7440-62-2	Vanadium	M	1.5	J	40.4	J	G4D00401	8/9	1.3	40.4	14.3	55 - N	15(s)	FL Residential	yes	ASL
7440-66-6	Zinc	M	5.9	J	628	J	G4D00501	9/9	--	628	24.2	2300 - N	2300	FL Residential	no	BSL

⁽¹⁾ Maximum concentration used as screening value

⁽²⁾ The background screening value is twice the average of background concentrations for inorganic analytes.

⁽³⁾ Based on Superfund Preliminary Remediation Goals, USEPA Region IX, Residential land use (Cancer benchmark value = 1E-06, Hazard Quotient = 0.1) (May 2000)

⁽⁴⁾ FL Residential from Technical Report: Development of Soil Cleanup Levels for Chapter 62-777, F.A.C. (May 1999)(Cancer benchmark value = 1E-06, Hazard Quotient = 0.1)

⁽⁵⁾ Rationale Codes

Selection Reason Above Screening Levels (ASL)
If one cPAH is selected as a COPC, all are selected (PAH)
Deletion Reason Maximum detected concentration is below background screening level (BKG)
Essential Nutrient (NUT)
Below Screening Levels (BSL)

Chemical names in bold indicate that chemical was selected as a COPC

Definitions:

NA = Not Applicable
ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered
J = Estimated Value
COPC = Chemical of Potential Concern
s = direct exposure based on acute toxicity
N = noncarcinogen
C = carcinogen

TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 2

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Tap Water/ Vapor

CAS Number	Chemical	Fraction	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used For Screening ⁽¹⁾	Background Value ⁽²⁾	Screening Toxicity Values ⁽³⁾	Potential ARAR/TBC Value ⁽⁴⁾	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
Organic Volatiles (µg/l)																	
79-34-5	1,1,2,2-Tetrachloroethane	OV	0.093	J	0.093	J	µg/l	G4-GW-57-05	1/89	1-10	0.093	NA	81 N	7	FL GCTL	no	BSL
75-34-3	1,1-Dichloroethane	OV	0.12	J	14		µg/l	G4-GW-31-09	7/89	1-10	14	NA	81 N	7	FL GCTL	yes	ASL
75-35-4	1,1-Dichloroethene	OV	0.14	J	0.44	J	µg/l	G4-GW-56-05	13/89	1-10	0.44	NA	0.0038 C	7 P	FL GCTL	no	BSL
107-06-2	1,2-Dichloroethane	OV	0.11	J	0.11	J	µg/l	G4-GW-31-09	1/89	1-10	0.11	NA	0.01 C	3 P	FL GCTL	no	BSL
540-59-0	1,2-Dichloroethene (total)	OV	0.11	J	6.7		µg/l	G4-GW-31-09	7/98	1-10	6.7	NA	Not Avail N	6.3	FL GCTL	yes	ASL
78-93-3	2-Butanone	OV	0.66	J	1	J	µg/l	G4-GW-61-05	7/89	10-100	1	NA	190 N	420	FL GCTL	no	BSL
591-78-6	2-Hexanone	OV	1.5	J	1.5	J	µg/l	G4-GW-60-05	1/89	10-100	1.5	NA	Not Avail N	28	FL GCTL	no	BSL
108-10-1	4-Methyl-2-pentanone	OV	0.57	J	1	J	µg/l	G4-GW-45-07	6/89	10-100	1	NA	16 N	56	FL GCTL	no	BSL
71-43-2	Benzene	OV	0.12	J	1.2		µg/l	G4-GW-26-05	5/98	1-10	1.2	NA	0.03 C	1 P	FL GCTL	yes	ASL
75-15-0	Carbon disulfide	OV	0.11	J	1.1		µg/l	G4-GW-58-05	20/89	1-10	1.1	NA	100 N	70	FL GCTL	no	BSL
108-90-7	Chlorobenzene	OV	0.14	J	0.14	J	µg/l	G4-GW-18-09	1/87	1-10	0.14	NA	11 N	100 P	FL GCTL	no	BSL
75-00-3	Chloroethane	OV	0.7	J	0.7	J	µg/l	G4-GW-31-09	1/87	1-10	0.7	NA	0.38 C	1	FL GCTL	no	BSL
74-87-3	Chloromethane	OV	0.17	J	0.88	J	µg/l	G4-GW-57-05	33/89	1-10	0.88	NA	0.125 C	0.225	FL GCTL	yes	ASL
156-59-2	Cis-1,2-dichloroethene	OV	0.11	J	5.8		µg/l	G4-GW-31-09	10/98	0.5-5	5.8	NA	6.1 N	70 P	FL GCTL	no	BSL
1634-04-4	Methyl tert-butyl ether	OV	0.42	J	0.42	J	µg/l	G4-GW-51-05	1/89	5-50	0.42	NA	2 N	5	FL GCTL	no	BSL
75-09-2	Methylene Chloride	OV	1.1		1.1		µg/l	53-GW-DPW02	1/96	1-10	1.1	NA	0.36 C	5 P	FL GCTL	no	BSL
156-60-5	Trans-1,2-dichloroethene	OV	0.89		0.89		µg/l	G4-GW-31-09	1/89	0.5-5	0.89	NA	12 N	100 P	FL GCTL	no	BSL
79-01-6	Trichloroethene	OV	0.37	J	0.37	J	µg/l	G4-GW-31-09	1/89	1-10	0.37	NA	0.13 C	3 P	FL GCTL	no	BSL
75-01-4	Vinyl chloride	OV	0.16	J	1.5		µg/l	47-GW-DPW14	5/98	1-10	1.5	NA	0.003 C	1 P	FL GCTL	yes	ASL
Organic Semivolatiles (µg/l)																	
541-73-1	1,3-Dichlorobenzene	OS	3.8	J	3.8	J	µg/l	G4-GW-17-09	1/86	10-40	3.8	NA	0.55 N	1	FL GCTL	yes	ASL
106-46-7	1,4-Dichlorobenzene	OS	1.1	J	1.1	J	µg/l	G4-GW-17-09	1/88	10-40	1.1	NA	0.04 C	75 P	FL GCTL	no	BSL
91-57-6	2-Methylnaphthalene ⁽⁷⁾	OS	3.9	J	4.6	J	µg/l	G4-GW-28-05	3/97	10-40	4.6	NA	0.62 N	2	FL GCTL	yes	ASL
108-39-4	3-Methylphenol	OS	1.5	J	1.5	J	µg/l	G4-GW-27-08	1/97	10-40	1.5	NA	180 N	3.5	FL GCTL	no	BSL
83-32-9	Acenaphthene	OS	2.8	J	6.1	J	µg/l	G4-GW-33-06	7/97	10-40	6.1	NA	37 N	2	FL GCTL	yes	ASL
120-12-7	Anthracene	OS	1.7	J	1.7	J	µg/l	G4-GW-27-08	1/88	10-40	1.7	NA	180 N	210	FL GCTL	no	BSL
117-81-7	Bis(2-ethylhexyl)phthalate	OS	2.1	J	3.4	J	µg/l	G4-GW-29-05	6/97	5-26	3.4	NA	0.4 C	6 P	FL GCTL	no	BSL
86-74-8	Carbazole	OS	20		20		µg/l	G4-GW-27-08	1/88	10-40	20	NA	0.28 C	0.33	FL GCTL	yes	ASL
206-44-0	Fluoranthene	OS	1.4	J	5.5	J	µg/l	G4-GW-27-08	5/97	10-40	5.5	NA	150 N	28	FL GCTL	no	BSL
86-73-7	Fluorene	OS	3.4	J	5.2	J	µg/l	G4-GW-27-08	2/88	10-40	5.2	NA	24 N	28	FL GCTL	no	BSL
91-20-3	Naphthalene	OS	2.2	J	2.75	J	µg/l	G4-GW-28-05	3/97	10-40	2.75	NA	0.62 N	2	FL GCTL	yes	ASL
59-89-2	n-Nitrosomorpholine	OS	1.4	J	1.4	J	µg/l	47-GW-DPW13	1/95	10-40	1.4	NA	Not Avail	Not Avail		no	NTX
85-01-8	Phenanthrene	OS	5.3	J	7	J	µg/l	G4-GW-27-08	2/88	10-40	7	NA	Not Avail N	21	FL GCTL	no	BSL
108-95-2	Phenol	OS	1.3	J	1.8	J	µg/l	G4-GW-64-05	5/89	10-40	1.8	NA	2200 N	1	FL GCTL	yes	ASL
129-00-0	Pyrene	OS	1.9	J	5.3	J	µg/l	G4-GW-27-08	4/97	10-40	5.3	NA	18 N	21	FL GCTL	no	BSL
110-86-1	Pyridine	OS	2.6	J	2.6	J	µg/l	G4-GW-40-04	1/88	10-40	2.6	NA	3.6 N	0.7	FL GCTL	yes	ASL

**TABLE 2.5
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 2 OF 2**

CAS Number	Chemical	Fraction	Minimum Concentration	Minimum Qualifier	Maximum Concentration	Maximum Qualifier	units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used For Screening ⁽¹⁾	Background Value ⁽²⁾	Screening Toxicity Values ⁽³⁾	Potential ARAR/TBC Value ⁽⁴⁾	Potential ARAR/TBC Source	COPC Flag	Rationale for Contaminant Deletion or Selection ⁽⁵⁾
Metals (µg/l)																	
7429-90-5	Aluminum	M	190		851		µg/l	G4-GW-44-04	3/89	10.3-139	851	NA	3600 N	200 S	FL GCTL	yes	ASL
7440-36-0	Antimony	M	2.9		4.2		µg/l	G4-GW-30-07	4/98	2.1-7.1	4.2	NA	1.5 N	6 P	FL GCTL	no	BSL
7440-38-2	Arsenic	M	2.825		161		µg/l	G4-GW-65-05	33/98	1.7-10.5	161	5.3	0.0038 C	50 P	FL GCTL	yes	ASL
7440-39-3	Barium	M	1.7		60.7		µg/l	G4-GW-67-05	86/98	2-5.3	60.7	37.8	260 N	2000 P	FL GCTL	no	BSL
7440-70-2	Calcium	M	13800		221000	J	µg/l	G4-GW-67-05	98/98	-	221000	226125	nutrient	Not Avail	FL GCTL	no	NUT, BKG
18540-29-9	Chromium	M	0.875		7		µg/l	G4-GW-67-05	12/98	0.67-3.6	7	NA	11 N	100 P	FL GCTL	no	BSL
7440-48-4	Cobalt	M	1.5		5.8		µg/l	47-GW-DPW23S	3/96	0.7-2.2	5.8	NA	220 N	420	FL GCTL	no	BSL
7440-50-8	Copper	M	6.8		6.8		µg/l	G4-GW-66-05	1/89	0.77-11.6	6.8	NA	140 N	1000 S	FL GCTL	no	BSL
7439-89-6	Iron	M	61.1	J	13100		µg/l	G4-GW-67-05	88/98	70.1-372	13100	494	1100 N	300 S	FL GCTL	yes	ASL ⁽⁸⁾
7439-95-4	Magnesium	M	1270		125000		µg/l	G4-GW-67-05	98/98	-	125000	184393	nutrient	Not Avail	FL GCTL	no	NUT, BKG
7439-96-5	Manganese	M	8.1		454		µg/l	G4-GW-67-05	88/98	3.9-37.8	454	141	88 N	50 S	FL GCTL	yes	ASL
7439-97-6	Mercury	M	0.12		1.1		µg/l	G4-GW-15-09	2/96	0.1-0.28	1.1	0.16	1.1 N	2 P	FL GCTL	no	BSL
7439-98-7	Molybdenum	M	3.4		20.7		µg/l	G4-GW-67-05	17/33	0.82-3.9	20.7	NA	18 N	3.5	FL GCTL	yes	ASL
7440-02-0	Nickel	M	0.975		26.3		µg/l	G4-GW-67-05	52/98	0.98-5.65	26.3	NA	73 N	100 P	FL GCTL	no	BSL
7440-09-7	Potassium	M	931		97000		µg/l	G4-GW-67-05	98/98	-	97000	NA	nutrient	Not Avail	FL GCTL	no	NUT
7782-49-2	Selenium	M	3.05		4.3		µg/l	47-GW-DPW17	3/96	2.2-4.9	4.3	NA	18 N	50 P	FL GCTL	no	BSL
7440-23-5	Sodium	M	3320		1140000		µg/l	G4-GW-67-05	98/98	-	1140000	1524588	nutrient	160000 P	FL GCTL	no	NUT, BKG
7440-28-0	Thallium	M	5.725		9.9		µg/l	G4-GW-60-05	7/98	4.8-10.1	9.9	NA	0.24 N	2 P	FL GCTL	yes	ASL
7440-62-2	Vanadium	M	0.79		23.5		µg/l	G4-GW-67-05	15/98	0.76-4.55	23.5	6	26 N	4.9	FL GCTL	yes	ASL
7440-66-6	Zinc	M	14.7		102		µg/l	G4-GW-57-05	10/98	0.84-28.6	102	5.8	1100 N	5000 S	FL GCTL	no	BSL
Misc (µg/l)																	
57-12-5	Cyanide	MIS	5	J	29	J	mg/l	47-GW-DPW16	19/97	3.3-10	29		0.62 N	200 P	FL GCTL	no	BSL

Data from groundwater collected from 6/2000 through 01/2001 except where noted.

(1) Maximum concentration used as screening value

(2) The background screening value is twice the average of detected concentrations for inorganic analytes.

(3) Based on Superfund Preliminary Remediation Goals, USEPA Region IX, Residential land use (Cancer benchmark value = 1E-06, Hazard Quotient = 0.1) (May 2000)

(4) The FL CGTLs were divided either by the number of detected carcinogens or by 10 for noncarcinogens to account for cumulative cancer effects or noncancer effects on the same target organ or system, respectively. GCTLs based on Primary and Secondary Standards were not adjusted.

(5) Rationale Codes

Selection Reason	Above Screening Levels (ASL)
Deletion Reason	Background Levels (BKG)
	No Toxicity Information (NTX)
	Essential Nutrient (NUT)
	Below Screening Level (BSL)

(7) Naphthalene screening values used for 2-methylnaphthlene

(8) The RfD for iron is not a proper RfD. See the uncertainty section.

Definitions:

Not Avail = Not available

NA = Not Applicable

COPC = Chemical of Potential Concern

ARAR/TBC = Applicable or Relevant and Appropriate Requirement/ To Be Considered

N = Noncarcinogen

C = Carcinogenic

FL GCTL from Technical Report: Development of Soil Cleanup Target Levels

for Chapter 62-777, F.A.C. (May 1999)

P = Primary Drinking Water Standard as published by the FDEP

S = Secondary Drinking Water Standard as published by the FDEP

**TABLE 3.1
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
1 OF 1**

Scenario Timeframe: Current/ Future Medium: Surface Soil Exposure Medium: Surface Soil/ Air Exposure Point: Group 4 - Exposed areas
--

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene (equiv)	µg/kg	2.92E+02	--	3.13E+02		mg/kg	3.13E-01	max	[5]
Arsenic	mg/kg	7.36E-01	--	1.30E+00		mg/kg	1.30E+00	max	[5]
Iron	mg/kg	1.43E+03	--	2.95E+03		mg/kg	2.95E+03	max	[5]

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (N); 95% UCL of Log-transformed Data (L);

Potential Rationale

- (1) Shapiro-Wilk W Test indicates data are normally distributed
- (2) Shapiro-Wilk W Test indicates data are log-normally distributed
- (3) Shapiro-Wilk W Test is inconclusive. Therefore, data are assumed to fit a log-normal distribution.
- (4) The appropriate 95% UCL exceeded the maximum; therefore the maximum was used.
- (5) There were less than 10 samples taken. Therefore, maximum detected concentration was used.

TABLE 3.2
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
SUBSURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
1 OF 1

Scenario Timeframe: Current/ Future Medium: Subsurface Soil Exposure Medium: Subsurface Soil Exposure Point: Group 4

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene (equiv)	ug/kg	6.14E+02	7.59E+02	4.62E+03		mg/kg	6.27E-01	L	[3]
Hexachlorobenzene	ug/kg	2.95E+02	3.74E+02	2.20E+03		mg/kg	2.96E-01	L	[3]
Aluminum	mg/kg	1.06E+03	1.39E+03	1.20E+04		mg/kg	1.22E+03	L	[3]
Arsenic	mg/kg	1.04E+00	1.23E+00	6.90E+00		mg/kg	1.18E+00	L	[3]
Chromium	mg/kg	4.32E+00	5.64E+00	5.00E+01		mg/kg	4.49E+00	L	[3]
Copper	mg/kg	4.81E+00	1.00E+01	2.03E+02		mg/kg	2.48E+00	L	[3]
Iron	mg/kg	1.43E+03	1.86E+03	1.67E+04		mg/kg	2.04E+03	L	[3]
Manganese	mg/kg	2.10E+01	2.58E+01	1.80E+02		mg/kg	2.60E+01	L	[3]
Vanadium	mg/kg	3.41E+00	4.15E+00	2.66E+01		mg/kg	3.79E+00	L	[3]

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-L);

- (1) Shapiro-Wilk W Test indicates data are normally distributed
- (2) Shapiro-Wilk W Test indicates data are log-normally distributed
- (3) Shapiro-Wilk W Test is inconclusive. Therefore, data are assumed to fit a log-normal distribution.
- (4) The appropriate 95% UCL exceeded the maximum; therefore the maximum was used.
- (5) There were less than 10 samples taken. Therefore, maximum detected concentration was used.

TABLE 3.3
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
1 OF 1

Scenario Timeframe: Current/ Future
Medium: Surface Water
Exposure Medium: Surface Water/ Air
Exposure Point: Storm Drainage ditches

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
4-Methylphenol	µg/l	1.80E+01	--	1.80E+01		µg/l	1.80E+01	max	[5]
Aniline	µg/l	1.10E+01	--	1.10E+01		µg/l	1.10E+01	max	[5]
Bis(2-ethylhexyl)phthalate	µg/l	1.67E+00	--	2.00E+00	J	µg/l	2.00E+00	max	[5]
Butyl benzyl phthalate	µg/l	4.00E+00	--	4.00E+00	J	µg/l	4.00E+00	max	[5]
Phenol	µg/l	1.20E+01	--	1.20E+01		µg/l	1.20E+01	max	[5]
Aluminum	µg/l	3.12E+03	--	4.33E+03		µg/l	4.33E+03	max	[5]
Barium	µg/l	3.49E+01	--	5.52E+01		µg/l	5.52E+01	max	[5]
Chromium	µg/l	6.50E+00	--	6.50E+00		µg/l	6.50E+00	max	[5]
Iron	µg/l	2.14E+03	--	3.15E+03		µg/l	3.15E+03	max	[5]
Manganese	µg/l	1.97E+02	--	4.50E+02		µg/l	4.50E+02	max	[5]
Molybdenum	µg/l	3.50E+00	--	4.60E+00		µg/l	4.60E+00	max	[5]
Vanadium	µg/l	1.65E+01	--	1.79E+01		µg/l	1.79E+01	max	[5]

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-L);

- (1) Shapiro-Wilk W Test indicates data are normally distributed
- (2) Shapiro-Wilk W Test indicates data are log-normally distributed
- (3) Shapiro-Wilk W Test is inconclusive. Therefore, data are assumed to fit a log-normal distribution.
- (4) The appropriate 95% UCL exceeded the maximum; therefore the maximum was used.
- (5) There were less than 10 samples taken. Therefore, maximum detected concentration was used.

TABLE 3.4
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
SEDIMENT
GROUP IV
NAVAL STATION MAYPORT
1 OF 1

Scenario Timeframe: Current/ Future
Medium: Sediments
Exposure Medium: Sediments
Exposure Point: Storm drainage ditches

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Benzo(a)pyrene (equiv)	ug/kg	1.25E+03	--	2.91E+03	J	mg/kg	2.91E+00	max	[5]
Chlordane	ug/kg	6.20E+03	--	6.20E+03		mg/kg	6.20E+00	max	[5]
Arsenic	mg/kg	3.67E+00	--	6.45E+00		mg/kg	6.45E+00	max	[5]
Barium	mg/kg	3.83E+01	--	2.20E+02		mg/kg	2.20E+02	max	[5]
Chromium	mg/kg	2.85E+01	--	1.71E+02		mg/kg	1.71E+02	max	[5]
Copper	mg/kg	1.02E+02	--	6.40E+02		mg/kg	6.40E+02	max	[5]
Lead	mg/kg	6.51E+01	--	4.40E+02		mg/kg	4.40E+02	max	[5]
Mercury	mg/kg	1.40E+00	--	1.40E+00		mg/kg	1.40E+00	max	[5]
Vanadium	mg/kg	1.02E+01	--	4.04E+01		mg/kg	4.04E+01	max	[5]

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-L);

- (1) Shapiro-Wilk W Test indicates data are log-normally distributed
- (2) Shapiro-Wilk W Test indicates data are normally distributed
- (3) Shapiro-Wilk W Test is inconclusive. Therefore, data are assumed to fit a log-normal distribution.
- (4) The appropriate 95% UCL exceeded the maximum; therefore the maximum was used.
- (5) There were less than 10 samples taken. Therefore, maximum detected concentration was used.

