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CONSTRUCTION COMPLETION REPORT FOR INSTALLATION OF AIR SPARGING SYSTEMS AT JET ENGINE TEST CELL AND BUILDING 271 NAS CECIL FIELD FL

11/1/2004

CH2MHILL CONSTRUCTORS INC

Construction Completion Report

Installation of Air Sparging Systems at the Jet Engine Test Cell and Building 271

Former Naval Air Station Cecil Field Jacksonville, Florida

Revision No. 00

Contract No. N62467-98-D-0995
Contract Task Order No. 0086

Submitted to

U. S. Naval Facilities
Engineering Command
Southern Division

Prepared by

CH2MHILL

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

November 2004

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November 2004

Prepared/Approved By:

Sam Naik, Project Manager — Date

Approved By:

Scott Smith, Deputy Program Manager — Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

CERTIFICATE OF COMPLETION

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the installation of air sparging systems at the Jet Engine Test Cell and Building 271, delivered under Contract No. N62467-98-D-0995, Contract Task Order No. 0086, has been completed, inspected, and tested, and is in compliance with the contract.

Scott Sloan (in absentia)_____ _____
Project Quality Control Manager Date

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- Transportation and Disposal Log
- Non-hazardous Waste Profiles
- Non-hazardous Waste Manifests
- Certificates of Disposal

Acronyms

ABB-ES	ABB Environmental Services, Inc.
Aerostar	Aerostar Environmental Services
AS	air sparge
AST	aboveground storage tank
ASTM	American Society of Testing and Materials
bls	below land surface
BTEX	benzene, ethylbenzene, toluene, and xylenes
CA	Contamination Assessment
CAR	Contamination Assessment Report
CARA	Contamination Assessment Report Addendum
CFR	Code of Federal Regulation
CH2M HILL	CH2M HILL Constructors, Inc.
CSR	Confirmatory Sampling Report
CTO	Contract Task Order
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
FL PRO	Florida Petroleum Residual Organic
GCTLs	Groundwater Cleanup Target Levels
HLA	Harding Lawson Associates
JETC	Jet Engine Test Cell
LCAR	Limited Closure Assessment Reports
MTBE	methyl tert butyl ether
NAS	Naval Air Station
NAVFAC EFD SOUTH	Department of the Navy, Southern Division, Naval Facilities Engineering Command
O&M	operation and maintenance
OVA	organic vapor analyzer

OWS	oil-water separator
PAHs	polynuclear aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCW	petroleum contact water
PPE	personal protective equipment
ppm	parts per million
psi	pounds per square inch
psig	pounds per square inch gauge
PVC	polyvinyl chloride
PWC	Public Works Center
QC	quality control
RAP	Remedial Action Plan
RAPA	Remedial Action Plan Addendum
SA	Site Assessment
SARA	Site Assessment Report Addendum
scfm	standard cubic feet per minute
SCTLs	Soil Cleanup Target Levels
SVOC	Semi-volatile organic compound
T&D	transportation and disposal
TAL	Total Analyte List
TCL	Target Compound List
TCL	Target Compound List
TCLP	Toxicity characteristic leaching procedure
TRPH	Total Recoverable Petroleum Hydrocarbons
TtNUS	Tetra Tech NUS, Inc.
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

Executive Summary

This report presents a summary of the construction activities associated with installing air sparge systems at the Building 271 and the Jet Engine Test Cell (JETC) sites, located at Former Naval Air Station Cecil Field, Jacksonville, Florida, from September 8, 2003, through November 24, 2003. Site activities performed during this period include soil excavation and backfilling, sampling and analysis, waste transport and disposal, well installation, surveying, and site restoration. In addition, air sparge system startup and operation and maintenance data were reported in a separate report.

Site History

Building 271

Building 271 is a former retail gasoline facility that previously contained four underground storage tanks (USTs) (designated 271-D, 271-R, 271-UL, and 271-SUL) and two oil/water separators (OWSs). Groundwater contamination is attributed to previous operations, but reports indicate that none were associated with the OWSs. The results of previous investigations performed by others concluded that petroleum constituents exist in groundwater near the previous locations of the OWSs.

JETC

The JETC facility was previously used by the Navy and is currently being used by the private sector to test jet engines. Jet engines were mounted and operated in Buildings 334, 339, and 811. Building 811 was demolished and only the foundation remains (TtNUS, 2002b). Petroleum storage and handling units (two USTs, two OWSs, and two aboveground storage tanks) were associated with the JETC facility. The results of previous investigations performed by others concluded that petroleum contaminated soil and petroleum constituents exist in groundwater near the previous locations of one of the OWSs.

Site Remedies

Air Sparge System

Air sparge systems were installed at the Building 271 and the JETC sites to remediate contaminated groundwater. Each system consists of an air compressor, receiver tank, air dryer with filters, process piping, ancillary controls and gauges and air sparge wells. Seven air sparge wells, identified as AS-01 through AS-07, were installed to depths of 26 feet bls Ten air sparge wells, identified as AS-01 through AS-10, were installed at JETC from September 12 to 16, 2003, to a depth of 30 feet bls. A Florida-certified well driller installed the wells. Waste generated by the drilling and well installation activities was disposed offsite.

A total of 950 gallons of petroleum-contaminated water (generated from well installation and development, equipment decontamination) were transported offsite for disposal by recycle.

Soil Removal at JETC

Based on disposal facility weight tickets, 162.75 tons of non-hazardous soils were excavated and disposed offsite. The soil excavation activities at the JETC site were conducted from September 30 to October 1, 2003. The petroleum-contaminated soils were excavated to the established horizontal limits and to one foot below the water table. The proposed horizontal limits were specified in the Florida Department of Environmental Protection (FDEP) approved Remedial Action Plan (TtNUS, NUS, 2002b); established horizontal limits were based on the results of pre-excavation soil screening for delineation sampling performed in September 2003 by CH2M HILL.

Path Forward

The air sparge systems were installed to remediate contaminated groundwater to FDEP Groundwater Cleanup Target Levels (GCTLs) at the Building 271 and JETC sites. CH2M HILL will perform operation and maintenance of the systems and continue to monitor the groundwater quality quarterly for one year or until treatment of petroleum contaminants is complete. The site remedy will be fully implemented when the groundwater is remediated in the respective plumes.

The objectives of the soil removal at JETC were achieved. Petroleum-contaminated soil exceeding the FDEP Direct Exposure-Residential and Leachability Soil Cleanup Target Levels (SCTLs) was removed and transported offsite for disposal. The air sparge system will continue remain in operation until the groundwater is remediated.

1.0 Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) has been contracted by the Department of the Navy, Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH), to prepare this Construction Completion Report for work performed at Building 271 and the Jet Engine Test Cell (JETC) located at Former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. This work was performed under Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0086 and in accordance with the management approach outlined in the CH2M HILL Contract Management Plan (CH2M HILL, 1998a), the NAS Cecil Field Basewide Work Plan, Revision No. 01 (CH2M HILL, 1998b), and the CTO No. 0086 Work Plan Addendum No. 18, Revision No. 00 (CH2M HILL, 2003).

The objective of this report is to provide documentation of the construction activities associated with installation of air sparge (AS) systems at Building 271 and JETC and the excavation of petroleum-contaminated soil at JETC located at the Former NAS Cecil Field, Jacksonville, Florida.

1.1 Site History

1.1.1 Building 271

Building 271 was a former retail gasoline facility that contained four underground storage tanks (USTs) (designated 271-D, 271-R, 271-UL, and 271-SUL) and two oil/water separators (OWSs). The USTs were grouped in a tank pit located on the west side of Building 271, while the OWSs were located on the east side of the building. USTs 271-UL, 271-R, and 271-SUL each had an approximate capacity of 10,000 gallons and UST 271-D had an approximate capacity of 6,000 gallons (Tetra Tech NUS, Inc. [TtNUS], 2002a).

According to UST closure records (TtNUS, 2002a), UST 271-D, along with associated piping, was removed on March 5, 1996. No soil or groundwater contamination was detected.

In July 1999, Harding Lawson Associates (HLA) compiled the Confirmatory Sampling Report (CSR) for the USTs and the two OWSs. The report indicated that petroleum-impacted soil was encountered at two locations relative to the USTs. The CSR concluded that soil or groundwater was not impacted as a result of past OWS operations. Based on the CSR finding of soil contamination, a Site Assessment (SA) was recommended for the UST site. A Site Assessment Plan for the assessment of soil and groundwater at the UST site was prepared by TtNUS (TtNUS, 2002a).

Following completion of the planned investigation in the SA Plan, CH2M HILL removed the remaining three USTs, associated piping, and distribution systems. The UST and associated soil removals addressed the soil contamination; however, groundwater samples collected following UST and soil removal indicated the presence of volatile organic compounds (VOCs) in site groundwater. TtNUS proceeded to plan and execute a second investigation in a Site Assessment Plan Addendum to further define the extent of contamination in the groundwater (TtNUS, 2002a).

CH2M HILL also removed both OWSs, and submitted separate Limited Closure Assessment Reports (LCAR) for each OWS site in April 2001 to the Florida Department of Environmental Protection (FDEP). Both LCARs for the OWSs indicated that no petroleum contamination of the soil or groundwater existed in the immediate areas surrounding the former OWSs. On May 23, 2001, the FDEP issued separate letters agreeing with CH2M HILL's findings (TtNUS, 2002a).

A Site Assessment Report prepared by TtNUS in May 2002 concluded that petroleum constituents had impacted groundwater in the vicinity of the former USTs and that all of the contaminated soil was removed by CH2M HILL during the UST removal. TtNUS recommended the preparation and implementation of a Remedial Action Plan (RAP) to remediate groundwater at the site (TtNUS, 2002a).

TtNUS submitted to FDEP for approval a RAP in September 2002 and a RAP Addendum (RAPA) in January 2003 to select the remedial alternative to remediate the contaminated groundwater at the site. The RAPA selected air sparging (AS) as the remedial alternative. FDEP approvals on the RAP and RAPA were received in February 2003. A site plan obtained from the RAP showing the Building 271 site is shown on Figure 1-1. The plume of benzene in groundwater as indicated in the RAP is shown on Figure 1-2.

1.1.2 JETC

The JETC site is located near the intersection of Flightline Road and Cecil Pines Street, and includes Buildings 339, 334, 328, and 811. The JETC facility was previously used by the Navy and is currently being used by the private sector to test jet engines. Jet engines were mounted and operated in Buildings 334, 339, and 811. Building 811 was demolished and only the foundation remains (TtNUS, 2002b).

The following petroleum storage and handling units were associated with the JETC:

- Two 20,000-gallon JP-5 USTs (designated 339-TC1 and 339-TC2) located in a fuel tank yard between Buildings 811 and 339
- One 5,000-gallon JP-5 aboveground storage tank (AST) (designated 339-TC3) within a 3-foot high concrete block containment wall located in the eastern portion of the tank yard
- One 940-gallon 10W engine oil AST (designated 334P), within a rubber containment structure on a concrete pad on the north side of Building 334
- Two OWSs (designated 325-OW and 334-OW) at Building 334 and one OWS (designated 339-OW) at Building 339

Environmental investigations began at the JETC site in 1989 near the area of the two 20,000-gallon JP-5 USTs, as a result of leaks discovered during tightness testing and reported overfilling spills. ABB Environmental Services, Inc. (ABB-ES) began a preliminary Contamination Assessment (CA) in 1990 that identified contaminated soil [defined as soil exhibiting a flame ionization detector (FID) reading of greater than 50 parts per million (ppm)]. The U.S. Army Corps of Engineers (USACE) and ABB-ES conducted a full CA from 1991 to 1994. Free product, soil, and groundwater contamination associated with the two

20,000-gallon JP-5 USTs were identified and delineated during the CA and CA Report Addendum (CARA) field efforts (TtNUS, 2002b).

In addition, soil contamination was identified at OWS 334-OW. Soil excavation activities were conducted at the 334-OW site in 1999; however, all of the contaminated soil was not removed. The remaining petroleum storage/handling units did not indicate the presence of soil or groundwater contamination in excess of regulatory levels (TtNUS, 2002b).

In May 1999, a Groundwater Monitoring Plan for Natural Attenuation was approved by the FDEP for the JETC site. Quarterly groundwater sampling was conducted under this plan from July 1999 to October 2000. Based on quarterly sampling results, it was determined that additional delineation of the groundwater contamination at the site was required (TtNUS, 2002b).

TtNUS conducted additional field investigation activities in 2001 to further define the extent of the impacted groundwater at the JETC site. The SA Report Addendum (SARA) field investigation delineated the extent of groundwater contamination at the site and concluded that not all of the contaminated soil identified by previous investigations had been removed from the vicinity of the OWS at the site. The SARA also indicated that Groundwater contamination appeared to be limited to two separate plumes located in the northern and southern area of Buildings 334 and 339. TtNUS recommended that the two plumes be managed as one site due to their proximity and that the remaining petroleum-contaminated soil associated with OWS 334-OW be excavated and disposed offsite. TtNUS recommended the preparation and implementation of a RAP to remediate the soil and groundwater at the site (TtNUS, 2002b).

TtNUS submitted to FDEP for approval a RAP in September 2002 and a RAPA in January 2003 to select the remedial alternative to remediate the contaminated soil and groundwater at the site. The RAPA selected AS for groundwater and excavation for soil were selected as the remedial alternatives. FDEP approval on the RAP and RAPA was received in February 2003. A site plan obtained from the RAP showing the JETC site and the remaining area of contaminated soil is shown on Figure 1-3. The groundwater contaminant plume as indicated in the RAP is shown on Figure 1-4.

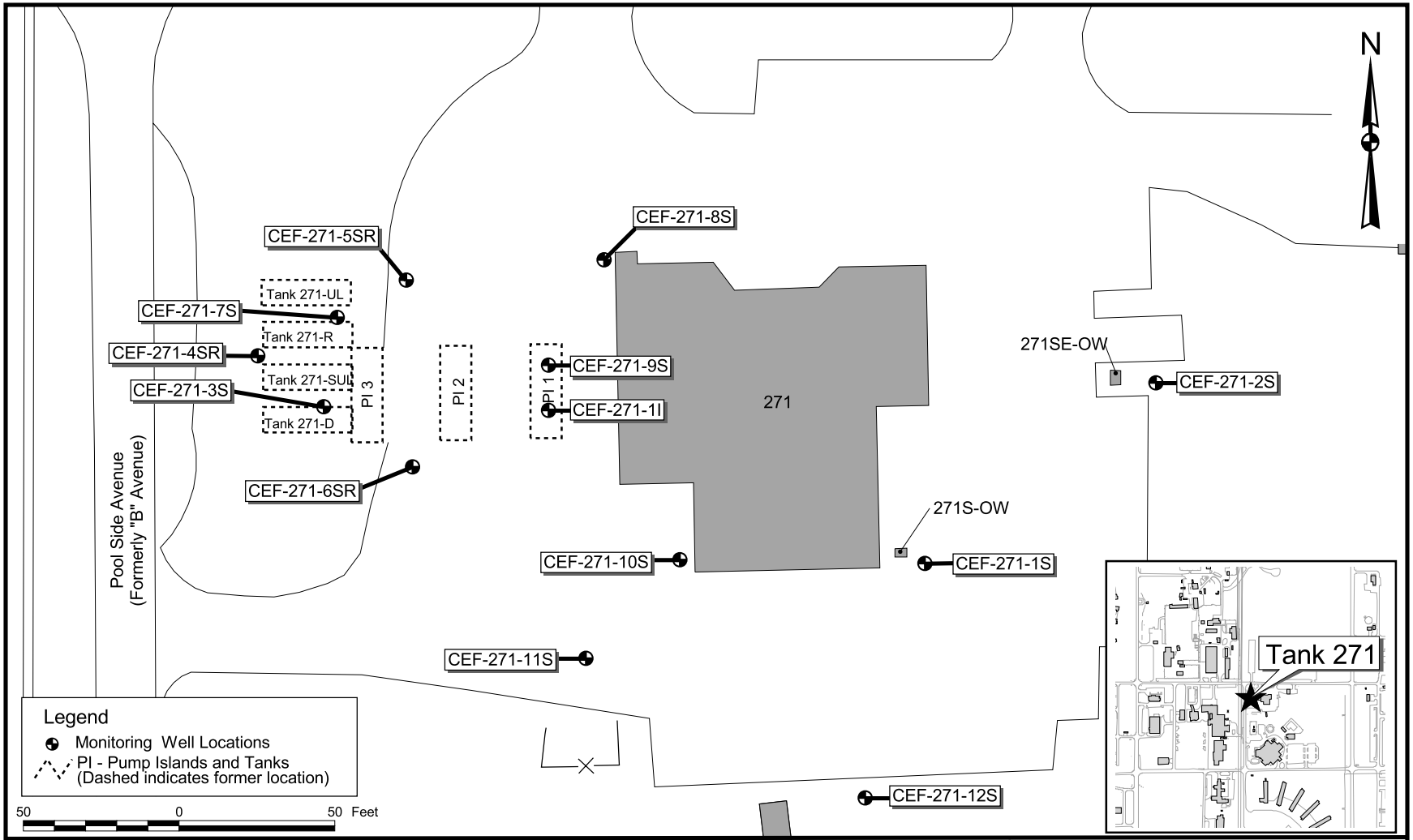
1.2 Project Scope and Construction Objectives

CH2M HILL was authorized by NAVFAC EFD SOUTH on March 22, 2002 and January 13, 2003 to complete the scope of work associated with the installation of AS systems at Building 271 and JETC and the excavation of petroleum-contaminated soil at JETC located at the Former NAS Cecil Field.

The project objectives were to install and operate an AS system to remediate contaminated groundwater to FDEP Groundwater Cleanup Target Levels (GCTLs) at the Building 271 site; to excavate, transport, and dispose of one area of contaminated soil exceeding FDEP Direct Exposure-Residential and Leachability Soil Cleanup Target Levels (SCTLs) at the JETC site; and to install and operate an AS system to remediate contaminated groundwater to FDEP groundwater cleanup target levels (GCTLs), at the JETC site.

The scope of work for the Building 271 site outlined in the CTO No. 0086 Work Plan Addendum No. 18, Revision 00 (CH2M HILL, 2003) included the following:

- Mobilization and site preparation
- Pre-construction site survey
- Utility locates
- Backfill material certification including associated analytical data
- Pre-excavation confirmation soil, screening, sampling, and analysis (at JETC site only)
- Soil excavation and backfilling (at JETC site only)
- Waste characterization
- Installation of air sparge wells and the associated well piping, fittings, valves, meters, controls, instrumentation, etc.
- Construction of treatment system compound
- Installation of treatment system equipment, associated piping and instrumentation, utilities, and ancillary hardware
- T&D of contaminated/non-contaminated materials
- Startup and optimization of treatment system operation
- Site restoration
- Decontamination
- Post-construction site survey
- Demobilization
- Preparation and submittal of an O&M Manual
- Preparation and submittal of a Construction Completion Report
- O&M for one year following system installation



DRAWN BY MJJ	DATE 03Sept02	SITE LAYOUT MAP BUILDING 271, TANKS 271 UL/R/SUL/D NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER N4248
CHECKED BY ___	DATE ___		APPROVED BY ___ DATE ___
COST/SCHEDULE-AREA			APPROVED BY ___ DATE ___
SCALE AS NOTED			DRAWING NO. FIGURE 1-3 / REV 0

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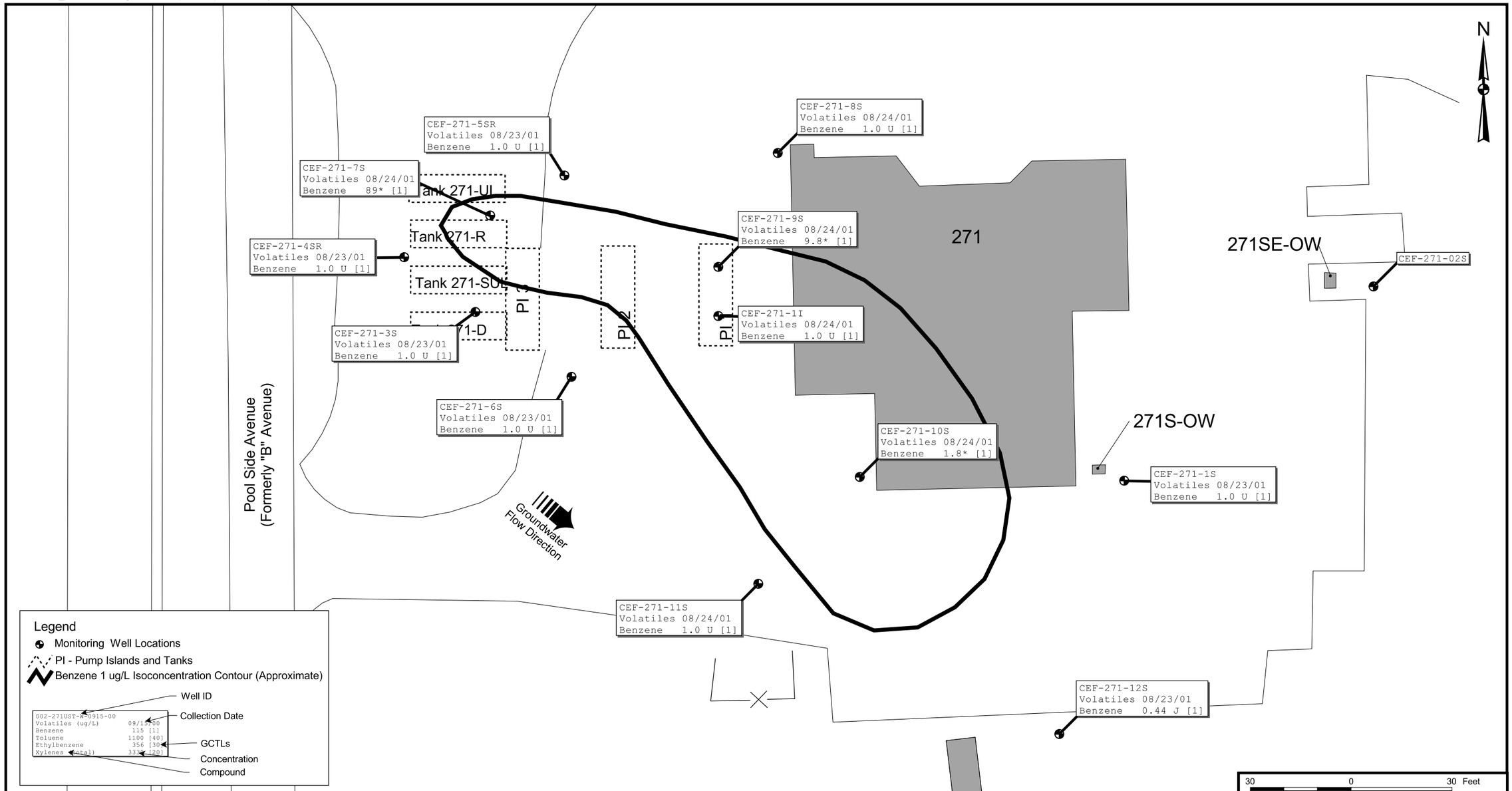

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MJJ	DATE 03Sept02
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE AS NOTED	

BENZENE GROUNDWATER ANALYTICAL RESULTS
BUILDING 271, TANKS 271 UL/R/SUL/D
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

CONTRACT NO. N4248	
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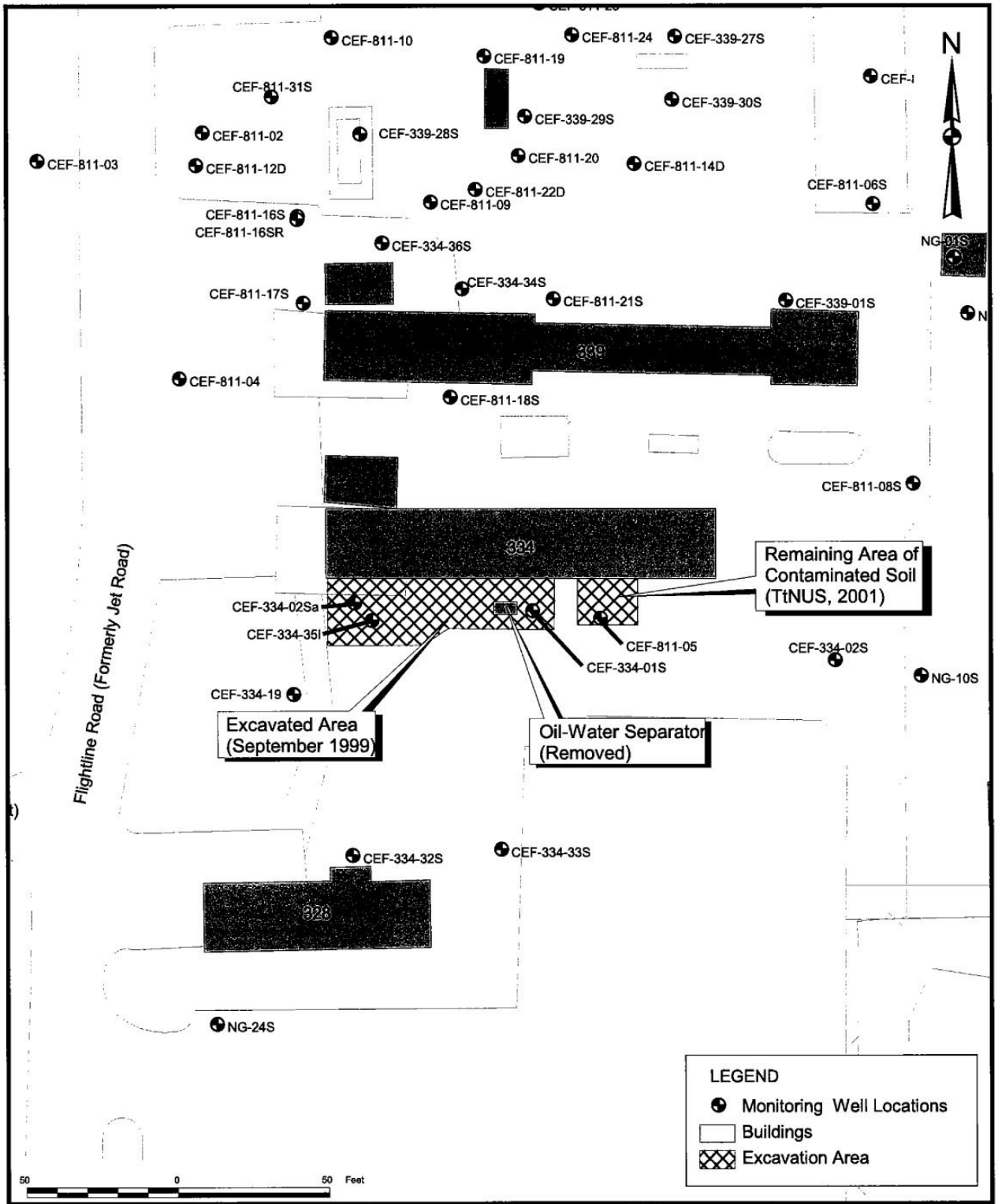

DRAWN BY MJJ	DATE 30Jul02	AREAS OF SOIL EXCAVATION AND EXTENT OF CONTAMINATION REMEDIAL ACTION PLAN JET ENGINE TEST CELL NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER N4248
CHECKED BY DB	DATE 9/24/02		APPROVED BY MPS DATE 9/24/02
COST/SCHEDULE-AREA			APPROVED BY DATE
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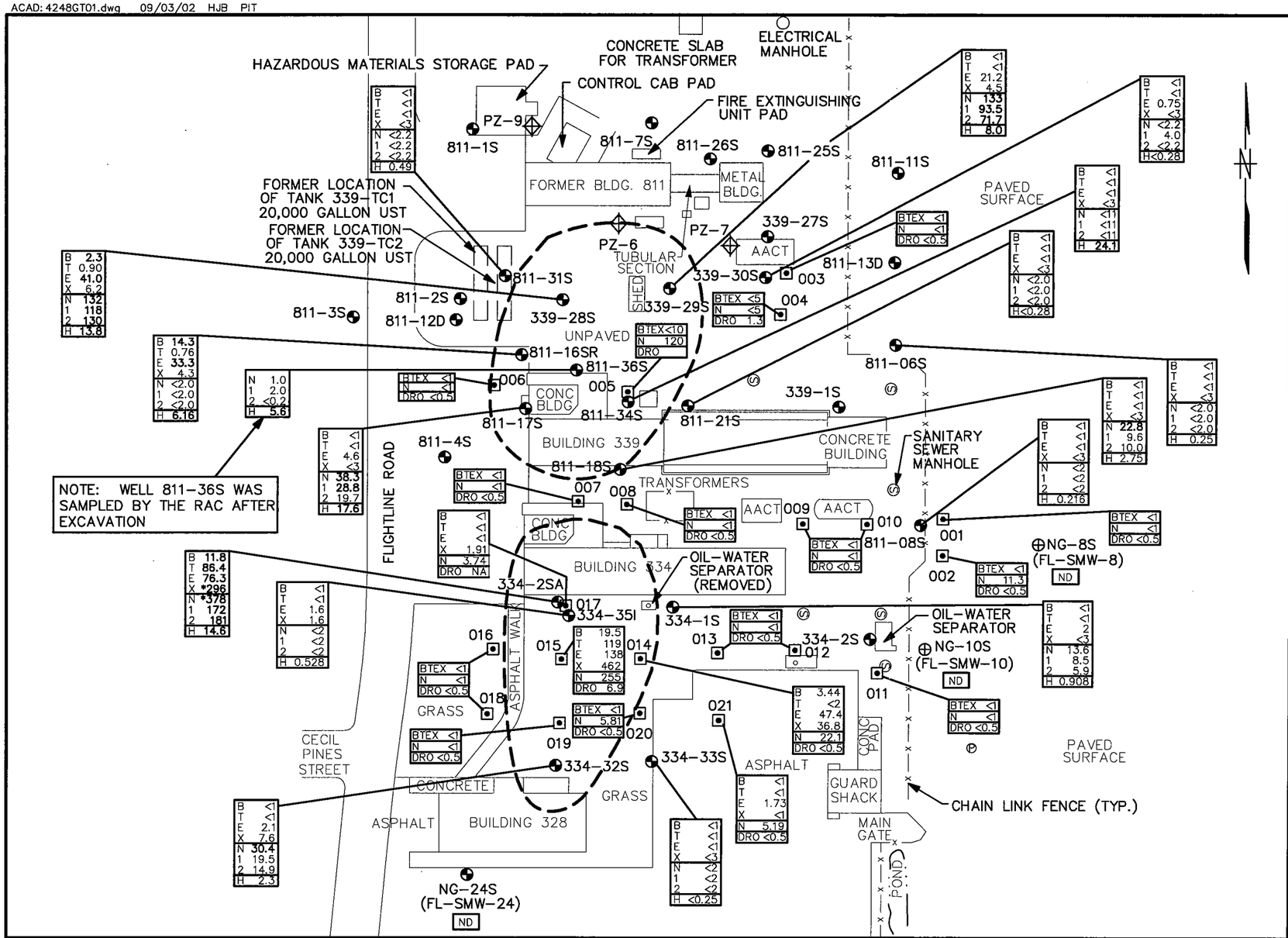

LEGEND:

811-2S	MONITORING WELL LOCATION AND DESIGNATION (WELL I.D. PRECEDED BY "CEF-" IN REPORT)
NG-8S	SHALLOW MONITORING WELL LOCATION (INSTALLED FOR NORTHROP GRUMMAN)
016	DPT GROUNDWATER SAMPLE LOCATION/ID No.
PZ-8	PIEZOMETER LOCATION AND DESIGNATION
*	CONCENTRATION GREATER THAN NATURAL ATTENUATION DEFAULT SOURCE CRITERIA
ND	NO ANALYZED CONSTITUENTS DETECTED BY LABORATORY
— — —	APPROXIMATE GROUNDWATER PLUME BASED ON COMBINED GCTLs FOR BTEX AND NAPHTHALENE COMPOUNDS
AACT	ABOVE GROUND AIR COMPRESSOR TANK(S)
AST	ABOVE GROUND STORAGE TANK
DRO	DIESEL RANGE ORGANICS
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GCTL	GROUNDWATER CLEANUP TARGET LEVEL
UST	UNDERGROUND STORAGE TANK
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
N	NAPHTHALENE
1	1-METHYLNAPHTHALENE
2	2-METHYLNAPHTHALENE
H	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

NOTES:

1. BOLD VALUES INDICATE CONCENTRATIONS GREATER THAN FDEP GCTLs.
2. ALL CONCENTRATIONS ARE MEASURED IN ug/L EXCEPT FOR TOTAL RECOVERABLE PETROLEUM HYDROCARBONS WHICH IS mg/L.

0 60 120
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

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DEPARTMENT OF THE NAVY SOUTHERN DIV FACILITIES ENGINEERING COMD

DPT AND MONITORING WELL GROUNDWATER ANALYTICAL RESULTS REMEDIAL ACTION PLAN JETC AND OWS 334-OW NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA

CONTRACT NO. 4248
APPROVED BY MB DATE 9/24/02
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DRAWING NO. FIGURE 2-3 REV. 0

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

2.0 Significant Events

2.1 Chronology of Events

The chronology of events is listed below. Specific details describing the construction activities are provided in Section 3.0 of this report.

TABLE 2-1
Construction Sequence Summary

Event	Date
Pre-construction Meeting	August 28, 2003
Work Plan Addendum submitted	September 2, 2003
Work Plan Addendum approved	September 4, 2003
Mobilization	September 8, 2003
Pre-excavation soil screening and sampling	September 8, 2003
Pre-construction site surveys	September 8 - 12, 2003
AS well installation at JETC	September 9 – 16, 2003
AS well installation at Building 271	September 12 – 16, 2003
Trenches, vaults, piping, and equipment pad installation at Building 271	September 16 – 22, 2003
AS system building construction at Building 271 and JETC	September 19 – October 31, 2003
Trenches, vaults, piping, and equipment pad installation at JETC	September 23 – October 10, 2003
Contaminated soil excavation, backfill, and site restoration at JETC	September 30 – October 1, 2003
Decontamination/purge water waste characterization sample collection	October 2, 2003
AS system equipment installation at Building 271 and JETC	October 30 - November 7, 2003
Soil waste characterization sample collection	October 17, 2003
Environmental Conditions Report Submitted	October 22, 2003
T&D of petroleum-contaminated soil and decontamination/purge water	October 30, 2003
AS system startup at Building 271	November 17, 2003
AS system startup at JETC	November 24, 2003

2.2 Problems Encountered

No significant problems were encountered during the completion of the scope of work.

3.0 Construction Activities and Quality Control

3.1 Project Participants

The construction participants and their respective responsibilities for the project are discussed in this section. The key construction participants are listed in Table 3-1.

TABLE 3-1
Organization of Construction Participants

Company	Role	Name
NAVFAC EFD SOUTH	Remedial Project Manager	Mr. Gabe Magwood
CH2M HILL	Project Manager	Mr. Michael Halil
	Project Superintendent	Mr. Roger Deisler
	Project Quality Control (QC) Manager	Mr. Scott Sloan
	Site Health and Safety Specialist	Mr. Bruce Johnson
Aerostar Environmental Services, Inc.	Remediation Subcontractor	
ATI-Drilling, Inc.	Well Drilling Subcontractor	
Clary & Associates, Inc.	Surveying Subcontractor	
C & C Powerline, Inc.	Electrical Subcontractor	
Gulf Coast Analytical Laboratories	Offsite Laboratory Services Subcontractor	
Severn Trent Laboratories	Offsite Laboratory Services Subcontractor	
Universal Engineering Sciences	Geotechnical Subcontractor	
Beaver Bulk, Inc.	Transportation and Disposal Subcontractor - Transporter	
Broadhurst Environmental, Inc	Transportation and Disposal Subcontractor - Disposal Facility	

3.2 Summary of Construction Activities

The following subsections summarize the construction activities performed over the course of the project.

3.2.1 Field Observation

CH2M HILL provided oversight of all field operations throughout the course of the project. CH2M HILL field oversight staff included a project superintendent, a project QC manager, and a site health and safety specialist. Detailed records of subcontractor activities were maintained in field logbooks and site field records. Representative photos of construction activities are presented in Appendix A.

3.2.2 Mobilization and Site Preparation

Site preparation activities conducted by Aerostar Environmental Services, Inc. (Aerostar), the prime subcontractor, at Building 271 and JETC included establishing site controls and conducting utility clearances. Utility clearances were obtained through coordination with J.A. Jones Global Services, the Jacksonville Airport Authority, and Sunshine State One-Call of Florida. Utility clearance documentation is provided in Appendix B. Mobilization consisted of personnel and equipment delivered to the work sites and the establishment of temporary facilities, such as portable sanitary facilities, decontamination areas, site refuge areas, and equipment laydown areas. Project management and scheduling activities, including contractor coordination, were performed at the CH2M HILL office located at the Former NAS Cecil Field in Jacksonville, Florida.

3.2.3 Surveying

The AS wells, AS system locations, surface structure locations, locations of buried utilities, and monitoring well locations at Building 271 and JETC, as well as the excavation limits at JETC, were surveyed by Clary and Associates, Inc. on September 10 and 11, 2004. The AS well and system layouts were surveyed based on the onsite monitoring wells, and the locations were field-verified following survey completion. The AS well and AS system locations at Building 271 and JETC were designed based on the locations of the onsite monitoring wells; therefore, comparing the surveyed system layout versus the onsite monitoring well locations verified system placement. All survey data conforms to the Tri-Service Spatial Data Standards. Horizontal controls for graphic and non-graphic information are Mercator Projection, GRS 80, State Plan Coordinate System, North American Datum 1983, Lambert Zones 1 through 6 (or appropriate zone for region to be mapped). Vertical controls are mean sea level, North American Vertical Datum, 1988. The Site Surveys for Building 271 and JETC are provided in Appendices C and D, respectively.

3.2.4 Contaminated Soil Excavation and Backfilling at JETC

Pre-excavation Confirmation Soil Screening, Sampling, and Analysis

The approximate horizontal and vertical extents of petroleum-contaminated soil were established by TtNUS. Pre-excavation soil screening was performed within the proposed excavation boundary to verify the proposed excavation limits. Headspace screening, utilizing an organic vapor analyzer (OVA) with a flame ionization detector (FID), was performed to verify the proposed excavation limits. Pre-excavation soil screening samples were collected from borings located at the midpoints of each proposed horizontal extent, advancing in increments of 1 foot to a total depth of 8 feet below land surface (bls).

During the pre-excavation screening effort, it was determined that the vertical extent of petroleum-contaminated soil extended to an average depth of 1 foot into the water table (approximately 8 feet bls). The horizontal extents of the delineation was as follows:

- North – the results of soil screening demonstrated that petroleum contamination existed along the proposed limits. However, an existing building limited further advancement of borings toward the north.

- East – the results of soil screening samples demonstrated that petroleum-contaminated soil did not exist beyond the proposed limits.
- South – the results of soil screening samples demonstrated that petroleum-contaminated soil did not exist beyond the proposed limits.
- West – the results of soil screening samples demonstrated that petroleum-contaminated soil existed along this wall. An additional boring was advance 5 feet to the west, finding no petroleum contamination.

The soil boring locations are shown on Figure 3-1. Headspace screening results are summarized in Table 3-2. Two headspace samples were collected at each 1-foot incremental depth, within the respective borings. One was analyzed with the FID without the carbon filter in place and one analyzed with the carbon filter in place. This will be done in order to eliminate interference caused by methane present in the soil. Total or corrected readings with values greater than 50 parts per million as considered petroleum-contaminated.

TABLE 3-2
Head Space Analyses, Jet Engine Test Cell

Boring Label	Depth (feet)	OVA/FID Value Unfiltered (ppm)	Filtered (ppm)	Total (ppm)
SB-01	1	3.50	4.00	0.00
	2	3.70	3.77	0.00
	3	4.20	3.60	0.60
	4	32.00	27.30	4.70
	5	1,020.00	800.00	220.00
	6	1,571.00	1,008.00	563.00
SB-02	1	4.40	5.00	0.00
	2	4.70	5.25	0.00
	3	4.70	5.30	0.00
	4	12.00	5.40	6.60
	5	4.80	5.40	0.00
	6	4.90	5.10	0.00
SB-03	1	0.00	nc	nc
	2	0.50	nc	nc
	3	0.10	nc	nc
	4	0.06	nc	nc
	5	0.20	nc	nc
	6	0.20	nc	nc
SB-04	1	0.44	0.00	nc
	2	0.81	0.00	nc
	3	0.56	0.00	nc
	4	810.00	262.00	nc
	5	3,845.00	3,763.00	nc
	6	2,924.00	740.00	nc
SB-05	1	0.00	nc	nc
	2	0.00	nc	nc
	3	0.00	nc	nc
	4	0.30	nc	nc
	5	0.00	nc	nc
	6	0.20	nc	nc
SB-06	1	2.10	0.00	nc
	2	2.00	0.00	nc
	3	2.70	0.00	nc
	4	55.00	51.00	nc
	5	2.90	0.00	nc
	6	3.00	0.00	nc

TABLE 3-2
Head Space Analyses, Jet Engine Test Cell

Boring Label	Depth (feet)	OVA/FID Value Unfiltered (ppm)	Filtered (ppm)	Total (ppm)
SB-07	1	0.00	3.40	nc
	2	0.00	3.30	nc
	3	377.00	1,115.00	nc
	4	2,623.00	1,066.00	nc
	5	2,600.00	786.00	nc
	6	3,393.00	994.00	nc
SB-08	1	0.20	nc	nc
	2	0.30	nc	nc
	3	0.10	nc	nc
	4	5.00	nc	nc
	5	2.00	nc	nc
	6	nc	nc	nc
SB-09	1	0.00	nc	nc
	2	0.00	nc	nc
	3	0.10	nc	nc
	4	0.10	nc	nc
	5	0.00	nc	nc
	6	0.10	nc	nc
SB-10	1	0.00	nc	nc
	2	0.00	nc	nc
	3	0.05	nc	nc
	4	0.20	nc	nc
	5	0.10	nc	nc
	6	0.20	nc	nc
SB-11	1	0.20	nc	nc
	2	0.15	nc	nc
	3	0.10	nc	nc
	4	0.10	nc	nc
	5	nc	nc	nc
	6	nc	nc	nc

Notes:
OVA/FID indicates organic vapor analyzer/flame ionization detector
nc indicates not collected
ppm – parts per million

Following headspace screening, one confirmatory sample was collected for each horizontal extent at the location and depth of the highest total corrected hydrocarbon measurement and one confirmatory sample was collected at the center of the excavation area at a depth of 8 feet bls. The samples were analyzed by U.S. Environmental Protection Agency (USEPA) Method 8260B for benzene, ethylbenzene, toluene, and xylenes (BTEX) with methyl tert butyl ether (MTBE), USEPA Method 8310 for the 16-listed polynuclear aromatic hydrocarbons (PAHs) and 1- and 2-methylnaphthalene, and the Florida Petroleum Residual Organic (FL-PRO) Method for total recoverable petroleum hydrocarbons (TRPH).

The confirmatory sample results representing the east (sample ID: **86JT03S030903**), west (sample ID: **86JT05S030903**), and south (sample ID: **86JT06S030903**) horizontal extents were below the FDEP Direct Exposure-Residential and Leachability SCTLs. The results for of the north (sample ID: **86JT04S030903**) and bottom (sample ID: **86JT12S030903**) walls exceeded the FDEP Direct Exposure-Residential and Leachability SCTLs. The soil confirmation results are summarized in Table 3-3 and copies of laboratory reports contained in Appendix E. The proposed excavation area is shown on Figure 1-3. The post-excavation survey is provided in Appendix D.

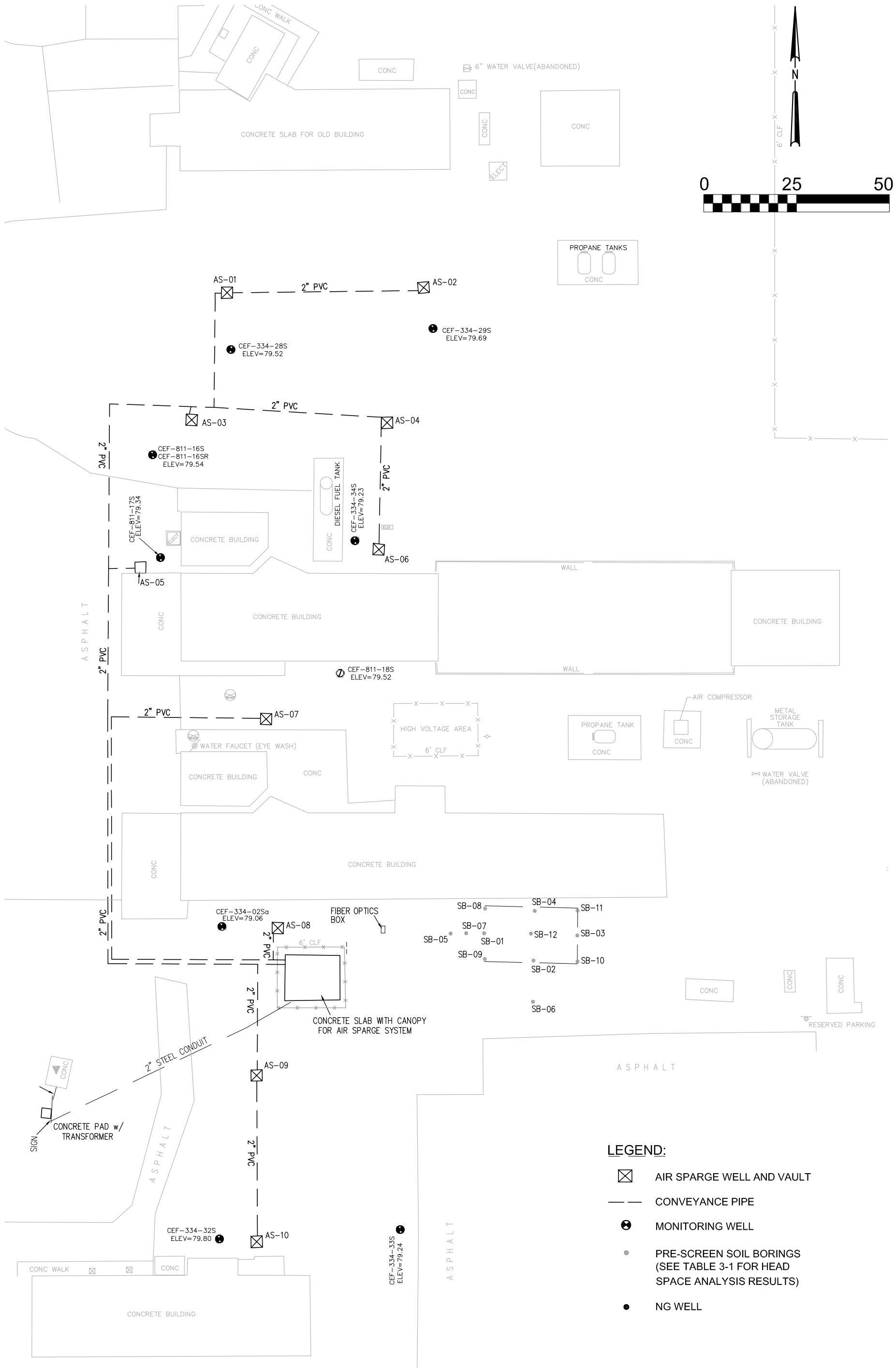

FIGURE 3-1
POST-CONSTRUCTION SITE PLAN
FOR JET ENGINE TEST CELL
FORMER NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FL

CH2MHILL

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TABLE 3-3
Soil Confirmation Results, Jet Engine Test Cell

Excavation Boundary Sample ID Sample Date				East Extent 86JT03S030908 9/8/2003	North Extent 86JT04S030908 9/8/2003	West Extent 86JT05S030909 9/9/2003	South Extent 86JT06S030909 9/9/2003	Bottom/Center 86JT12S030909 9/9/2003
Parameter	**Unit**	**FDEP Direct Exposure - Residential**	**Leachability**					
FLPRO								
petroleum hydrocarbons	µg/Kg	340,000	340,000	8,670 U	**517,000 J**	8,880 U	9,170 U	**48,900,000**
SW8260B								
Benzene	µg/Kg	1,100	7	5.59 U	5.31 U	5.78 U	5.35 U	242 U
Ethylbenzene	µg/Kg	1,100,000	600	5.59 U	5.31 U	5.78 U	5.35 U	**1,270**
tert-butyl methyl ether	µg/Kg	3,200,000	200	5.59 U	5.31 U	5.78 U	5.35 U	242 U
Toluene	µg/Kg	380,000	500	5.59 U	5.31 U	5.78 U	5.35 U	242 U
Xylenes, total	µg/Kg	5,900,000	200	11.2 U	10.6 U	11.6 U	10.7 U	**96.7 J**
SW8310								
1-methylnaphthalene	µg/Kg	88,000	2,200	36.1 UJ	**1,150 J**	37 UJ	**37.6 J**	**58,900 J**
2-Methylnaphthalene	µg/Kg	80,000	6,100	36.1 UJ	**563 J**	37 UJ	38.2 UJ	**31,600 J**
Acenaphthene	µg/Kg	1,900,000	2,100	36.1 U	**3,880 J**	37 U	38.2 U	**64,700**
Acenaphthylene	µg/Kg	1,100,000	27,000	36.1 U	398 U	37 U	38.2 U	3,890 U
Anthracene	µg/Kg	18,000,000	2,500,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Benzo(a)anthracene	µg/Kg	1,400	3,200	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Benzo(a)pyrene	µg/Kg	100	8,000	3.58 U	**159 J**	**8.08**	3.78 U	**5,860**
Benzo(b)fluoranthene	µg/Kg	1,400	10,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Benzo(g,h,i)perylene	µg/Kg	2,300,000	32,000,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Benzo(k)fluoranthene	µg/Kg	15,000	25,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Chrysene	µg/Kg	140,000	77,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Dibenz(a,h)anthracene	µg/Kg	100	30,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Fluoranthene	µg/Kg	2,900,000	1,200,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Fluorene	µg/Kg	2,200,000	160,000	**22.00**	199 U	**19.30**	**25.10**	1,950 U
Indeno(1,2,3-c,d)pyrene	µg/Kg	1,500	28,000	9 U	99.1 U	9.21 U	9.51 U	969 U
Naphthalene	µg/Kg	40,000	1,700	**37.40**	**184 J**	**31.60**	**39.30**	**23,500**
Phenanthrene	µg/Kg	2,000,000	250,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U
Pyrene	µg/Kg	2,200,000	880,000	3.58 U	39.4 U	3.66 U	3.78 U	385 U

Notes
Values Bold and Shaded are Hits
U - The analyte was analyzed for, but not detected.
J - estimated value

Soil Excavation

The soil excavation activities at the JETC site were conducted from September 30 to October 1, 2003. Soil was excavated to the limits delineated during pre-excavation confirmation soil screening, sampling, and analysis. The vertical excavation limit was 1 foot below the water table, approximately 8 feet bls.