TABLE 3.5
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
1 OF 1

Scenario Timeframe: Future Medium: Groundwater Exposure Medium: Groundwater/Air Exposure Point: Tap Water/ Vapors
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Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
1,1-Dichloroethane	µg/l	7.19E-01	9.85E-01	1.40E+01		µg/l	6.48E-01	L	[3]
1,2-Dichloroethene (total)	µg/l	6.63E-01	8.02E-01	6.70E+00		µg/l	6.85E-01	L	[3]
1,3-Dichlorobenzene	µg/l	5.25E+00	5.57E+00	3.80E+00	J	µg/l	3.80E+00	L	[3]
Acenaphthene	µg/l	5.25E+00	5.59E+00	2.80E+00	J	µg/l	2.80E+00	max	[4]
Aluminum	µg/l	3.29E+01	4.94E+01	8.51E+02		µg/l	2.92E+01	L	[3]
Arsenic	µg/l	4.83E+00	7.56E+00	1.61E+02		µg/l	4.40E+00	L	[3]
Benzene	µg/l	5.40E-01	6.18E-01	1.20E+00		µg/l	5.65E-01	L	[3]
Carbazole	µg/l	5.43E+00	5.85E+00	2.00E+01		µg/l	5.60E+00	L	[3]
Chloromethane	µg/l	5.07E-01	5.94E-01	8.80E-01	J	µg/l	5.26E-01	L	[3]
Iron	µg/l	1.64E+03	1.98E+03	1.31E+04		µg/l	2.98E+03	L	[3]
Manganese	µg/l	1.06E+02	1.22E+02	4.54E+02		µg/l	1.55E+02	L	[3]
Molybdenum	µg/l	5.91E+00	7.67E+00	2.07E+01		µg/l	1.27E+01	L	[1]
Naphthalene	µg/l	5.16E+00	5.45E+00	2.75E+00	J	µg/l	2.75E+00	max	[4]
Phenol	µg/l	5.08E+00	5.43E+00	1.80E+00	J	µg/l	1.80E+00	max	[4]
Pyridine	µg/l	5.23E+00	5.55E+00	2.60E+00	J	µg/l	2.60E+00	L	[3]
Thallium	µg/l	3.61E+00	3.80E+00	9.90E+00		µg/l	3.64E+00	L	[3]
Vanadium	µg/l	1.09E+00	1.52E+00	2.35E+01		µg/l	1.01E+00	L	[3]
Vinyl chloride	µg/l	5.64E-01	6.44E-01	1.50E+00		µg/l	5.84E-01	L	[3]

Statistics: Maximum Detected Value (Max); 95% UCL of Normal Data (95% UCL-N); 95% UCL of Log-transformed Data (95% UCL-L)

- (1) Shapiro-Wilk W Test indicates data are normally distributed
- (2) Shapiro-Wilk W Test indicates data are log-normally distributed
- (3) Shapiro-Wilk W Test is inconclusive. Therefore, data are assumed to fit a log-normal distribution.
- (4) The appropriate 95% UCL exceeded the maximum; therefore the maximum was used.
- (5) There were less than 10 samples taken. Therefore, maximum detected concentration was used.

TABLE 4.1
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
BASE WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Base Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Ingestion CDI}^{(2)} \text{ (mg/kg-day)} = \frac{\text{Csoil} \times \text{IR} \times \text{FI} \times \text{EF} \times \text{ED} \times \text{CF}}{\text{BW} \times \text{AT}}$ USEPA, December 1989
	IR	Ingestion Rate of Soil	mg/day	50	USEPA 1991	
	FI	Fraction ingested from contaminated source	unitless	1.0	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	250	USEPA Region 4 1995	
	ED	Exposure Duration	years	25	USEPA Region 4 1995	
	CF	Conversion Factor	kg/mg	1.0E-06	--	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	9,125	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Dermal CDI}^{(2)} \text{ (mg/kg-day)} = \frac{\text{Csoil} \times \text{CF} \times \text{SA} \times \text{AF} \times \text{ABS} \times \text{EF} \times \text{ED}}{\text{BW} \times \text{AT}}$ USEPA, December 1989
	CF	Conversion Factor	kg/mg	1.0E-06	--	
	SA	Skin Surface Area Available for Contact	cm ² /day	3,300	USEPA 2000	
	AF	Soil to Skin Adherence Factor	mg/cm ²	0.2	USEPA 2000	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	250	USEPA Region 4 1995	
	ED	Exposure Duration	years	25	USEPA Region 4 1995	
	BW	Body Weight	kg	70	USEPA 1989	
AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989		
AT-N	Averaging Time (Non-Cancer)	days	9,125	USEPA 1989		
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Inhalation CDI}^{(2)} \text{ (mg/kg/day)} = \frac{\text{Cair} \times \text{IR} \times \text{EF} \times \text{ED}}{\text{BW} \times \text{AT}}$ $\text{Cair} = \text{Csoil} \times (1/\text{PEF} + 1/\text{VF})$ USEPA, December 1989
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	250	USEPA Region 4 1995	
	ED	Exposure Duration	years	25	USEPA Region 4 1995	
	BW	Body Weight	kg	70	USEPA, March 1991	
	PEF	Particulate Emission Factor	m ³ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatilization Factor	mg ³ /kg	chemical specific		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	9,125	USEPA 1989	

1 Surface is defined as soil collected from depths of 0 to 1 foot bgs.

2 CDI = Chronic Daily Intake

Ingestion RME - Cancer	1.75E-07
Ingestion RME - Noncancer	4.89E-07
Dermal RME - Cancer	2.31E-06
Dermal RME - Noncancer	6.46E-06
Inhalation RME - Cancer	6.99E-02
Inhalation RME - Noncancer	1.96E-01

TABLE 4.2
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
BASE WORKER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Base Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =
	CF	Conversion Factor	mg/ug	1.0E-03	--	$\frac{C_{\text{water}} \times EF \times ET \times CR \times ED}{BW \times AT}$ USEPA 1989
	ET	Exposure Time	hours/event	1	Assumption	
	CR	Contact Rate	l/hr	0.01	USEPA Region 4 1995	
	EF	Exposure Frequency	events/year	50	Assumption	
	ED	Exposure Duration	years	25	USEPA 1989	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	9,125	USEPA 1989		
Dermal	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	DAD ⁽²⁾ (mg/kg-day) =
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	$\frac{DA_{\text{event}} \times EV \times ED \times EF \times A}{BW \times AT}$
	EV	Event Frequency	events/day	1	Assumption	
	ED	Exposure Duration	years	25	USEPA 1989	
	EF	Exposure Frequency	days/year	50	Assumption	
	A	Skin Surface Available for Contact	cm ²	9075	USEPA 2000 ⁽³⁾	
	tevent	Duration of Event	hours/event	1	Assumption	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	t	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	9125	USEPA 1989	

(1) CDI = Chronic Daily Intake

(2) DAD = Dermal Absorbed Dose

(3) USEPA 2000 gives 18,150 cm² mean total surface area for adult; approximately 50% of total surface area assumed exposed by wading

TABLE 4.3
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CONSTRUCTION WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Ingestion CDI ⁽²⁾ (mg/kg-day) = $\frac{C_{soil} \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$ USEPA, December 1989
	IR	Ingestion Rate of Soil	mg/day	480	USEPA 1989	
	FI	Fraction ingested from contaminated source	unitless	1.0	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (3)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	CF	Conversion Factor	kg/mg	1.0E-06	--	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Dermal CDI ⁽²⁾ (mg/kg-day) = $\frac{C_{soil} \times CF \times SA \times AF \times ABS \times EF \times ED}{BW \times AT}$ USEPA, December 1989
	CF	Conversion Factor	kg/mg	1.0E-06	--	
	SA	Skin Surface Area Available for Contact	cm ² /day	3,300	USEPA 2000	
	AF	Soil to Skin Adherence Factor	mg/cm ²	0.7	USEPA 2000	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (3)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	BW	Body Weight	kg	70	USEPA 1989	
AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989		
AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989		
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Inhalation CDI ⁽²⁾ (mg/kg/day) = $\frac{C_{air} \times IR \times EF \times ED}{BW \times AT}$ $C_{air} = C_{soil} \times (1/PEF + 1/VF)$ USEPA, December 1989
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (3)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	BW	Body Weight	kg	70	USEPA 1989	
	PEF	Particulate Emission Factor	m ³ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatilization Factor	mg ³ /kg	chemical specific		
AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989		
AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989		

1 Surface is defined as soil collected from depths of 0 to 1 foot bgs.
 2 CDI = Chronic Daily Intake
 3 Risk Assessment Information System - http://risk.lsd.ornl.gov/homepage/lm/for_exc_so.shtml, 4-3-01

Ingestion RME - Cancer	5.37E-09
Ingestion RME - Noncancer	3.76E-07
Dermal RME - Cancer	2.58E-08
Dermal RME - Noncancer	1.81E-06
Inhalation RME - Cancer	2.24E-04
Inhalation RME - Noncancer	1.57E-02

TABLE 4.4
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CONSTRUCTION WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil/Air
Exposure Point: Excavation Trenches
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Ingestion CDI ⁽²⁾ (mg/kg-day) = Csoil x IR x FI x EF x ED x CF BW x AT USEPA, December 1989
	IR	Ingestion Rate of Soil	mg/day	480	USEPA 1989	
	FI	Fraction ingested from contaminated source	unitless	1.0	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (3)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	CF	Conversion Factor	kg/mg	1.0E-06	--	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Dermal CDI ⁽²⁾ (mg/kg-day) = Csoil x CF x SA x AF x ABS x EF x ED BW x AT USEPA, December 1989
	CF	Conversion Factor	kg/mg	1.0E-06	--	
	SA	Skin Surface Area Available for Contact	cm ² /day	3,300	USEPA 2000	
	AF	Soil to Skin Adherence Factor	mg/cm ²	0.7	USEPA 2000	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (3)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	BW	Body Weight	kg	70	USEPA 1989	
AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989		
AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989		
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Inhalation CDI ⁽²⁾ (mg/kg/day) = Cair x IR x EF x ED BW x AT Cair = Csoil x (1/PEF + 1/VF) USEPA, December 1989
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (3)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	BW	Body Weight	kg	70	USEPA 1989	
	PEF	Particulate Emission Factor	m ³ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatilization Factor	mg ³ /kg	chemical specific		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989	

1 Surface is defined as soil collected from depths of 0 to 1 foot bgs.

2 CDI = Chronic Daily Intake

3 Risk Assessment Information System - http://risk.lsd.ornl.gov/homepage/tm/for_exc_so.shtml, 4-3-01

Ingestion RME - Cancer	5.37E-09
Ingestion RME - Noncancer	3.76E-07
Dermal RME - Cancer	2.58E-08
Dermal RME - Noncancer	1.81E-06
Inhalation RME - Cancer	2.24E-04
Inhalation RME - Noncancer	1.57E-02

TABLE 4.5
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CONSTRUCTION WORKERS TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =
	CF	Conversion Factor	mg/ug	1.0E-03	--	$C_{water} \times EF \times ET \times CR \times ED$
	ET	Exposure Time	hours/event	1	Assumption	
	CR	Contact Rate	l/hr	0.01	USEPA Region 4 1995	
	EF	Exposure Frequency	events/year	20	RAIS ⁽²⁾	
	ED	Exposure Duration	years	25	USEPA 1989	USEPA 1989
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	9,125	USEPA 1989		
Dermal	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	DAD ⁽³⁾ (mg/kg-day) =
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	$DA_{event} \times EV \times ED \times EF \times A$
	EV	Event Frequency	events/day	1	Assumption	
	ED	Exposure Duration	years	25	USEPA 1989	BW x AT
	EF	Exposure Frequency	days/year	20	RAIS ⁽²⁾	
	A	Skin Surface Available for Contact	cm ²	9075	USEPA 2000 ⁽⁴⁾	
	tevent	Duration of Event	hours/event	1	Assumption	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	t	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	9125	USEPA 1989	

(1) CDI = Chronic Daily Intake

(2) Risk Assessment Information System - http://risk.lsd.ornl.gov/homepage/tm/for_exc_so.shtml, 4-3-01

(3) DAD = Dermal Absorbed Dose

(4) USEPA 2000 gives 18,150 cm² mean total surface area for adult;
approximately 50% of total surface area assumed exposed by wading

Ingestion RME - Car 2.80E-09
Ingestion RME - Nonc 7.83E-09

Dermal RME - Can 2.54E+00
Dermal RME - Nonca 7.10E+00

TABLE 4.6
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CONSTRUCTION WORKERS TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Excavation Trench
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Cwater	Chemical Concentration in Groundwater	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) = $\frac{C_{water} \times IR \times EF \times ED \times CF}{BW \times AT}$ USEPA 1989
	CF	Conversion Factor	mg/ug	0.001		
	IR	Ingestion Rate of Groundwater	l/day	0.01	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	20	RAIS (2)	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989	
Dermal	Cwater	Chemical Concentration in Groundwater	ug/l	See Table 3	See Table 3	DAD ⁽³⁾ (mg/kg-day) = $\frac{D_{Aevent} \times EV \times ED \times EF \times A}{BW \times AT}$
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	
	EV	Event Frequency	events/day	1	USEPA 2000	
	ED	Exposure Duration	years	1	OSWER Directive USEPA 1991	
	EF	Exposure Frequency	days/year	20	RAIS (2)	
	A	Skin Surface Available for Contact	cm ²	18,000	USEPA 2000 (4)	
	t _{event}	Duration of Event	hours/event	0.2	USEPA 2000	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	τ	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	365	USEPA 1989	
Inhalation						Inhalation risk assumed to be equal to ingestion risk for VOAs.

(1) CDI = Chronic Daily Intake

(2) Risk Assessment Information System - http://risk.lsd.ornl.gov/homepage/tm/for_exc_so.shtml, 4-3-01

(3) DAD = Dermal Absorbed Dose

(4) USEPA 20000 gives 18,000 cm² mean total surface area for adult.

Ingestion RME - Cancer 1.12E-10
 Ingestion RME - Noncancer 7.83E-09

Dermal RME - Cancer 2.01E-01
 Dermal RME - Noncancer 1.41E+01

TABLE 4.7
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADULT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil ⁽¹⁾
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Trespasser
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Ingestion CDI}^{(2)} \text{ (mg/kg-day)} = \frac{\text{Csoil} \times \text{EF} \times \text{IR} \times \text{CF} \times \text{FI} \times \text{ED}}{\text{BW} \times \text{AT}}$
	IR	Ingestion rate	mg/day	100	Assumption	
	CF	Conversion Factor	kg/mg	1.E-06		
	FI	Fraction Ingested	unitless	1	USEPA Region 4 1995	
	EF	Exposure Frequency	day/year	45	USEPA Region 4 1995	
	ED	Exposure Duration	years	20	Assumption	
	BW	Body Weight	kg	70	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	7,300	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Dermal CDI}^{(2)} \text{ (mg/kg-day)} = \frac{\text{Csoil} \times \text{CF} \times \text{SA} \times \text{AF} \times \text{ABS} \times \text{EF} \times \text{ED}}{\text{BW} \times \text{AT}}$
	CF	Conversion Factor	kg ² /mg ²	1.0E-06	--	
	SA	Skin Surface Area Available for Contact	cm ² /day	5700	USEPA 2000	
	AF	Adherence Factor	mg/cm ²	1.0	USEPA Region 4 1995	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	45	USEPA Region 4 1995	
	ED	Exposure Duration	years	20	Assumption	
	BW	Body Weight	kg	70	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	7,300	USEPA 1989	
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3		$\text{Inhalation CDI}^{(2)} \text{ (mg/kg/day)} = \frac{\text{Cair} \times \text{IR} \times \text{EF} \times \text{ED}}{\text{BW} \times \text{AT}}$ $\text{Cair} = \text{Csoil} \times (1/\text{PEF} + 1/\text{VF})$
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	45	Assumption	
	ED	Exposure Duration	years	20	Assumption	
	BW	Body Weight	kg	70	USEPA Region 4 1995	
	PEF	Particulate Emission Factor	m ³ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatization Factor	mg ² /kg	chemical specific		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	7,300	USEPA 1989	

(1) Surface is defined as soil collected from depths of 0 to 1 foot bgs.

(2) CDI = Chronic Daily Intake

(3) Table C-1 of USEPA 2000

Ingestion RME - Cancer	5.03E-08
Ingestion RME - Noncancer	1.76E-07
Dermal RME - Cancer	2.87E-06
Dermal RME - Noncancer	1.00E-05
Inhalation RME - Cancer	1.01E-02
Inhalation RME - Noncancer	3.52E-02

TABLE 4.8
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADULT TRESPASSER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Trespasser
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =
	CF	Conversion Factor	mg/ug	1.0E-03	--	
	ET	Exposure Time	hours/event	1	Assumption	Cwater x EF x ET x CR x ED
	CR	Contact Rate	l/hr	0.01	USEPA Region 4 1995	BW x AT
	EF	Exposure Frequency	events/year	45	USEPA Region 4 1995	
	ED	Exposure Duration	years	20	Assumption	
	BW	Body Weight	kg	70	USEPA 1989	USEPA 1989
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	7,300	USEPA 1989		
Dermal	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	DAD ⁽²⁾ (mg/kg-day) =
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	
	EV	Event Frequency	events/day	1	Assumption	DAevent X EV X ED x EF X A
	ED	Exposure Duration	years	20	Assumption	BW x AT
	EF	Exposure Frequency	days/year	45	USEPA Region 4 1995	
	A	Skin Surface Available for Contact	cm ²	9075	USEPA 2000 ⁽³⁾	
	tevent	Duration of Event	hours/event	1	Assumption	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	t	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	7300	USEPA 1989	

(1) CDI = Chronic Daily Intake

(2) DAD = Dermally Absorbed Dose

(3) USEPA 2000 gives 18,150 cm² mean total surface area for adult;
approximately 50% of total surface area assumed exposed by wading

TABLE 4.9
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADOLESCENT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil ⁽¹⁾
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Ingestion CDI}^{(2)} \text{ (mg/kg-day)} = \frac{\text{Csoil} \times \text{EF} \times \text{IR} \times \text{CF} \times \text{FI} \times \text{ED}}{\text{BW} \times \text{AT}}$ USEPA 1989
	IR	Ingestion rate	mg/day	100	Assumption	
	CF	Conversion Factor	kg/mg	1.E-06		
	FI	Fraction Ingested	unitless	1	USEPA Region 4 1995	
	EF	Exposure Frequency	day/year	100	Assumption	
	ED	Exposure Duration	years	10	Assumption	
	BW	Body Weight	kg	45	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	3,650	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	$\text{Dermal CDI}^{(2)} \text{ (mg/kg-day)} = \frac{\text{Csoil} \times \text{CF} \times \text{SA} \times \text{AF} \times \text{ABS} \times \text{EF} \times \text{ED}}{\text{BW} \times \text{AT}}$ USEPA, December 1989
	CF	Conversion Factor	kg ² /mg ²	1.0E-06	-	
	SA	Skin Surface Area Available for Contact	cm ² /day	8700 (3)	USEPA 2000	
	AF	Adherence Factor	mg/cm ²	1.0	USEPA Region 4 1995	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	100	Assumption	
	ED	Exposure Duration	years	10	Assumption	
	BW	Body Weight	kg	45	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	3,650	USEPA 1989	
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3		$\text{Inhalation CDI}^{(2)} \text{ (mg/kg/day)} = \frac{\text{Cair} \times \text{IR} \times \text{EF} \times \text{ED}}{\text{BW} \times \text{AT}}$ $\text{Cair} = \text{Csoil} \times (1/\text{PEF} + 1/\text{VF})$ USEPA, December 1989
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	100	Assumption	
	ED	Exposure Duration	years	10	Assumption	
	BW	Body Weight	kg	45	USEPA Region 4 1995	
	PEF	Particulate Emission Factor	m ⁷ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatilization Factor	mg ² /kg	chemical specific		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	3,650	USEPA 1989	

(1) Surface is defined as soil collected from depths of 0 to 1 foot bgs.

(2) CDI = Chronic Daily Intake

(3) Table C-1 of USEPA 2000; sum of head, arms, hands, legs, and feet for 7-18 yr old child.

Ingestion RME - Cancer	8.70E-08
Ingestion RME - Noncancer	6.09E-07
Dermal RME - Cancer	7.57E-06
Dermal RME - Noncancer	5.30E-05
Inhalation RME - Cancer	1.74E-02
Inhalation RME - Noncancer	1.22E-01

TABLE 4.10
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADOLESCENT TRESPASSER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =
	CF	Conversion Factor	mg/ug	1.0E-03	--	$\frac{C_{water} \times EF \times ET \times CR \times ED}{BW \times AT}$ USEPA 1989
	ET	Exposure Time	hours/event	1	Assumption	
	CR	Contact Rate	l/hr	0.01	USEPA Region 4 1995	
	EF	Exposure Frequency	events/year	100	Assumption	
	ED	Exposure Duration	years	10	Assumption	
	BW	Body Weight	kg	45	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	3,650	USEPA 1989		
Dermal	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	DAD ⁽²⁾ (mg/kg-day) =
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	$\frac{DA_{event} \times EV \times ED \times EF \times A}{BW \times AT}$
	EV	Event Frequency	events/day	1	Assumption	
	ED	Exposure Duration	years	10	Assumption	
	EF	Exposure Frequency	days/year	100	Assumption	
	A	Skin Surface Available for Contact	cm ²	6560	USEPA 2000 ⁽³⁾	
	tevent	Duration of Event	hours/event	1	Assumption	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	t	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	45	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	3650	USEPA 1989	

- (1) CDI = Chronic Daily Intake
 (2) DAD = Dermally Absorbed Dose
 (3) USEPA 2000 gives 13,120 cm² mean total surface area for adolescent (age <7 to <18 yrs);
 approximately 50% of total surface area assumed exposed by wading

TABLE 4.11
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADULT RESIDENT TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Soil ⁽¹⁾
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Ingestion CDI ⁽²⁾ (mg/kg-day) = $C_{soil} \times EF \times IR \times CF \times FI \times ED$ BW x AT USEPA 1989
	IR	Ingestion rate	mg/day	100	USEPA Region 4 1995	
	CF	Conversion Factor	kg/mg	1.E-06		
	FI	Fraction Ingested	unitless	1	USEPA Region 4 1995	
	EF	Exposure Frequency	day/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	24	USEPA Region 4 1995	
	BW	Body Weight	kg	70	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	8,760	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Dermal CDI ⁽²⁾ (mg/kg-day) = $C_{soil} \times CF \times SA \times AF \times ABS \times EF \times ED$ BW x AT USEPA, December 1989
	CF	Conversion Factor	kg ² /mg ²	1.0E-06	--	
	SA	Skin Surface Area Available for Contact	cm ² /day	5700	USEPA 2000	
	AF	Adherence Factor	mg/cm ²	1.0	USEPA Region 4 1995	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	24	USEPA Region 4 1995	
	BW	Body Weight	kg	70	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	USEPA 1989	
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3		Inhalation CDI ⁽²⁾ (mg/kg/day) = $C_{air} \times IR \times EF \times ED$ BW x AT $C_{air} = C_{soil} \times (1/PEF + 1/VF)$ USEPA, December 1989
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	24	USEPA Region 4 1995	
	BW	Body Weight	kg	70	USEPA Region 4 1995	
	PEF	Particulate Emission Factor	m ³ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatilization Factor	mg ² /kg	chemical specific		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	USEPA 1989	

(1) Surface is defined as soil collected from depths of 0 to 1 foot bgs.