The petroleum-contaminated soil was excavated using a hydraulic, track-mounted excavator and temporarily stockpiled on 10-mil polyethylene sheeting, bermed to avoid the potential of impacting surrounding soil or surface water. The soil was subsequently loaded into tandem trailer trucks on October 30, 2003 and transported offsite by Beaver Bulk Trucking for disposal at Broadhurst Environmental, Inc. Based on the facility weight tickets, 162.75 tons of non-hazardous petroleum-contaminated soil were excavated from the JETC site and disposed off-site.

Backfill and Site Restoration

The material (i.e., soil) used to backfill the excavation was supplied by Marietta Sand Corporation. To certify the material as clean, representative samples were collected, packaged and shipped to the offsite laboratory for chemical analyses. Copies of the laboratory analytical reports (Sample ID: **086-BFC-S-090403**) showing that the material was clean fill is provided in Appendix F.

The excavation area was backfilled on October 2, 2003. Backfilling was accomplished by placing certified clean soil in the excavation area in 1-foot thick loose lifts and machine compacting to grade. Areas disturbed by the construction activities were restored by seeding with Bahia grass seed and mulching to retain moisture.

3.2.5 Air Sparge Well Installation

JETC

Prior to well installation, manufacturers' catalog data for well materials were submitted to CH2M HILL and approved. Well materials utilized on the project were inspected upon receipt to the job site and determined within conformity of the approved submittals. Each well was installed by ATI-Drilling, Inc., a certified well driller, in accordance with the approved CTO No. 0086 Work Plan Addendum No. 18, Revision No. 00 (CH2M HILL, 2003), and the total well and screen depths, and well materials and depths verified. The well driller certification is provided in Appendix G.

Ten AS wells, identified as AS-01 through AS-10, were installed at JETC from September 12 to 16, 2003, to a depth of 30 feet bls. The AS wells were installed using 4.25-inch inside diameter hollow stem auger techniques. AS-01 through AS-10 were constructed using 0.010-inch slotted, Schedule 40 polyvinyl chloride (PVC) well screen from 28 to 30 feet bls and 28 feet of flush joint, threaded, 2-inch diameter, Schedule 40 PVC pipe to grade. The wells were installed with a sand pack consisting of 20/30 grade silica sand from 27 to 30 feet bls, a sodium bentonite seal from 25 to 27 feet bls, and a grouted annulus consisting of Type I Portland Cement grout to approximately 2 feet bls. AS well completion documentation is provided in Appendix G. Well locations are shown on Figure 3-1.

The AS wells were fully developed until the water was clear with the recovery of at least three well volumes of development water using a 12-volt submersible pump capable of approximately 1 to 2 gallons per minute. The generated drill cuttings and development water at JETC were containerized in 55-gallon drums for characterization and offsite T&D.

Each AS well head was enclosed in a 2-foot by 2- foot by 2-foot weatherproof, galvanized steel, flush-mounted well vault with a bolt down, drive-over steel lid. The vaults were surrounded by 6-inch thick, 3,000 psi concrete on all sides with a 2-inch, 3,000 psi concrete floor with drain. The piping into each AS well vault contains the following individual well controls: 2-inch diameter PVC butterfly valve, 0.5-inch pressure regulator, 0.25-inch sample port, liquid filled pressure gauge with a 0 to 25 pounds per square inch gauge (psig) range, and a flow indicator capable of indicating a flow rate of 0 to 20 standard cubic feet per minute (scfm). Typical construction details of an air sparge well and air sparge well vault are provided in Appendix G.

Building 271

Prior to well installation, manufacturer's catalog data for all well materials were submitted to CH2M HILL and approved. All well materials utilized were inspected on receipt to the job site and were within compliance of the approved submittals. Each well was installed by ATI-Drilling, Inc., a certified well driller, in accordance with the approved CTO No. 0086 Work Plan Addendum No. 18, Revision No. 00 (CH2M HILL, 2003), and the total well and screen depths, and well materials and depths verified. The well driller certification is provided in Appendix G.

Seven AS wells, identified as AS-01 through AS-07, were installed at Building 271 between September 9, 2003 and September 12, 2003 to a depth of 26 feet bls. The AS wells were installed using 4.25-inch inside diameter hollow stem auger techniques. AS-01 through AS-07 were constructed using 0.010-inch slotted, Schedule 40 PVC well screen from 24 feet bls to 26 feet bls and 24 feet of flush joint, threaded, 2-inch diameter, Schedule 40 PVC pipe to grade. The wells were installed with a typical sand pack consisting of 20/30 grade silica sand from 23 to 26 feet bls, a sodium bentonite seal from 21 to 23 feet bls, and a grouted annulus consisting of Type I Portland Cement grout to approximately 2 feet bls. AS well completion documentation is provided in Appendix G. Well locations are shown on Figure 3-2.

The AS wells were fully developed until clear with the recovery of at least three well volumes of development water using a 12-volt submersible pump capable of approximately 1 to 2 gallons per minute. The generated drill cuttings and development water at Building 271 were containerized in 55-gallon drums for characterization and offsite transportation and disposal.

Each AS well head was enclosed in a 2-foot by 2-foot by 2-foot weatherproof, galvanized steel, flush mounted well vault with a bolt down, drive over steel lid. The vaults were surrounded by 6-inch thick, 3,000 pounds per square inch (psi) concrete on all sides with a 2-inch, 3,000 psi concrete floor with drain. The piping into each AS well vault contains the following individual well controls: 2-inch diameter PVC butterfly valve, 0.5-inch pressure regulator, 0.25-inch sample port, liquid filled pressure gauge with a 0 to 25 psig range, and a flow indicator capable of indicating a flow rate of 0 to 20 scfm. Construction details of a

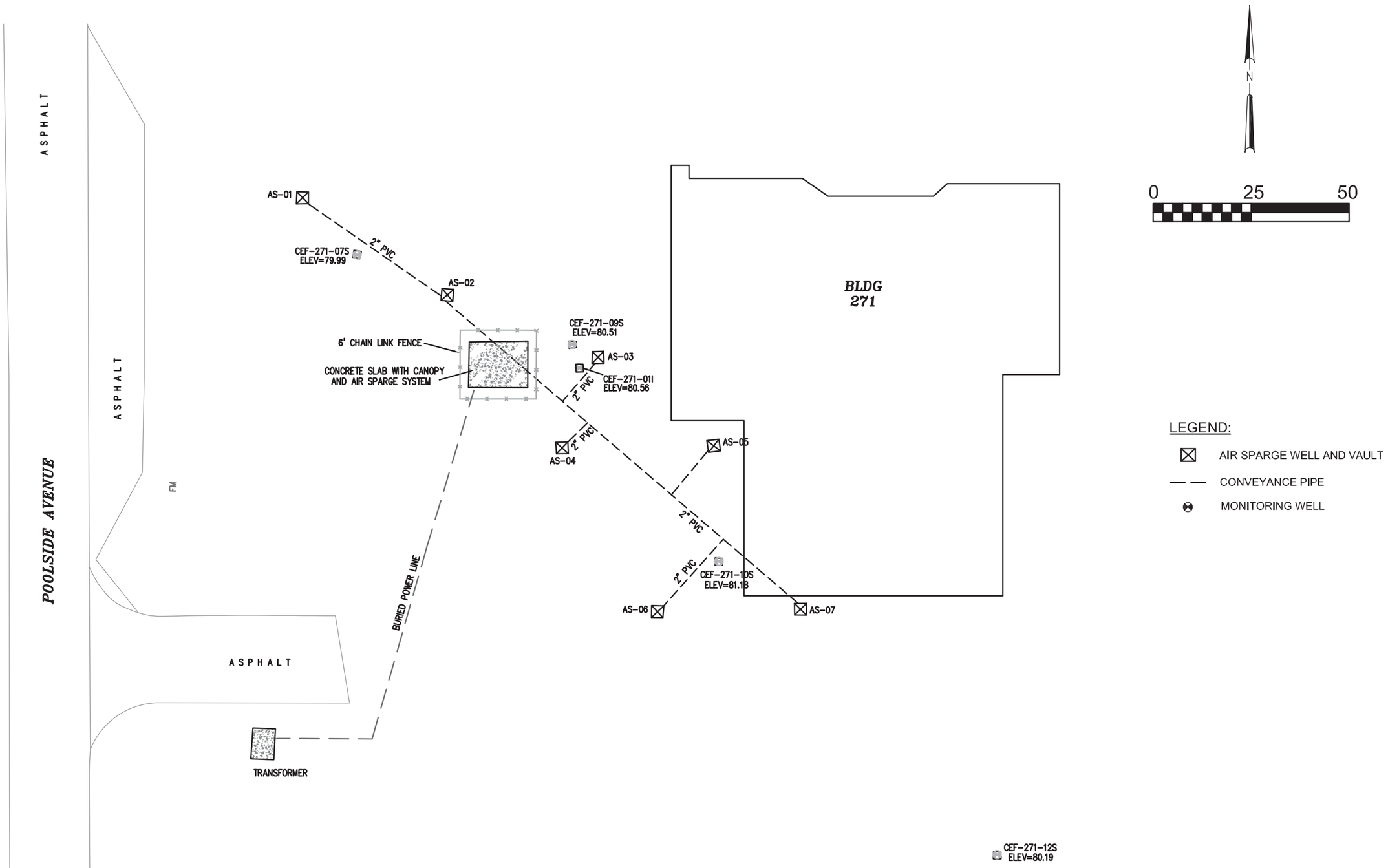


FIGURE 3-2
POST-CONSTRUCTION SITE PLAN
FOR BUILDING 271
FORMER NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FL

CH2MHILL

atl/projects/271691 cecil field

A112004008ATL\ Cecil 102.ai

typical air sparge well and air sparge well vault for Building 271 are provided in Appendix G.

3.2.6 Trenching and Pipe Installation

Prior to trenching and pipe installation at Building 271 and JETC, manufacturer's catalog data for piping and well vault materials were submitted to CH2M HILL and approved. The piping and well vault materials utilized were inspected on receipt to the job site and were within compliance of the approved submittals. Trenching activities at Building 271 and JETC were conducted by Aerostar from September 16 to October 10, 2004. The locations and depths of each trench were verified daily during trenching activities. Piping and well vault materials were installed in accordance with manufacturers' recommendations. All underground piping was installed using Schedule 80 PVC pipe. All aboveground piping was installed using galvanized steel pipe. Native soil at both Building 271 and JETC was used for pipe bedding as the native soil was sandy and free from debris. All underground piping was pressure-tested prior to backfilling. The Building 271 piping system was pressure tested on September 17, 2003, by applying a test pressure of 50 psi for 1 hour. The northern branch of the JETC pipe system was pressure tested on September 25, 2003, by applying a test pressure of 50 psi for 1 hour. The southern branch of the JETC pipe system was pressure tested on October 6, 2003, by applying a test pressure of 50 psi for 1 hour. All system piping held the test pressure of 50 psi for 1 hour during each pressure test.

Trenches in grass areas at both sites were backfilled in 1-foot thick loose lifts with the excavated material and machine-compacted. No backfill compaction tests were required in grass areas. Trenches in asphalt areas at JETC were backfilled with excavated material to 12 inches bls followed by limerock subgrade to the elevation of the surrounding asphalt surface. The backfill and limerock in the asphalt areas were machine-compacted and representative compaction tests performed by Universal Engineering Sciences on September 29 and October 2, 2003 to verify 95 percent of ASTM D698 compaction. Compaction test results are provided in Appendix H. The trenches in asphalt areas at the JETC site were restored with like-material asphalt. The trenches in grass areas at the JETC site were graded to provide positive drainage, seeded, fertilized, and mulched using hay to retain moisture. Due to ongoing City of Jacksonville construction activities, the trenches in asphalt areas and grass areas at the Building 271 site were backfilled with excavated material to 12 inches bls, followed by limerock to the surrounding elevation. Typical cross-section details of a trench for Building 271 and JETC are provided in Appendices C and D, respectively.

3.2.7 Remediation System Building Construction

Prior to remediation system building construction at Building 271 and JETC, manufacturer catalog data for all construction materials were submitted to CH2M HILL for approval. Construction materials utilized were inspected on receipt to the job site and were within compliance of the approved submittals. The progress of building construction was inspected daily by the CH2M HILL Project Superintendent, Project QC Manager, and Site Health and Safety Specialist for quality and stability.

The remediation system buildings were constructed by Aerostar during the period of September 19, 2003, to October 31, 2003, in accordance with the approved submittals, manufacturer instructions, standard industry practice. Each of the treatment system

compounds consists of a 6-inch thick, 3,000 psi strength, fibermesh reinforced concrete pad measuring 12 foot by 15 foot. The shelter for each is an 8-foot high treated wood-framed, open sided structure with a corrugated aluminum roof, and surrounded by a 16 foot by 19 foot by 6-foot high chain-link fence. For system access, 8-foot wide, double swing truck gates with locking hasps were installed. The fence was completed with vertical dark green PVC slats. Construction details of the remediation system building for Building 271 and JETC are provided in Appendices C and D, respectively.

3.2.8 System Equipment Installation

Prior to system equipment installation at Building 271 and JETC, manufacturer catalog data for all system equipment were submitted to CH2M HILL and approved. All system equipment utilized was inspected on receipt to the job site and was within compliance of the approved submittals. System equipment installation at Building 271 and JETC was conducted by Aerostar from October 30 to November 7, 2003.

Each AS system (one at Building 271 and the other JETC) was provided by Aerostar, and consisted of an Mattei Model AC1022L-T rotary vane air compressor with a 120-gallon horizontal air receiver tank, Curtis Model CDR 100 refrigerated air dryer, Arrow Pneumatics F329-08 FW 40 micron filter, Arrow Pneumatics F505-08W 0.03-micron filter, Arrow Pneumatics R378G pressure regulator, Dwyer VFA flow meter, and associated galvanized piping, fittings, and valves. Construction details of the equipment compound layout, process and instrumentation diagram, and supplemental process and instrumentation diagram for Building 271 and JETC are provided in Appendices C and D, respectively.

Prior to the electrical connections for the system equipment at Building 271 and JETC, manufacturer catalog data for all electrical materials were submitted to CH2M HILL for approval. Electrical materials utilized were inspected on receipt to the job site and were in compliance with the project specifications. Electrical installation at Building 271 and JETC was conducted by Aerostar and C and C Powerline, Inc., provisions of the National Electric Code, and coordinated with the Jacksonville Electric Authority. Following electrical installations, each system was tested to ensure the proper voltage was being delivered to the system electrical components.

3.2.9 System Startup

Building 271 AS system startup and JETC AS system startup were performed by Aerostar on November 17, 2003 and November 24, 2003, respectively. Building 271 AS system startup and JETC AS system startup data are provided in the *CTO No. 0086 First Quarter Operations and Maintenance Status Report for Air Sparging System, Building 271*, Revision No. 00 (CH2M HILL, 2004a) and the *CTO No. 0086 First Quarter Operations and Maintenance Status Report for Air Sparging System, Jet Engine Test Cell*, Revision No. 00 (CH2M HILL, 2004b). The field testing results are summarized in the Testing Plan and Log and the project Submittal Register (see Appendix H).

3.2.10 Equipment Decontamination

All equipment was decontaminated prior to removal from each site. In addition, the drill rig and equipment was decontaminated with a steam cleaner between each well installation.

Waste generated by decontamination activities was temporarily containerized in 55-gallon drums for waste characterization and offsite transportation and disposal. Decontamination of personnel and personal protective equipment was performed in accordance with the site Health and Safety Plan and applicable provisions of 29 Code of Federal Regulations (CFR) 1910.120. Upon completion of decontamination, the CH2M HILL Site Project Team inspected all equipment prior to demobilization.

3.2.11 Waste Disposal Characterization Sampling and Analysis

Waste characterization sampling of petroleum-contaminated soil and petroleum contact water (PCW) accumulated/generated during the installation of AS systems at Building 271 and JETC was performed on October 2, 2003 and October 17, 2003, respectively. One composite sample of the petroleum-contaminated soil (**86EWCS100203)** and one composite sample of the petroleum-contaminated water (**86DWCS101703**) was collected and shipped to Severn Trent Laboratories for analysis.

The soil was laboratory analyzed for the following parameters:

- Toxicity Leaching Characteristic Procedure (TCLP) VOCs by USEPA Methods 1311/8260B
- TCLP semi-volatile organic compounds (SVOCs) by USEPA Methods 1311/8270C
- TCLP metals by USEPA Methods 1311/6010B/7470A
- TCLP pesticides by USEPA Methods 1311/8081A
- TCLP herbicides by USEPA Methods 1311/8151A
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082
- Corrosivity by USEPA Method 9045A
- Ignitability by USEPA Methods 1010/1020
- TRPH by the FL-PRO Method

The petroleum contact water (PCW) was laboratory analyzed for the following parameters:

- Target Compound List (TCL) VOCs by USEPA Method 8260B
- TCL SVOCs by USEPA Method 8270C
- Total Analyte List (TAL) metals by USEPA Methods 6010B/7470A
- TCL pesticides by USEPA Method 8081A
- TCL herbicides by USEPA Method 8151A
- PCBs by USEPA Method 8082
- Corrosivity by USEPA Method 9040B
- Ignitability by USEPA Method 1010
- TRPH by the FL-PRO Method

Copies of laboratory analytical reports for waste characterization are provided in Appendix F.

3.2.12 Transportation and Disposal of Accumulated or Generated Wastes

Prior to offsite disposal, waste profile packages were prepared and provided to Mr. Wayne Hagwood or Mr. Mitch McPherson of the NAS Jacksonville Public Works Center (PWC) for approval and signature. Based on the results of waste disposal analyses, solid and liquid

wastes were characterized as non-hazardous petroleum contaminated. Once the profile approval was received, manifests were generated and provided to PWC for signature.

A total of 950 gallons of PCW were transported by Moran Environmental Recovery, Inc. for disposal by recycle at Water Recovery, Inc. Copies of the waste profile, manifests, and certificates of disposal are provided in Appendix I.

A total of 162.75 tons of petroleum contaminated soil was transported on October 30, 2003, by Beaver Bulk Trucking for landfill disposal at Broadhurst Environmental, Inc. Copies of the waste profile, manifests, weight tickets, and certificate of disposal are provided in Appendix I. Additionally, the Transportation and Disposal Log (or waste tracking) is provided in Appendix I.

4.0 Final Inspection and Site Status Summary

Representative from the Navy did not participate in the final inspection. CH2M HILL representatives inspected the Building 271 site on November 17, 2003, and the JETC site on November 24, 2003, for compliance with the approved CTO No. 0086 Work Plan Addendum No. 18 (CH2M HILL, 2003).

4.1 Participants

The following individuals participated in the final inspection:

- CH2M HILL Project Superintendent, Mr. Roger Diesler
- CH2M HILL Project QC Manager, Mr. Scott Sloan
- Aerostar Project Superintendent, Mr. Hersie Brooks

4.2 Deficiencies

During the inspection, no items were noted for correction.

4.3 Resolution of Deficiencies

None required.

4.4 Site Status Summary

As documented in this Construction Completion Report, CH2M HILL completed the following scope of work:

Building 271 Site

- Completed mobilization and site preparation activities.
- Completed utility locates by executing an excavation permit with J. A. Jones Global Services and Sunshine State One Call Service of Florida.
- Completed a pre-construction site survey.
- Installed an AS system, to include:
    1. Installation of seven AS wells to a depth of 26 feet bls and the associated well vaults, piping, valves, meters, and controls.
    2. Construction of a treatment system compound consisting of a 6-inch thick, 3,000 psi strength, 12- foot by 15-foot fibermesh reinforced concrete pad covered by a 8-foot high treated wood-framed corrugated aluminum roof, and surrounded by a 16-foot

by 19-foot by 6-foot high chain-link fence with an 8-foot wide, double swing truck gate with locking hasps.

3. Installation of an air compressor and associated utilities and ancillary hardware for the AS system.
4. Trenching and installation of 2-inch diameter Schedule 80 PVC and galvanized steel piping to connect the AS wells to the respective treatment system components.
5. Startup and optimization of treatment system operation.

- Completed the decontamination of all personnel and equipment.
- Completed transportation and offsite disposal of generated wastes.
- Completed site restoration.
- Completed a post construction site survey.
- Demobilized all personnel and equipment.

JETC Site

- Completed mobilization and site preparation activities.
- Completed utility locates by executing an excavation permit with J. A. Jones Global Services, Jacksonville Airport Authority, and Sunshine State One Call Service of Florida .
- Completed a pre-construction site survey.
- Excavated, transported, and disposed of 162.75 tons of petroleum-contaminated soil.
- Installed an AS system, to include:

1. Installation of ten AS wells to a depth of 30 feet bls and the associated well vaults, piping, valves, meters, and controls.
2. Construction of a treatment system compound consisting of a 6-inch thick, 3,000 psi strength, 12- by 15-foot fibermesh reinforced concrete pad covered by a 8-foot high treated wood-framed corrugated aluminum roof, and surrounded by a 16-foot by 19-foot by 6-foot high chain-link fence with an 8-foot wide, double swing truck gate with locking hasps.
3. Installation of an air compressor and associated utilities and ancillary hardware for the AS system.
4. Trenching and installation of 2-inch diameter Schedule 80 PVC and galvanized steel AS system piping to connect the AS wells to the respective treatment system components.
5. Start-up and optimization of treatment system operation.

- Completed the decontamination of all personnel and equipment.
- Completed transportation and offsite disposal of generated wastes.

- Completed site restoration.
- Completed a post construction site survey.
- Demobilized all personnel and equipment.

Based on the completed construction activities documented in this Construction Completion Report, CH2M HILL has completed the scope of work to achieve the project objectives as stated in the CTO No. 0086 Work Plan Addendum No. 18 (CH2M HILL, 2003).

5.0 References

CH2M HILL Constructors, Inc. 1998a. *Contract Management Plan for Response Action Contract No. N62467-98-D-0995.* July.

CH2M HILL Constructors, Inc. 1998b. *Basewide Work Plan, Naval Air Station Cecil Field, Jacksonville, Florida. Revision No. 01.* July.

CH2M HILL Constructors, Inc. 2003. *CTO No. 0086, Work Plan Addendum No. 18, Installation of Air Sparging Systems at the Jet Engine Test Cell and Building 271, Former Naval Air Station Cecil Field, Jacksonville, Florida,* August.

CH2M HILL Constructors, Inc. 2004a. *CTO No. 0086, First Quarter Operations and Maintenance Status Report for Air Sparging System, Building 271, Former Naval Air Station Cecil Field, Jacksonville, Florida,* June.

CH2M HILL Constructors, Inc. 2004b. *CTO No. 0086, First Quarter Operations and Maintenance Status Report for Air Sparging System, Jet Engine Test Cell, Former Naval Air Station Cecil Field, Jacksonville, Florida,* June.

Tetra Tech NUS, Inc. 2002a. CTO 248, *Remedial Action Plan for Building 271 Tanks UL/R/SUL/D*. September.

Tetra Tech NUS, Inc. 2002b. CTO 248, *Remedial Action Plan for Jet Engine Test Cell and Oil-Water Separator 334-OW,* September.

Tetra Tech NUS, Inc. 2003a. CTO 248, *Remedial Action Plan Addendum for Building 271 Tanks UL/R/SUL/D*. January.

Tetra Tech NUS, Inc. 2003b. CTO 248, *Remedial Action Plan Addendum for Jet Engine Test Cell and Oil-Water Separator 334-OW,* January.

Appendix A

Project Photographs

Photo 1 – JETC site prior to construction activities seen from West

Photo 2 – Building 271 site prior to construction activities seen from West

Photo 3 – Post hole prior to drilling to verify location of utilities

Photo 4 – Installation of as well at Building 271

Photo 5 – Air monitoring during as well installation

Photo 6 – Decontamination of drill angers after well installation

Photo 7 – Excavation activities at JETC

Photo 8 – Excavation activities at JETC with fiber optic conduit exposed

Photo 9 – Transportation and Disposal at JETC

Photo 10 – View of tadem trailer truck during transportation and disposal activities at JETC

Photo 11 – Trenching activities at Building 271

Photo 12 – Trenching activities at line installation at Building 271

Photo 13 – Saw cutting asphalt pavement to facilitate trenching activities

Photo 14 – Site restoration of asphalt pavement

Photo 15 – Asphalt pavement following site restoration

Photo 16 – Line installation at Building 271

Photo 17 – Backfill of trenches at Building 271

Photo 18 – Pressure test being performed

Photo 19 – Pressure test being performed

Photo 20 – Electrical components at JETC

Photo 21 – Electrical components being performed at JETC

Photo 22 – Construction of system pad at Building 271

Photo 23 – Construction of concrete pad at Building 271

Photo 24 – Construction of well vault

Photo 25 – Construction of well vault

Photo 26 – System components during installation at JETC

Photo 27 – Installation of system components at JETC

Photo 28 – Delivery of compressor at JETC

Photo 29 – Construction of AS system compound at JETC seen from West

Photo 30 – View of JETC AS System and stockpile of petroleum-contaminated soil, seen from the West

Photo 31 – Construction of AS System at Building 271 seen from East

Photo 32 – AS System prior to fence installation at Building 271, seen from South

Appendix B

Utility Locate Documentation

Stephanie Helburn

m: irth_host@callsunshine.com
t: Friday, August 01, 2003 10:38 AM
To: Stephanie Helburn
Subject: SSOCOF CONFRM 2003/08/01 #00001 21331504-000 NORM NEW

CONFRM 00001 CALL SUNSHINE 08/01/03 10:37:33ET 21331504-000 GRID
Ticket : 21331504 Rev:000 Taken: 08/01/03 10:12ET

State: FL Cnty: DUVAL Place: JACKSONVILLE
Subdivision:

JETC

9/2/03
BonnieG FL one call
B.S.
City of Jax Traffic
Com Cast
JEA
JEA WSBU
People Gas
#24535605

Address :
Street : JET RD
Cross 1 : CECIL PINE ST Within 1/4 mile: Y
Cross 2 : SKY MASTER RD

Locat: LOCATE JET RD BOTH SIDES OF RD FROM CECIL PINE ST TO SKY MASTER RD
:
Remarks : GRIDDED PER CUSTOMERS DIRECTIONS: AT INTER OF AVIATION AVE AND LOOP
RD GO W ON LOOP RD APPROX 100FT TO JET RD WHICH RUNS N AND S THEN AT INTER OF
AVIATION AVE AND LOOP RD GO APPROX 1/4MI S ON AVIATION AVE TO CECIL PINE ST
WHICH RUNS E AND W THEN AT INTER OF AVIATION AVE AND LOOP RD GO S APPROX 300FT
TO SKY MASTER RD WHICH RUNS E AND W

GEOCODED PLACE IS JACKSONVILLE ***
*** LOOKUP BY MANUAL ***
*** HORIZONTAL DRILLING ***
:
Grids : 3014D8152A 3014C8152A 3014D8153D 3014C8153D

Work date: 08/05/03 Time: 23:59ET Hrs notc: 061 Category: 3 Duration: 03 WKS
Due Date : 08/05/03 Time: 23:59ET
Work type: DIRECTIONAL DRILLING
Ug/Oh/Both: U Machinery: Y Depth: UNK Permits: Y PENDING
Done for : SELF

Company : AERO STAR ENVIRONMENTAL Type: CONT
Co addr : 11181 ST JOHNS INDUSTRIAL PKWY N
City : JACKSONVILLE State: FL Zip: 32246
Caller : STEPHANIE HELBURN Phone: 904-565-2820
Contact : RICK MCCANN Phone: 904-565-2820
BestTime: 8-5
Mobile : 904-347-9937
Fax : 904-565-2830
Email : SHELBURN@AEROSTAR.NET

Kevin w/ central locate
for Bell South
& ComCast
237-0314

Submitted: 08/01/03 10:12ET Oper: LAU Chan: 33
Mbrs : CCTV03 CJT787 JEA JEA773 LS1104 PGSJAX SBF17

Pat w/ Peoples Gas
759-5791
Call w/ questions
(Aug 5, 2003)

Stephanie Helburn

From: irth_host@callsunshine.com
Sent: Friday, August 01, 2003 10:44 AM
To: Stephanie Helburn
Subject: SSOCOF CONFRM 2003/08/01 #00001 21331551-000 NORM NEW

CONFRM 00001 CALL SUNSHINE 08/01/03 10:43:31ET 21331551-000 GRID
Ticket : 21331551 Rev:000 Taken: 08/01/03 10:37ET

State: FL Cnty: DUVAL Place: JACKSONVILLE
Subdivision:

Bldg. 271

Address :
Street : CECIL PINE ST
Cross 1 : MCCARTHY WAY Within 1/4 mile: Y

Locat: CECIL PINE ST AND MCCARTHY WAY LOCATE ENTIRE INTERSECTION
:
Remarks : AT INTER OF AVIATION AVE AND LOOP RD GO APPROX 1/4MI S ON AVIATION
AVE TO CECIL PINE ST WHICH RUNS E AND W THEN GO APPROX 600FT E ON CECIL PINE ST
TO MCCARTHY WAY
*** GEOCODED PLACE IS JACKSONVILLE ***
*** LOOKUP BY MANUAL ***
:
Grids : 3014D8152A

9/2/03
Bonnie G FL one call
1-800-432-4770
thru Sept. 22
BS
City of Jax Traffic
Com Cast Cable
JEA
JEA WSBU
People's Gas
#24535512

Work date: 08/05/03 Time: 23:59ET Hrs notc: 061 Category: 3 Duration: WKS
Date : 08/05/03 Time: 23:59ET
Work type: DRILLING
Ug/Oh/Both: U Machinery: Y Depth: UNK Permits: Y PENDING
Done for : SELF

Company : AERO STAR ENVIRONMENTAL Type: CONT
Co addr : 11181 ST JOHNS INDUSTRIAL PKWY N
City : JACKSONVILLE State: FL Zip: 32246
Caller : STEPHANIE HELBURN Phone: 904-565-2820
Contact : RICK MCCANN Phone: 904-565-2820
BestTime: 8-5
Mobile : 904-347-9937
Fax : 904-565-2830
Email : SHELBURN@AEROSTAR.NET

Kevin w/ Central locate for BellSouth & ComCa
237-0314

Submitted: 08/01/03 10:37ET Oper: LAU Chan: 33
Mbrs : CCTV03 CJT787 JEA JEA773 LS1104 PGSJAX SBF17

Pat w/ Peoples Gas
Called Aug 5, 2003
759-5791
↳ have @ least 2 plastic & 1 steel line out along Cecil Pines & McCarthy way
↳ call if can't find marks or w/ questions

To: AERO STAR ENVIRONMENTAL
Attn: STEPHANIE HELBURN
Voice: 904-565-2820
Fax: 904-565-2830

Re: Locating facilities in the area of your excavation

This is an important Safety Message from TECO Energy.

We are replying to your request to locate our underground facilities in an area where you are planning excavation work.

The following is the current status of our facility marking in the area specified in your notification.

Ticket number 21331504 is: Marked for Peoples Gas facilities with yellow paint, flags, stakes, or signs. Please hand excavate 24" on either side of the mark to find the exact location of the pipeline. If you have any questions about this, call Peoples Gas at 1-877-832-6747.

County: DUVAL
Place :
Street: JET RD

Ticket number 21331551 is: Marked for Peoples Gas facilities with yellow paint, flags, stakes, or signs. Please hand excavate 24" on either side of the mark to find the exact location of the pipeline. If you have any questions about this, call Peoples Gas at 1-877-832-6747.

County: DUVAL
Place :
Street: CECIL PINE ST

Thank you for using Sunshine State One Call of Florida to notify us.
PLEASE DIG SAFELY.

Central Locating Service

Callback Report

Region: 303104
All Districts
All Companies
All Fax Numbers for the Company
From 08/05/2003 12:00:00 AM
Through 08/05/2003 11:59:59 PM

Company: AERO STAR ENVIRONMENTAL **Fax Number:** 904-565-2830

Ticket Number / Member Code	Work to Begin Date/Time / Visit Type	County / Result	City	Address	Contact	Phone
FL21331504	08/05/2003 11:59:00 PM	DUVAL	JACKSONVILLE	JET RD	STEPHANIE HELBURN	904-565-2820
CCTV03	CATV4	Excavation Site Clear				
SBF17	PHONE6	Painted				
FL21331551	08/05/2003 11:59:00 PM	DUVAL	JACKSONVILLE	CECIL PINE ST	STEPHANIE HELBURN	904-565-2820
CCTV03	CATV4	Excavation Site Clear				
SBF17	PHONE6	Painted				

If you have problems with this fax please contact:
Central Locating Services (352)343-8770

JACKSONVILLE AIRPORT AUTHORITY

DATE SUBMITTED:
CF JAA PERMIT #
339-001

JACKSONVILLE AIRPORT AUTHORITY CECIL FIELD

DIG PERMIT/REQUEST

1. Costs associated with utility locates will be the responsibility of the requestor.

2. The requestor is responsible for the repair of any utilities damaged during the digging operation. Hand digging to locate lines is recommended.

3. The JAA Cecil Field Aviation does not accept any financial responsibility associated with repairs due to any other damage associated with this request.

4. Contact 'Sunshine State One Call Center' to coordinate all your utility locates. The service is free of charge.

REQUESTOR (NAME): Rick McCann PHONE NUMBER: (904) 591-6587 cell

COMPANY: Aerostar Env. Svcs. REQUEST DATE: 9/5/03

LOCATION(S): (Attach Map) JTS Facility (Flightline Rd)

PURPOSE: Well Installation activities, piping trenches, and Source removal (excavation) activities associated w/ installation of air sparging (remediation) System.

UTILITY LOCATED AND/OR AREA SCREENED (Sunshine State One Call Center: 1-800-432-4770)

	YES	NO
GAS:	✓	
ELECTRICAL:	✓	
WATER:	✓	
SEWAGE:	✓	
CABLE:	✓	
TELEPHONE:	✓	
STORMWATER:	✓	

COMMENTS: Utility Locate Ticket Enclosed

N/A

(Maintenance) Aviation Facilities Coordinator — Approval/Disapproval Date:

Jason Lain

Senior Resident Inspector — Approval/Disapproval Date: 9/10/03

(Env/Planning/Eng) Facilities Manager — Approval/Disapproval Date:

Comments:

All utilities known have been located. We recommend that the contractor hand digs in all areas for unknown utilities.

Aviation Facilities Coordinator: Roy Craigue - 573-1607
Facilities Manager: Diana Stone 573-1604
Senior Resident Inspector: Jason Lain 573-1603

EXCAVATION / UTILITY LOCATE REQUEST

☆ Bldg 271 ☆

1) J. A. Jones Global Services, Inc. (JAJGS) is responsible for the coordination of excavation requests on Cecil Commerce Center. The requestor is responsible for providing drawings of the excavation site and coordination with the Florida Central Locate Service.

2) Costs associated with this excavation request will be the responsibility of the requestor. Details for payment will be coordinated with J. A. Jones.

3) The City does not accept any financial responsibility associated with repairs due to damage to utilities that were not previously identified by the utility locate service. The contractor or agency requesting the utility locate will accept this responsibility.

POC: Richard McCann Phone #: (904) 565-2820

Company: Aerostar Environmental Services, Inc. Request Date: 9/2/03

Fax # (904) 565-2830 Duration of On-Site Work: Approx. 60 days

Date Clearance Required: 9/9/03

Location of Dig Site: Former Bldg. 271 Site - SE portion of intersection of Cecil Pines Street and McCarthy Way

Method of Excavation: Backhoe & Shovel by hand

Type of Work to be Performed: Installation of Air Sparge System

FL Central Locate Service: 1-800-432-4770

Locate Permit Number: #24535512 Valid Until (Date): 9/22/03

Remarks: JAJGS Fax # (904) 771-9525

Richard L. McCann 9/2/03
Requestor's Signature Date

Occupants Notified for this Request (performed by JAJGS):

JAJGS Representative

JAJGS Environmental Representative

JEDC Representative

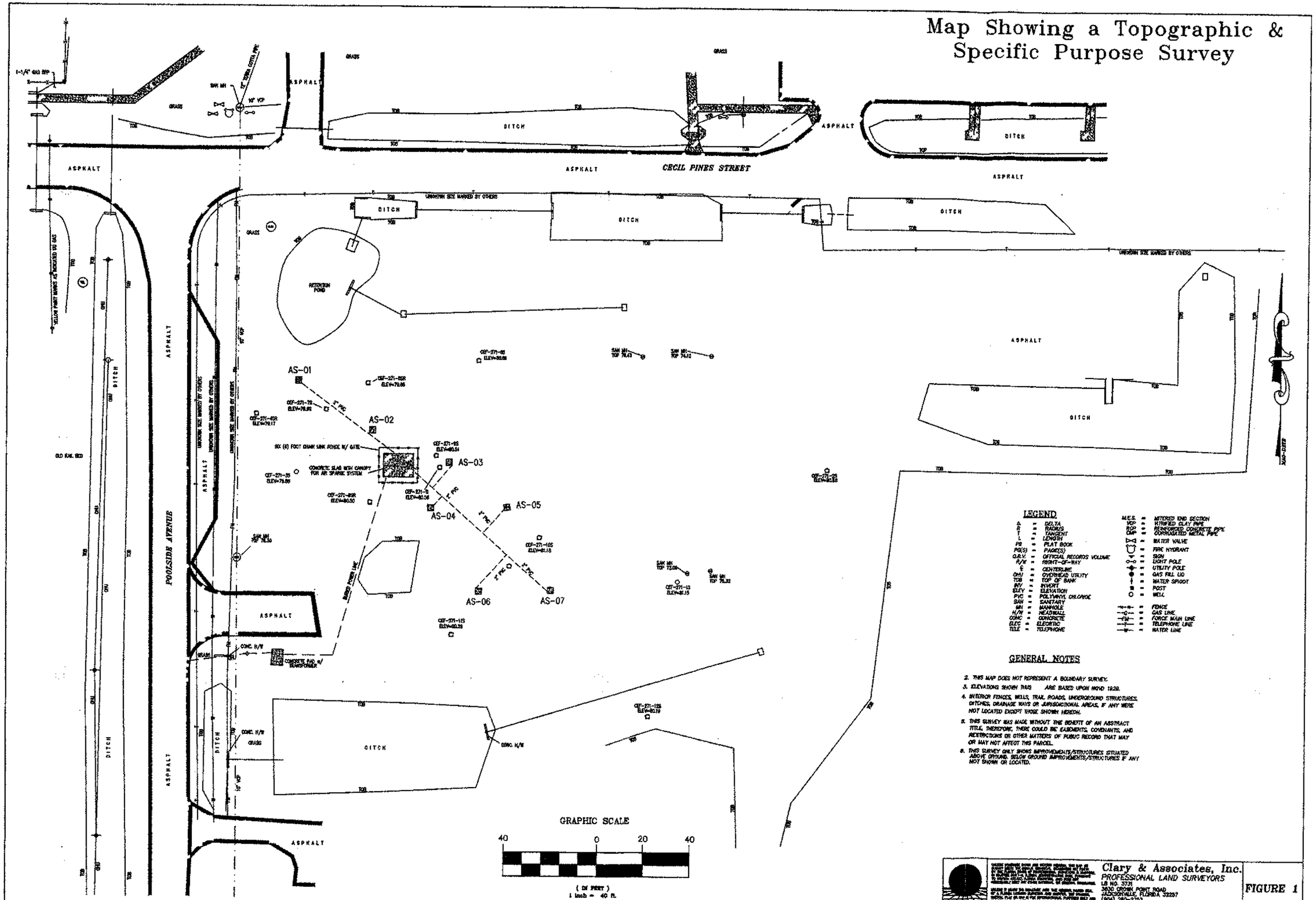
NOTE: Approval of this locate request DOES NOT fulfill the requirements to obtain all necessary governmental permits, licenses and/or approvals.

Local Form 5-Excavation Utility Locate Request
dd 9/27/01

Appendix C

As-built Construction Drawings – Building 271

Map Showing a Topographic & Specific Purpose Survey



LEGEND

Δ = DELTA		M.E.S. = MITERED END SECTION	
R = RADIUS		VCP = VITRIFIED CLAY PIPE	
T = TANGENT		RCP = REINFORCED CONCRETE PIPE	
L = LENGTH		CMP = CORRUGATED METAL PIPE	
PB = PLAT BOOK		= WATER VALVE	
PG(S) = PAGE(S)		= FIRE HYDRANT	
O.R.V. = OFFICIAL RECORDS VOLUME		= SIGN	
R/W = RIGHT-OF-WAY		= LIGHT POLE	
℄ = CENTERLINE		= UTILITY POLE	
OHU = OVERHEAD UTILITY		= GAS FILL LID	
TOB = TOP OF BANK		= WATER SPIGOT	
INV = INVERT		= POST	
ELEV = ELEVATION		= WELL	
PVC = POLYVINYL CHLORIDE			
SAN = SANITARY		= FENCE	
MH = MANHOLE		= GAS LINE	
H/W = HEADWALL		= FORCE MAIN LINE	
CONC = CONCRETE		= TELEPHONE LINE	
ELEC = ELECTRIC		= WATER LINE	
TELE = TELEPHONE			

GENERAL NOTES

2. THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY.
3. ELEVATIONS SHOWN THUS ARE BASED UPON NGVD 1929.
4. INTERIOR FENCES, WELLS, TRAIL ROADS, UNDERGROUND STRUCTURES, DITCHES, DRAINAGE WAYS OR JURISDICTIONAL AREAS, IF ANY WERE NOT LOCATED EXCEPT THOSE SHOWN HEREON.
5. THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF AN ABSTRACT TITLE, THEREFORE, THERE COULD BE EASEMENTS, COVENANTS, AND RESTRICTIONS OR OTHER MATTERS OF PUBLIC RECORD THAT MAY OR MAY NOT AFFECT THIS PARCEL.
6. THIS SURVEY ONLY SHOWS IMPROVEMENTS/STRUCTURES SITUATED ABOVE GROUND. BELOW GROUND IMPROVEMENTS/STRUCTURES IF ANY NOT SHOWN OR LOCATED.

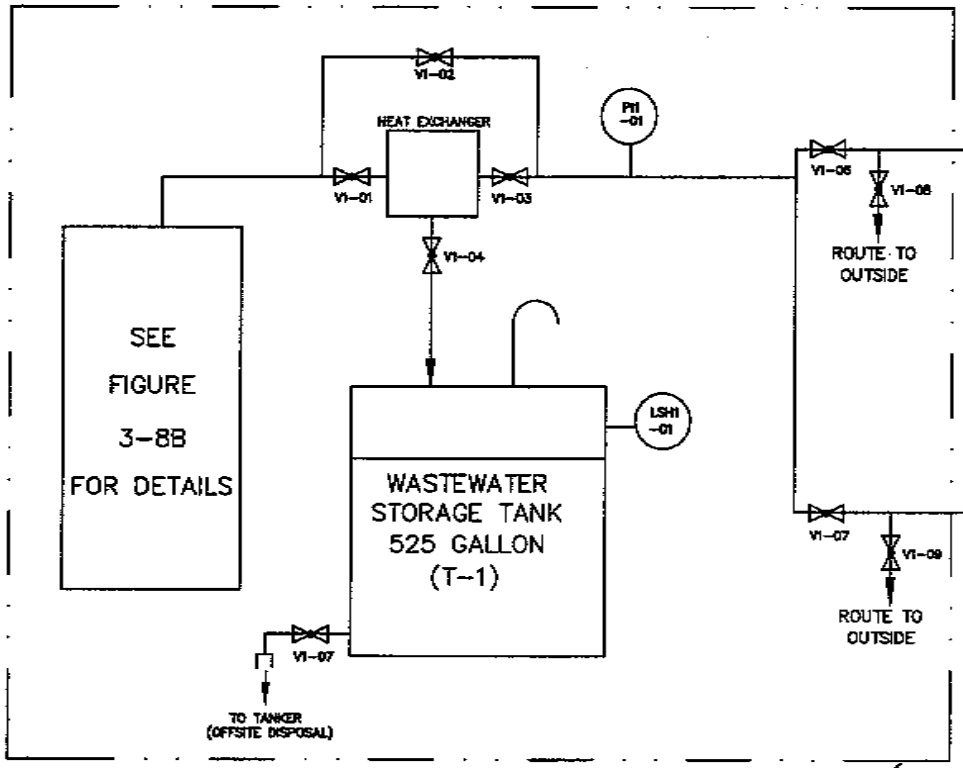
Clary & Associates, Inc.
PROFESSIONAL LAND SURVEYORS
LB NO. 3731
3630 CROWN POINT ROAD
JACKSONVILLE, FLORIDA 32257
(904) 260-2753

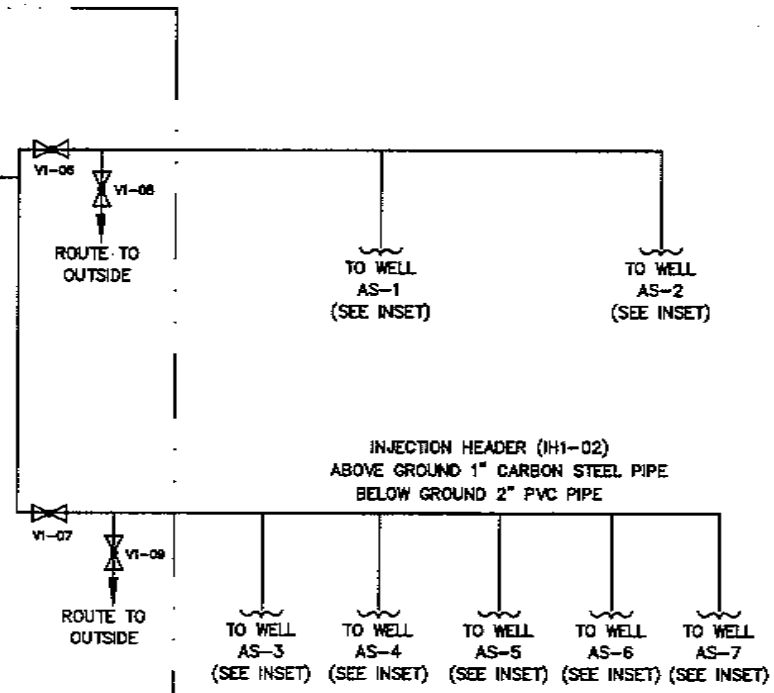
DATED SEPTEMBER 10, 2003
SCALE 1" = 40'
DENNIS E. ELSWICK, P.L.S. No. 3160

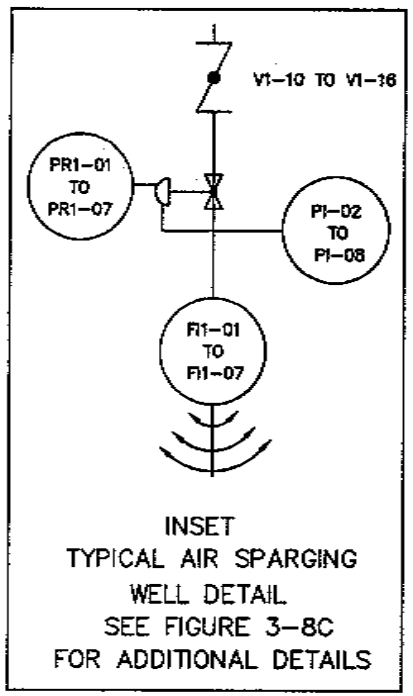
FIGURE 1

FILE No.