(2) CDI = Chronic Daily Intake

Ingestion RME - Cancer	4.70E-07
Ingestion RME - Noncancer	1.37E-06
Dermal RME - Cancer	2.68E-05
Dermal RME - Noncancer	7.81E-05
Inhalation RME - Cancer	9.39E-02
Inhalation RME - Noncancer	2.74E-01

TABLE 4.12
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADULT RESIDENT TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =
	CF	Conversion Factor	mg/ug	1.0E-03	--	$C_{water} \times EF \times ET \times CR \times ED$ BW x AT
	ET	Exposure Time	hours/event	2.6	USEPA 1989	
	CR	Contact Rate	l/hr	0.01	USEPA Region 4 1995	
	EF	Exposure Frequency	events/year	45	USEPA Region 4 1995	
	ED	Exposure Duration	years	24	USEPA 1989	USEPA 1989
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	8,760	USEPA 1989		
Dermal	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	DAD ⁽²⁾ (mg/kg-day) =
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	$DA_{event} \times EV \times ED \times EF \times A$ BW x AT
	EV	Event Frequency	events/day	1	Assumption	
	ED	Exposure Duration	years	24	USEPA 1989	
	EF	Exposure Frequency	days/year	45	USEPA Region 4 1995	USEPA 2000 ⁽³⁾
	A	Skin Surface Available for Contact	cm ²	9075		
	tevent	Duration of Event	hours/event	2.6	USEPA 1989	USEPA 2000
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific		
	t	Lag Time	hours	chemical-specific	USEPA 2000	USEPA 2000
	t*	Time to Reach Steady State	hours	chemical-specific		
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	USEPA 1989
	BW	Body Weight	kg	70		
	AT-C	Averaging Time (Cancer)	days	25550		
	AT-N	Averaging Time (Non-Cancer)	days	8760		

(1) CDI = Chronic Daily Intake
(2) DAD = Dermal Absorbed Dose
(3) USEPA 2000 gives 18,150 cm² mean total surface area for adult;
approximately 50% of total surface area assumed exposed by wading

TABLE 4.13
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
ADULT RESIDENT TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Tap Water/Vapor
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Cwater	Chemical Concentration in Groundwater	ug/l	See Table 3	See Table 3	$\text{Ingestion CDI}^{(1)} \text{ (mg/kg-day) =}$ $\frac{\text{Cwater} \times \text{IR} \times \text{EF} \times \text{ED} \times \text{CF}}{\text{BW} \times \text{AT}}$ USEPA 1989
	CF	Conversion Factor	mg/ug	0.001		
	IR	Ingestion Rate of Groundwater	l/day	2	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	24	USEPA Region 4 1995	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	USEPA 1989	
Dermal	Cwater	Chemical Concentration in Groundwater	ug/l	See Table 3	See Table 3	$\text{DAD}^{(2)} \text{ (mg/kg-day) =}$ $\frac{\text{DAevent} \times \text{EV} \times \text{ED} \times \text{EF} \times \text{A}}{\text{BW} \times \text{AT}}$
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	
	EV	Event Frequency	events/day	1	USEPA 2000	
	ED	Exposure Duration	years	24	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	
	A	Skin Surface Available for Contact	cm ²	18,000	USEPA 2000 (3)	
	t _{event}	Duration of Event	hours/event	0.2	USEPA 2000	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	τ	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	70	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	8,760	USEPA 1989	
	Inhalation					

(1) CDI = Chronic Daily Intake

(2) DAD = Dermal Absorbed Dose

(3) USEPA 20000 gives 18,000 cm² mean total surface area for adult.

Ingestion RME - Cancer 9.39E-06
 Ingestion RME - Noncancer 2.74E-05

Dermal RME - Cancer 8.45E+01
 Dermal RME - Noncancer 2.47E+02

**TABLE 4.14
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CHILD RESIDENT TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1**

Scenario Timeframe: Future
Medium: Surface Soil ⁽¹⁾
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Ingestion CDI ⁽²⁾ (mg/kg-day) = Csoil x EF x IR x CF x FI x ED BW x AT USEPA 1989
	IR	Ingestion rate	mg/day	200	USEPA Region 4 1995	
	CF	Conversion Factor	kg/mg	1.E-06		
	FI	Fraction Ingested	unitless	1	USEPA Region 4 1995	
	EF	Exposure Frequency	day/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	6	USEPA Region 4 1995	
	BW	Body Weight	kg	15	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989		
Dermal	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3	See Table 3	Dermal CDI ⁽²⁾ (mg/kg-day) = Csoil x CF x SA x AF x ABS x EF x ED BW x AT USEPA, December 1989
	CF	Conversion Factor	kg/mg ²	1.0E-06	--	
	SA	Skin Surface Area Available for Contact	cm ² /day	2800	USEPA 2000	
	AF	Adherence Factor	mg/cm ²	1.0	USEPA Region 4 1995	
	ABS	Absorption Factor	unitless	1% (organics) 0.1% (inorganics)	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	6	USEPA Region 4 1995	
	BW	Body Weight	kg	15	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989		
Inhalation	Csoil	Chemical Concentration in Soil	mg/kg	See Table 3		Inhalation CDI ⁽²⁾ (mg/kg/day) = Cair x IR x EF x ED BW x AT Cair = Csoil x (1/PEF + 1/VF) USEPA, December 1989
	Cair	Chemical Concentration in Air	mg/m ³	calculated		
	IR	Inhalation Rate of Air	m ³ /day	20	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	
	ED	Exposure Duration	years	6	USEPA Region 4 1995	
	BW	Body Weight	kg	15	USEPA Region 4 1995	
	PEF	Particulate Emission Factor	m ³ /kg	1.24E+09	USEPA 1996 - SSG	
	VF	Volatization Factor	mg ³ /kg	chemical specific		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989	

(1) Surface is defined as soil collected from depths of 0 to 1 foot bgs.

(2) CDI = Chronic Daily Intake

Ingestion RME - Cancer	1.10E-06
Ingestion RME - Noncancer	1.28E-05
Dermal RME - Cancer	1.53E-05
Dermal RME - Noncancer	1.79E-04
Inhalation RME - Cancer	1.10E-01
Inhalation RME - Noncancer	1.28E+00

TABLE 4.15
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CHILD RESIDENT TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water/Air
Exposure Point: Storm Drainage Ditches
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/Reference	Intake Equation/Model Name
Ingestion	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =
	CF	Conversion Factor	mg/ug	1.0E-03	--	$C_{water} \times EF \times ET \times CR \times ED$ BW x AT
	ET	Exposure Time	hours/event	2.6	USEPA 1989	
	CR	Contact Rate	l/hr	0.05	USEPA Region 4 1995	
	EF	Exposure Frequency	events/year	100	Assumption	
	ED	Exposure Duration	years	6	USEPA Region 4 1995	
	BW	Body Weight	kg	15	USEPA Region 4 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989	
Dermal	Cwater	Chemical Concentration in Surface Water	ug/l	See Table 3	See Table 3		DAD^{(2)} (mg/kg-day) =
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	$DA_{event} \times EV \times ED \times EF \times A$ BW x AT
	EV	Event Frequency	events/day	1	Assumption	
	ED	Exposure Duration	years	6	USEPA Region 4 1995	
	EF	Exposure Frequency	days/year	100	Assumption	DAevent as defined in USEPA 2000
	A	Skin Surface Available for Contact	cm ²	3,965	USEPA 2000	
	tevent	Duration of Event	hours/event	2.6	USEPA 1989	
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000	
	τ	Lag Time	hours	chemical-specific	USEPA 2000	
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000	
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000	
	BW	Body Weight	kg	15	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989	
	AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989	

- (1) CDI = Chronic Daily Intake
(2) DAD = Dermal Absorbed Dose
(3) USEPA 2000 gives 7,930 cm² total surface area for 5-6 yr old boys;
approximately 50% of total surface area assumed exposed by wading

Ingestion RME - Cancer	2.04E-07
Ingestion RME - Noncancer	2.37E-06
Dermal RME - Cancer	6.21E+00
Dermal RME - Noncancer	7.24E+01

TABLE 4.16
VALUES OF DAILY INTAKE CALCULATIONS FOR EXPOSURE OF
CHILD RESIDENT TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Tap Water/Vapor
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	Intake Equation/ Model Name	
Ingestion	Cwater	Chemical Concentration in Groundwater	ug/l	See Table 3	See Table 3	Ingestion CDI ⁽¹⁾ (mg/kg-day) =	
	CF	Conversion Factor	mg/ug	0.001		$C_{water} \times IR \times EF \times ED \times CF$	
	IR	Ingestion Rate of Groundwater	l/day	1	USEPA Region 4 1995		
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995	BW x AT	
	ED	Exposure Duration	years	6	USEPA Region 4 1995		
	BW	Body Weight	kg	15	USEPA 1989	USEPA 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989		
	AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989		
Dermal	Cwater	Chemical Concentration in Groundwater	ug/l	See Table 3	See Table 3	DAD ⁽²⁾ (mg/kg-day) =	
	DAevent	Absorbed Dose per Event	mg/cm ² -event	chemical-specific	USEPA 2000	$DA_{event} \times EV \times ED \times EF \times A$ BW x AT	
	EV	Event Frequency	events/day	1	USEPA 2000		
	ED	Exposure Duration	years	6	USEPA Region 4 1995		
	EF	Exposure Frequency	days/year	350	USEPA Region 4 1995		
	A	Skin Surface Available for Contact	cm ²	6,600	USEPA 2000		
	t _{event}	Duration of Event	hours/event	0.2	USEPA 2000		
	Kp	Permeability Coefficient from Water	cm/hour	chemical-specific	USEPA 2000		
	τ	Lag Time	hours	chemical-specific	USEPA 2000		
	t*	Time to Reach Steady State	hours	chemical-specific	USEPA 2000		
	B	Bunge Model Constant	dimensionless	chemical-specific	USEPA 2000		
	BW	Body Weight	kg	15	USEPA 1989		
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA 1989		
	AT-N	Averaging Time (Non-Cancer)	days	2,190	USEPA 1989		
	Inhalation						

(1) CDI = Chronic Daily Intake

(2) DAD = Dermally Absorbed Dose

(3) USEPA 20000 gives 6,600 cm² mean total surface area for child.

Ingestion RME - Cancer 5.48E-06
Ingestion RME - Noncancer 6.39E-05

Dermal RME - Cancer 3.62E+01
Dermal RME - Noncancer 4.22E+02

TABLE 5.1
NON-CANCER TOXICITY DATA - ORAL/DERMAL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD	Oral RfD Units	Oral to Dermal Adjustment Factor ⁽¹⁾	Adjusted Dermal RfD ⁽¹⁾	Dermal RfD Units	Primary Target Organ	Comment
1,1-Dichloroethane	Chronic	1.000E-01	mg/kg-day	1.00	1.000E-01	mg/kg-day	Kidney	
1,2-Dichloroethene (total)	Chronic	9.0E-03	mg/kg-day	0.80	7.200E-03	mg/kg-day	Blood, Liver	
1,3-Dichlorobenzene	Chronic	3.0E-02	mg/kg-day	0.80	2.400E-02	mg/kg-day	None Specified	
4-Methylphenol	Chronic	5.0E-03	mg/kg-day	0.75	3.725E-03	mg/kg-day	Body Weight, Neurological	
Acenaphthene	Chronic	6.0E-02	mg/kg-day	0.50	3.000E-02	mg/kg-day	Liver	
Aluminum	Chronic	1.0E+00	mg/kg-day	0.04	4.000E-02	mg/kg-day	Body weight	
Aniline	Chronic	5.714E-04	mg/kg-day	0.50	2.857E-04	mg/kg-day	Blood, Carcinogen	
Antimony	Chronic	4.0E-04	mg/kg-day	0.01	4.000E-06	mg/kg-day	Blood - Mortality	
Aroclor-1260	Chronic	2.0E-05	mg/kg-day	0.85	1.700E-05	mg/kg-day	Immunological	(2)
Arsenic	Chronic	3.0E-04	mg/kg-day	0.95	2.850E-04	mg/kg-day	Skin - Cardiovascular	(3)
Barium	Subchronic	7.0E-02	mg/kg-day	0.05	3.500E-03	mg/kg-day	Cardiovascular	
Benzene	Chronic	NA	mg/kg-day	0.90	NA	mg/kg-day	Carcinogen	
Benzo(a)pyrene (equiv)	Chronic	NA	mg/kg-day	0.90	NA	mg/kg-day	Carcinogen	
Bis(2-ethylhexyl)phthalate	Chronic	2.0E-02	mg/kg-day	0.50	1.000E-02	mg/kg-day	Carcinogen, Liver	
Butyl benzyl phthalate	Chronic	2.0E-01	mg/kg-day	1.00	2.000E-01	mg/kg-day	Liver	
Carbazole	Chronic	NA	mg/kg-day	0.80	NA	mg/kg-day	Carcinogen	
Chlordane	Chronic	5.0E-04	mg/kg-day	0.80	4.000E-04	mg/kg-day	Carcinogen, Liver	
Chloromethane	Chronic	NA	mg/kg-day	0.80	NA	mg/kg-day		
Chromium	Chronic	3.0E-03	mg/kg-day	0.01	3.900E-05	mg/kg-day	Carcinogen, Respiratory	
Copper	Subchronic	3.714E-02	mg/kg-day	0.56	NA	mg/kg-day	Gastrointestinal	
Hexachlorobenzene	Chronic	8.0E-04	mg/kg-day	0.80	6.400E-04	mg/kg-day	Carcinogen, Liver	
Iron	Chronic	3.0E-01	mg/kg-day	0.09	2.550E-02	mg/kg-day	Blood - Gastrointestinal	
Lead	Chronic	NA	mg/kg-day		NA	mg/kg-day		(4)
Manganese	Chronic	2.3E-02	mg/kg-day	0.04	9.200E-04	mg/kg-day	Neurological	(5)
Mercury	Chronic	3.0E-04	mg/kg-day	0.1000	3.000E-05	mg/kg-day	Neurological	
Molybdenum	Chronic	5.0E-03	mg/kg-day	0.4500	2.250E-03	mg/kg-day	Gout	
Naphthalene	Chronic	2.0E-02	mg/kg-day	1.00	2.000E-02	mg/kg-day	Body Weight - Nasal	
Phenol	Subchronic	6.0E-01	mg/kg-day	1.00	6.000E-01	mg/kg-day	Developmental	
Pyridine	Chronic	1.0E-03	mg/kg-day	0.67	6.700E-04	mg/kg-day	Liver	
Thallium	Chronic	9.00E-04	mg/kg-day	0.15	1.350E-04	mg/kg-day	None Specified	(5)
Vanadium	Subchronic	7.0E-03	mg/kg-day	0.03	1.820E-04	mg/kg-day	None Specified	
Vinyl chloride	Chronic	3.0E-03	mg/kg-day	1.00	3.000E-03	mg/kg-day	Carcinogen	

Source: FDEP 1999

⁽¹⁾ RfD dermal = RfDoral x (Oral to Dermal Adjustment Factor)

⁽²⁾ Values given for PCBs (aroclor mixture)

⁽³⁾ GI Adsorption for arsenic is given as 0.95 in Saranko, Christopher J., Roberts, Stephen M. (University of Florida). 1998. Letter to Florida Department of Environmental Protection, August 19, 1998. Gainesville, FL.

⁽⁴⁾ Evaluated using the methods of the Technical Review Workgroup for Lead.

⁽⁵⁾ Integrated Risk Information System Oral RfD

RfD = Reference dose

NA = Not applicable since an oral RfD is not available for this compound

CNS = Central Nervous System

GI = Gastrointestinal

NOAEL = No Observed Adverse Effect Level

TABLE 5.2
NON-CANCER TOXICITY DATA - INHALATION
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC	Inhalation RfC Units	Adjusted Inhalation RfD ⁽¹⁾	Adjusted Inhalation RfD Units	Primary Target Organ	Comment
1,1-Dichloroethane	Chronic	5.00E-01	mg/m ³	1.43E-01	mg/kg-day	Kidney	
1,2-Dichloroethene (total)	Chronic	NA	mg/m ³	NA	mg/kg-day	Blood, Liver	
1,3-Dichlorobenzene	Chronic	7.00E-03	mg/m ³	2.00E-03	mg/kg-day	None Specified	
4-Methylphenol	Chronic	1.30E-02	mg/m ³	3.73E-03	mg/kg-day	Body Weight, Neurological	
Acenaphthene	Chronic	1.05E-01	mg/m ³	3.00E-02	mg/kg-day	Liver	
Aluminum	Chronic	3.50E-03	mg/m ³	1.00E-03	mg/kg-day	Body weight	
Aniline	Chronic	1.00E-03	mg/m ³	2.86E-04	mg/kg-day	Blood, Carcinogen	
Antimony	Chronic	4.00E-04	mg/m ³	1.14E-04	mg/kg-day	Blood - Mortality	(2)
Aroclor-1260	Chronic	5.95E-05	mg/m ³	1.70E-05	mg/kg-day	Immunological	(3)
Arsenic	Chronic	1.00E-03	mg/m ³	2.86E-04	mg/kg-day	Skin - Cardiovascular	
Barium	Subchronic	5.00E-04	mg/m ³	1.43E-04	mg/kg-day	Cardiovascular	
Benzene	Chronic	NA	mg/m ³	NA	mg/kg-day	Carcinogen	
Benzo(a)pyrene (equiv)	Chronic	NA	mg/m ³	NA	mg/kg-day	Carcinogen	
Bis(2-ethylhexyl)phthalate	Chronic	3.50E-02	mg/m ³	1.00E-02	mg/kg-day	Carcinogen, Liver	
Butyl benzyl phthalate	Chronic	7.00E-01	mg/m ³	2.00E-01	mg/kg-day	Liver	
Carbazole	Chronic	NA	mg/m ³	NA	mg/kg-day	Carcinogen	
Chlordane	Chronic	7.00E-04	mg/m ³	2.00E-04	mg/kg-day	Carcinogen, Liver	
Chloromethane	Chronic	NA	mg/m ³	NA	mg/kg-day		
Chromium	Chronic	1.00E-04	mg/m ³	2.857E-05	mg/kg-day	Carcinogen, Respiratory	
Copper	Subchronic	NA	mg/m ³	NA	mg/kg-day	Gastrointestinal	
Hexachlorobenzene	Chronic	2.24E-03	mg/m ³	6.400E-04	mg/kg-day	Carcinogen, Liver	
Iron	Chronic	8.92E-02	mg/m ³	2.550E-02	mg/kg-day	Blood - Gastrointestinal	
Lead	Chronic	NA	mg/m ³	NA	mg/kg-day		(4)
Manganese	Chronic	5.00E-05	mg/m ³	1.429E-05	mg/kg-day	Neurological	
Mercury	Chronic	3.00E-04	mg/m ³	8.571E-05	mg/kg-day	Neurological	
Molybdenum	Chronic	7.87E-03	mg/m ³	2.250E-03	mg/kg-day	Gout	
Naphthalene	Chronic	3.00E-03	mg/m ³	8.571E-04	mg/kg-day	Body Weight - Nasal	
Phenol	Subchronic	2.10E+00	mg/m ³	6.000E-01	mg/kg-day	Developmental	
Pyridine	Chronic	2.35E-03	mg/m ³	6.700E-04	mg/kg-day	Liver	
Thallium	Chronic	NA	mg/m ³	NA	mg/kg-day	None Specified	
Vanadium	Subchronic	6.37E-04	mg/m ³	1.820E-04	mg/kg-day	None Specified	
Vinyl chloride	Chronic	1.00E-01	mg/m ³	2.857E-02	mg/kg-day	Carcinogen	(2)

Source: IRIS, HEAST

⁽¹⁾ Adjusted Inhalation RfD = Inhalation RfC * [20 m³/(day-70 kg)]

⁽²⁾ From Risk Assessment Information System <http://risk.lsd.ornl.gov>, 4-3-01

⁽³⁾ Values given for PCBs (aroclor mixture)

⁽⁴⁾ Evaluated using the methods of the Technical Review Workgroup for Lead.