JOB No. 2003-489 DRAFTING: JKM PARTY CHIEF: SEXTON F.B. EFB CAD FILE: 2003-489.DWG CHECKED BY:







LIMITS OF EQUIPMENT COMPOUND

WELL	BUTTERFLY VALVE	PRESSURE REGULATOR	PRESSURE INDICATOR	PRESSURE INDICATOR
AS-1	V1-10	PR1-01	PI1-02	FI1-01
AS-2	V1-11	PR1-02	PI1-03	FI1-02
AS-3	V1-12	PR1-03	PI1-04	FI1-03
AS-4	V1-13	PR1-04	PI1-05	FI1-04
AS-5	V1-14	PR1-05	PI1-06	FI1-05
AS-6	V1-15	PR1-06	PI1-07	FI1-06
AS-7	V1-16	PR1-07	PI1-08	FI1-07

LEGEND

FI	FLOW INDICATOR
HS	HAND SWITCH
IH	INJECTION HEADER
PCV	PRESSURE RELIEF VALVE
PI	PRESSURE INDICATOR
PR	PRESSURE REGULATOR
AS	SPARGE WELL
KIC	TIMER INDICATOR CONTROLLER

QUICK DISCONNECT COUPLING

PRESSURE REGULATOR

BUTTERFLY VALVE

GATE VALVE

Scale in Feet: NOT TO SCALE

Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271

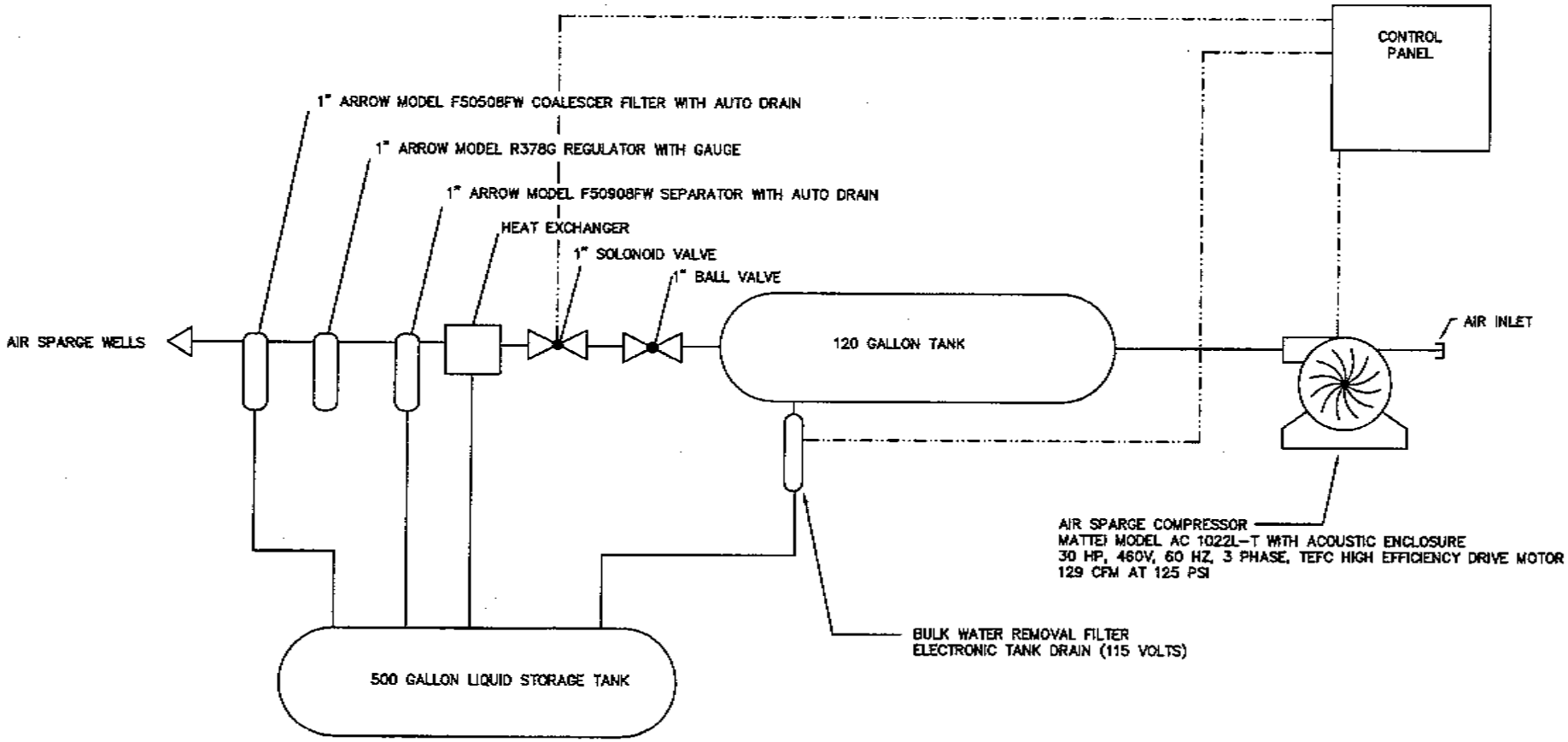
AEROSTAR ENVIRONMENTAL SERVICES, INC.

Date: 8/15/03	Project Number: 0103-329-09
File Name: AS-PID2	Manager: J.O.S.
Checked By: J.O.S.	Drawn By: J.O.S.

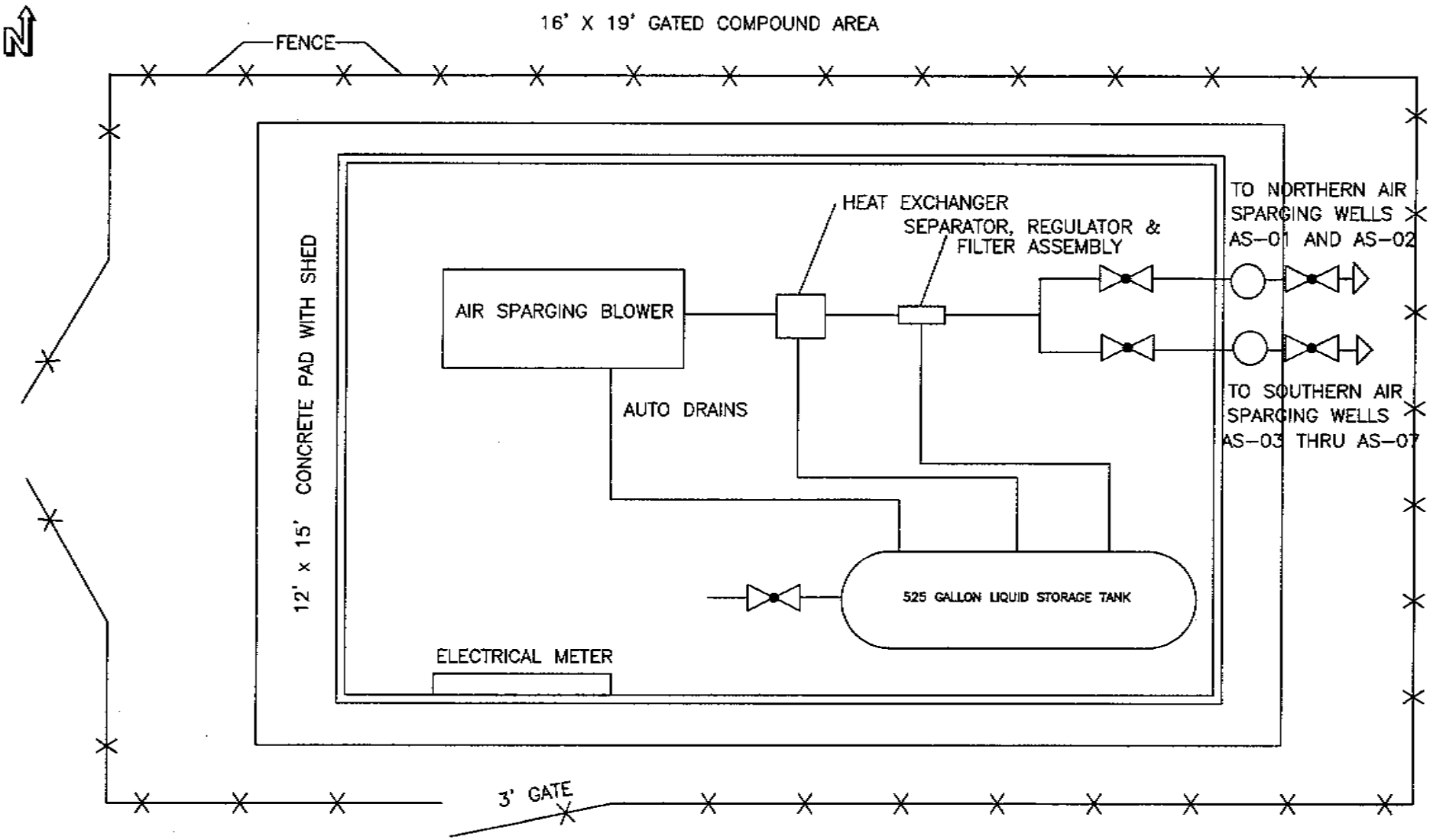
AIR SPARGING PROCESS AND INSTRUMENTATION DIAGRAM (AS REVISED BY AEROSTAR)

Figure 3

PLEASE NOTE: THIS P&ID DRAWING IS A SUPPLEMENT TO THE P&ID DRAWINGS SHOWN IN THE CCI BID PACKAGE AS DRAWINGS 3-3 AND 3-8. THIS DRAWING REPLACES THE "AIR SPARGE BLOWER" OF EACH OF THOSE DRAWINGS WITH AN "AIR COMPRESSOR". ALL OTHER ITEMS OF THE CCI P&ID ARE UNCHANGED, EXCEPT THAT (DUE TO THE HIGHER PRESSURE OF THE COMPRESSOR) ALL AIR PIPING IN THE COMPOUND IS 1-INCH METAL VICE 2-INCH.



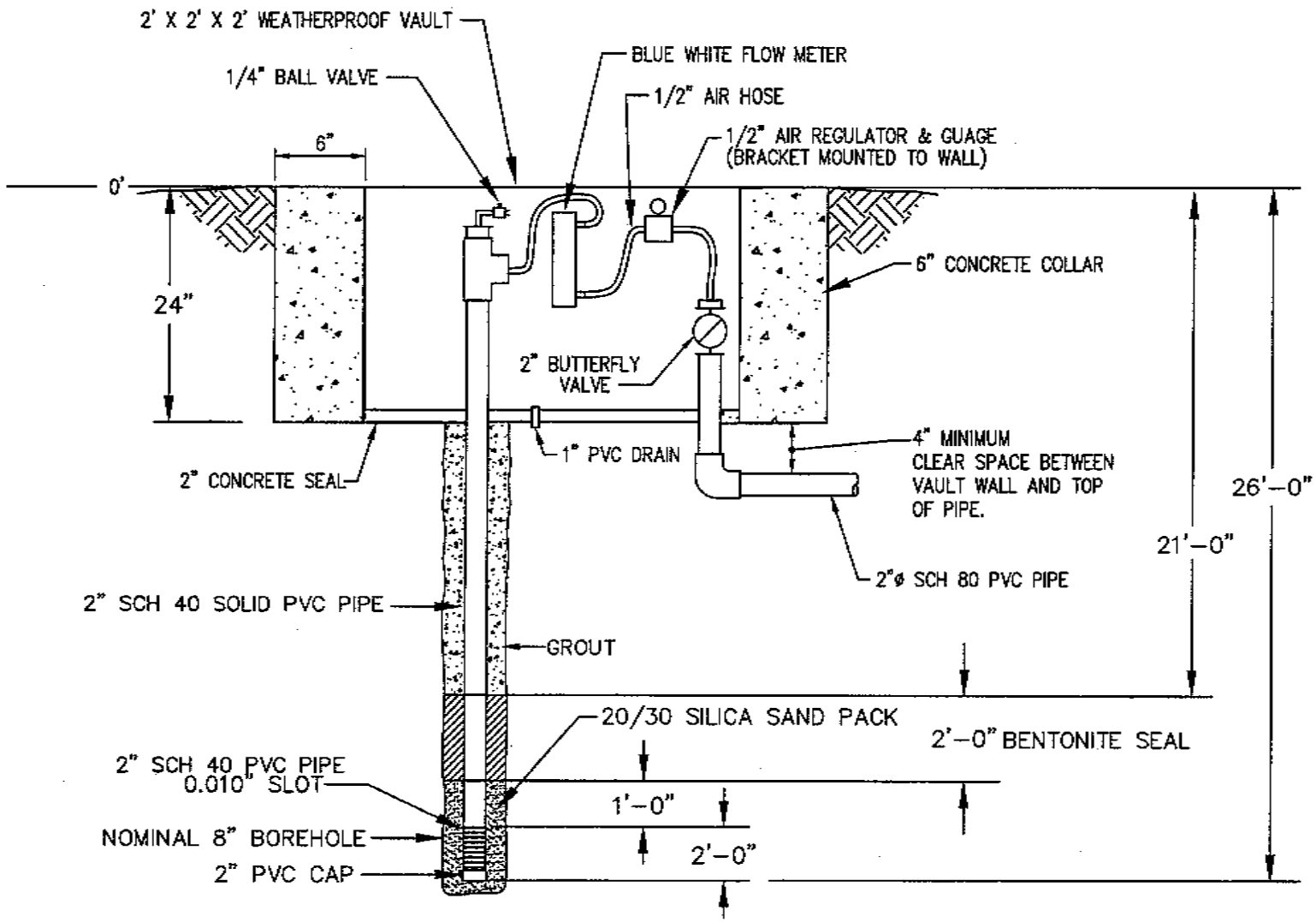
Scale In Feet: NOT TO SCALE		Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 8/15/03	Project Number: 0103-329-09	SUPPLEMENTAL AIR SPARGING PROCESS AND INSTRUMENTATION DIAGRAM	Figure 4
File Name: AS-PID2a	Manager: J.O.S.		
Checked By: J.O.S.	Drawn By: J.O.S.		



Scale in Feet: NOT TO SCALE	Prepared For: AIR SPARGE SYSTEM AT BUILDING 271 CECIL COMMERCE CENTER, JACKSONVILLE, FL	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 01/05/04	Project Number: 0103-329-09	
File Name: SystemLayout271	Manager: J.O.S.	
Checked By:	Drawn By: J.O.S. / K.J.S.	

EQUIPMENT COMPOUND LAYOUT

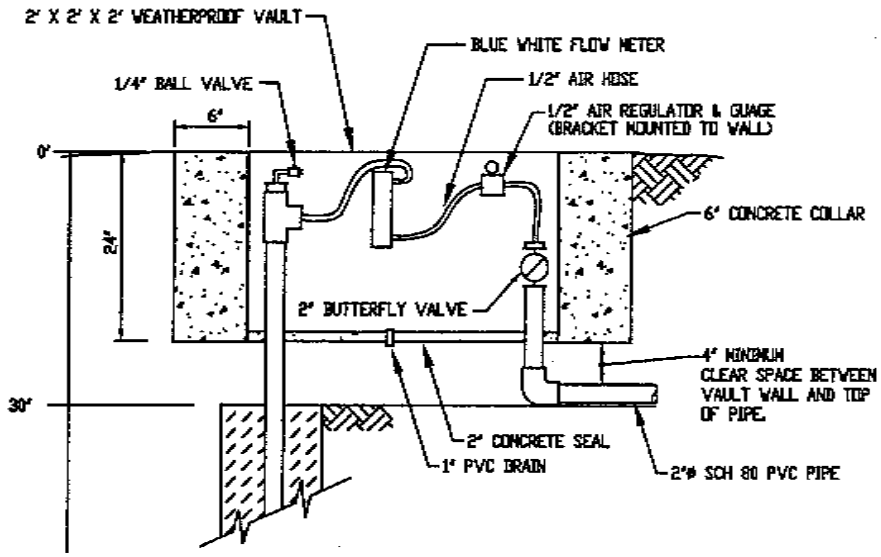
Figure 5



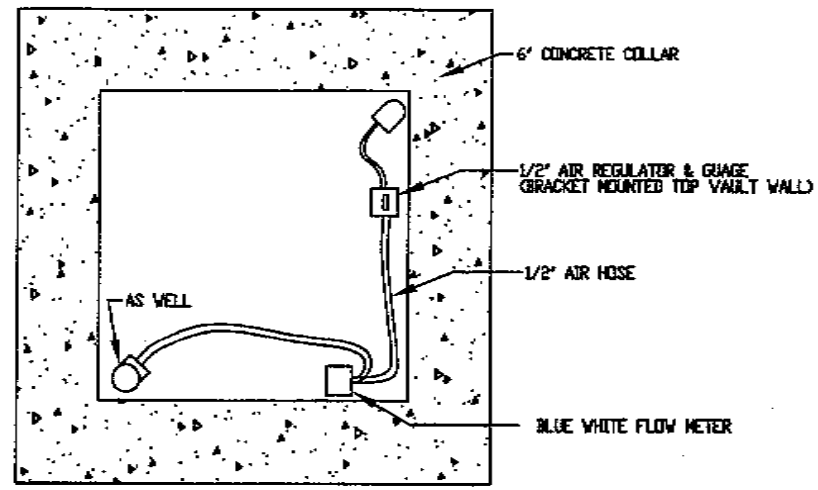
Scale in Feet: NOT TO SCALE	Prepared For: AIR SPARGE SYSTEM AT BUILDING 271 CECIL COMMERCE CENTER, JACKSONVILLE, FL	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 01/07/04	Project Number: 0103-329-09	
File Name: BLDG271WELL	Manager: J.O.S.	
Checked By:	Drawn By: J.O.S. / K.J.S.	

AIR SPARGE WELL CONSTRUCTION DETAILS

Figure 7

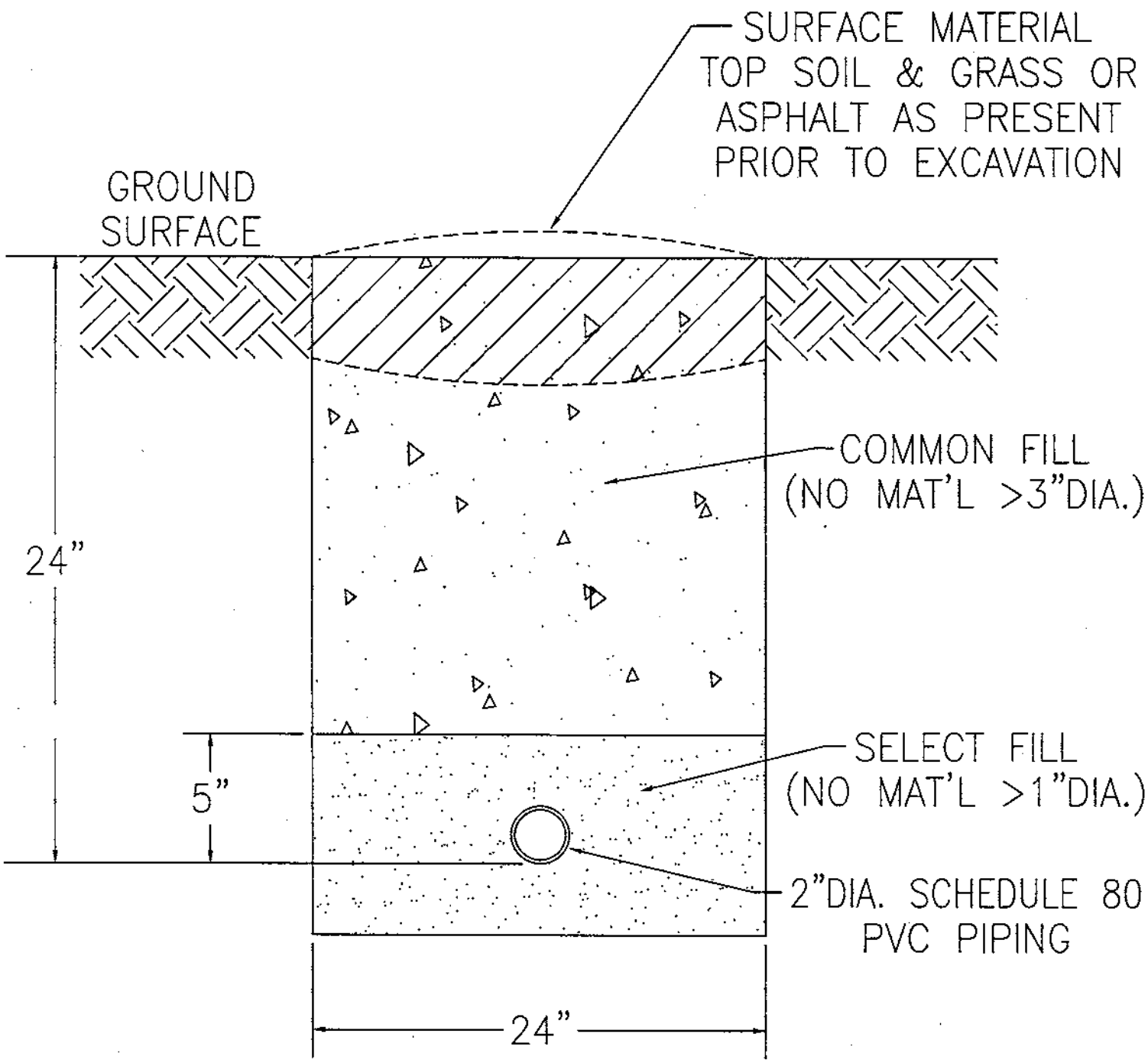


ELEVATION



PLAN

Scale In Feet: NOT TO SCALE		Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 8/15/03	Project Number: 0103-329-09	AIR SPARGE WELL VAULT DETAILS	Figure 8
File Name: AS-VAULT2	Manager: J.O.S.		
Checked By: J.O.S.	Drawn By: J.O.S.		