Notes: RfC = Reference concentration

RfD = Reference dose

NA = Not applicable since an inhalation RfC is not available for this compound

TABLE 6.1
 CANCER TOXICITY DATA - ORAL/DERMAL
 GROUP IV
 NAVAL STATION MAYPORT
 PAGE 1 OF 1

Chemical of Potential Concern	Oral CSF	Oral to Dermal Adjustment Factor ⁽¹⁾	Adjusted Dermal Cancer Slope Factor ⁽¹⁾	Units	Weight of Evidence/ Cancer Guideline Description	Comments
1,1-Dichloroethane	NA	0.80	NA	(mg/kg-day) ⁻¹		
1,2-Dichloroethene (total)	NA	0.80	NA	(mg/kg-day) ⁻¹		(2)
1,3-Dichlorobenzene	NA	0.80	NA	(mg/kg-day) ⁻¹		
4-Methylphenol	NA	0.75	NA	(mg/kg-day) ⁻¹		
Acenaphthene	NA	0.50	NA	(mg/kg-day) ⁻¹		
Aluminum	NA	0.04	N/A	(mg/kg-day) ⁻¹		
Aniline	5.7E-03	0.50	1.14E-02	(mg/kg-day) ⁻¹	B2	
Antimony	NA	0.01	NA	(mg/kg-day) ⁻¹		
Aroclor-1260	2.0E+00	0.85	2.35E+00	(mg/kg-day) ⁻¹	B2	(3)
Arsenic	1.5E+00	0.95	1.58E+00	(mg/kg-day) ⁻¹	A	(4)
Barium	NA	0.05	NA	(mg/kg-day) ⁻¹		
Benzene	2.9E-02	0.90	3.22E-02	(mg/kg-day) ⁻¹	A	
Benzo(a)pyrene (equiv)	7.3E+00	0.90	8.11E+00	(mg/kg-day) ⁻¹	B2	
Bis(2-ethylhexyl)phthalate	1.4E-02	0.50	2.80E-02	(mg/kg-day) ⁻¹	B2	
Butyl benzyl phthalate	NA	1.00	NA	(mg/kg-day) ⁻¹		
Carbazole	2.0E-02	0.80	2.50E-02	(mg/kg-day) ⁻¹	B2	
Chlordane	3.5E-01	0.80	4.38E-01	(mg/kg-day) ⁻¹	B2	
Chloromethane	1.3E-02	0.80	1.63E-02	(mg/kg-day) ⁻¹	C	
Chromium	0.0E+00	0.01	0.00E+00	(mg/kg-day) ⁻¹	A	
Copper	NA	0.56	NA	(mg/kg-day) ⁻¹		
Hexachlorobenzene	1.6E+00	0.80	2.00E+00	(mg/kg-day) ⁻¹	B2	
Iron	NA	0.09	N/A	(mg/kg-day) ⁻¹		
Lead	NA		NA	(mg/kg-day) ⁻¹		(5)
Manganese	NA	0.04	N/A	(mg/kg-day) ⁻¹	D	
Mercury	NA	0.1000	N/A	(mg/kg-day) ⁻¹	D	
Molybdenum	NA	0.4500	NA	(mg/kg-day) ⁻¹		
Naphthalene	NA	1.00	NA	(mg/kg-day) ⁻¹		
Phenol	NA	1.00	NA	(mg/kg-day) ⁻¹		
Pyridine	NA	0.67	NA	(mg/kg-day) ⁻¹		
Thallium	NA	0.15	NA	(mg/kg-day) ⁻¹		(2)
Vanadium	NA	0.03	NA	(mg/kg-day) ⁻¹		
Vinyl chloride	1.4E+00	1.00	1.40E+00	(mg/kg-day) ⁻¹	A	(6)

Source: FDEP 1999

⁽¹⁾ CSF_{dermal} = CSF_{oral}/(Oral to Dermal Adjustment Factor)

⁽²⁾ From Risk Assessment Information System <http://risk.lsd.ornl.gov>, 4-3-01

⁽³⁾ Values given for PCBs (aroclor mixture)

⁽⁴⁾ GI Adsorption for arsenic is given as 0.95 in Saranko, Christopher J., Roberts, Stephen M. (University of Florida). 1998. Letter to Florida Department of Environmental Protection, August 19, 1998. Gainesville, FL.

⁽⁵⁾ Evaluated using the methods of the Technical Review Workgroup for Lead

⁽⁶⁾ Updated value from IRIS

Notes:

CSF = Cancer Slope Factor

N/A = Not Applicable since an oral CSF is not available for this compound

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

NA - Not available

**TABLE 6-1
SUMMARY OF CHEMICALS OF POTENTIAL CONCERN
GROUP IV
NAVAL STATION MAYPORT**

COPC	Surface Soil	Subsurface Soil	Sediments	Surface Water	Groundwater
1,1-Dichloroethane	no	no	no	no	yes
1,1-Dichloroethene	no	no	no	no	no
1,2-Dichloroethane	no	no	no	no	no
1,2-Dichloroethene (total)	no	no	no	no	yes
1,3-Dichlorobenzene	no	no	no	no	yes
1,4-Dioxane	no	no	no	no	no
2-Methylnaphthalene	no	no	no	no	no
4,4-DDT	no	no	no	no	no
4-Methylphenol	no	no	no	yes	no
Acenaphthene	no	no	no	no	yes
Aldrin	no	no	no	no	no
Aluminum	no	yes	no	yes	yes
Aniline	no	no	no	yes	no
Antimony	yes	no	no	no	no
Aroclor-1260	yes	no	no	no	no
Arsenic	yes	yes	yes	no	yes
Barium	no	no	yes	yes	no
Benzene	no	no	no	no	yes
Benzo(a)pyrene (equiv)	yes	yes	yes	no	no
beta-BHC	no	no	no	no	no
Bis(2-ethylhexyl)phthalate	no	no	no	yes	no
Bromodichloromethane	no	no	no	no	no
Butyl benzyl phthalate	no	no	no	yes	no
Cadmium	no	no	no	no	no
Carbazole	no	no	no	no	yes
Chlordane	no	no	yes	no	no
Chlorodibromomethane	no	no	no	no	no
Chloroethane	no	no	no	no	yes
Chloroform	no	no	no	no	no
Chloromethane	no	no	no	no	yes
Chromium	no	no	yes	yes	no
Cis-1,2-dichloroethene	no	no	no	no	no
Copper	no	yes	yes	no	no
Cyanide	no	no	no	no	no
Dibenzofuran	no	no	no	no	no
Fluoranthene	no	no	no	no	no
Fluorene	no	no	no	no	no
gamma-BHC	no	no	no	no	no
Hexachlorobenzene	no	yes	no	no	no
Iron	yes	yes	no	yes	yes
Lead	no	no	yes	no	no
Magnesium	no	no	no	no	no
Manganese	no	yes	no	yes	yes
Mercury	no	no	yes	no	no
Molybdenum	no	no	no	yes	yes
Naphthalene	no	no	no	no	yes
Nickel	no	no	no	no	no
Phenanthrene	no	no	no	no	no
Phenol	no	no	no	yes	yes
Pyrene	no	no	no	no	no

TABLE 6.2
CANCER TOXICITY DATA - INHALATION
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Chemical of Potential Concern	Inhalation Unit Risk	Units for Inhalation Unit Risk	Adjustment Factor(1)	Inhalation CSF	Units for Inhalation CSF	Weight of Evidence/ Cancer Guideline Description	Comments
1,1-Dichloroethane	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
1,2-Dichloroethene (total)	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
1,3-Dichlorobenzene	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
4-Methylphenol	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Acenaphthene	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Aluminum	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Aniline	3.26E-03	(mg/m ³) ⁻¹	3.50E+00	1.14E-02	(mg/kg-day) ⁻¹	B2	
Antimony	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Aroclor-1260	5.70E-01	(mg/m ³) ⁻¹	3.50E+00	2.00E+00	(mg/kg-day) ⁻¹	B2	(2)
Arsenic	4.30E+00	(mg/m ³) ⁻¹	3.50E+00	1.51E+01	(mg/kg-day) ⁻¹	A	
Barium	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Benzene	7.80E-03	(mg/m ³) ⁻¹	3.50E+00	2.73E-02	(mg/kg-day) ⁻¹	A	
Benzo(a)pyrene (equiv)	8.80E-01	(mg/m ³) ⁻¹	3.50E+00	3.08E+00	(mg/kg-day) ⁻¹	B2	
Bis(2-ethylhexyl)phthalate	8.00E-03	(mg/m ³) ⁻¹	3.50E+00	2.80E-02	(mg/kg-day) ⁻¹	B2	
Butyl benzyl phthalate	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Carbazole	7.14E-03	(mg/m ³) ⁻¹	3.50E+00	2.50E-02	(mg/kg-day) ⁻¹	B2	
Chlordane	1.00E-01	(mg/m ³) ⁻¹	3.50E+00	3.50E-01	(mg/kg-day) ⁻¹	B2	
Chloromethane	1.80E-03	(mg/m ³) ⁻¹	3.50E+00	6.30E-03	(mg/kg-day) ⁻¹	C	
Chromium	1.20E+01	(mg/m ³) ⁻¹	3.50E+00	4.20E+01	(mg/kg-day) ⁻¹	A	
Copper	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Hexachlorobenzene	4.60E-01	(mg/m ³) ⁻¹	3.50E+00	1.61E+00	(mg/kg-day) ⁻¹	B2	
Iron	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Lead	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Manganese	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹	D	
Mercury	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹	D	
Molybdenum	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Naphthalene	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Phenol	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Pyridine	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Thallium	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Vanadium	NA	(mg/m ³) ⁻¹	NA	NA	(mg/kg-day) ⁻¹		
Vinyl chloride	8.80E-03	(mg/m ³) ⁻¹	3.50E+00	3.08E-02	(mg/kg-day) ⁻¹	A	(3)

Source: IRIS, HEAST

- (1) Adjustment factor used to convert unit risk to CSF.
- (2) From Risk Assessment Information System <http://risk.lsd.ornl.gov>, 4-3-01
- (3) Update from IRIS

Notes:

CSF = Cancer Slope Factor
 IRIS = Integrated Risk Information System, on-line database search (USEPA, 4-3-01)

EPA Group:

- A - Human carcinogen
- B1 - Probable human carcinogen - indicates that limited human data are available
- B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans
- C - Possible human carcinogen
- D - Not classifiable as a human carcinogen
- E - Evidence of noncarcinogenicity
- NA - Not available

TABLE 6-3
SUMMARY OF CANCER RISKS AND HAZARD INDICES
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 2

Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks >10 ⁻⁴	Chemicals with Cancer Risks >10 ⁻⁵	Chemicals with Cancer Risks >10 ⁻⁶	Hazard Index (RME)	Chemicals with HI > 1
Base Worker	Surface Soil	Ingestion	7.4E-07	--	--	--	6.9E-03	--
		Inhalation	1.6E-10	--	--	--	1.9E-05	--
		Dermal Contact	6.3E-08	--	--	--	7.8E-04	--
		Total	8.0E-07	--	--	--	7.7E-03	--
Base Worker	Surface Water	Ingestion	6.3E-10	--	--	--	1.2E-03	--
		Inhalation	--	--	--	--	--	--
		Dermal Contact	8.9E-08	--	--	--	2.2E-02	--
		Total	8.9E-08	--	--	--	2.3E-02	--
TOTAL			8.9E-07				3.1E-02	
Construction Worker	Surface Soil	Ingestion	2.3E-08	--	--	--	5.3E-03	--
		Inhalation	5.3E-13	--	--	--	1.5E-06	--
		Dermal Contact	7.1E-10	--	--	--	2.2E-04	--
		Total	2.3E-08	--	--	--	5.5E-03	--
Construction Worker	Subsurface Soil	Ingestion	3.7E-08	--	--	--	5.9E-03	--
		Inhalation	7.6E-13	--	--	--	4.4E-04	--
		Dermal Contact	1.5E-09	--	--	--	4.2E-05	--
		Total	3.8E-08	--	--	--	6.3E-03	--
Construction Worker	Surface Water	Ingestion	2.5E-10	--	--	--	2.9E-04	--
		Inhalation	--	--	--	3.2E-06	--	
		Dermal Contact	3.5E-08	--	--	--	1.3E-03	--
		Total	3.6E-08	--	--	--	1.6E-03	--
Construction Worker	Groundwater	Ingestion	8.4E-10	--	--	--	5.0E-04	--
		Inhalation	9.4E-11	--	--	--	--	--
		Dermal Contact	2.4E-09	--	--	--	8.9E-03	--
		Total	3.4E-09	--	--	--	9.4E-03	--
TOTAL			1.0E-07				2.3E-02	
Trespasser Adult	Surface Soil	Ingestion	2.1E-07	--	--	--	2.5E-03	--
		Inhalation	2.4E-11	--	--	--	3.4E-06	--
		Dermal Contact	7.9E-08	--	--	--	1.2E-03	--
		Total	2.9E-07	--	--	--	3.7E-03	--
Trespasser Adult	Surface Water	Ingestion	4.6E-10	--	--	--	1.1E-03	--
		Inhalation	--	--	--	--	--	--
		Dermal Contact	6.4E-08	--	--	--	2.0E-02	--
		Total	6.4E-08	--	--	--	2.1E-02	--
TOTAL							2.5E-02	
Trespasser Adolescent	Surface Soil	Ingestion	3.7E-07	--	--	--	8.6E-03	--
		Inhalation	4.1E-11	--	--	--	1.2E-05	--
		Dermal Contact	2.1E-07	--	--	--	6.4E-03	--
		Total	5.8E-07	--	--	--	1.5E-02	--
Trespasser Adolescent	Surface Water	Ingestion	7.9E-10	--	--	--	3.9E-03	--
		Inhalation	--	--	--	--	--	--
		Dermal Contact	8.0E-08	--	--	--	5.0E-02	--
		Total	8.1E-08	--	--	--	5.4E-02	--
TOTAL			1.0E-06				6.9E-02	
TOTAL							6.9E-02	

**TABLE 6-3
SUMMARY OF CANCER RISKS AND HAZARD INDICES
GROUP IV
NAVAL STATION MAYPORT
PAGE 2 OF 2**

Receptor	Exposure Medium	Exposure Route	Cancer Risk (RME)	Chemicals with Cancer Risks >10 ⁻⁴	Chemicals with Cancer Risks >10 ⁻⁵	Chemicals with Cancer Risks >10 ⁻⁶	Hazard Index (RME)	Chemicals with HI > 1
Hypothetical Future On-Site Resident Adult and Child	Surface Soil	Ingestion	6.6E-06	--	--	Benzo(a)pyrene (equiv), Arsenic	NA	--
		Inhalation	4.8E-10	--	--	--	NA	--
		Dermal Contact	1.2E-06	--	--	Benzo(a)pyrene (equiv)	NA	--
		Total	7.8E-06	--	--	Benzo(a)pyrene (equiv), Arsenic	NA	--
Hypothetical Future On-Site Resident Adult and Child	Surface Water	Ingestion	2.0E-08	--	--	--	NA	--
		Inhalation	--	--	--	--	NA	--
		Dermal Contact	2.6E-07	--	--	--	NA	--
		Total	2.8E-07	--	--	--	NA	--
Resident Adult and Child	Groundwater	Ingestion	1.1E-04	--	Arsenic, Vinyl Chloride	Carbazole	NA	--
		Inhalation	1.3E-05	--	Vinyl Chloride	--	NA	--
		Dermal Contact	1.5E-06	--	--	--	NA	--
		Total	1.3E-04	--	Arsenic, Vinyl Chloride	Carbazole	NA	--
TOTAL			1.3E-04					
Hypothetical Future On-Site Resident Adult	Surface Soil	Ingestion	NA	NA	NA	NA	1.9E-02	--
		Inhalation	NA	NA	NA	NA	2.7E-05	--
		Dermal Contact	NA	NA	NA	NA	9.4E-03	--
		Total	NA	NA	NA	NA	2.9E-02	--
Hypothetical Future On-Site Resident Adult	Surface Water	Ingestion	NA	NA	NA	NA	2.9E-03	--
		Inhalation	NA	NA	NA	NA	--	--
		Dermal Contact	NA	NA	NA	NA	4.9E-02	--
		Total	NA	NA	NA	NA	5.2E-02	--
Hypothetical Future On-Site Resident Adult	Groundwater	Ingestion	NA	NA	NA	NA	1.0E+00	--
		Inhalation	NA	NA	NA	NA	1.1E-02	--
		Dermal Contact	NA	NA	NA	NA	2.5E-02	--
		Total	NA	NA	NA	NA	1.1E+00	--
TOTAL						1.1E+00		
Hypothetical Future On-Site Resident Child	Surface Soil	Ingestion	NA	NA	NA	NA	9.0E-02	--
		Inhalation	NA	NA	NA	NA	1.2E-04	--
		Dermal Contact	NA	NA	NA	NA	6.5E-03	--
		Total	NA	NA	NA	NA	9.6E-02	--
Hypothetical Future On-Site Resident Child	Surface Water	Ingestion	NA	NA	NA	NA	1.3E-01	--
		Inhalation	NA	NA	NA	NA	--	--
		Dermal Contact	NA	NA	NA	NA	2.1E-01	--
		Total	NA	NA	NA	NA	3.4E-01	--
Hypothetical Future On-Site Resident Child	Groundwater	Ingestion	NA	NA	NA	NA	2.2E+00	--
		Inhalation	NA	NA	NA	NA	2.6E-02	--
		Dermal Contact	NA	NA	NA	NA	3.8E-02	--
		Total	NA	NA	NA	NA	2.2E+00	--
TOTAL						2.7E+00		

RME - Reasonable maximum exposure
 HI - Hazard index
 NA - not applicable

TABLE 7.1
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF BASE WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Area of Concern C
Receptor Population: Base Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.5E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	6.4E-07	mg/kg-day	3.00E-04	mg/kg-day			2.1E-03
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.4E-03	mg/kg-day	3.00E-01	mg/kg-day			4.8E-03
	(total)												6.9E-03
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.0E-08	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	8.4E-09	mg/kg-day	2.85E-04	mg/kg-day			2.9E-05
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.9E-05	mg/kg-day	2.55E-02	mg/kg-day			7.5E-04
	(total)												7.8E-04
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	4.94E-11	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.05E-10	mg/kg-day	2.85E-04	mg/kg-day			7.2E-07
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	4.66E-07	mg/kg-day	2.55E-02	mg/kg-day			1.8E-05
	(total)												1.9E-05
Total Hazard Index Across All Exposure Routes/Pathways													7.7E-03

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.2
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF BASE WORKER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Base Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake Non-Cancer Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	3.5E-07	mg/kg-day	5.00E-03	mg/kg-day			7.0E-05
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	2.2E-07	mg/kg-day	5.70E-04	mg/kg-day			3.8E-04
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	3.9E-08	mg/kg-day	2.00E-02	mg/kg-day			2.0E-06
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	7.8E-08	mg/kg-day	2.00E-01	mg/kg-day			3.9E-07
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	2.3E-07	mg/kg-day	6.00E-01	mg/kg-day			3.9E-07
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	8.5E-05	mg/kg-day	1.00E+00	mg/kg-day			8.5E-05
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	1.1E-06	mg/kg-day	7.00E-02	mg/kg-day			1.5E-05
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.3E-07	mg/kg-day	3.00E-03	mg/kg-day			4.2E-05
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	6.2E-05	mg/kg-day	3.00E-01	mg/kg-day			2.1E-04
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	8.8E-06	mg/kg-day	2.30E-02	mg/kg-day			3.8E-04
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	9.0E-08	mg/kg-day	5.00E-03	mg/kg-day			1.8E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	3.5E-07	mg/kg-day	7.00E-03	mg/kg-day			5.0E-05
	(total)												1.2E-03
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	4.5E-06	mg/kg-day	3.73E-03	mg/kg-day			1.2E-03
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	6.3E-07	mg/kg-day	2.86E-04	mg/kg-day			2.2E-03
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	8.6E-06	mg/kg-day	1.00E-02	mg/kg-day			8.6E-04
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	2.4E-05	mg/kg-day	2.00E-01	mg/kg-day			1.2E-04
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	1.6E-06	mg/kg-day	6.00E-01	mg/kg-day			2.7E-06
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	7.7E-05	mg/kg-day	4.00E-02	mg/kg-day			1.9E-03
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	9.8E-07	mg/kg-day	3.50E-03	mg/kg-day			2.8E-04
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.2E-07	mg/kg-day	3.90E-05	mg/kg-day			3.0E-03
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	5.6E-05	mg/kg-day	2.55E-02	mg/kg-day			2.2E-03
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	8.0E-06	mg/kg-day	9.20E-04	mg/kg-day			8.7E-03
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	8.2E-08	mg/kg-day	2.25E-03	mg/kg-day			3.6E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	3.2E-07	mg/kg-day	1.82E-04	mg/kg-day			1.7E-03
	(total)												2.2E-02
Total Hazard Index Across All Exposure Routes/Pathways													2.3E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.3
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF CONSTRUCTION WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Area of Concern C
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.2E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	4.9E-07	mg/kg-day	3.00E-04	mg/kg-day			1.6E-03
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.1E-03	mg/kg-day	3.00E-01	mg/kg-day			3.7E-03
	(total)												5.3E-03
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	5.7E-09	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.4E-09	mg/kg-day	2.85E-04	mg/kg-day			8.2E-06
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	5.3E-06	mg/kg-day	2.55E-02	mg/kg-day			2.1E-04
	(total)												2.2E-04
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	3.95E-12	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.64E-11	mg/kg-day	2.85E-04	mg/kg-day			5.8E-08
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	3.72E-08	mg/kg-day	2.55E-02	mg/kg-day			1.5E-06
	(total)												1.5E-06
Total Hazard Index Across All Exposure Routes/Pathways													5.5E-03