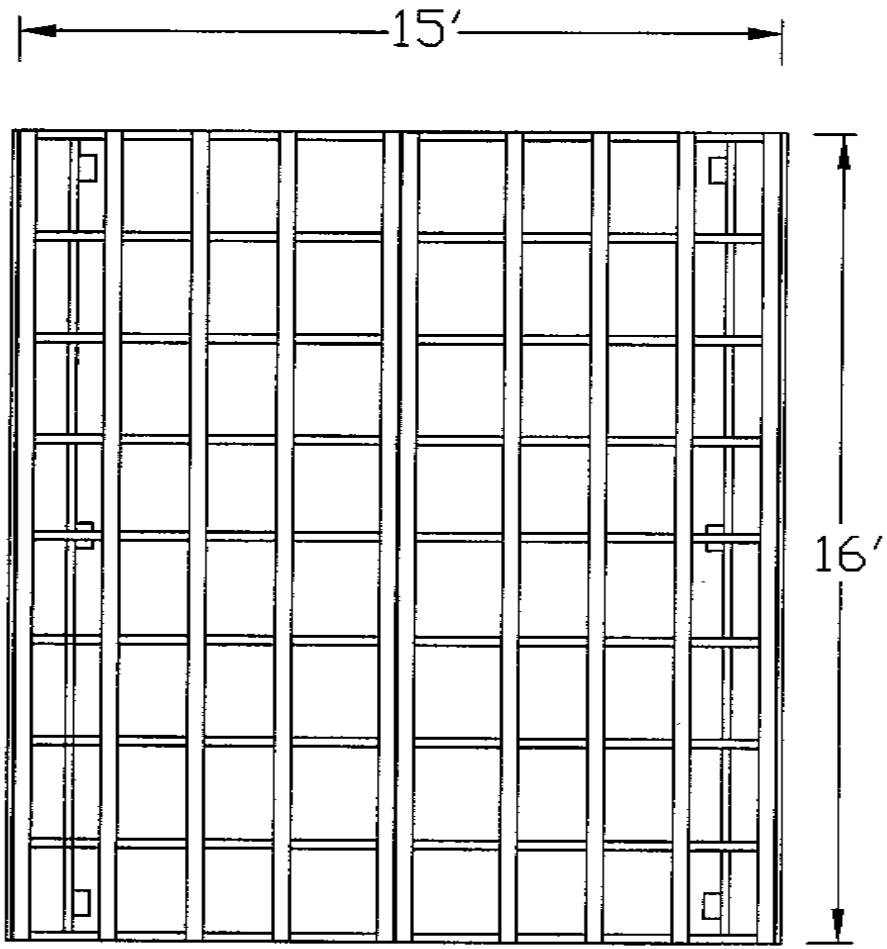
PVC PIPE TRENCH CROSS-SECTION

NOT TO SCALE

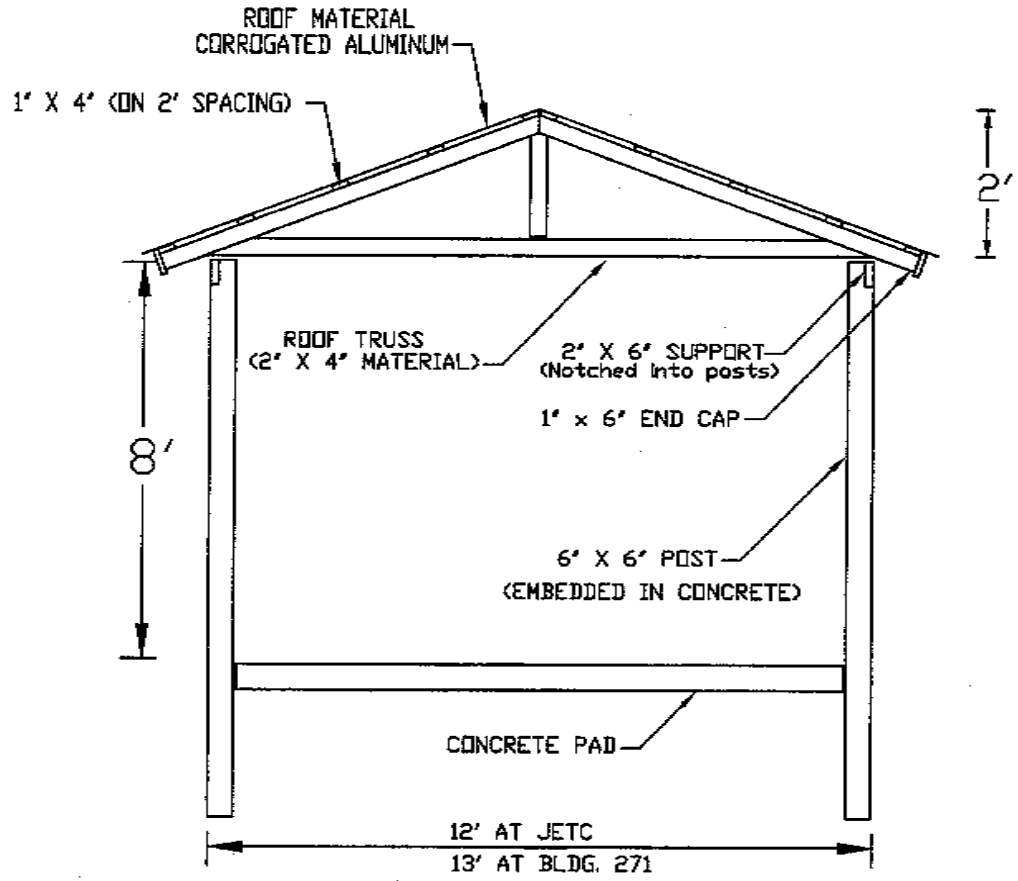
JOB #0103-329-09

FIGURE 9. TRENCH DETAILS

AEROSTAR ENVIRONMENTAL SERVICES, INC.	AIR SPARGE SYSTEMS JETC FACILITY AND BLDG. 271 JACKSONVILLE, FLORIDA	DRAWN BY: KJS DATE: 01/05/04



PLAN VIEW



ELEVATION VIEW

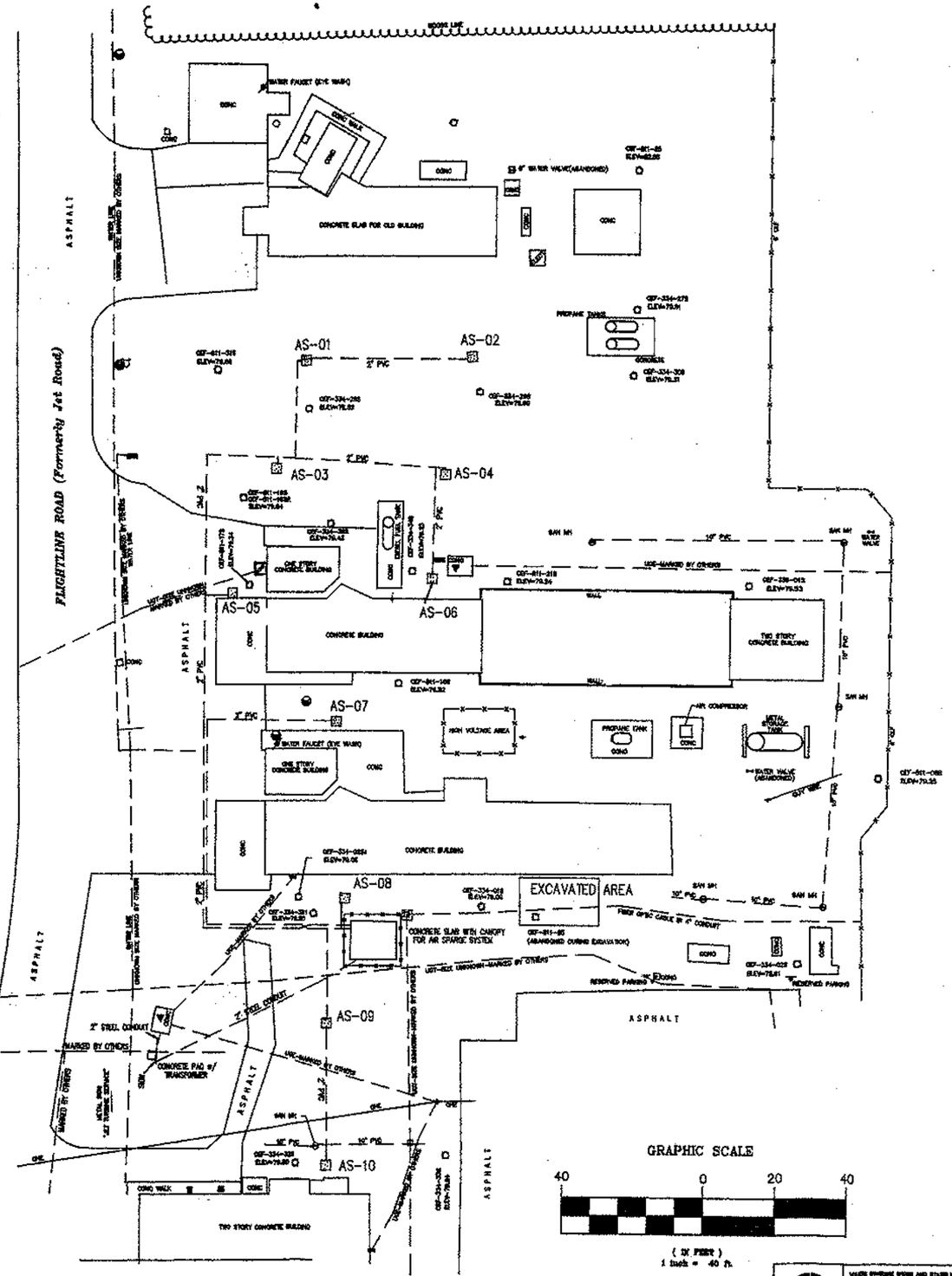
Scale In Feet: NOT TO SCALE		Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 10/13/03	Project Number: 0103-329-09	ROOF DETAILS	Figure 10
File Name: SHED2	Manager: J.O.S.		
Checked By: J.O.S.	Drawn By: J.O.S.		

Appendix D

As-built Construction Drawings – Jet Engine Test Cell

Map Showing a Topographic & Specific Purpose Survey

TO SHOW IMPROVEMENTS AND WELL LOCATIONS OF BUILDINGS 339, 334 & 811 (JET ENGINE TEST CELL)
NAVAL AIR STATION CECIL FIELD, JACKSONVILLE, FLORIDA.



LEGEND

M.E.S.	= METERED END SECTION		= TRANSFORMER
VCP	= VITRIFIED CLAY PIPE		= SANITARY MANHOLE
RCP	= REINFORCED CONCRETE PIPE		= ELECTRIC METER
CMP	= CORRUGATED METAL PIPE		= WATER METER
PB	= PLAT BOOK		= WATER VALVE
PG(S)	= PAGE(S)		= FIRE HYDRANT
O.R.V.	= OFFICIAL RECORDS VOLUME		= SIGN
R/W	= RIGHT-OF-WAY		= LIGHT POLE
℄	= CENTERLINE		= UTILITY POLE
CLF	= CHAIN LINK FENCE		= GAS FILL LID
TOB	= TOP OF BANK		= WATER FAUCET
INV	= INVERT		= POST
ELEV	= ELEVATION		= MONITORING WELL
PVC	= POLYVINYL CHLORIDE		= PROPOSED TESTHOLE
SAN	= SANITARY		= FENCE
MH	= MANHOLE		= GAS LINE
H/W	= HEADWALL		= FORCE MAIN LINE
CONC	= CONCRETE		= TELEPHONE LINE
ELECT	= ELECTRIC		= WATER LINE
UGT	= UNDERGROUND TELEPHONE		
UGE	= UNDERGROUND ELECTRIC		
OHE	= OVERHEAD ELECTRIC		

GENERAL NOTES

2. THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY.
3. ELEVATIONS SHOWN THUS ARE BASED UPON NGVD 1929.
4. INTERIOR FENCES, WELLS, TRAIL ROADS, UNDERGROUND STRUCTURES, DITCHES, DRAINAGE WAYS OR JURISDICTIONAL AREAS, IF ANY WERE NOT LOCATED EXCEPT THOSE SHOWN HEREON.
5. THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF AN ABSTRACT TITLE, THEREFORE, THERE COULD BE EASEMENTS, COVENANTS, AND RESTRICTIONS OR OTHER MATTERS OF PUBLIC RECORD THAT MAY OR MAY NOT AFFECT THIS PARCEL.
6. THIS SURVEY ONLY SHOWS IMPROVEMENTS/STRUCTURES SITUATED ABOVE GROUND. BELOW GROUND IMPROVEMENTS/STRUCTURES IF ANY NOT SHOWN OR LOCATED.

Clary & Associates, Inc.
PROFESSIONAL LAND SURVEYORS
LB NO. 3731
3830 CROWN POINT ROAD
JACKSONVILLE, FLORIDA 32257
(904) 260-2703

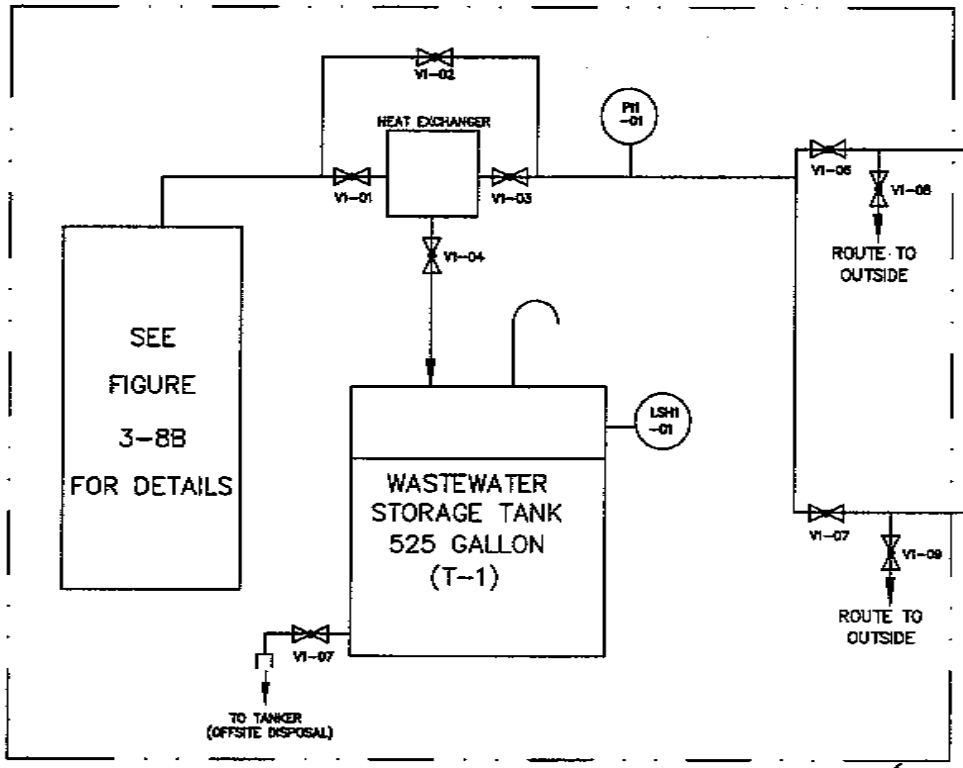
DATED SEPTEMBER 10, 2003
SCALE 1" = 40'

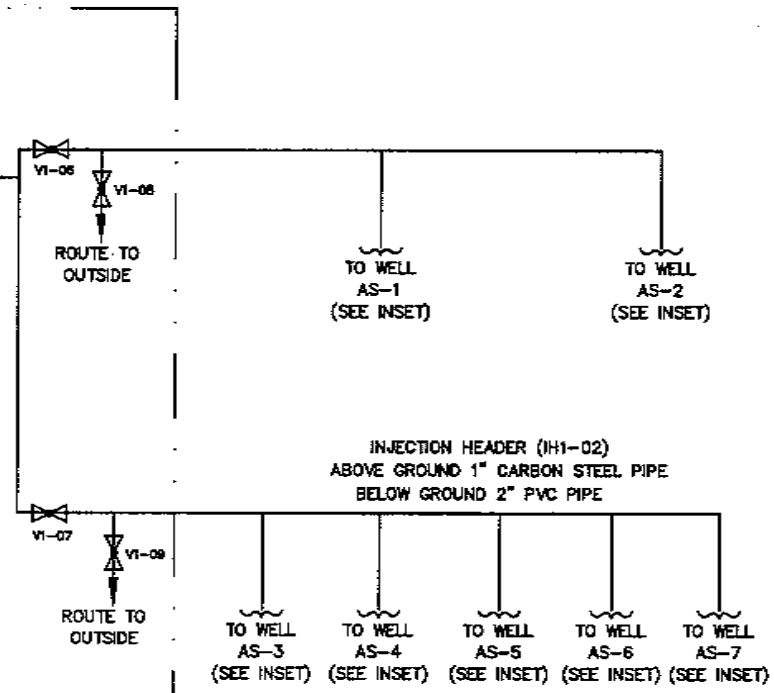
DENNIS E. ELSWICK, P.L.S. No. 3190

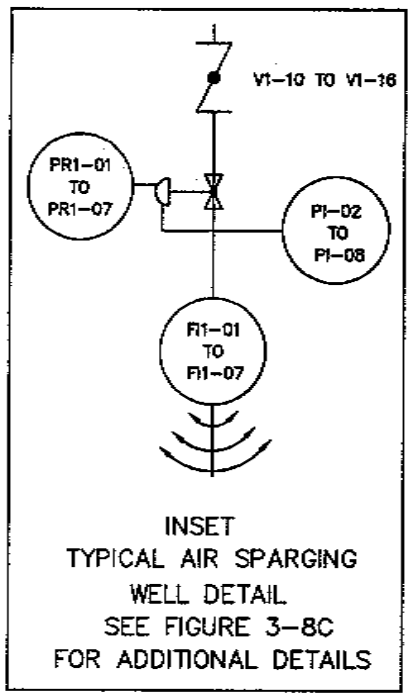
FIGURE 2

FILE No.

JOB No. 2003-489 DRAFTING: SATTERFIELD PARTY CHIEF: SEXTON F.B. EFB CAD FILE: 2003-489-2.DWG CHECKED BY:







LIMITS OF EQUIPMENT COMPOUND

WELL	BUTTERFLY VALVE	PRESSURE REGULATOR	PRESSURE INDICATOR	PRESSURE INDICATOR
AS-1	V1-10	PR1-01	PI1-02	FI1-01
AS-2	V1-11	PR1-02	PI1-03	FI1-02
AS-3	V1-12	PR1-03	PI1-04	FI1-03
AS-4	V1-13	PR1-04	PI1-05	FI1-04
AS-5	V1-14	PR1-05	PI1-06	FI1-05
AS-6	V1-15	PR1-06	PI1-07	FI1-06
AS-7	V1-16	PR1-07	PI1-08	FI1-07

LEGEND

FI	FLOW INDICATOR
HS	HAND SWITCH
IH	INJECTION HEADER
PCV	PRESSURE RELIEF VALVE
PI	PRESSURE INDICATOR
PR	PRESSURE REGULATOR
AS	SPARGE WELL
KIC	TIMER INDICATOR CONTROLLER

QUICK DISCONNECT COUPLING

PRESSURE REGULATOR

BUTTERFLY VALVE

GATE VALVE

Scale in Feet: NOT TO SCALE

Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271

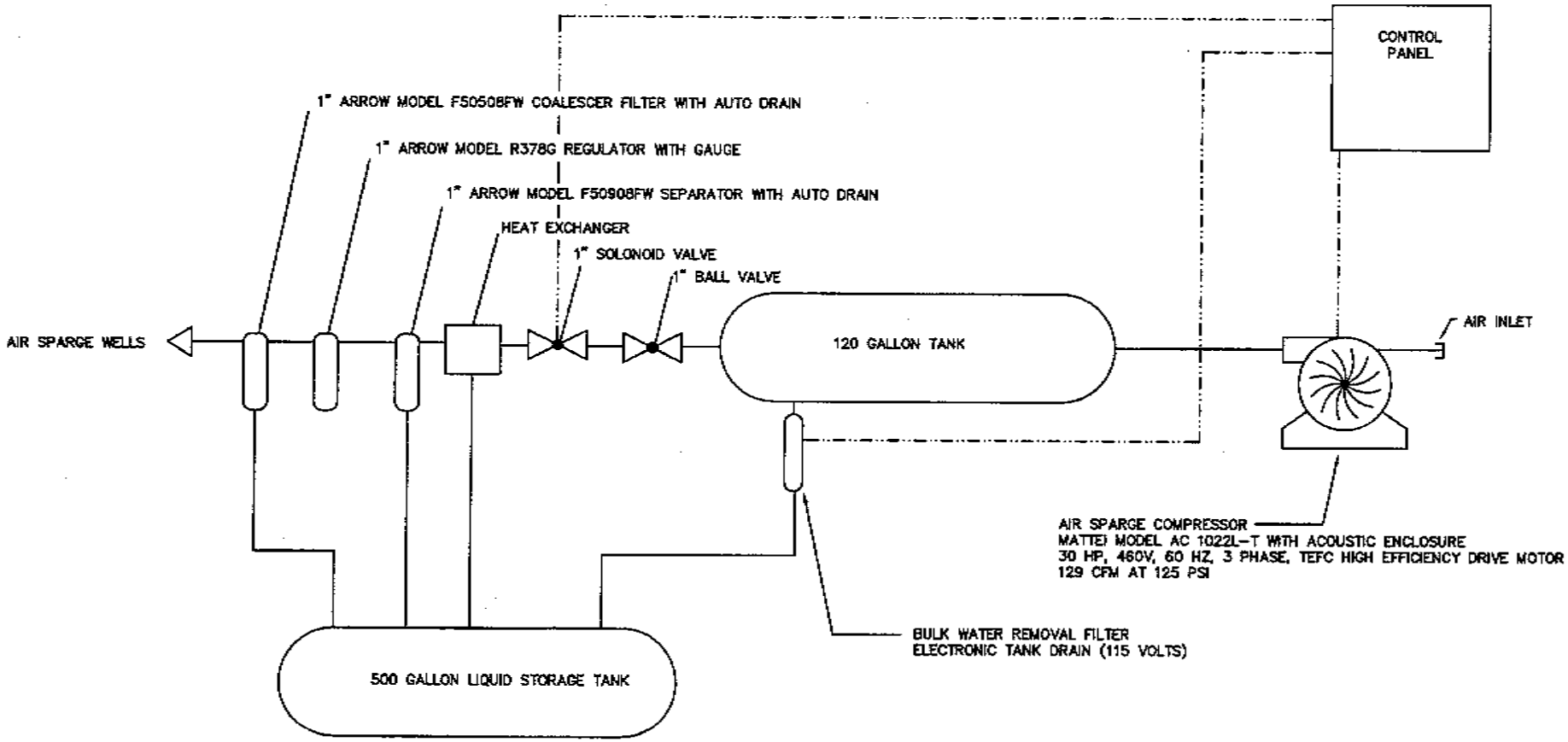
AEROSTAR ENVIRONMENTAL SERVICES, INC.

Date: 8/15/03	Project Number: 0103-329-09
File Name: AS-PID2	Manager: J.O.S.
Checked By: J.O.S.	Drawn By: J.O.S.

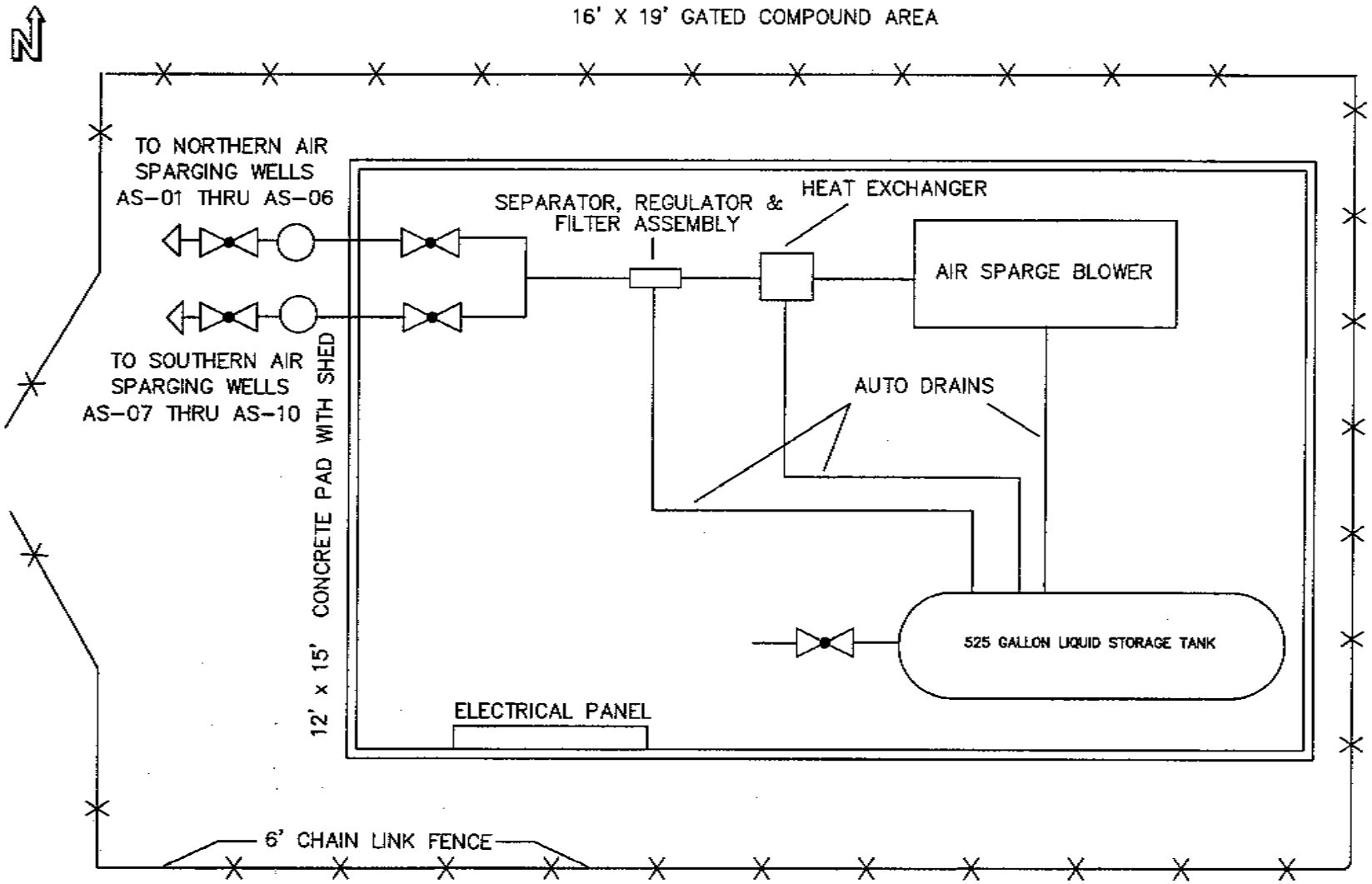
AIR SPARGING PROCESS AND INSTRUMENTATION DIAGRAM (AS REVISED BY AEROSTAR)

Figure 3

PLEASE NOTE: THIS P&ID DRAWING IS A SUPPLEMENT TO THE P&ID DRAWINGS SHOWN IN THE CCI BID PACKAGE AS DRAWINGS 3-3 AND 3-8. THIS DRAWING REPLACES THE "AIR SPARGE BLOWER" OF EACH OF THOSE DRAWINGS WITH AN "AIR COMPRESSOR". ALL OTHER ITEMS OF THE CCI P&ID ARE UNCHANGED, EXCEPT THAT (DUE TO THE HIGHER PRESSURE OF THE COMPRESSOR) ALL AIR PIPING IN THE COMPOUND IS 1-INCH METAL VICE 2-INCH.



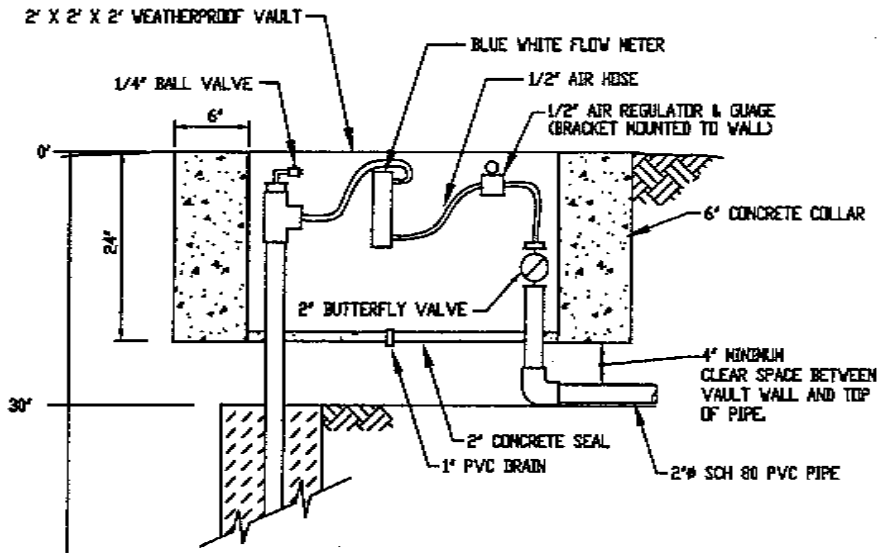
Scale In Feet: NOT TO SCALE		Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 8/15/03	Project Number: 0103-329-09	SUPPLEMENTAL AIR SPARGING PROCESS AND INSTRUMENTATION DIAGRAM	Figure 4
File Name: AS-PID2a	Manager: J.O.S.		
Checked By: J.O.S.	Drawn By: J.O.S.		



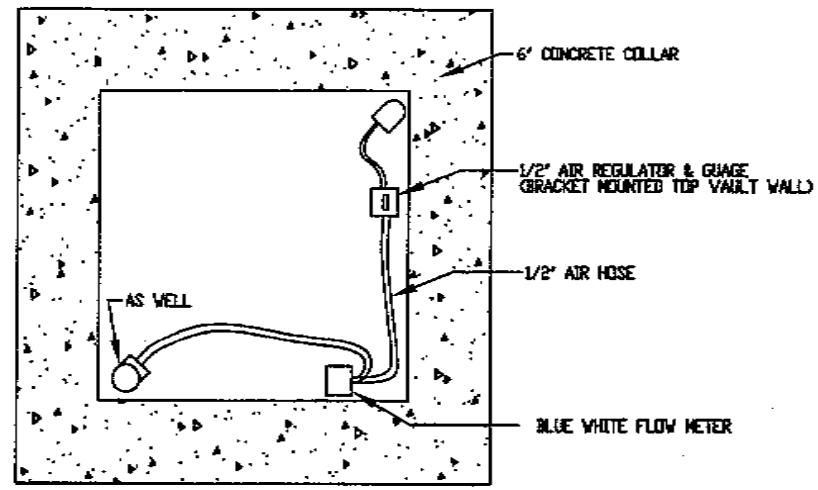
Scale in Feet: NOT TO SCALE	Prepared For: AIR SPARGE SYSTEM AT JETC FACILITY CECIL COMMERCE CENTER, JACKSONVILLE, FL	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 01/07/04	Project Number: 0103-329-09	
File Name: SystemLayoutJETC	Manager: J.O.S.	
Checked By:	Drawn By: J.O.S. / K.J.S.	

EQUIPMENT COMPOUND LAYOUT

Figure 6

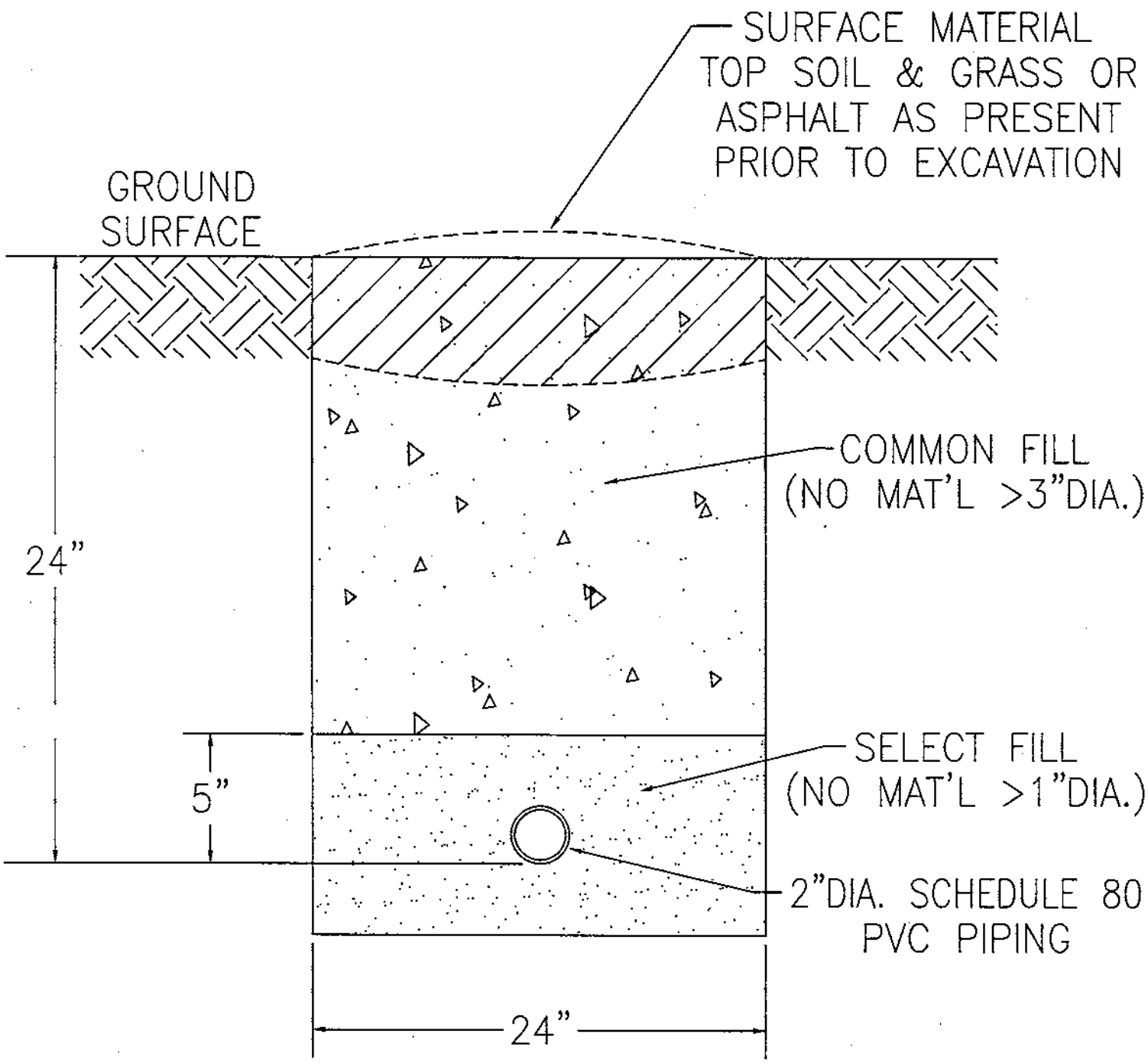


ELEVATION



PLAN

Scale In Feet: NOT TO SCALE		Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 8/15/03	Project Number: 0103-329-09	AIR SPARGE WELL VAULT DETAILS	Figure 8
File Name: AS-VAULT2	Manager: J.O.S.		
Checked By: J.O.S.	Drawn By: J.O.S.		



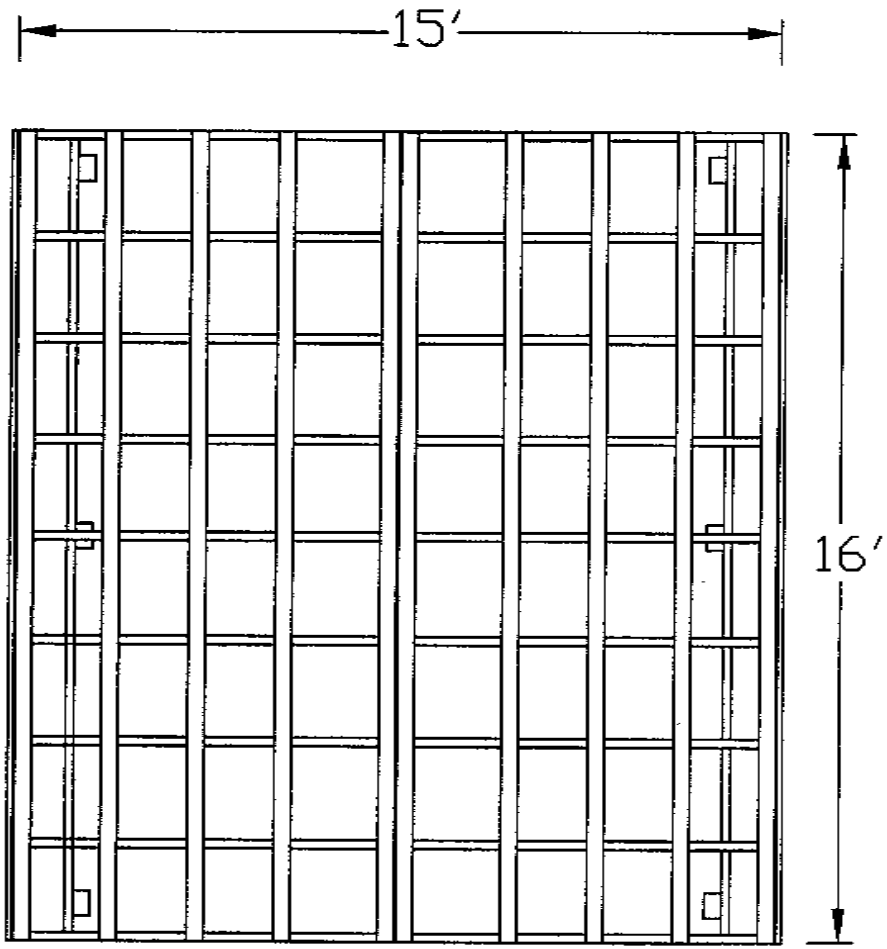
PVC PIPE TRENCH CROSS-SECTION

NOT TO SCALE

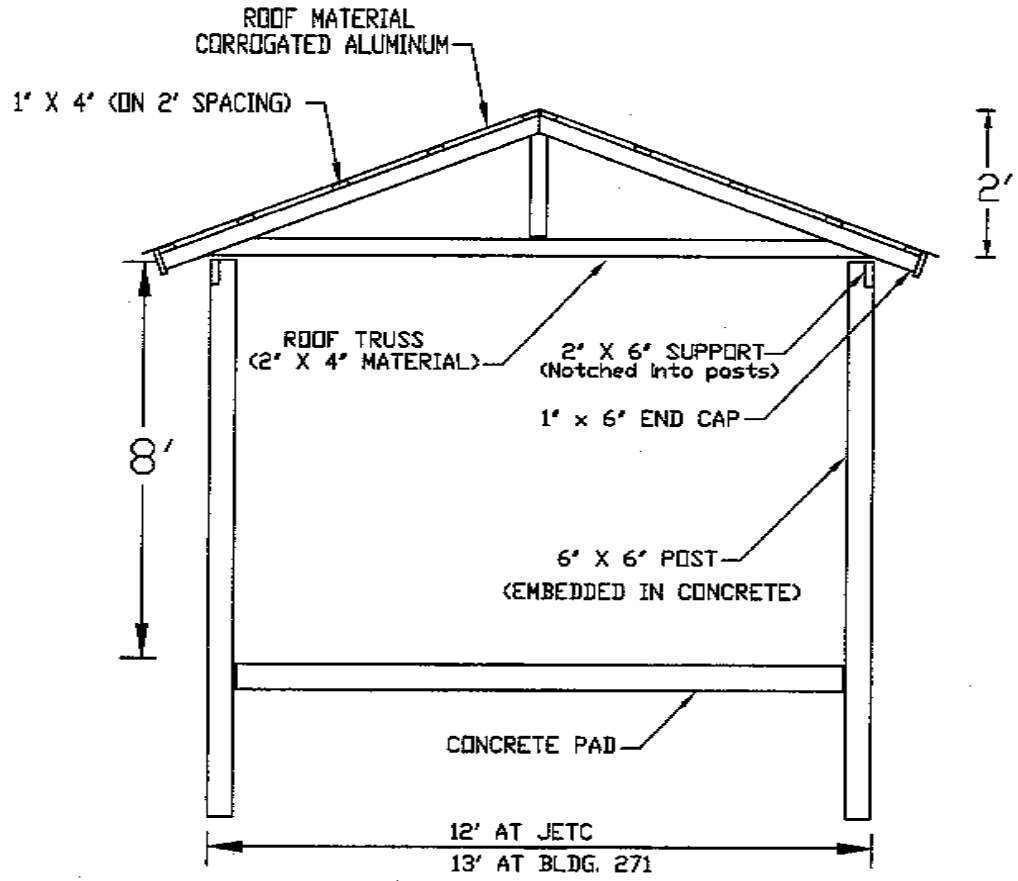
JOB #0103-329-09

FIGURE 9. TRENCH DETAILS

AEROSTAR ENVIRONMENTAL SERVICES, INC.	AIR SPARGE SYSTEMS JETC FACILITY AND BLDG. 271 JACKSONVILLE, FLORIDA	DRAWN BY: KJS DATE: 01/05/04

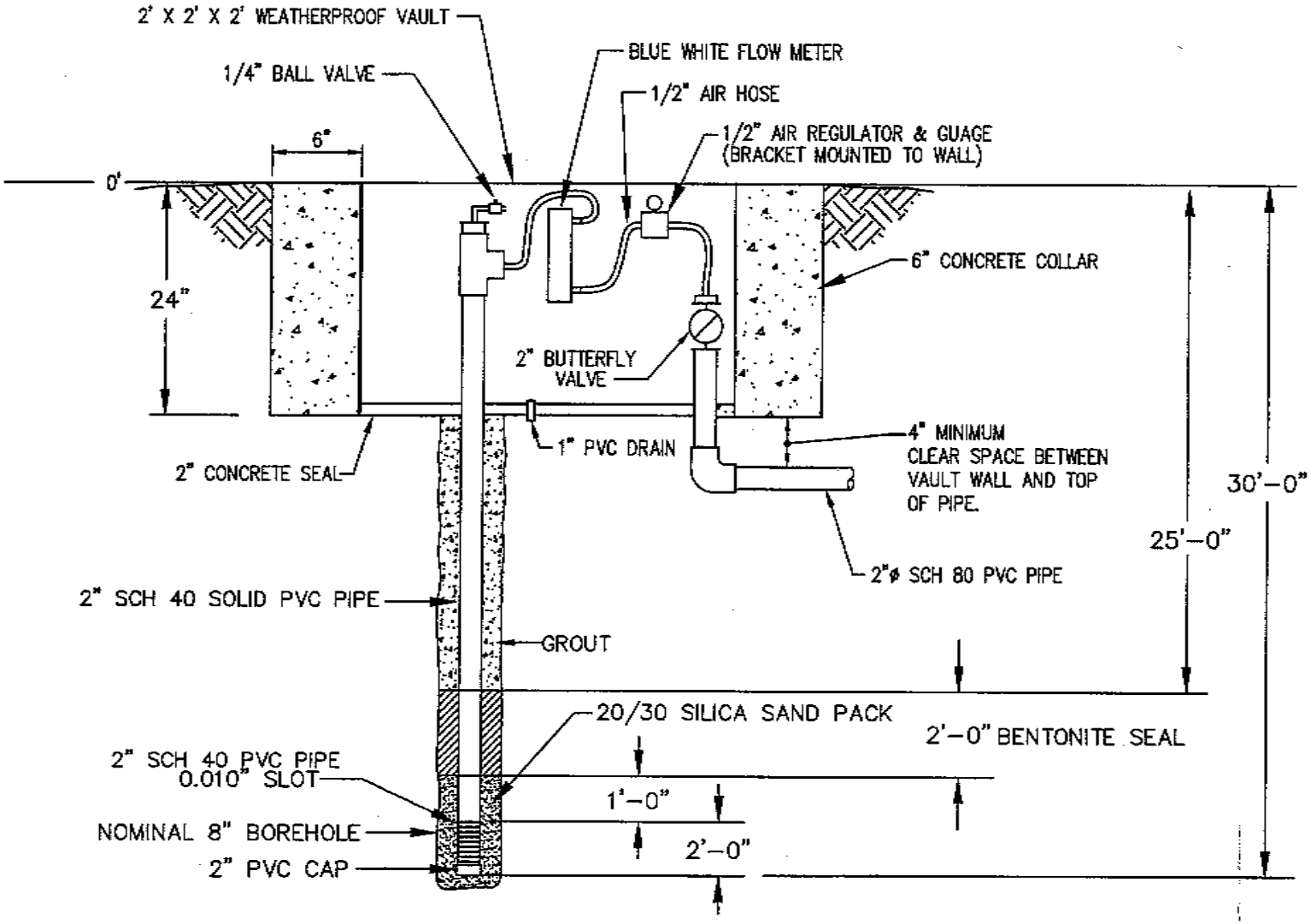


PLAN VIEW



ELEVATION VIEW

Scale In Feet: NOT TO SCALE		Prepared For: AIR SPARGE SYSTEMS AT CECIL FIELD JETC AND BUILDING 271	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 10/13/03	Project Number: 0103-329-09	ROOF DETAILS	Figure 10
File Name: SHED2	Manager: J.O.S.		
Checked By: J.O.S.	Drawn By: J.O.S.		



Scale In Feet: NOT TO SCALE	Prepared For: AIR SPARGE SYSTEM AT JETC FACILITY CECIL COMMERCE CENTER, JACKSONVILLE, FL	AEROSTAR ENVIRONMENTAL SERVICES, INC.
Date: 01/07/04	Project Number: 0103-329-09	
File Name: JETCWELL	Manager: J.O.S.	
Checked By:	Drawn By: J.O.S. / K.J.S.	

AIR SPARGE WELL CONSTRUCTION DETAILS

Figure 11

Appendix E

Laboratory Analysis Documentation
(provided on CD)

VALIDATA

Chemical Services, Inc.

4070 Balleycastle Lane, Duluth, GA 30097

DATA VALIDATION SUMMARY REPORT

COMPANY:	CH2M HILL
SITE NAME:	CTO-86 NAS Jacksonville, JETC Soil Confirmation
CONTRACTED LAB:	Gulf Coast Analytical Laboratories, Inc.
PROJECT NUMBER:	171591
QA/QC LEVEL:	EPA Level IV
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, 1999; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, 1994.
SAMPLE MATRICES:	Soil and Water
TYPES OF ANALYSES:	Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and MTBE; Polynuclear Aromatic Hydrocarbons (PAH); Total Petroleum Hydrocarbons (TPH); Total Solids
SDG NUMBER:	203091008
SAMPLING DATE:	September 8-9, 2003

Approved For Quality Assurance By:

Candace L. Robinson Date 10/16/03

OVERVIEW

SAMPLES:

Client Sample #	Lab Sample #	Matrix	BTEX/MTBE	PAH
86JT03S030908	20309100801	Soil	X	X
86JT04S030908	20309100804	Soil	X	X
86JT05S030909	20309100805	Soil	X	X
86JT06S030909	20309100806	Soil	X	X
86JT12S030909	20309100807	Soil	X	X
86DUPS030908	20309100808	Soil	X	X
86PREBW030908	20309100809	Water	X	X
86PTEBW030909	20309100810	Water	X	X
86JTB03S030908	20309100811	Water	X	
86JT03S030908MS	20309100802	Soil	X	X
86JT03S030908MSD	20309100803	Soil	X	X

Client Sample #	Lab Sample #	Matrix	BTEX/TPH	Total Solids
86JT03S030908	20309100801	Soil	X	X
86JT04S030908	20309100804	Soil	X	X
86JT05S030909	20309100805	Soil	X	X
86JT06S030909	20309100806	Soil	X	X
86JT12S030909	20309100807	Soil	X	X
86DUPS030908	20309100808	Soil	X	X
86PREBW030908	20309100809	Water	X	
86PTEBW030909	20309100810	Water	X	
86JT03S030908MD	20309100801	Soil		X
86JT03S030908MS	20309100802	Soil	X	
86JT03S030908MSD	20309100803	Soil	X	

Sample ID and Suffix Codes: DUP = FIELD DUPLICATE, EB = EQUIPMENT RINSATE BLANK, MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE, TB = TRIP BLANK

DATA REVIEWERS: Amy L. Hogan, Jean M. Delashmit

RELEASE SIGNATURE:

Data Qualifier Definitions

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

Table 1

SUMMARY OF QUALIFIED DATA

ORGANICS

Sample(s) Affected	Target Compounds	Qualifier	Qualification Code
all SDG samples	1-methylnaphthalene, 2-methyl-naphthalene	J, UJ	C
86JT04S030908, 86DUPS030908	1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, benzo(a)pyrene, naphthalene	J	Z
86JT04S030908, 86DUPS030908	TPH	J	Z

INORGANICS

THERE WERE NO DATA QUALIFIERS FOR THIS SECTION OF THE SDG.

CR 10/16/03

RESUBMITTED

DATA QUALIFICATION SUMMARY

Gulf Coast Analytical Laboratories, Inc. - 203091008 - Organics and Inorganics

SAMPLES: 86JT03S030908, 86JT04S030908, 86JT05S030909, 86JT06S030909, 86JT12S030909, 86DUPS030908, 86PREBW030908, 86PTEBW030909, 86JTB03S030908

BENZENE, TOLUENE, ETHYLBENZENE, XYLENES (BTEX), MTBE

SUMMARY

I.) General:

The analyses for BTEX and MTBE were performed using method 8260.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualification.