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.4
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF CONSTRUCTION WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil/Air
Exposure Point: Excavation Trenches
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	6.27E-01	mg/kg	6.27E-01	mg/kg	M	2.4E-07	mg/kg-day		mg/kg-day			
	Hexachlorobenzene	2.96E-01	mg/kg	2.96E-01	mg/kg	M	1.1E-07	mg/kg-day	8.00E-04	mg/kg-day			1.4E-04
	Aluminum	1.22E+03	mg/kg	1.22E+03	mg/kg	M	4.6E-04	mg/kg-day	1.00E+00	mg/kg-day			4.6E-04
	Arsenic	1.18E+00	mg/kg	1.18E+00	mg/kg	M	4.4E-07	mg/kg-day	3.00E-04	mg/kg-day			1.5E-03
	Chromium	4.49E+00	mg/kg	4.49E+00	mg/kg	M	1.7E-06	mg/kg-day	3.00E-03	mg/kg-day			5.6E-04
	Copper	2.48E+00	mg/kg	2.48E+00	mg/kg	M	9.3E-07	mg/kg-day	3.70E-02	mg/kg-day			2.5E-05
	Iron	2.04E+03	mg/kg	2.04E+03	mg/kg	M	7.7E-04	mg/kg-day	3.00E-01	mg/kg-day			2.6E-03
	Manganese	2.60E+01	mg/kg	2.60E+01	mg/kg	M	9.8E-06	mg/kg-day	2.30E-02	mg/kg-day			4.2E-04
	Vanadium	3.79E+00	mg/kg	3.79E+00	mg/kg	M	1.4E-06	mg/kg-day	7.00E-03	mg/kg-day			2.0E-04
	(total)												5.9E-03
Dermal	Benzo(a)pyrene (equiv)	6.27E-01	mg/kg	6.27E-01	mg/kg	M	1.1E-08	mg/kg-day		mg/kg-day			
	Hexachlorobenzene	2.96E-01	mg/kg	2.96E-01	mg/kg	M	5.4E-09	mg/kg-day	6.40E-04	mg/kg-day			8.4E-06
	Aluminum	1.22E+03	mg/kg	1.22E+03	mg/kg	M	2.2E-06	mg/kg-day	4.00E-02	mg/kg-day			5.5E-05
	Arsenic	1.18E+00	mg/kg	1.18E+00	mg/kg	M	2.1E-09	mg/kg-day	2.85E-04	mg/kg-day			7.5E-06
	Chromium	4.49E+00	mg/kg	4.49E+00	mg/kg	M	8.1E-09	mg/kg-day	6.00E-05	mg/kg-day			1.4E-04
	Copper	2.48E+00	mg/kg	2.48E+00	mg/kg	M	4.5E-09	mg/kg-day		mg/kg-day			
	Iron	2.04E+03	mg/kg	2.04E+03	mg/kg	M	3.7E-06	mg/kg-day	2.55E-02	mg/kg-day			1.4E-04
	Manganese	2.60E+01	mg/kg	2.60E+01	mg/kg	M	4.7E-08	mg/kg-day	9.20E-04	mg/kg-day			5.1E-05
	Vanadium	3.79E+00	mg/kg	3.79E+00	mg/kg	M	6.9E-09	mg/kg-day	1.82E-04	mg/kg-day			3.8E-05
	(total)												4.4E-04
Inhalation	Benzo(a)pyrene (equiv)	6.27E-01	mg/kg	6.27E-01	mg/kg	M	7.91E-12	mg/kg-day		mg/kg-day			
	Hexachlorobenzene	2.96E-01	mg/kg	2.96E-01	mg/kg	M	3.74E-12	mg/kg-day	6.40E-04	mg/kg-day			5.8E-09
	Aluminum	1.22E+03	mg/kg	1.22E+03	mg/kg	M	1.54E-08	mg/kg-day	1.00E-03	mg/kg-day			1.5E-05
	Arsenic	1.18E+00	mg/kg	1.18E+00	mg/kg	M	1.49E-11	mg/kg-day	2.86E-04	mg/kg-day			5.2E-08
	Chromium	4.49E+00	mg/kg	4.49E+00	mg/kg	M	5.67E-11	mg/kg-day	2.86E-05	mg/kg-day			2.0E-06
	Copper	2.48E+00	mg/kg	2.48E+00	mg/kg	M	3.13E-11	mg/kg-day		mg/kg-day			
	Iron	2.04E+03	mg/kg	2.04E+03	mg/kg	M	2.58E-08	mg/kg-day	2.55E-02	mg/kg-day			1.0E-06
	Manganese	2.60E+01	mg/kg	2.60E+01	mg/kg	M	3.28E-10	mg/kg-day	1.43E-05	mg/kg-day			2.3E-05
	Vanadium	3.79E+00	mg/kg	3.79E+00	mg/kg	M	4.79E-11	mg/kg-day	1.82E-04	mg/kg-day			2.6E-07
													4.2E-05
Total Hazard Index Across All Exposure Routes/Pathways													6.3E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.5
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF BASE WORKER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.4E-07	mg/kg-day	5.00E-03	mg/kg-day			2.8E-05
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	8.6E-08	mg/kg-day	5.70E-04	mg/kg-day			1.5E-04
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	1.6E-08	mg/kg-day	2.00E-02	mg/kg-day			7.8E-07
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	3.1E-08	mg/kg-day	2.00E-01	mg/kg-day			1.6E-07
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	9.4E-08	mg/kg-day	6.00E-01	mg/kg-day			1.6E-07
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	3.4E-05	mg/kg-day	1.00E+00	mg/kg-day			3.4E-05
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	4.3E-07	mg/kg-day	7.00E-02	mg/kg-day			6.2E-06
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	5.1E-08	mg/kg-day	3.00E-03	mg/kg-day			1.7E-05
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	2.5E-05	mg/kg-day	3.00E-01	mg/kg-day			8.2E-05
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	3.5E-06	mg/kg-day	2.30E-02	mg/kg-day			1.5E-04
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	3.6E-08	mg/kg-day	5.00E-03	mg/kg-day			7.2E-06
Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.4E-07	mg/kg-day	7.00E-03	mg/kg-day			2.0E-05	
	(total)												5.0E-04
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.8E-06	mg/kg-day	3.73E-03	mg/kg-day			4.8E-04
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	2.5E-07	mg/kg-day	2.86E-04	mg/kg-day			8.9E-04
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	3.4E-06	mg/kg-day	1.00E-02	mg/kg-day			3.4E-04
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	9.4E-06	mg/kg-day	2.00E-01	mg/kg-day			4.7E-05
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	6.5E-07	mg/kg-day	6.00E-01	mg/kg-day			1.1E-06
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	3.1E-05	mg/kg-day	4.00E-02	mg/kg-day			7.7E-04
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	3.9E-07	mg/kg-day	3.50E-03	mg/kg-day			1.1E-04
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	4.6E-08	mg/kg-day	3.90E-05	mg/kg-day			1.2E-03
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	2.2E-05	mg/kg-day	2.55E-02	mg/kg-day			8.8E-04
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	3.2E-06	mg/kg-day	9.20E-04	mg/kg-day			3.5E-03
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	3.3E-08	mg/kg-day	2.25E-03	mg/kg-day			1.5E-05
Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.3E-07	mg/kg-day	1.82E-04	mg/kg-day			7.0E-04	
	(total)												8.9E-03
Total Hazard Index Across All Exposure Routes/Pathways													9.4E-03

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.6
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF CONSTRUCTION WORKER TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Excavation Trench
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Hazard Quotient	
Ingestion	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	5.1E-09	mg/kg-day	1.00E-01	mg/kg-day	5.1E-08	
	1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	5.4E-09	mg/kg-day	9.00E-03	mg/kg-day	6.0E-07	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	3.0E-08	mg/kg-day	3.00E-02	mg/kg-day	9.9E-07	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	2.2E-08	mg/kg-day	6.00E-02	mg/kg-day	3.7E-07	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	2.3E-07	mg/kg-day	1.00E+00	mg/kg-day	2.3E-07	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	3.4E-08	mg/kg-day	3.00E-04	mg/kg-day	1.1E-04	
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	4.4E-09	mg/kg-day	NA	mg/kg-day		
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	4.4E-08	mg/kg-day	NA	mg/kg-day		
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	4.1E-09	mg/kg-day	NA	mg/kg-day		
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	2.3E-05	mg/kg-day	3.00E-01	mg/kg-day	7.8E-05	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	1.2E-06	mg/kg-day	2.30E-02	mg/kg-day	5.3E-05	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	9.9E-08	mg/kg-day	5.00E-03	mg/kg-day	2.0E-05	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	2.2E-08	mg/kg-day	2.00E-02	mg/kg-day	1.1E-06	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	1.4E-08	mg/kg-day	6.00E-01	mg/kg-day	2.3E-08	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	2.0E-08	mg/kg-day	1.00E-03	mg/kg-day	2.0E-05	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	2.8E-08	mg/kg-day	NA	mg/kg-day		
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	7.9E-09	mg/kg-day	7.00E-03	mg/kg-day	1.1E-06	
	Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	4.6E-09	mg/kg-day	3.00E-03	mg/kg-day	1.5E-06	
	Dermal	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	4.8E-08	mg/kg-day	1.00E-01	mg/kg-day	4.8E-07
		1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	5.8E-08	mg/kg-day	7.20E-03	mg/kg-day	8.0E-06
1,3-Dichlorobenzene		3.80E+00	ug/l	3.80E+00	ug/l	M	3.4E-06	mg/kg-day	2.40E-02	mg/kg-day	1.4E-04	
Acenaphthene		2.80E+00	ug/l	2.80E+00	ug/l	M	3.9E-06	mg/kg-day	3.00E-02	mg/kg-day	1.3E-04	
Aluminum		2.92E+01	ug/l	2.92E+01	ug/l	M	8.2E-08	mg/kg-day	4.00E-02	mg/kg-day	2.1E-06	
Arsenic		4.40E+00	ug/l	4.40E+00	ug/l	M	1.2E-08	mg/kg-day	2.85E-04	mg/kg-day	4.3E-05	
Benzene		5.65E-01	ug/l	5.65E-01	ug/l	M	8.2E-08	mg/kg-day	NA	mg/kg-day		
Carbazole		5.60E+00	ug/l	5.60E+00	ug/l	M	4.3E-06	mg/kg-day	NA	mg/kg-day		
Chloromethane		5.26E-01	ug/l	5.26E-01	ug/l	M	1.4E-08	mg/kg-day	NA	mg/kg-day		
Iron		2.98E+03	ug/l	2.98E+03	ug/l	M	8.4E-06	mg/kg-day	2.55E-02	mg/kg-day	3.3E-04	
Manganese		1.55E+02	ug/l	1.55E+02	ug/l	M	4.4E-07	mg/kg-day	9.20E-04	mg/kg-day	4.8E-04	
Molybdenum		1.27E+01	ug/l	1.27E+01	ug/l	M	3.6E-08	mg/kg-day	2.25E-03	mg/kg-day	1.6E-05	
Naphthalene		2.75E+00	ug/l	2.75E+00	ug/l	M	1.7E-06	mg/kg-day	2.00E-02	mg/kg-day	8.7E-05	
Phenol		1.80E+00	ug/l	1.80E+00	ug/l	M	8.3E-08	mg/kg-day	6.00E-01	mg/kg-day	1.4E-07	
Pyridine		2.60E+00	ug/l	2.60E+00	ug/l	M	3.8E-08	mg/kg-day	6.70E-04	mg/kg-day	5.7E-05	
Thallium		3.64E+00	ug/l	3.64E+00	ug/l	M	1.0E-08	mg/kg-day	NA	mg/kg-day		
Vanadium		1.01E+00	ug/l	1.01E+00	ug/l	M	2.8E-09	mg/kg-day	1.82E-04	mg/kg-day	1.6E-05	
Vinyl chloride		5.84E-01	ug/l	5.84E-01	ug/l	M	2.8E-08	mg/kg-day	3.00E-03	mg/kg-day	9.5E-06	
		(total)										1.3E-03
Inhalation								Inhalation risk assumed to be equal to ingestion risk for VOAs				3.2E-06
											1.6E-03	

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.7
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Trespasser
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	5.5E-08	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.3E-07	mg/kg-day	3.00E-04	mg/kg-day			7.6E-04
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	5.2E-04	mg/kg-day	3.00E-01	mg/kg-day			1.7E-03
	(total)												2.5E-03
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	3.1E-08	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.3E-08	mg/kg-day	2.85E-04	mg/kg-day			4.6E-05
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	3.0E-05	mg/kg-day	2.55E-02	mg/kg-day			1.2E-03
	(total)												1.2E-03
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	8.89E-12	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	3.69E-11	mg/kg-day	2.85E-04	mg/kg-day			1.3E-07
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	8.38E-08	mg/kg-day	2.55E-02	mg/kg-day			3.3E-06
	(total)												3.4E-06
Total Hazard Index Across All Exposure Routes/Pathways													3.7E-03

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.8
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Trespasser
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	3.2E-07	mg/kg-day	5.00E-03	mg/kg-day			6.3E-05
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	1.9E-07	mg/kg-day	5.70E-04	mg/kg-day			3.4E-04
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	3.5E-08	mg/kg-day	2.00E-02	mg/kg-day			1.8E-06
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	7.0E-08	mg/kg-day	2.00E-01	mg/kg-day			3.5E-07
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	2.1E-07	mg/kg-day	6.00E-01	mg/kg-day			3.5E-07
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	7.6E-05	mg/kg-day	1.00E+00	mg/kg-day			7.6E-05
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	9.7E-07	mg/kg-day	7.00E-02	mg/kg-day			1.4E-05
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.1E-07	mg/kg-day	3.00E-03	mg/kg-day			3.8E-05
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	5.5E-05	mg/kg-day	3.00E-01	mg/kg-day			1.8E-04
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	7.9E-06	mg/kg-day	2.30E-02	mg/kg-day			3.4E-04
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	8.1E-08	mg/kg-day	5.00E-03	mg/kg-day			1.6E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	3.2E-07	mg/kg-day	7.00E-03	mg/kg-day			4.5E-05
	(total)												1.1E-03
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	4.1E-06	mg/kg-day	3.73E-03	mg/kg-day			1.1E-03
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	5.7E-07	mg/kg-day	2.86E-04	mg/kg-day			2.0E-03
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	7.7E-06	mg/kg-day	1.00E-02	mg/kg-day			7.7E-04
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	2.1E-05	mg/kg-day	2.00E-01	mg/kg-day			1.1E-04
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	1.5E-06	mg/kg-day	6.00E-01	mg/kg-day			2.4E-06
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	6.9E-05	mg/kg-day	4.00E-02	mg/kg-day			1.7E-03
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	8.8E-07	mg/kg-day	3.50E-03	mg/kg-day			2.5E-04
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.0E-07	mg/kg-day	3.90E-05	mg/kg-day			2.7E-03
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	5.0E-05	mg/kg-day	2.55E-02	mg/kg-day			2.0E-03
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	7.2E-06	mg/kg-day	9.20E-04	mg/kg-day			7.8E-03
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	7.4E-08	mg/kg-day	2.25E-03	mg/kg-day			3.3E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	2.9E-07	mg/kg-day	1.82E-04	mg/kg-day			1.6E-03
	(total)												2.0E-02
Total Hazard Index Across All Exposure Routes/Pathways													2.1E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.9
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADOLESCENT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil (1)
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.9E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	7.9E-07	mg/kg-day	3.00E-04	mg/kg-day			2.6E-03
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.8E-03	mg/kg-day	3.00E-01	mg/kg-day			6.0E-03
	(total)												8.6E-03
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.7E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	6.9E-08	mg/kg-day	2.85E-04	mg/kg-day			2.4E-04
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.6E-04	mg/kg-day	2.55E-02	mg/kg-day			6.1E-03
	(total)												6.4E-03
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	3.07E-11	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.28E-10	mg/kg-day	2.85E-04	mg/kg-day			4.5E-07
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.90E-07	mg/kg-day	2.55E-02	mg/kg-day			1.1E-05
	(total)												1.2E-05
Total Hazard Index Across All Exposure Routes/Pathways													1.5E-02

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.10
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake Non-Cancer Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.1E-06	mg/kg-day	5.00E-03	mg/kg-day			2.2E-04
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	6.7E-07	mg/kg-day	5.70E-04	mg/kg-day			1.2E-03
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	1.2E-07	mg/kg-day	2.00E-02	mg/kg-day			6.1E-06
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	2.4E-07	mg/kg-day	2.00E-01	mg/kg-day			1.2E-06
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	7.3E-07	mg/kg-day	6.00E-01	mg/kg-day			1.2E-06
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	2.6E-04	mg/kg-day	1.00E+00	mg/kg-day			2.6E-04
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	3.4E-06	mg/kg-day	7.00E-02	mg/kg-day			4.8E-05
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	4.0E-07	mg/kg-day	3.00E-03	mg/kg-day			1.3E-04
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.9E-04	mg/kg-day	3.00E-01	mg/kg-day			6.4E-04
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	2.7E-05	mg/kg-day	2.30E-02	mg/kg-day			1.2E-03
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	2.8E-07	mg/kg-day	5.00E-03	mg/kg-day			5.6E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.1E-06	mg/kg-day	7.00E-03	mg/kg-day			1.6E-04
		(total)											
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.0E-05	mg/kg-day	3.73E-03	mg/kg-day			2.7E-03
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	1.4E-06	mg/kg-day	2.86E-04	mg/kg-day			5.0E-03
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	1.9E-05	mg/kg-day	1.00E-02	mg/kg-day			1.9E-03
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	5.3E-05	mg/kg-day	2.00E-01	mg/kg-day			2.6E-04
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	3.7E-06	mg/kg-day	6.00E-01	mg/kg-day			6.1E-06
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	1.7E-04	mg/kg-day	4.00E-02	mg/kg-day			4.3E-03
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	2.2E-06	mg/kg-day	3.50E-03	mg/kg-day			6.3E-04
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	2.6E-07	mg/kg-day	3.90E-05	mg/kg-day			6.7E-03
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.3E-04	mg/kg-day	2.55E-02	mg/kg-day			4.9E-03
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	1.8E-05	mg/kg-day	9.20E-04	mg/kg-day			2.0E-02
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	1.8E-07	mg/kg-day	2.25E-03	mg/kg-day			8.2E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	7.1E-07	mg/kg-day	1.82E-04	mg/kg-day			3.9E-03
		(total)											
Total Hazard Index Across All Exposure Routes/Pathways													5.4E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 7.11
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	4.3E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.8E-06	mg/kg-day	3.00E-04	mg/kg-day			5.9E-03
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	4.0E-03	mg/kg-day	3.00E-01	mg/kg-day			1.3E-02
	(total)												1.9E-02
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.4E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.0E-07	mg/kg-day	2.85E-04	mg/kg-day			3.6E-04
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.3E-04	mg/kg-day	2.55E-02	mg/kg-day			9.0E-03
	(total)												9.4E-03
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	6.91E-11	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.87E-10	mg/kg-day	2.85E-04	mg/kg-day			1.0E-06
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	6.52E-07	mg/kg-day	2.55E-02	mg/kg-day			2.6E-05
	(total)												2.7E-05
Total Hazard Index Across All Exposure Routes/Pathways													2.9E-02

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.12
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADULT RESIDENT TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	8.2E-07	mg/kg-day	5.00E-03	mg/kg-day			1.6E-04
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	5.0E-07	mg/kg-day	5.70E-04	mg/kg-day			8.8E-04
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	9.2E-08	mg/kg-day	2.00E-02	mg/kg-day			4.6E-06
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	1.8E-07	mg/kg-day	2.00E-01	mg/kg-day			9.2E-07
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	5.5E-07	mg/kg-day	6.00E-01	mg/kg-day			9.2E-07
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	2.0E-04	mg/kg-day	1.00E+00	mg/kg-day			2.0E-04
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	2.5E-06	mg/kg-day	7.00E-02	mg/kg-day			3.6E-05
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	3.0E-07	mg/kg-day	3.00E-03	mg/kg-day			9.9E-05
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.4E-04	mg/kg-day	3.00E-01	mg/kg-day			4.8E-04
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	2.1E-05	mg/kg-day	2.30E-02	mg/kg-day			9.0E-04
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	2.1E-07	mg/kg-day	5.00E-03	mg/kg-day			4.2E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	8.2E-07	mg/kg-day	7.00E-03	mg/kg-day			1.2E-04
	(total)												2.9E-03
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	7.7E-06	mg/kg-day	3.73E-03	mg/kg-day			2.1E-03
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	1.1E-06	mg/kg-day	2.86E-04	mg/kg-day			3.9E-03
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	1.2E-05	mg/kg-day	1.00E-02	mg/kg-day			1.2E-03
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	3.4E-05	mg/kg-day	2.00E-01	mg/kg-day			1.7E-04
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	2.8E-06	mg/kg-day	6.00E-01	mg/kg-day			4.7E-06
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	1.8E-04	mg/kg-day	4.00E-02	mg/kg-day			4.5E-03
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	2.3E-06	mg/kg-day	3.50E-03	mg/kg-day			6.6E-04
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	2.7E-07	mg/kg-day	3.90E-05	mg/kg-day			6.9E-03
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.3E-04	mg/kg-day	2.55E-02	mg/kg-day			5.1E-03
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	1.9E-05	mg/kg-day	9.20E-04	mg/kg-day			2.0E-02
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	1.9E-07	mg/kg-day	2.25E-03	mg/kg-day			8.5E-05
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	7.4E-07	mg/kg-day	1.82E-04	mg/kg-day			4.1E-03
	(total)												4.9E-02
Total Hazard Index Across All Exposure Routes/Pathways													5.2E-02

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.13
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF ADULT RESIDENT TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Tap Water/Vapor
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Hazard Quotient	
Ingestion	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	1.8E-05	mg/kg-day	1.00E-01	mg/kg-day	1.8E-04	
	1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	1.9E-05	mg/kg-day	9.00E-03	mg/kg-day	2.1E-03	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	1.0E-04	mg/kg-day	3.00E-02	mg/kg-day	3.5E-03	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	7.7E-05	mg/kg-day	6.00E-02	mg/kg-day	1.3E-03	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	8.0E-04	mg/kg-day	1.00E+00	mg/kg-day	8.0E-04	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	1.2E-04	mg/kg-day	3.00E-04	mg/kg-day	4.0E-01	
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	1.5E-05	mg/kg-day	NA	mg/kg-day		
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	1.5E-04	mg/kg-day	NA	mg/kg-day		
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	1.4E-05	mg/kg-day	NA	mg/kg-day		
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	8.2E-02	mg/kg-day	3.00E-01	mg/kg-day	2.7E-01	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	4.3E-03	mg/kg-day	2.30E-02	mg/kg-day	1.8E-01	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	3.5E-04	mg/kg-day	5.00E-03	mg/kg-day	7.0E-02	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	7.5E-05	mg/kg-day	2.00E-02	mg/kg-day	3.8E-03	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	4.9E-05	mg/kg-day	6.00E-01	mg/kg-day	8.2E-05	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	7.1E-05	mg/kg-day	1.00E-03	mg/kg-day	7.1E-02	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	1.0E-04	mg/kg-day	NA	mg/kg-day		
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	2.8E-05	mg/kg-day	7.00E-03	mg/kg-day	4.0E-03	
	Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	1.6E-05	mg/kg-day	3.00E-03	mg/kg-day	5.3E-03	
		(total)										1.0E+00
	Dermal	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	8.5E-07	mg/kg-day	1.00E-01	mg/kg-day	8.5E-06
1,2-Dichloroethane (total)		6.85E-01	ug/l	6.85E-01	ug/l	M	1.0E-06	mg/kg-day	7.20E-03	mg/kg-day	1.4E-04	
1,3-Dichlorobenzene		3.80E+00	ug/l	3.80E+00	ug/l	M	6.0E-05	mg/kg-day	2.40E-02	mg/kg-day	2.5E-03	
Acenaphthene		2.80E+00	ug/l	2.80E+00	ug/l	M	6.9E-05	mg/kg-day	3.00E-02	mg/kg-day	2.3E-03	
Aluminum		2.92E+01	ug/l	2.92E+01	ug/l	M	1.4E-06	mg/kg-day	4.00E-02	mg/kg-day	3.6E-05	
Arsenic		4.40E+00	ug/l	4.40E+00	ug/l	M	2.2E-07	mg/kg-day	2.85E-04	mg/kg-day	7.6E-04	
Benzene		5.65E-01	ug/l	5.65E-01	ug/l	M	1.4E-06	mg/kg-day	NA	mg/kg-day		
Carbazole		5.60E+00	ug/l	5.60E+00	ug/l	M	7.6E-05	mg/kg-day	NA	mg/kg-day		
Chloromethane		5.26E-01	ug/l	5.26E-01	ug/l	M	2.4E-07	mg/kg-day	NA	mg/kg-day		
Iron		2.98E+03	ug/l	2.98E+03	ug/l	M	1.5E-04	mg/kg-day	2.55E-02	mg/kg-day	5.8E-03	
Manganese		1.55E+02	ug/l	1.55E+02	ug/l	M	7.7E-06	mg/kg-day	9.20E-04	mg/kg-day	8.3E-03	
Molybdenum		1.27E+01	ug/l	1.27E+01	ug/l	M	6.3E-07	mg/kg-day	2.25E-03	mg/kg-day	2.8E-04	
Naphthalene		2.75E+00	ug/l	2.75E+00	ug/l	M	3.1E-05	mg/kg-day	2.00E-02	mg/kg-day	1.5E-03	
Phenol		1.80E+00	ug/l	1.80E+00	ug/l	M	1.5E-06	mg/kg-day	6.00E-01	mg/kg-day	2.4E-06	
Pyridine		2.60E+00	ug/l	2.60E+00	ug/l	M	6.7E-07	mg/kg-day	6.70E-04	mg/kg-day	9.9E-04	
Thallium		3.64E+00	ug/l	3.64E+00	ug/l	M	1.8E-07	mg/kg-day	NA	mg/kg-day		
Vanadium		1.01E+00	ug/l	1.01E+00	ug/l	M	5.0E-08	mg/kg-day	1.82E-04	mg/kg-day	2.7E-04	
Vinyl chloride		5.84E-01	ug/l	5.84E-01	ug/l	M	5.0E-07	mg/kg-day	3.00E-03	mg/kg-day	1.7E-04	
		(total)										2.3E-02
Inhalation								Inhalation risk assumed to be equal to ingestion risk for VOAs				
											1.1E-02	
											1.1E+00	

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.14
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF CHILD RESIDENT TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	4.0E-06	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.7E-05	mg/kg-day	3.00E-04	mg/kg-day			5.5E-02
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	3.8E-02	mg/kg-day	1.10E+00	mg/kg-day			3.4E-02
	(total)												9.0E-02
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	5.6E-07	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.3E-07	mg/kg-day	2.85E-04	mg/kg-day			8.2E-04
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	5.3E-04	mg/kg-day	9.35E-02	mg/kg-day			5.6E-03
	(total)												6.5E-03
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	3.23E-10	mg/kg-day		mg/kg-day			
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.34E-09	mg/kg-day	2.85E-04	mg/kg-day			4.7E-06
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	3.04E-06	mg/kg-day	2.55E-02	mg/kg-day			1.2E-04
	(total)												1.2E-04
Total Hazard Index Across All Exposure Routes/Pathways													9.6E-02

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 7.15
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF CHILD RESIDENT TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water/Air
Exposure Point: Storm Drainage Ditches
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	4.3E-05	mg/kg-day	5.00E-03	mg/kg-day			8.5E-03
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	2.6E-05	mg/kg-day	5.70E-04	mg/kg-day			4.6E-02
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	4.7E-06	mg/kg-day	2.00E-02	mg/kg-day			2.4E-04
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	9.5E-06	mg/kg-day	2.00E-01	mg/kg-day			4.7E-05
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	2.8E-05	mg/kg-day	6.00E-01	mg/kg-day			4.7E-05
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	1.0E-02	mg/kg-day	1.00E+00	mg/kg-day			1.0E-02
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	1.3E-04	mg/kg-day	7.00E-02	mg/kg-day			1.9E-03
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.5E-05	mg/kg-day	3.00E-03	mg/kg-day			5.1E-03
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	7.5E-03	mg/kg-day	1.10E+00	mg/kg-day			6.8E-03
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	1.1E-03	mg/kg-day	2.30E-02	mg/kg-day			4.6E-02
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	1.1E-05	mg/kg-day	5.00E-03	mg/kg-day			2.2E-03
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	4.3E-05	mg/kg-day	7.00E-03	mg/kg-day			6.1E-03
		(total)											
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	3.5E-05	mg/kg-day	3.73E-03	mg/kg-day			9.3E-03
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	5.0E-06	mg/kg-day	2.86E-04	mg/kg-day			1.7E-02
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	5.7E-05	mg/kg-day	1.00E-02	mg/kg-day			5.7E-03
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	1.5E-04	mg/kg-day	2.00E-01	mg/kg-day			7.7E-04
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	1.3E-05	mg/kg-day	6.00E-01	mg/kg-day			2.1E-05
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	8.2E-04	mg/kg-day	4.00E-02	mg/kg-day			2.0E-02
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	1.0E-05	mg/kg-day	3.50E-03	mg/kg-day			3.0E-03
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.2E-06	mg/kg-day	3.90E-05	mg/kg-day			3.1E-02
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	5.9E-04	mg/kg-day	9.35E-02	mg/kg-day			6.3E-03
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	8.5E-05	mg/kg-day	9.20E-04	mg/kg-day			9.2E-02
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	8.7E-07	mg/kg-day	2.25E-03	mg/kg-day			3.8E-04
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	3.4E-06	mg/kg-day	1.82E-04	mg/kg-day			1.9E-02
		(total)											
Total Hazard Index Across All Exposure Routes/Pathways													3.4E-01

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 7.16
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF NON-CANCER HAZARDS FROM EXPOSURE OF CHILD RESIDENT TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Tap Water/Vapor
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Hazard Quotient	
Ingestion	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	4.1E-05	mg/kg-day	1.00E-01	mg/kg-day	4.1E-04	
	1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	4.4E-05	mg/kg-day	9.00E-03	mg/kg-day	4.9E-03	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	2.4E-04	mg/kg-day	3.00E-02	mg/kg-day	8.1E-03	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	1.8E-04	mg/kg-day	6.00E-02	mg/kg-day	3.0E-03	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	1.9E-03	mg/kg-day	1.00E+00	mg/kg-day	1.9E-03	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	2.8E-04	mg/kg-day	3.00E-04	mg/kg-day	9.4E-01	
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	3.6E-05	mg/kg-day	NA	mg/kg-day		
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	3.6E-04	mg/kg-day	NA	mg/kg-day		
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	3.4E-05	mg/kg-day	NA	mg/kg-day		
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	1.9E-01	mg/kg-day	1.10E+00	mg/kg-day	1.7E-01	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	9.9E-03	mg/kg-day	2.30E-02	mg/kg-day	4.3E-01	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	8.1E-04	mg/kg-day	5.00E-03	mg/kg-day	1.6E-01	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	1.8E-04	mg/kg-day	2.00E-02	mg/kg-day	8.8E-03	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	1.2E-04	mg/kg-day	6.00E-01	mg/kg-day	1.9E-04	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	1.7E-04	mg/kg-day	1.00E-03	mg/kg-day	1.7E-01	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	2.3E-04	mg/kg-day	9.00E-04	mg/kg-day	2.6E-01	
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	6.5E-05	mg/kg-day	7.00E-03	mg/kg-day	9.2E-03	
	Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	3.7E-05	mg/kg-day	3.00E-03	mg/kg-day	1.2E-02	
		(total)										2.2E+00
	Dermal	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	1.5E-06	mg/kg-day	1.00E-01	mg/kg-day	1.5E-05
		1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	1.7E-06	mg/kg-day	7.20E-03	mg/kg-day	2.4E-04
1,3-Dichlorobenzene		3.80E+00	ug/l	3.80E+00	ug/l	M	1.0E-04	mg/kg-day	2.40E-02	mg/kg-day	4.2E-03	
Acenaphthene		2.80E+00	ug/l	2.80E+00	ug/l	M	1.2E-04	mg/kg-day	3.00E-02	mg/kg-day	3.9E-03	
Aluminum		2.92E+01	ug/l	2.92E+01	ug/l	M	2.5E-06	mg/kg-day	4.00E-02	mg/kg-day	6.2E-05	
Arsenic		4.40E+00	ug/l	4.40E+00	ug/l	M	3.7E-07	mg/kg-day	2.85E-04	mg/kg-day	1.3E-03	
Benzene		5.65E-01	ug/l	5.65E-01	ug/l	M	2.4E-06	mg/kg-day	NA	mg/kg-day		
Carbazole		5.60E+00	ug/l	5.60E+00	ug/l	M	1.3E-04	mg/kg-day	NA	mg/kg-day		
Chloromethane		5.26E-01	ug/l	5.26E-01	ug/l	M	4.1E-07	mg/kg-day	NA	mg/kg-day		
Iron		2.98E+03	ug/l	2.98E+03	ug/l	M	2.5E-04	mg/kg-day	9.35E-02	mg/kg-day	2.7E-03	
Manganese		1.55E+02	ug/l	1.55E+02	ug/l	M	1.3E-05	mg/kg-day	9.20E-04	mg/kg-day	1.4E-02	
Molybdenum		1.27E+01	ug/l	1.27E+01	ug/l	M	1.1E-06	mg/kg-day	2.25E-03	mg/kg-day	4.8E-04	
Naphthalene		2.75E+00	ug/l	2.75E+00	ug/l	M	5.2E-05	mg/kg-day	2.00E-02	mg/kg-day	2.6E-03	
Phenol		1.80E+00	ug/l	1.80E+00	ug/l	M	2.5E-06	mg/kg-day	6.00E-01	mg/kg-day	4.2E-06	
Pyridine		2.60E+00	ug/l	2.60E+00	ug/l	M	1.1E-06	mg/kg-day	6.70E-04	mg/kg-day	1.7E-03	
Thallium		3.64E+00	ug/l	3.64E+00	ug/l	M	3.1E-07	mg/kg-day	1.35E-04	mg/kg-day	2.3E-03	
Vanadium		1.01E+00	ug/l	1.01E+00	ug/l	M	8.5E-08	mg/kg-day	1.82E-04	mg/kg-day	4.7E-04	
Vinyl chloride		5.84E-01	ug/l	5.84E-01	ug/l	M	8.5E-07	mg/kg-day	3.00E-03	mg/kg-day	2.8E-04	
		(total)										3.5E-02
Inhalation								Inhalation risk assumed to be equal to ingestion risk for VOAs				2.6E-02
												2.2E+00

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 8.1
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF BASE WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Area 1
Receptor Population: Base Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation ⁽¹⁾	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	5.5E-08	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	4.0E-07
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.3E-07	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	3.4E-07
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	5.2E-04	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										7.4E-07
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	7.2E-09	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	5.9E-08
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	3.0E-09	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	4.7E-09
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	6.8E-06	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										6.3E-08
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.8E-11	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	5.4E-11
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	7.3E-11	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	1.1E-10
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.7E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										1.6E-10
											8.0E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.2
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF BASE WORKER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Base Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.3E-07	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	7.7E-08	mg/kg-day	5.70E-03	(mg/kg-day)-1	4.4E-10
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	1.4E-08	mg/kg-day	1.40E-02	(mg/kg-day)-1	2.0E-10
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	2.8E-08	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	8.4E-08	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	3.0E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	3.9E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	4.5E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	2.2E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	3.1E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	3.2E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.3E-07	mg/kg-day		(mg/kg-day)-1	
	(total)										6.3E-10
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.6E-06	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	2.3E-07	mg/kg-day	1.14E-02	(mg/kg-day)-1	2.6E-09
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	3.1E-06	mg/kg-day	2.80E-02	(mg/kg-day)-1	8.6E-08
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	8.4E-06	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	5.8E-07	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	2.7E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	3.5E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	4.1E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	2.0E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	2.9E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	2.9E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.1E-07	mg/kg-day		(mg/kg-day)-1	
	(total)										8.9E-08
											8.9E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.3
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF CONSTRUCTION WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Area 1
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation ⁽¹⁾	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.7E-09	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	1.2E-08
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	7.0E-09	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	1.0E-08
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.6E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										2.3E-08
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	8.1E-11	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	6.6E-10
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	3.4E-11	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	5.3E-11
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	7.6E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										7.1E-10
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	5.6E-14	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	1.7E-13
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.3E-13	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	3.5E-13
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	5.3E-10	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										5.3E-13
											2.3E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.4
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF CONSTRUCTION WORKERS TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Subsurface Soil
Exposure Medium: Subsurface Soil/Air
Exposure Point: Excavation Trenches
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation ⁽¹⁾	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	6.27E-01	mg/kg	6.27E-01	mg/kg	M	3.4E-09	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	2.5E-08
	Hexachlorobenzene	2.96E-01	mg/kg	2.96E-01	mg/kg	M	1.6E-09	mg/kg-day	1.60E+00	(mg/kg-day) ⁻¹	2.5E-09
	Aluminum	1.22E+03	mg/kg	1.22E+03	mg/kg	M	6.5E-06	mg/kg-day		(mg/kg-day) ⁻¹	
	Arsenic	1.18E+00	mg/kg	1.18E+00	mg/kg	M	6.4E-09	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	9.5E-09
	Chromium	4.49E+00	mg/kg	4.49E+00	mg/kg	M	2.4E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	Copper	2.48E+00	mg/kg	2.48E+00	mg/kg	M	1.3E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	Iron	2.04E+03	mg/kg	2.04E+03	mg/kg	M	1.1E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	Manganese	2.60E+01	mg/kg	2.60E+01	mg/kg	M	1.4E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Vanadium	3.79E+00	mg/kg	3.79E+00	mg/kg	M	2.0E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										3.7E-08
Dermal	Benzo(a)pyrene (equiv)	6.27E-01	mg/kg	6.27E-01	mg/kg	M	1.6E-10	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	1.3E-09
	Hexachlorobenzene	2.96E-01	mg/kg	2.96E-01	mg/kg	M	7.6E-11	mg/kg-day	2.00E+00	(mg/kg-day) ⁻¹	1.5E-10
	Aluminum	1.22E+03	mg/kg	1.22E+03	mg/kg	M	3.1E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	Arsenic	1.18E+00	mg/kg	1.18E+00	mg/kg	M	3.1E-11	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	4.8E-11
	Chromium	4.49E+00	mg/kg	4.49E+00	mg/kg	M	1.2E-10	mg/kg-day		(mg/kg-day) ⁻¹	
	Copper	2.48E+00	mg/kg	2.48E+00	mg/kg	M	6.4E-11	mg/kg-day		(mg/kg-day) ⁻¹	
	Iron	2.04E+03	mg/kg	2.04E+03	mg/kg	M	5.3E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	Manganese	2.60E+01	mg/kg	2.60E+01	mg/kg	M	6.7E-10	mg/kg-day		(mg/kg-day) ⁻¹	
	Vanadium	3.79E+00	mg/kg	3.79E+00	mg/kg	M	9.8E-11	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										1.5E-09
Inhalation	Benzo(a)pyrene (equiv)	6.27E-01	mg/kg	6.27E-01	mg/kg	M	1.1E-13	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	3.5E-13
	Hexachlorobenzene	2.96E-01	mg/kg	2.96E-01	mg/kg	M	5.3E-14	mg/kg-day	1.61E+00	(mg/kg-day) ⁻¹	8.6E-14
	Aluminum	1.22E+03	mg/kg	1.22E+03	mg/kg	M	2.2E-10	mg/kg-day		(mg/kg-day) ⁻¹	
	Arsenic	1.18E+00	mg/kg	1.18E+00	mg/kg	M	2.1E-13	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	3.2E-13
	Chromium	4.49E+00	mg/kg	4.49E+00	mg/kg	M	8.1E-13	mg/kg-day	4.20E+01	(mg/kg-day) ⁻¹	3.4E-11
	Copper	2.48E+00	mg/kg	2.48E+00	mg/kg	M	4.5E-13	mg/kg-day		(mg/kg-day) ⁻¹	
	Iron	2.04E+03	mg/kg	2.04E+03	mg/kg	M	3.7E-10	mg/kg-day		(mg/kg-day) ⁻¹	
	Manganese	2.60E+01	mg/kg	2.60E+01	mg/kg	M	4.7E-12	mg/kg-day		(mg/kg-day) ⁻¹	
	Vanadium	3.79E+00	mg/kg	3.79E+00	mg/kg	M	6.8E-13	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										3.5E-11
											3.8E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.5
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF BASE WORKER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	5.0E-08	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	3.1E-08	mg/kg-day	5.70E-03	(mg/kg-day)-1	1.8E-10
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	5.6E-09	mg/kg-day	1.40E-02	(mg/kg-day)-1	7.8E-11
	Butyl benzyl phthalat	4.00E+00	ug/l	4.00E+00	ug/l	M	1.1E-08	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	3.4E-08	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	1.2E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	1.5E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.8E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	8.8E-06	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	1.3E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	1.3E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	5.0E-08	mg/kg-day		(mg/kg-day)-1	
		(total)									
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	6.4E-07	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	9.0E-08	mg/kg-day	1.14E-02	(mg/kg-day)-1	1.0E-09
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	1.2E-06	mg/kg-day	2.80E-02	(mg/kg-day)-1	3.4E-08
	Butyl benzyl phthalat	4.00E+00	ug/l	4.00E+00	ug/l	M	3.4E-06	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	2.3E-07	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	1.1E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	1.4E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.6E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	8.0E-06	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	1.1E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	1.2E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	4.5E-08	mg/kg-day		(mg/kg-day)-1	
		(total)									
											3.6E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.6
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF CONSTRUCTION WORKER TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Excavation Trench
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	7.2E-11	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,2-Dichloroethene (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	7.7E-11	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	4.2E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	3.1E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	3.3E-09	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	4.9E-10	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	7.4E-10
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	6.3E-11	mg/kg-day	2.90E-02	(mg/kg-day) ⁻¹	1.8E-12
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	6.3E-10	mg/kg-day	2.00E-02	(mg/kg-day) ⁻¹	1.3E-11
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	5.9E-11	mg/kg-day	1.30E-02	(mg/kg-day) ⁻¹	7.6E-13
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	3.3E-07	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	1.7E-08	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	1.4E-09	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	3.1E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	2.0E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	2.9E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	4.1E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	1.1E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	6.5E-11	mg/kg-day	1.40E+00	(mg/kg-day) ⁻¹	9.1E-11	
	(total)										8.4E-10
Dermal	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	6.9E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,2-Dichloroethene (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	8.3E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	4.9E-08	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	5.6E-08	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	1.2E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	1.8E-10	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	2.8E-10
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	1.2E-09	mg/kg-day	3.22E-02	(mg/kg-day) ⁻¹	3.8E-11
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	6.2E-08	mg/kg-day	2.50E-02	(mg/kg-day) ⁻¹	1.5E-09
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	2.0E-10	mg/kg-day	1.63E-02	(mg/kg-day) ⁻¹	3.2E-12
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	1.2E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	6.2E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	5.1E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	2.5E-08	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	1.2E-09	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	5.4E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	1.5E-10	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	4.1E-11	mg/kg-day	NA	(mg/kg-day) ⁻¹	
Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	4.1E-10	mg/kg-day	1.40E+00	(mg/kg-day) ⁻¹	5.7E-10	
	(total)										2.4E-09
Inhalation							Inhalation risk assumed to be equal to ingestion risk for VOAs.				9.4E-11
											3.4E-09

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.7
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Trespasser
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.6E-08	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	1.1E-07
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	6.5E-08	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	9.8E-08
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.5E-04	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										2.1E-07
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	9.0E-09	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	7.3E-08
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	3.7E-09	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	5.9E-09
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	8.5E-06	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										7.9E-08
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.54E-12	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	7.8E-12
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.06E-11	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	1.6E-11
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.39E-08	mg/kg-day		(mg/kg-day) ⁻¹	
											2.4E-11
											2.9E-07

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 8.8
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Trespasser
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	9.1E-08	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	5.5E-08	mg/kg-day	5.70E-03	(mg/kg-day)-1	3.2E-10
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	1.0E-08	mg/kg-day	1.40E-02	(mg/kg-day)-1	1.4E-10
	Butyl benzyl phthalat	4.00E+00	ug/l	4.00E+00	ug/l	M	2.0E-08	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	6.0E-08	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	2.2E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	2.8E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	3.3E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.6E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	2.3E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	2.3E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	9.0E-08	mg/kg-day		(mg/kg-day)-1	
	(total)										4.6E-10
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.2E-06	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	1.6E-07	mg/kg-day	1.14E-02	(mg/kg-day)-1	1.9E-09
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	2.2E-06	mg/kg-day	2.80E-02	(mg/kg-day)-1	6.2E-08
	Butyl benzyl phthalat	4.00E+00	ug/l	4.00E+00	ug/l	M	6.1E-06	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	4.2E-07	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	2.0E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	2.5E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	3.0E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.4E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	2.1E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	2.1E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	8.2E-08	mg/kg-day		(mg/kg-day)-1	
	(total)										6.4E-08
											6.4E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.9
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADOLESCENT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current
Medium: Surface Soil (1)
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.7E-08	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	2.0E-07
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.1E-07	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	1.7E-07
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.6E-04	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										3.7E-07
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.4E-08	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	1.9E-07
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	9.8E-09	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	1.6E-08
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.2E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										2.1E-07
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	4.39E-12	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	1.4E-11
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.82E-11	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	2.8E-11
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	4.14E-08	mg/kg-day		(mg/kg-day) ⁻¹	
											4.1E-11
											5.8E-07

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 8.10
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADOLESCENT TRESPASSER TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.6E-07	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	9.6E-08	mg/kg-day	5.70E-03	(mg/kg-day)-1	5.5E-10
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	1.7E-08	mg/kg-day	1.40E-02	(mg/kg-day)-1	2.4E-10
	Butyl benzyl phthalat	4.00E+00	ug/l	4.00E+00	ug/l	M	3.5E-08	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	1.0E-07	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	3.8E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	4.8E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	5.7E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	2.7E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	3.9E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	4.0E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.6E-07	mg/kg-day		(mg/kg-day)-1	
	(total)										7.9E-10
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	1.4E-06	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	2.0E-07	mg/kg-day	1.14E-02	(mg/kg-day)-1	2.3E-09
	Bis(2-ethylhexyl)phth	2.00E+00	ug/l	2.00E+00	ug/l	M	2.8E-06	mg/kg-day	2.80E-02	(mg/kg-day)-1	7.7E-08
	Butyl benzyl phthalat	4.00E+00	ug/l	4.00E+00	ug/l	M	7.6E-06	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	5.2E-07	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	2.5E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	3.1E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	3.7E-08	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	1.8E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	2.6E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	2.6E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	1.0E-07	mg/kg-day		(mg/kg-day)-1	
	(total)										8.0E-08
											8.1E-08

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.11
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADULT TRESPASSER TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	1.5E-07	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	1.1E-06
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	6.1E-07	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	9.2E-07
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	1.4E-03	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										2.0E-06
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	8.4E-08	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	6.8E-07
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	3.5E-08	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	5.5E-08
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	7.9E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										7.3E-07
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.37E-11	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	7.3E-11
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	9.85E-11	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	1.5E-10
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.23E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										2.2E-10
											2.7E-06

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 8.12
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADULT RESIDENT TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Storm Drainage Ditches
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	2.8E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	1.7E-07	mg/kg-day	5.70E-03	(mg/kg-day) ⁻¹	9.8E-10
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	3.1E-08	mg/kg-day	1.40E-02	(mg/kg-day) ⁻¹	4.4E-10
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	6.3E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	1.9E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	6.8E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	8.7E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.0E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	4.9E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	7.1E-06	mg/kg-day		(mg/kg-day) ⁻¹	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	7.2E-08	mg/kg-day		(mg/kg-day) ⁻¹	
Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	2.8E-07	mg/kg-day		(mg/kg-day) ⁻¹		
	(total)										1.4E-09
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	2.6E-06	mg/kg-day		(mg/kg-day) ⁻¹	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	3.8E-07	mg/kg-day	1.14E-02	(mg/kg-day) ⁻¹	4.3E-09
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	4.3E-06	mg/kg-day	2.80E-02	(mg/kg-day) ⁻¹	1.2E-07
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	1.2E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	9.6E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	6.2E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	7.9E-07	mg/kg-day		(mg/kg-day) ⁻¹	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	9.3E-08	mg/kg-day		(mg/kg-day) ⁻¹	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	4.5E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	6.4E-06	mg/kg-day		(mg/kg-day) ⁻¹	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	6.6E-08	mg/kg-day		(mg/kg-day) ⁻¹	
Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	2.6E-07	mg/kg-day		(mg/kg-day) ⁻¹		
	(total)										1.2E-07
											1.3E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

(2) Specify if subchronic.

TABLE 8.13
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF ADULT RESIDENT TO GROUNDWATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater/Air
Exposure Point: Tap Water/Vapor
Receptor Population: Resident
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	6.1E-06	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	6.4E-06	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	3.6E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	2.6E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	2.7E-04	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	4.1E-05	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	6.2E-05
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	5.3E-06	mg/kg-day	2.90E-02	(mg/kg-day) ⁻¹	1.5E-07
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	5.3E-05	mg/kg-day	2.00E-02	(mg/kg-day) ⁻¹	1.1E-06
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	4.9E-06	mg/kg-day	1.30E-02	(mg/kg-day) ⁻¹	6.4E-08
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	2.8E-02	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	1.5E-03	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	1.2E-04	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	2.6E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	1.7E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	2.4E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	3.4E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	9.5E-06	mg/kg-day	NA	(mg/kg-day) ⁻¹	
Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	5.5E-06	mg/kg-day	1.40E+00	(mg/kg-day) ⁻¹	7.7E-06	
	(total)										7.1E-05
Dermal	1,1-Dichloroethane	6.48E-01	ug/l	6.48E-01	ug/l	M	2.9E-07	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,2-Dichloroethane (total)	6.85E-01	ug/l	6.85E-01	ug/l	M	3.5E-07	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	1,3-Dichlorobenzene	3.80E+00	ug/l	3.80E+00	ug/l	M	2.0E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Acenaphthene	2.80E+00	ug/l	2.80E+00	ug/l	M	2.4E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Aluminum	2.92E+01	ug/l	2.92E+01	ug/l	M	4.9E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Arsenic	4.40E+00	ug/l	4.40E+00	ug/l	M	7.4E-08	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	1.2E-07
	Benzene	5.65E-01	ug/l	5.65E-01	ug/l	M	4.9E-07	mg/kg-day	3.22E-02	(mg/kg-day) ⁻¹	1.6E-08
	Carbazole	5.60E+00	ug/l	5.60E+00	ug/l	M	2.6E-05	mg/kg-day	2.50E-02	(mg/kg-day) ⁻¹	6.5E-07
	Chloromethane	5.26E-01	ug/l	5.26E-01	ug/l	M	8.3E-08	mg/kg-day	1.63E-02	(mg/kg-day) ⁻¹	1.3E-09
	Iron	2.98E+03	ug/l	2.98E+03	ug/l	M	5.0E-05	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Manganese	1.55E+02	ug/l	1.55E+02	ug/l	M	2.6E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Molybdenum	1.27E+01	ug/l	1.27E+01	ug/l	M	2.1E-07	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Naphthalene	2.75E+00	ug/l	2.75E+00	ug/l	M	1.0E-05	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Phenol	1.80E+00	ug/l	1.80E+00	ug/l	M	5.0E-07	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Pyridine	2.60E+00	ug/l	2.60E+00	ug/l	M	2.3E-07	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Thallium	3.64E+00	ug/l	3.64E+00	ug/l	M	6.1E-08	mg/kg-day	NA	(mg/kg-day) ⁻¹	
	Vanadium	1.01E+00	ug/l	1.01E+00	ug/l	M	1.7E-08	mg/kg-day	NA	(mg/kg-day) ⁻¹	
Vinyl chloride	5.84E-01	ug/l	5.84E-01	ug/l	M	1.7E-07	mg/kg-day	1.40E+00	(mg/kg-day) ⁻¹	2.4E-07	
	(total)										1.0E-06
Inhalation							Inhalation risk assumed to be equal to ingestion risk for VOAs.				
											7.9E-06
											8.0E-05

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 8.14
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF CHILD RESIDENT TO SURFACE SOIL
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Soil
Exposure Medium: Surface Soil/Air
Exposure Point: Exposed Areas
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	3.4E-07	mg/kg-day	7.30E+00	(mg/kg-day) ⁻¹	2.5E-06
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.4E-06	mg/kg-day	1.50E+00	(mg/kg-day) ⁻¹	2.1E-06
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	3.2E-03	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										4.6E-06
Dermal	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	4.8E-08	mg/kg-day	8.11E+00	(mg/kg-day) ⁻¹	3.9E-07
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	2.0E-08	mg/kg-day	1.58E+00	(mg/kg-day) ⁻¹	3.2E-08
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	4.5E-05	mg/kg-day		(mg/kg-day) ⁻¹	
	(total)										4.2E-07
Inhalation	Benzo(a)pyrene (equiv)	3.13E-01	mg/kg	3.13E-01	mg/kg	M	2.77E-11	mg/kg-day	3.08E+00	(mg/kg-day) ⁻¹	8.5E-11
	Arsenic	1.30E+00	mg/kg	1.30E+00	mg/kg	M	1.15E-10	mg/kg-day	1.51E+00	(mg/kg-day) ⁻¹	1.7E-10
	Iron	2.95E+03	mg/kg	2.95E+03	mg/kg	M	2.61E-07	mg/kg-day		(mg/kg-day) ⁻¹	
											2.6E-10
											5.1E-06

- (1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.
(2) Specify if subchronic.

TABLE 8.15
REASONABLE MAXIMUM EXPOSURE (RME)
CALCULATION OF CANCER RISKS FROM EXPOSURE OF CHILD RESIDENT TO SURFACE WATER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future
Medium: Surface Water
Exposure Medium: Surface Water/Air
Exposure Point: Storm Drainage Ditches
Receptor Population: Resident
Receptor Age: Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	3.7E-06	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	2.2E-06	mg/kg-day	5.70E-03	(mg/kg-day)-1	1.3E-08
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	4.1E-07	mg/kg-day	1.40E-02	(mg/kg-day)-1	5.7E-09
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	8.1E-07	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	2.4E-06	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	8.8E-04	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	1.1E-05	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.3E-06	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	6.4E-04	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	9.2E-05	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	9.4E-07	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	3.6E-06	mg/kg-day		(mg/kg-day)-1	
	(total)										1.8E-08
Dermal	4-Methylphenol	1.80E+01	ug/l	1.80E+01	ug/l	M	3.0E-06	mg/kg-day		(mg/kg-day)-1	
	Aniline	1.10E+01	ug/l	1.10E+01	ug/l	M	4.3E-07	mg/kg-day	1.14E-02	(mg/kg-day)-1	4.9E-09
	Bis(2-ethylhexyl)phthalate	2.00E+00	ug/l	2.00E+00	ug/l	M	4.8E-06	mg/kg-day	2.80E-02	(mg/kg-day)-1	1.4E-07
	Butyl benzyl phthalate	4.00E+00	ug/l	4.00E+00	ug/l	M	1.3E-05	mg/kg-day		(mg/kg-day)-1	
	Phenol	1.20E+01	ug/l	1.20E+01	ug/l	M	1.1E-06	mg/kg-day		(mg/kg-day)-1	
	Aluminum	4.33E+03	ug/l	4.33E+03	ug/l	M	7.0E-05	mg/kg-day		(mg/kg-day)-1	
	Barium	5.52E+01	ug/l	5.52E+01	ug/l	M	8.9E-07	mg/kg-day		(mg/kg-day)-1	
	Chromium	6.50E+00	ug/l	6.50E+00	ug/l	M	1.0E-07	mg/kg-day		(mg/kg-day)-1	
	Iron	3.15E+03	ug/l	3.15E+03	ug/l	M	5.1E-05	mg/kg-day		(mg/kg-day)-1	
	Manganese	4.50E+02	ug/l	4.50E+02	ug/l	M	7.3E-06	mg/kg-day		(mg/kg-day)-1	
	Molybdenum	4.60E+00	ug/l	4.60E+00	ug/l	M	7.4E-08	mg/kg-day		(mg/kg-day)-1	
	Vanadium	1.79E+01	ug/l	1.79E+01	ug/l	M	2.9E-07	mg/kg-day		(mg/kg-day)-1	
	(total)										1.4E-07
											1.6E-07

(1) Specify Medium-Specific (M) or Route-Specific (R) EPC selected for hazard calculation.

TABLE 9.1
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - BASE WORKER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current/Future Receptor Population: Base Worker Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	3.99E-07	5.85E-08	5.43E-11	4.6E-07	Benzo(a)pyrene (equiv)	Skin - Cardiovascular Blood -Gastrointestinal	2.1E-03 4.8E-03	2.9E-05 7.5E-04	7.2E-07 1.8E-05	2.2E-03 5.6E-03
			Arsenic	3.41E-07	4.74E-09	1.11E-10	3.5E-07	Arsenic					
			Iron					Iron					
			(Total)	7.4E-07	6.3E-08	1.6E-10	8.0E-07	(Total)	6.9E-03	7.8E-04	1.9E-05	7.7E-03	
Surface Water	Surface Water	Storm Drainage Ditches	4-Methylphenol					4-Methylphenol	Body Weight, Neurologica	7.0E-05	1.2E-03		1.3E-03
			Aniline	4.4E-10	2.6E-09		3.0E-09	Aniline	Blood	3.8E-04	2.2E-03		2.6E-03
			Bis(2-ethylhexyl)phthalate	2.0E-10	8.6E-08		8.6E-08	Bis(2-ethylhexyl)phthalate	Liver	2.0E-06	8.6E-04		8.6E-04
			Butyl benzyl phthalate					Butyl benzyl phthalate	Liver	3.9E-07	1.2E-04		1.2E-04
			Phenol					Phenol	Developmental	3.9E-07	2.7E-06		3.1E-06
			Aluminum					Aluminum	Body Weight	8.5E-05	1.9E-03		2.0E-03
			Barium					Barium	Cardiovascular	1.5E-05	2.8E-04		3.0E-04
			Chromium					Chromium	Respiratory	4.2E-05	3.0E-03		3.0E-03
			Iron					Iron	Blood, Gastrointestinal	2.1E-04	2.2E-03		2.4E-03
			Manganese					Manganese	Neurological	3.8E-04	8.7E-03		9.1E-03
			Molybdenum					Molybdenum	Gout	1.8E-05	3.6E-05		5.4E-05
			Vanadium					Vanadium	None Specified	5.0E-05	1.7E-03		1.8E-03
						(Total)	6.3E-10	8.9E-08		8.9E-08	(Total)	1.2E-03	2.2E-02		2.3E-02

Total Risk Across Surface Soil = 8.0E-07
 Total Risk Across Surface Water = 8.9E-08

Total Hazard Index Across All Media and All Exposure Routes = 3.1E-02

Total Risk Across All Media and All Exposure Routes = 8.9E-07

Total Blood HI = 1.1E-02
 Total Skin HI = 2.2E-03
 Total Cardiovascular HI = 2.4E-03
 Total Gastrointestinal HI = 8.0E-03
 Total Body Weight HI = 3.3E-03
 Total Neurological HI = 1.0E-02
 Total Liver HI = 9.8E-04
 Total Developmental HI = 3.1E-06
 Total Respiratory HI = 3.0E-03
 Total Gout HI = 5.4E-05

TABLE 9.2
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - CONSTRUCTION WORKER
GROUP IV
NAVAL STATION MAYPORT

Scenario Timeframe: Current/Future Receptor Population: Construction Worker Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater	Groundwater/Air	Excavation Trench	1,1-Dichloroethane					1,1-Dichloroethane	Kidney	5.1E-08	4.8E-07	5.1E-08	5.9E-07
			1,2-Dichloroethane (total)					1,2-Dichloroethane (total)	Blood, Liver	6.0E-07	8.0E-06	6.0E-07	9.2E-06
			1,3-Dichlorobenzene					1,3-Dichlorobenzene	None Specified	9.9E-07	1.4E-04	9.9E-07	1.4E-04
			Acenaphthene					Acenaphthene	Liver	3.7E-07	1.3E-04		1.3E-04
			Aluminum					Aluminum	Body Weight	2.3E-07	2.1E-06		2.3E-06
			Arsenic	7.4E-10	2.8E-10		1.0E-09	Arsenic	Skin - Cardiovascular	1.1E-04	4.3E-05		1.6E-04
			Benzene	1.8E-12	3.8E-11	1.8E-12	4.1E-11	Benzene					
			Carbazole	1.3E-11	1.5E-09		1.6E-09	Carbazole					
			Chloromethane	7.6E-13	3.2E-12	7.6E-13	4.7E-12	Chloromethane					
			Iron					Iron	Blood, Gastrointestinal	7.8E-05	3.3E-04		4.1E-04
			Manganese					Manganese	Neurological	5.3E-05	4.8E-04		5.3E-04
			Molybdenum					Molybdenum	Gout	2.0E-05	1.6E-05		3.6E-05
			Naphthalene					Naphthalene	Body Weight/ Nasal	1.1E-06	8.7E-05		8.9E-05
			Phenol					Phenol	Developmental	2.3E-08	1.4E-07		1.6E-07
			Pyridine					Pyridine	Liver	2.0E-05	5.7E-05		7.7E-05
			Thallium					Thallium					
			Vanadium					Vanadium	None Specified	1.1E-06	1.6E-05		1.7E-05
			Vinyl chloride	9.1E-11	5.7E-10	9.1E-11	7.5E-10	Vinyl chloride	None Specified	1.5E-06	9.5E-06	1.5E-06	1.3E-05
			(Total)	8.4E-10	2.4E-09	9.4E-11	3.4E-09	(Total)		2.9E-04	1.3E-03	3.2E-06	1.6E-03
Surface Water	Surface Water	Storm Drainage Ditches	4-Methylphenol					4-Methylphenol	Body Weight, Neurological	2.8E-05	4.8E-04		5.1E-04
			Aniline	1.8E-10	1.0E-09		1.2E-09	Aniline	Blood	1.5E-04	8.9E-04		1.0E-03
			Bis(2-ethylhexyl)phthalate	7.8E-11	3.4E-08		3.4E-08	Bis(2-ethylhexyl)phthalate	Liver	7.8E-07	3.4E-04		3.4E-04
			Butyl benzyl phthalate					Butyl benzyl phthalate	Liver	1.6E-07	4.7E-05		4.7E-05
			Phenol					Phenol	Developmental	1.6E-07	1.1E-06		1.2E-06
			Aluminum					Aluminum	Body Weight	3.4E-05	7.7E-04		8.0E-04
			Barium					Barium	Cardiovascular	6.2E-06	1.1E-04		1.2E-04
			Chromium					Chromium	Respiratory	1.7E-05	1.2E-03		1.2E-03
			Iron					Iron	Blood, Gastrointestinal	8.2E-05	8.8E-04		9.6E-04
			Manganese					Manganese	Neurological	1.5E-04	3.5E-03		3.6E-03
			Molybdenum					Molybdenum	Gout	7.2E-06	1.5E-05		2.2E-05
			Vanadium					Vanadium	None Specified	2.0E-05	7.0E-04		7.2E-04
			(Total)	2.5E-10	3.5E-08		3.6E-08	(Total)		5.0E-04	8.9E-03		9.4E-03

TABLE 9.2
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - CONSTRUCTION WORKER
GROUP IV
NAVAL STATION MAYPORT

Scenario Timeframe: Current/Future Receptor Population: Construction Worker Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient								
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total				
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	1.2E-08	6.6E-10	1.7E-13	1.3E-08	Benzo(a)pyrene (equiv)	Skin - Cardiovascular Blood -Gastrointestinal	1.6E-03 3.7E-03	8.2E-06 2.1E-04	5.8E-08 1.5E-06	1.6E-03 3.9E-03				
			Arsenic	1.0E-08	5.3E-11	3.5E-13	1.1E-08										
			(Total)	2.3E-08	7.1E-10	5.3E-13	2.3E-08	(Total)						5.3E-03	2.2E-04	1.5E-06	5.5E-03
Subsurface Soil	Soil	Excavations	Benzo(a)pyrene (equiv)	2.5E-08	1.3E-09	3.5E-13	2.6E-08	Benzo(a)pyrene (equiv)	Liver Body Weight Skin - Cardiovascular Respiratory Gastrointestinal Blood, Gastrointestinal Neurological None Specified	1.4E-04 4.6E-04 1.5E-03 5.6E-04 2.5E-05 2.6E-03 4.2E-04 2.0E-04	8.4E-06 5.5E-05 7.5E-06 1.4E-04 2.5E-05 1.4E-04 5.1E-05 3.8E-05	5.8E-09 1.5E-05 5.2E-08 2.0E-06 1.0E-06 2.3E-05 2.6E-07	1.5E-04 5.3E-04 1.5E-03 7.0E-04 2.5E-05 2.7E-03 5.0E-04 2.4E-04				
			Hexachlorobenzene	2.5E-09	1.5E-10	8.6E-14	2.7E-09										
			Aluminum														
			Arsenic	9.5E-09	4.8E-11	3.2E-13	9.6E-09										
			Chromium			3.4E-11	3.4E-11										
			Copper														
			Iron														
			Manganese														
			Vanadium														
			(Total)	3.7E-08	1.5E-09	3.5E-11	3.8E-08	(Total)						5.9E-03	4.4E-04	4.2E-05	6.3E-03
			Total Risk Across Surface Soil											2.3E-08	Total Hazard Index Across All Media and All Exposure Routes					2.3E-02
Total Risk Across Subsurface Soil							3.8E-08										
Total Risk Across Groundwater							3.4E-09										
Total Risk Across Surface Water							3.6E-08										
Total Risk Across All Media and All Exposure Routes							1.0E-07										
								Total Kidney HI =					5.9E-07				
								Total Blood HI =					9.0E-03				
								Total Liver HI =					7.6E-04				
								Total Body Weight HI =					1.9E-03				
								Total Skin HI =					3.3E-03				
								Total Cardiovascular HI =					3.4E-03				
								Total Gastrointestinal HI =					5.3E-03				
								Total Neurological HI =					5.2E-03				
								Total Gout HI =					5.7E-05				
								Total Nasal HI =					8.9E-05				
								Total Developmental HI =					1.4E-06				
								Total Respiratory HI =					1.9E-03				

**TABLE 9.3
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - TRESPASSER ADULT
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1**

Scenario Timeframe: Current/Future Receptor Population: Trespasser Receptor Age: Adult
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Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	1.15E-07	7.28E-08	7.82E-12	1.9E-07	Benzo(a)pyrene (equiv)	Skin - Cardiovascular Blood -Gastrointestinal	7.6E-04 1.7E-03	4.6E-05 1.2E-03	1.3E-07 3.3E-06	8.1E-04 2.9E-03
			Arsenic	9.81E-08	5.89E-09	1.59E-11	1.0E-07	Arsenic					
			Iron					Iron					
			(Total)	2.1E-07	7.9E-08	2.4E-11	2.9E-07	(Total)		2.5E-03	1.2E-03	3.4E-06	3.7E-03
Surface Water	Surface Water	Storm Drainage Ditches	4-Methylphenol					4-Methylphenol	Body Weight, Neurological	6.3E-05	1.1E-03		1.2E-03
			Aniline	3.2E-10	1.9E-09		2.2E-09	Aniline	Blood	3.4E-04	2.0E-03		2.3E-03
			Bis(2-ethylhexyl)phthalate	1.4E-10	6.2E-08		6.2E-08	Bis(2-ethylhexyl)phthalate	Liver	1.8E-06	7.7E-04		7.8E-04
			Butyl benzyl phthalate					Butyl benzyl phthalate	Liver	3.5E-07	1.1E-04		1.1E-04
			Phenol					Phenol	Developmental	3.5E-07	2.4E-06		2.8E-06
			Aluminum					Aluminum	Body Weight	7.6E-05	1.7E-03		1.8E-03
			Barium					Barium	Cardiovascular	1.4E-05	2.5E-04		2.7E-04
			Chromium					Chromium	Respiratory	3.8E-05	2.7E-03		2.7E-03
			Iron					Iron	Blood, Gastrointestinal	1.8E-04	2.0E-03		2.2E-03
			Manganese					Manganese	Neurological	3.4E-04	7.8E-03		8.2E-03
			Molybdenum					Molybdenum	Gout	1.6E-05	3.3E-05		4.9E-05
			Vanadium					Vanadium	None Specified	4.5E-05	1.6E-03		1.6E-03
						(Total)	4.6E-10	6.4E-08		6.4E-08	(Total)		1.1E-03	2.0E-02		2.1E-02
Total Risk Across Surface Soil							2.9E-07	Total Hazard Index Across All Media and All Exposure Routes					2.5E-02
Total Risk Across Surface Water							6.4E-08						

Total Risk Across All Media and All Exposure Routes = 3.6E-07

Total Blood HI =	7.4E-03
Total Skin HI =	8.1E-04
Total Cardiovascular HI =	1.1E-03
Total Gastrointestinal HI =	5.1E-03
Total Body Weight HI =	3.0E-03
Total Neurological HI =	9.3E-03
Total Liver HI =	8.8E-04
Total Developmental HI =	2.8E-06
Total Respiratory HI =	2.7E-03
Total Gout HI =	4.9E-05

TABLE 9.4
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - TRESPASSER ADOLESCENT
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current/Future Receptor Population: Trespasser Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	2.0E-07	1.9E-07	1.4E-11	3.9E-07	Benzo(a)pyrene (equiv)					
			Arsenic	1.7E-07	1.6E-08	2.8E-11	1.9E-07	Arsenic	Skin - Cardiovascular	2.6E-03	2.4E-04	4.5E-07	2.9E-03
			Iron					Iron	Blood -Gastrointestinal	6.0E-03	6.1E-03	1.1E-05	1.2E-02
			(Total)	3.7E-07	2.1E-07	4.1E-11	5.8E-07	(Total)		8.6E-03	6.4E-03	1.2E-05	1.5E-02
Surface Water	Surface Water	Storm Drainage Ditches	4-Methylphenol					4-Methylphenol	Body Weight, Neurological	2.2E-04	2.7E-03		2.9E-03
			Aniline	5.5E-10	2.3E-09		2.9E-09	Aniline	Blood	1.2E-03	5.0E-03		6.2E-03
			Bis(2-ethylhexyl)phthalate	2.4E-10	7.7E-08		7.8E-08	Bis(2-ethylhexyl)phthalate	Liver	6.1E-06	1.9E-03		1.9E-03
			Butyl benzyl phthalate					Butyl benzyl phthalate	Liver	1.2E-06	2.6E-04		2.7E-04
			Phenol					Phenol	Developmental	1.2E-06	6.1E-06		7.3E-06
			Aluminum					Aluminum	Body Weight	2.6E-04	4.3E-03		4.6E-03
			Barium					Barium	Cardiovascular	4.8E-05	6.3E-04		6.8E-04
			Chromium					Chromium	Respiratory	1.3E-04	6.7E-03		6.8E-03
			Iron					Iron	Blood, Gastrointestinal	6.4E-04	4.9E-03		5.6E-03
			Manganese					Manganese	Neurological	1.2E-03	2.0E-02		2.1E-02
			Molybdenum					Molybdenum	Gout	5.6E-05	8.2E-05		1.4E-04
			Vanadium					Vanadium	None Specified	1.6E-04	3.9E-03		4.1E-03
			(Total)	7.9E-10	8.0E-08		8.1E-08	(Total)		3.9E-03	5.0E-02		5.4E-02

Total Risk Across Surface Soil = 5.8E-07
 Total Risk Across Surface Water = 8.1E-08

Total Hazard Index Across All Media and All Exposure Routes = 6.9E-02

Total Risk Across All Media and All Exposure Routes = 6.6E-07

Total Blood HI =	2.4E-02
Total Skin HI =	2.9E-03
Total Cardiovascular HI =	3.6E-03
Total Gastrointestinal HI =	1.8E-02
Total Body Weight HI =	7.5E-03
Total Neurological HI =	2.4E-02
Total Liver HI =	2.2E-03
Total Developmental HI =	7.3E-06
Total Respiratory HI =	6.8E-03
Total Gout HI =	1.4E-04

**TABLE 9.5
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCS - RESIDENT ADULT
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1**

Scenario Timeframe: Future Receptor Population: Resident Receptor Age: Adult
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Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient					
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total	
Groundwater	Groundwater/Air	Excavation Trench	1,1-Dichloroethane					1,1-Dichloroethane	Kidney	1.8E-04	8.5E-06	1.8E-04	3.6E-04	
			1,2-Dichloroethane (total)					1,2-Dichloroethane (total)	Blood, Liver	2.1E-03	1.4E-04	2.1E-03	4.3E-03	
			1,3-Dichlorobenzene					1,3-Dichlorobenzene	None Specified	3.5E-03	2.5E-03	3.5E-03	9.4E-03	
			Acenaphthene					Acenaphthene	Liver	1.3E-03	2.3E-03		3.6E-03	
			Aluminum					Aluminum	Body Weight	8.0E-04	3.6E-05		8.4E-04	
			Arsenic	6.2E-05	1.2E-07		6.2E-05	Arsenic	Skin - Cardiovascular	4.0E-01	7.6E-04		4.0E-01	
			Benzene	1.5E-07	1.6E-08	1.5E-07	3.2E-07	Benzene						
			Carbazole	1.1E-06	6.5E-07		1.7E-06	Carbazole						
			Chloromethane	6.4E-08	1.3E-09	6.4E-08	1.3E-07	Chloromethane						
			Iron					Iron	Blood, Gastrointestinal	2.7E-01	5.8E-03		2.8E-01	
			Manganese					Manganese	Neurological	1.8E-01	8.3E-03		1.9E-01	
			Molybdenum					Molybdenum	Gout	7.0E-02	2.8E-04		7.0E-02	
			Naphthalene					Naphthalene	Body Weight/ Nasal	3.8E-03	1.5E-03		5.3E-03	
			Phenol					Phenol	Developmental	8.2E-05	2.4E-06		8.5E-05	
			Pyridine					Pyridine	Liver	7.1E-02	9.9E-04		7.2E-02	
			Thallium					Thallium						
			Vanadium					Vanadium	None Specified	4.0E-03	2.7E-04		4.2E-03	
Vinyl chloride	7.7E-06	2.4E-07	7.7E-06	1.6E-05	Vinyl chloride	None Specified	5.3E-03	1.7E-04	5.3E-03	1.1E-02				
			(Total)	7.1E-05	1.0E-06	7.9E-06	8.0E-05	(Total)	1.0E+00	2.3E-02	1.1E-02	1.1E+00		
Surface Water	Surface Water	Storm Drainage Ditches	4-Methylphenol					4-Methylphenol	Body Weight, Neurological	1.6E-04	2.1E-03		2.2E-03	
			Aniline	9.8E-10	4.3E-09		5.3E-09	Aniline	Blood	8.8E-04	3.9E-03		4.7E-03	
			Bis(2-ethylhexyl)phthalate	4.4E-10	1.2E-07		1.2E-07	Bis(2-ethylhexyl)phthalate	Liver	4.6E-06	1.2E-03		1.3E-03	
			Butyl benzyl phthalate					Butyl benzyl phthalate	Liver	9.2E-07	1.7E-04		1.7E-04	
			Phenol					Phenol	Developmental	9.2E-07	4.7E-06		5.6E-06	
			Aluminum					Aluminum	Body Weight	2.0E-04	4.5E-03		4.7E-03	
			Barium					Barium	Cardiovascular	3.6E-05	6.6E-04		6.9E-04	
			Chromium					Chromium	Respiratory	9.9E-05	6.9E-03		7.0E-03	
			Iron					Iron	Blood, Gastrointestinal	4.8E-04	5.1E-03		5.6E-03	
			Manganese					Manganese	Neurological	9.0E-04	2.0E-02		2.1E-02	
			Molybdenum					Molybdenum	Gout	4.2E-05	8.5E-05		1.3E-04	
			Vanadium					Vanadium	None Specified	1.2E-04	4.1E-03		4.2E-03	
						(Total)	1.4E-09	1.2E-07		1.3E-07	(Total)	2.9E-03	4.9E-02	
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	1.1E-06	6.8E-07	7.3E-11	1.8E-06	Benzo(a)pyrene (equiv)						
			Arsenic	9.2E-07	5.5E-08	1.5E-10	9.7E-07	Arsenic	Skin - Cardiovascular	5.9E-03	3.6E-04	1.0E-06	6.3E-03	
			Iron					Iron	Blood -Gastrointestinal	1.3E-02	9.0E-03	2.6E-05	2.9E-02	
			(Total)	2.0E-06	7.3E-07	2.2E-10	2.7E-06	(Total)		1.9E-02	9.4E-03	2.7E-05	2.9E-02	
			(Total)	2.7E-06				(Total)	2.9E-03	4.9E-02		5.2E-02		
			Total Risk Across Surface Soil				2.7E-06		Total Hazard Index Across All Media and All Exposure Routes					1.1E+00
			Total Risk Across Groundwater				8.0E-05							
			Total Risk Across Surface Water				1.3E-07							
			Total Risk Across All Media and All Exposure Routes				8.3E-05							

Total Risk Across Surface Soil	2.7E-06	Total Hazard Index Across All Media and All Exposure Routes	1.1E+00
Total Risk Across Groundwater	8.0E-05	Total Kidney HI =	3.6E-04
Total Risk Across Surface Water	1.3E-07	Total Blood HI =	3.2E-01
Total Risk Across All Media and All Exposure Routes	8.3E-05	Total Liver HI =	8.2E-02
		Total Body Weight HI =	1.3E-02
		Total Skin HI =	4.1E-01
		Total Cardiovascular HI =	4.1E-01
		Total Gastrointestinal HI =	3.1E-01
		Total Neurological HI =	2.2E-01
		Total Gout HI =	7.0E-02
		Total Nasal HI =	5.3E-03
		Total Developmental HI =	9.0E-05
		Total Respiratory HI =	7.0E-03

TABLE 9.6
REASONABLE MAXIMUM EXPOSURE (RME)
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs - RESIDENT CHILD
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future Receptor Population: Resident Receptor Age: Child
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Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total		Primary Target Organ	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater	Groundwater/Air	Excavation Trench	1,1-Dichloroethane					1,1-Dichloroethane	Kidney	4.1E-04	1.5E-05	4.1E-04	8.4E-04
			1,2-Dichloroethene (total)					1,2-Dichloroethene (total)	Blood, Liver	4.9E-03	2.4E-04	4.9E-03	1.0E-02
			1,3-Dichlorobenzene					1,3-Dichlorobenzene	None Specified	8.1E-03	4.2E-03	8.1E-03	2.0E-02
			Acenaphthene					Acenaphthene	Liver	3.0E-03	3.9E-03		6.9E-03
			Aluminum					Aluminum	Body Weight	1.9E-03	6.2E-05		1.9E-03
			Arsenic	3.6E-05	5.0E-08		3.6E-05	Arsenic	Skin - Cardiovascular	9.4E-01	1.3E-03		9.4E-01
			Benzene	9.0E-08	6.8E-09	9.0E-08	1.9E-07	Benzene					
			Carbazole	6.1E-07	2.8E-07		8.9E-07	Carbazole					
			Chloromethane	3.7E-08	5.8E-10	3.7E-08	7.6E-08	Chloromethane					
			Iron					Iron	Blood, Gastrointestinal	1.7E-01	2.7E-03		1.8E-01
			Manganese					Manganese	Neurological	4.3E-01	1.4E-02		4.5E-01
			Molybdenum					Molybdenum	Gout	1.6E-01	4.8E-04		1.6E-01
			Naphthalene					Naphthalene	Body Weight/ Nasal	8.8E-03	2.6E-03		1.1E-02
			Phenol					Phenol	Developmental	1.9E-04	4.2E-06		2.0E-04
			Pyridine					Pyridine	Liver	1.7E-01	1.7E-03		1.7E-01
			Thallium					Thallium		2.6E-01	2.3E-03		2.6E-01
			Vanadium					Vanadium	None Specified	9.2E-03	4.7E-04		9.7E-03
Vinyl chloride	4.5E-06	1.0E-07	4.5E-06	9.1E-06	Vinyl chloride	None Specified	1.2E-02	2.8E-04	1.2E-02	2.5E-02			
			(Total)	4.1E-05	4.4E-07	4.6E-06	4.6E-05	(Total)	2.2E+00	3.5E-02	2.6E-02	2.7E+00	
Surface Water	Surface Water	Storm Drainage Ditches	4-Methylphenol				1.8E-08	4-Methylphenol	Body Weight, Neurological	8.5E-03	9.3E-03		1.8E-02
			Aniline	1.3E-08	4.9E-09			Aniline	Blood	4.6E-02	1.7E-02		6.3E-02
			Bis(2-ethylhexyl)phthalate	5.7E-09	1.4E-07		1.4E-07	Bis(2-ethylhexyl)phthalate	Liver	2.4E-04	5.7E-03		5.9E-03
			Butyl benzyl phthalate					Butyl benzyl phthalate	Liver	4.7E-05	7.7E-04		8.2E-04
			Phenol					Phenol	Developmental	4.7E-05	2.1E-05		6.9E-05
			Aluminum					Aluminum	Body Weight	1.0E-02	2.0E-02		3.1E-02
			Barium					Barium	Cardiovascular	1.9E-03	3.0E-03		4.8E-03
			Chromium					Chromium	Respiratory	5.1E-03	3.1E-02		3.7E-02
			Iron					Iron	Blood, Gastrointestinal	6.8E-03	6.3E-03		1.3E-02
			Manganese					Manganese	Neurological	4.6E-02	9.2E-02		1.4E-01
			Molybdenum					Molybdenum	Gout	2.2E-03	3.8E-04		2.6E-03
Vanadium					Vanadium	None Specified	6.1E-03	1.9E-02		2.5E-02			
			(Total)	1.8E-08	1.4E-07		1.6E-07	(Total)	1.3E-01	2.1E-01		3.4E-01	
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	2.5E-06	3.9E-07	8.5E-11	2.9E-06	Benzo(a)pyrene (equiv)					
			Arsenic	2.1E-06	3.2E-08	1.7E-10	2.2E-06	Arsenic	Skin - Cardiovascular	5.5E-02	8.2E-04	4.7E-06	5.6E-02
			Iron					Iron	Blood -Gastrointestinal	3.4E-02	5.6E-03	1.2E-04	4.0E-02
			(Total)	4.6E-06	4.2E-07	2.6E-10	5.1E-06	(Total)	9.0E-02	6.5E-03	1.2E-04	9.6E-02	

Total Risk Across Surface Soil	5.1E-06	Total Hazard Index Across All Media and All Exposure Routes	2.7E+00
Total Risk Across Groundwater	4.6E-05	Total Kidney HI =	8.4E-04
Total Risk Across Surface Water	1.6E-07	Total Blood HI =	3.0E-01
Total Risk Across All Media and All Exposure Routes	5.2E-05	Total Liver HI =	1.9E-01
		Total Body Weight HI =	6.2E-02
		Total Skin HI =	9.9E-01
		Total Cardiovascular HI =	1.0E+00
		Total Gastrointestinal HI =	2.3E-01
		Total Neurological HI =	6.0E-01
		Total Gout HI =	1.7E-01
		Total Nasal HI =	1.1E-02
		Total Developmental HI =	2.6E-04
		Total Respiratory HI =	3.7E-02

TABLE 10.1
REASONABLE MAXIMUM EXPOSURE (RME)
RISK ASSESSMENT SUMMARY - BASE WORKER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current/Future Receptor Population: Base Worker Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient					
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total	
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	6.8E-06	9.3E-10	1.0E-06	7.8E-06	Total non-carcinogenic hazard index was less than 1						
			(Total)	6.8E-06	9.3E-10	1.0E-06	7.8E-06							
Surface Water	Surface Water	Storm Drainage	No Surface Water COPCs exceeded a risk of 1.0E-06											
				Total Risk Across Surface Soil				7.8E-06	Total Hazard Index Across All Media and All Exposure Routes					
				Total Risk Across Surface Water										
				Total Risk Across All Media and All Exposure Routes				7.8E-06						

TABLE 10.2
REASONABLE MAXIMUM EXPOSURE (RME)
RISK ASSESSMENT SUMMARY - CONSTRUCTION WORKER
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current/Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
			Total cancer risk was less than 1E-06				Total non-carcinogenic hazard index was less than 1						
				Total Risk Across Surface Soil					Total Hazard Index Across All Media and All Exposure Routes				
				Total Risk Across Subsurface Soil									
				Total Risk Across Groundwater									
				Total Risk Across Surface Water									
				Total Risk Across All Media and All Exposure Routes									

TABLE 10.3
REASONABLE MAXIMUM EXPOSURE (RME)
RISK ASSESSMENT SUMMARY - TRESPASSER ADULT
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current/Future
Receptor Population: Trespasser
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	1.96E-06	1.34E-10	1.24E-06	3.2E-06	Total non-carcinogenic hazard index was less than 1					
			(Total)	2.0E-06	1.3E-10	1.2E-06	3.2E-06						
Surface Water	Surface Water	Storm Drainage	No Surface Water COPCs exceeded a risk of 1.0E-06										
				Total Risk Across Surface Soil				3.2E-06	Total Hazard Index Across All Media and All Exposure Routes				
				Total Risk Across Surface Water									
				Total Risk Across All Media and All Exposure Routes				3.2E-06					

TABLE 10.4
REASONABLE MAXIMUM EXPOSURE (RME)
RISK ASSESSMENT SUMMARY - TRESPASSER ADOLESCENT
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Current/Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	3.4E-06	2.3E-10	3.3E-06	6.7E-06	Total non-carcinogenic hazard index was less than 1					
			(Total)	3.4E-06	2.3E-10	3.3E-06	6.7E-06						
Surface Water	Surface Water	Storm Drainage	No Surface Water COPCs exceeded a risk of 1.0E-06										
				Total Risk Across Surface Soil				6.7E-06	Total Hazard Index Across All Media and All Exposure Routes				
				Total Risk Across Surface Water									
				Total Risk Across All Media and All Exposure Routes				6.7E-06					

TABLE 10.5
REASONABLE MAXIMUM EXPOSURE (RME)
RISK ASSESSMENT SUMMARY - RESIDENT ADULT
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future Receptor Population: Resident Receptor Age: Adult
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Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater/Air	Excavation Trench	Arsenic	6.2E-05		1.2E-07	6.2E-05	Noncarcinogenic hazard quotients were less than 1.0					
			Carbazole	1.1E-06		6.5E-07	1.7E-06						
			Vinyl chloride	7.7E-06	7.7E-06	2.4E-07	1.6E-05						
			(Total)	7.1E-05	7.7E-06	1.0E-06	7.9E-05						
Surface Water	Surface Water	Storm Drainage	No Surface Water COPCs exceeded a risk of 1.0E-06										
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	1.8E-05	1.2E-09	1.2E-05	3.0E-05						
			Aroclor 1260	7.5E-07	1.2E-10	5.0E-07	1.3E-06						
			(Total)	1.9E-05	1.4E-09	1.2E-05	3.1E-05						
				Total Risk Across Surface Soil				Total Hazard Index Across All Media and All Exposure Routes					
								3.1E-05					
				Total Risk Across Groundwater				7.9E-05					
				Total Risk Across Surface Water									
				Total Risk Across All Media and All Exposure Routes				1.1E-04					

TABLE 10.6
REASONABLE MAXIMUM EXPOSURE (RME)
RISK ASSESSMENT SUMMARY - RESIDENT CHILD
GROUP IV
NAVAL STATION MAYPORT
PAGE 1 OF 1

Scenario Timeframe: Future Receptor Population: Resident Receptor Age: Child
--

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Groundwater/Air	Excavation Trench	Arsenic	3.6E-05		5.0E-08	3.6E-05	Noncarcinogenic hazard quotients were less than 1.0					
			Vinyl chloride	4.5E-06	4.5E-06	1.0E-07	9.1E-06						
			(Total)	4.1E-05	4.5E-06	1.5E-07	4.5E-05						
Surface Water	Surface Water	Storm Drainage	No Surface Water COPCs exceeded a risk of 1.0E-06										
Surface Soil	Soil	Exposed Areas	Benzo(a)pyrene (equiv)	4.3E-05	1.5E-09	6.7E-06	4.9E-05						
			Aroclor 1260	1.8E-06	1.4E-10	2.9E-07	2.0E-06						
			Arsenic	2.1E-06	1.7E-10	3.2E-08	2.2E-06						
			(Total)	4.7E-05	1.8E-09	7.0E-06	5.4E-05						
				Total Risk Across Surface Soil			5.4E-05						
				Total Risk Across Groundwater			4.5E-05						
				Total Risk Across Surface Water									
				Total Risk Across All Media and All Exposure Routes			9.9E-05						