MAJOR ISSUES

There were no major problems associated with this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/ MS Performance:

All GC / MS Instrument Performance criteria were met. No action was required.

III.) Calibration:

All Calibration criteria were met. No action was required.

IV.) Blanks:

There were no positive results for the method, field and trip blanks associated with this fraction of the SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

Four LCSs (2 sets of blank spikes) were analyzed with this fraction of the SDG. All LCS criteria were met. No action was required.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on SDG sample 86JT03S030908. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicates (86JT04S030908 / 86DUPS030908) was identified in this SDG. There were no calculable Relative Percent Differences (RPDs). No action was required.

IX.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No action was required.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

XI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No action was required.

XII.) System Performance:

All System Performance criteria were met. No action was required.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)

SUMMARY

I.) General:

The analyses for PAH were performed using Standards Method 8310.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems associated with this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Differences (%D's) for the standards run on 9/12/03 at 16:25 on instrument HPLC.i exceeded the 25% QC limit for the following compounds:

1-methylnaphthalene	33.2%
2-methylnaphthalene	25.9%

All positive and non-detect results for these compounds in the SDG samples were flagged as estimated (J) and (UJ).

IV.) Blanks:

There were no detections in the method or equipment blanks associated with this fraction of the SDG. No action was required.

V.) Surrogate Recoveries:

The Surrogate compounds were diluted out of three SDG samples. All other Surrogate Recovery criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

Three LCSs (blank spikes) were analyzed with this fraction of the SDG. All LCS criteria were met. No action was required.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on SDG sample 86JT03S030908. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicates (86JT04S030908 / 86DUPS030908) was identified for this SDG. The calculable Relative Percent Differences (RPDs) were:

Compound	86JT04S030908	86DUPS030908	RPD
1-methylnaphthalene	1150 ug/kg	415 ug/kg	94%
2-methylnaphthalene	563 ug/kg	380 ug/kg	39%
acenaphthene	3880 ug/kg	682 ug/kg	140%
benzo(a)pyrene	159 ug/kg	63.8 ug/kg	85%
naphthalene	184 ug/kg	118 ug/kg	44%

All RPDs exceeded the 30% QC limit for soil samples. All positive results for these compounds in the two field duplicate samples were flagged as estimated (J).

IX.) Internal Standards Performance (ISTD):

All ISTD criteria were met. No action was required.

X.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

XI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No action was required.

XII.) System Performance:

All System Performance criteria were met. No action was required.

TOTAL PETROLEUM HYDROCARBONS (TPH)

SUMMARY

I.) General:

The analyses for TPH were performed using Standards Method FL-PRO-01.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems associated with this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrumet Performmance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

All Calibration criteria were met. No action was required.

IV.) Blanks:

Method Blanks:

TPH was detected at 68.7 ug/L in water method blank MB9118519. The results for TPH in the associated SDG samples were greater than 5X the blank amount, so no action was required.

Field Blanks:

There were no detections of TPH in the field blanks associated with this fraction of the SDG. No action was required.

V.) Surrogate Recoveries:

The Surrogate compound was diluted out of one SDG sample. All other Surrogate Recovery criteria were met. No action was required.

VI.) Laboratory Control Samples (LCS):

Three LCSs (blank spikes) were analyzed with this fraction of the SDG. All LCS criteria were met. No action was required.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on SDG sample 86JT03S030908. All MS / MSD criteria were met. No action was required.

VIII.) Field Duplicates:

One set of field duplicate samples (86JT04S030908 / 86DUP030908) was identified in this SDG. The calculated Relative Percent Difference (RPD) was 33%, which exceeded the 30% QC Limit for soil samples. The positive results for TPH in the two field duplicate samples were flagged as estimated (J).

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All CRQL criteria were met. No action was required.

XI.) System Performance:

All System Performance criteria were met. No action was required.

TOTAL SOLIDS

SUMMARY

I.) General:

The analyses for Total Solids were performed using Standards Method 2540.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems associated with this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrumet Performance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

Calibration criteria were not required for this fraction of the SDG. No action was taken.

IV.) Blanks:

Blanks criteria were not required for this fraction of the SDG. No action was taken.

V.) Laboratory Control Samples (LCS):

LCS criteria was not required for this fraction of the SDG. No action was taken.

VI.) Matrix Duplicate (MD):

MD analysis was performed on SDG sample 86JT03S030908. All MD criteria were met. No action was required.

VII.) Field Duplicates:

One set of field duplicate samples (86JT04S030908 / 86DUPS030908) was identified in this SDG. The calculated Relative Percent Difference (RPD) was 4.5, which was within the 30% QC limit for soil samples. No action was required.

VIII.) System Performance:

All System Performance criteria were met. No action was required.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT03S030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.85 (g/ml) g

Lab Sample ID: 20309100801

Level: (low/med) LOW

Lab File ID: 2030911/S6279

% Moisture: not dec. 7.

Date Collected: 09/08/03 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1128

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.59	U	0.295	5.59
100-41-4	Ethylbenzene	5.59	U	1.10	5.59
108-88-3	Toluene	5.59	U	0.198	5.59
1330-20-7	Xylene (total)	11.2	U	0.742	11.2
1634-04-4	tert-Butyl methyl ether (MTBE)	5.59	U	0.244	5.59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT04S030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5.62 (g/ml) g

Lab Sample ID: 20309100804

Level: (low/med) LOW

Lab File ID: 2030911/S6125

% Moisture: not dec. 16

Date Collected: 09/08/03 Time: 1515

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV0

Date Analyzed: 09/11/03 Time: 1514

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262311

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.31	U	0.280	5.31
100-41-4	Ethylbenzene	5.31	U	1.05	5.31
108-88-3	Toluene	5.31	U	0.188	5.31
1330-20-7	Xylene (total)	10.6	U	0.705	10.6
1634-04-4	tert-Butyl methyl ether (MTBE)	5.31	U	0.232	5.31

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT05S030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.8 (g/ml) g

Lab Sample ID: 20309100805

Level: (low/med) LOW

Lab File ID: 2030911/S6285

% Moisture: not dec. 9.

Date Collected: 09/09/03 Time: 1025

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1422

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.78	U	0.305	5.78
100-41-4	Ethylbenzene	5.78	U	1.14	5.78
108-88-3	Toluene	5.78	U	0.205	5.78
1330-20-7	Xylene (total)	11.6	U	0.767	11.6
1634-04-4	tert-Butyl methyl ether (MTBE)	5.78	U	0.252	5.78

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT06S030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5.35 (g/ml) g

Lab Sample ID: 20309100806

Level: (low/med) LOW

Lab File ID: 2030911/S6286

% Moisture: not dec. 12

Date Collected: 09/09/03 Time: 1050

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1451

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.35	U	0.283	5.35
100-41-4	Ethylbenzene	5.35	U	1.06	5.35
108-88-3	Toluene	5.35	U	0.190	5.35
1330-20-7	Xylene (total)	10.7	U	0.711	10.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.35	U	0.233	5.35

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT12S030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 6.03 (g/ml) g

Lab Sample ID: 20309100807

Level: (low/med) LOW

Lab File ID: 2030911/S8306

% Moisture: not dec. 14

Date Collected: 09/09/03 Time: 1115

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV2

Date Analyzed: 09/11/03 Time: 1545

Soil Extract Volume: (µL)

Dilution Factor: 50 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262301

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	242	U	12.8	242
100-41-4	Ethylbenzene	1270		47.7	242
108-88-3	Toluene	242	U	8.58	242
1330-20-7	Xylene (total)	96.7	J	32.1	484
1634-04-4	tert-Butyl methyl ether (MTBE)	242	U	10.6	242

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86DUPS030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5.42 (g/ml) g

Lab Sample ID: 20309100808

Level: (low/med) LOW

Lab File ID: 2030911/S6292

% Moisture: not dec. 12

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1741

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.26	U	0.278	5.26
100-41-4	Ethylbenzene	5.26	U	1.04	5.26
108-88-3	Toluene	5.26	U	0.187	5.26
1330-20-7	Xylene (total)	10.5	U	0.699	10.5
1634-04-4	tert-Butyl methyl ether (MTBE)	5.26	U	0.229	5.26

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86PREBW030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med) LOW

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV2

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20309100809

Lab File ID: 2030910/S8288

Date Collected: 09/08/03 Time: 1415

Date Received: 09/10/03

Date Analyzed: 09/10/03 Time: 1516

Dilution Factor: 1 Analyst: HJL

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.100	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86PTEBW030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med) LOW

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV2

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20309100810

Lab File ID: 2030910/S8289

Date Collected: 09/09/03 Time: 1130

Date Received: 09/10/03

Date Analyzed: 09/10/03 Time: 1537

Dilution Factor: 1 Analyst: HJL

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
71-43-2	Benzene	5.00	U	0.100	5.00
108-88-3	Toluene	5.00	U	0.152	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JTB03S030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Level: (low/med) LOW

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV2

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20309100811

Lab File ID: 2030910/S8290

Date Collected: Time:

Date Received: 09/10/03

Date Analyzed: 09/10/03 Time: 1559

Dilution Factor: 1 Analyst: HJL

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.100	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT03S030908MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.66 (g/ml) g

Lab Sample ID: 20309100802

Level: (low/med) LOW

Lab File ID: 2030911/S6281

% Moisture: not dec. 7.

Date Collected: 09/08/03 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1225

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	29.3		0.307	5.82
100-41-4	Ethylbenzene	29.1		1.15	5.82
108-88-3	Toluene	30.1		0.206	5.82
1330-20-7	Xylene (total)	86.9		0.772	11.6
1634-04-4	tert-Butyl methyl ether (MTBE)	27.8		0.253	5.82

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT03S030908MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.73 (g/ml) g

Lab Sample ID: 20309100803

Level: (low/med) LOW

Lab File ID: 2030911/S6283

% Moisture: not dec. 7.

Date Collected: 09/08/03 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1325

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	29.3		0.302	5.73
100-41-4	Ethylbenzene	28.2		1.13	5.73
108-88-3	Toluene	29.3		0.203	5.73
1330-20-7	Xylene (total)	85.2		0.761	11.5
1634-04-4	tert-Butyl methyl ether (MTBE)	26.9		0.250	5.73

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 7. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT03S030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100801

Date Collected 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1251

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	36.1	U J	9.82	36.1	C
91-57-6	2-Methylnaphthalene	36.1	U J	10.9	36.1	C
83-32-9	Acenaphthene	36.1	U	10.5	36.1	
208-96-8	Acenaphthylene	36.1	U	4.03	36.1	
120-12-7	Anthracene	3.58	U	0.511	3.58	
56-55-3	Benzo(a)anthracene	3.58	U	1.29	3.58	
50-32-8	Benzo(a)pyrene	3.58	U	1.20	3.58	
205-99-2	Benzo(b)fluoranthene	3.58	U	0.781	3.58	
191-24-2	Benzo(g,h,i)perylene	3.58	U	0.401	3.58	
207-08-9	Benzo(k)fluoranthene	3.58	U	0.916	3.58	
218-01-9	Chrysene	3.58	U	1.02	3.58	
53-70-3	Dibenz(a,h)anthracene	3.58	U	0.956	3.58	
206-44-0	Fluoranthene	3.58	U	0.993	3.58	
86-73-7	Fluorene	22.0		3.81	18.1	
193-39-5	Indeno(1,2,3-cd)pyrene	9.00	U	0.988	9.00	
91-20-3	Naphthalene	37.4		3.34	9.00	
85-01-8	Phenanthrene	3.58	U	0.976	3.58	
129-00-0	Pyrene	3.58	U	0.516	3.58	

LH
9/29/03

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID 88JT04S030908
Lab Code: LA024 Case No.:
Contract:
Matrix: Soil
SAS No.: SDG No.: 203091008
Sample wt/vol: 30 Units: g
Lab Sample ID: 20309100804
Level: (low/med)
Date Collected 09/08/03 Time: 1515
% Moisture: 15 decanted: (Y/N)
Date Received: 09/10/03
GC Column: 201TP-0.15 ID: 2.1 (mm)
Date Extracted:
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 09/12/03 Time: 1646
Soil Aliquot Volume: (µL)
Dilution Factor: 10 Analyst: JDT
Injection Volume: 1 (µL)
Prep Method:
GPC Cleanup: (Y/N) N pH:
Analytical Method: SW-846 8310
Prep Batch: 262261 Analytical Batch: 262340
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
CONCENTRATION UNITS: ug/kg
Lab File ID: 030912/H000535

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	1150		J 108	398	C, Z
91-57-6	2-Methylnaphthalene	563		J 121	398	C, Z
83-32-9	Acenaphthene	3880		J 116	398	C, Z
208-96-8	Acenaphthylene	398	U	44.4	398	
120-12-7	Anthracene	39.4	U	5.63	39.4	
56-55-3	Benzo(a)anthracene	39.4	U	14.2	39.4	
50-32-8	Benzo(a)pyrene	158		J 13.3	39.4	Z
205-99-2	Benzo(b)fluoranthene	39.4	U	8.60	39.4	
191-24-2	Benzo(g,h,i)perylene	39.4	U	4.42	39.4	
207-08-9	Benzo(k)fluoranthene	39.4	U	10.1	39.4	
218-01-9	Chrysene	39.4	U	11.3	39.4	
53-70-3	Dibenz(a,h)anthracene	39.4	U	10.6	39.4	
206-44-0	Fluoranthene	39.4	U	10.9	39.4	
86-73-7	Fluorene	199	U	41.9	199	
193-39-5	Indeno(1,2,3-cd)pyrene	99.1	U	10.9	99.1	
91-20-3	Naphthalene	184		J 36.8	99.1	Z
85-01-8	Phenanthrene	39.4	U	10.7	39.4	
129-00-0	Pyrene	39.4	U	5.89	39.4	

CR 10/14/03
RESUBMITTED

FORM 1 ORG-1

000311

ALH
10/14/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 9. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT05S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100805

Date Collected 09/09/03 Time: 1025

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1319

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 030912/H000535

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	37.0	U	J 10.1	37.0	C
91-57-6	2-Methylnaphthalene	37.0	U	J 11.2	37.0	C
83-32-9	Acenaphthene	37.0	U	10.8	37.0	
208-96-8	Acenaphthylene	37.0	U	4.13	37.0	
120-12-7	Anthracene	3.66	U	0.523	3.66	
56-55-3	Benzo(a)anthracene	3.66	U	1.32	3.66	
50-32-8	Benzo(a)pyrene	8.08		1.23	3.66	
205-99-2	Benzo(b)fluoranthene	3.66	U	0.799	3.66	
191-24-2	Benzo(g,h,i)perylene	3.66	U	0.411	3.66	
207-08-9	Benzo(k)fluoranthene	3.66	U	0.938	3.66	
218-01-9	Chrysene	3.66	U	1.05	3.66	
53-70-3	Dibenz(a,h)anthracene	3.66	U	0.979	3.66	
206-44-0	Fluoranthene	3.66	U	1.02	3.66	
86-73-7	Fluorene	19.3		3.90	18.5	
193-39-5	Indeno(1,2,3-cd)pyrene	9.21	U	1.01	9.21	
91-20-3	Naphthalene	31.6		3.42	9.21	
85-01-8	Phenanthrene	3.66	U	0.999	3.66	
129-00-0	Pyrene	3.66	U	0.528	3.66	

MH
9/29/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 12 decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

CONCENTRATION UNITS: ug/kg

Sample ID 86JT06S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100806

Date Collected 09/09/03 Time: 1050

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1326

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	37.6	~~U~~	J 10.4	38.2	C
91-57-6	2-Methylnaphthalene	38.2	U	J 11.6	38.2	C
83-32-9	Acenaphthene	38.2	U	11.1	38.2	
208-96-8	Acenaphthylene	38.2	U	4.26	38.2	
120-12-7	Anthracene	3.78	U	0.540	3.78	
56-55-3	Benzo(a)anthracene	3.78	U	1.36	3.78	
50-32-8	Benzo(a)pyrene	3.78	U	1.27	3.78	
205-99-2	Benzo(b)fluoranthene	3.78	U	0.825	3.78	
191-24-2	Benzo(g,h,i)perylene	3.78	U	0.424	3.78	
207-08-9	Benzo(k)fluoranthene	3.78	U	0.968	3.78	
218-01-9	Chrysene	3.78	U	1.08	3.78	
53-70-3	Dibenz(a,h)anthracene	3.78	U	1.01	3.78	
206-44-0	Fluoranthene	3.78	U	1.05	3.78	
86-73-7	Fluorene	25.1		4.02	19.1	
193-39-5	Indeno(1,2,3-cd)pyrene	9.51	U	1.04	9.51	
91-20-3	Naphthalene	39.3		3.53	9.51	
85-01-8	Phenanthrene	3.78	U	1.03	3.78	
129-00-0	Pyrene	3.78	U	0.545	3.78	

LLH
9/29/03

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID 86JT12S030909
Lab Code: LA024 Case No.:
Contract:
Matrix: Soil
SAS No.: SDG No.: 203091008
Sample wt/vol: 30 Units: g
Lab Sample ID: 20309100807
Level: (low/med)
Date Collected 09/09/03 Time: 1115
% Moisture: 14 decanted: (Y/N)
Date Received: 09/10/03
GC Column: 201TP-0.15 ID: 2.1 (mm)
Date Extracted:
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 09/12/03 Time: 1552
Soil Aliquot Volume: (µL)
Dilution Factor: 100 Analyst: JDT
Injection Volume: 1 (µL)
Prep Method:
GPC Cleanup: (Y/N) N pH:
Analytical Method: SW-846 8310
Prep Batch: 262261 Analytical Batch: 262340
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
CONCENTRATION UNITS: ug/kg
Lab File ID: 030912/H000536

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	58900		J 1060	3890	C
91-57-6	2-Methylnaphthalene	31600		J 1180	3890	C
83-32-9	Acenaphthene	64700		1140	3890	
208-96-8	Acenaphthylene	3890	U	434	3890	
120-12-7	Anthracene	385	U	55.0	385	
56-55-3	Benzo(a)anthracene	385	U	139	385	
50-32-8	Benzo(a)pyrene	5860		130	385	
205-99-2	Benzo(b)fluoranthene	385	U	84.1	385	
191-24-2	Benzo(g,h,i)perylene	385	U	43.2	385	
207-08-9	Benzo(k)fluoranthene	385	U	98.7	385	
218-01-9	Chrysene	385	U	110	385	
53-70-3	Dibenz(a,h)anthracene	385	U	103	385	
206-44-0	Fluoranthene	385	U	107	385	
86-73-7	Fluorene	1950	U	410	1950	
193-39-5	Indeno(1,2,3-cd)pyrene	969	U	106	969	
91-20-3	Naphthalene	23500		360	969	
85-01-8	Phenanthrene	385	U	105	385	
129-00-0	Pyrene	385	U	55.6	385	

AH
9/29/03

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med)
% Moisture: 12 decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86DUPS030906
Contract:
SAS No.: SDG No.: 203091006
Lab Sample ID: 20309100906
Date Collected Time:
Date Received: 09/10/03
Date Extracted:
Date Analyzed: 09/12/03 Time: 1569
Dilution Factor: 10 Analyst: JDT
Prep Method:
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 030912/H000536

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	415		J 103	380	C, Z
91-57-6	2-Methylnaphthalene	380	U	J 115	380	C, Z
83-32-9	Acenaphthene	682		J 111	380	Z
208-96-8	Acenaphthylene	380	U	42.4	380	
120-12-7	Anthracene	37.7	U	5.37	37.7	
56-55-3	Benzo(a)anthracene	37.7	U	13.6	37.7	
50-32-8	Benzo(a)pyrene	63.8		J 12.7	37.7	Z
205-99-2	Benzo(b)fluoranthene	37.7	U	8.22	37.7	
191-24-2	Benzo(g,h,i)perylene	37.7	U	4.22	37.7	
207-08-9	Benzo(k)fluoranthene	37.7	U	9.64	37.7	
218-01-9	Chrysene	37.7	U	10.8	37.7	
53-70-3	Dibenz(a,h)anthracene	37.7	U	10.1	37.7	
206-44-0	Fluoranthene	37.7	U	10.5	37.7	
86-73-7	Fluorene	191	U	40.0	191	
193-39-5	Indeno(1,2,3-cd)pyrene	94.7	U	10.4	94.7	
91-20-3	Naphthalene	118		J 35.1	94.7	Z
85-01-8	Phenanthrene	37.7	U	10.3	37.7	
129-00-0	Pyrene	37.7	U	5.43	37.7	

CR 10/16/03

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FORM I ORG-1

AH 10/14/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

Sample ID 86PREBW030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100809

Date Collected 09/08/03 Time: 1415

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1037

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL	Qual Code
90-12-0	1-Methylnaphthalene	1.00	U	J 0.291	1.00	C
91-57-6	2-Methylnaphthalene	1.00	U	J 0.142	1.00	C
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100	
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250	
91-20-3	Naphthalene	0.250	U	0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

LLH 9/29/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

Sample ID 86PTEBW030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100810

Date Collected 09/09/03 Time: 1130

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1044

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL	QualCode
90-12-0	1-Methylnaphthalene	1.00	U	J 0.291	1.00	C
91-57-6	2-Methylnaphthalene	1.00	U	J 0.142	1.00	C
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100	
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250	
91-20-3	Naphthalene	0.250	U	0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

MLH
9/29/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 7. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT03S030908MS

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100802

Date Collected 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1258

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 030912/H000535

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	358		9.82	36.1
91-57-6	2-Methylnaphthalene	281		10.9	36.1
83-32-9	Acenaphthene	280		10.5	36.1
208-96-8	Acenaphthylene	184		4.03	36.1
120-12-7	Anthracene	4.60		0.511	3.58
56-55-3	Benzo(a)anthracene	15.1		1.29	3.58
50-32-8	Benzo(a)pyrene	13.6		1.20	3.58
205-99-2	Benzo(b)fluoranthene	4.93		0.781	3.58
191-24-2	Benzo(g,h,i)perylene	28.9		0.401	3.58
207-08-9	Benzo(k)fluoranthene	6.35		0.916	3.58
218-01-9	Chrysene	9.55		1.02	3.58
53-70-3	Dibenz(a,h)anthracene	77.8		0.956	3.58
206-44-0	Fluoranthene	14.0		0.993	3.58
86-73-7	Fluorene	48.5		3.81	18.1
193-39-5	Indeno(1,2,3-cd)pyrene	12.3		0.988	9.00
91-20-3	Naphthalene	140		3.34	9.00
85-01-8	Phenanthrene	10.4		0.976	3.58
129-00-0	Pyrene	26.5		0.516	3.58

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 7. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT03S030908MSD

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100803

Date Collected 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1305

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: *ug/kg*

Lab File ID: 030912/H000535

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	431		9.82	36.1
91-57-6	2-Methylnaphthalene	298		10.9	36.1
83-32-9	Acenaphthene	310		10.5	36.1
208-96-8	Acenaphthylene	219		4.03	36.1
120-12-7	Anthracene	4.58		0.511	3.58
56-55-3	Benzo(a)anthracene	15.1		1.29	3.58
50-32-8	Benzo(a)pyrene	12.8		1.20	3.58
205-99-2	Benzo(b)fluoranthene	5.89		0.781	3.58
191-24-2	Benzo(g,h,i)perylene	30.9		0.401	3.58
207-08-9	Benzo(k)fluoranthene	6.86		0.916	3.58
218-01-9	Chrysene	11.1		1.02	3.58
53-70-3	Dibenz(a,h)anthracene	91.2		0.956	3.58
206-44-0	Fluoranthene	15.1		0.993	3.58
86-73-7	Fluorene	49.0		3.81	18.1
193-39-5	Indeno(1,2,3-cd)pyrene	14.9		0.988	9.00
91-20-3	Naphthalene	162		3.34	9.00
85-01-8	Phenanthrene	11.5		0.976	3.58
129-00-0	Pyrene	28.5		0.516	3.58

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT03S030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100801

Date Collected: 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1344

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2030911/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8670	U	5420	8670

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 25 Units: g
Level: (low/med) LOW
% Moisture: 18 decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 262283 Analytical Batch: 262387

Sample ID: 86JT049030906
Contract:
SAS No.: SDG No.: 203091006
Lab Sample ID: 20309100604
Date Collected: 09/08/03 Time: 1515
Date Received: 09/10/03
Date Extracted: 9/10/03
Date Analyzed: 09/11/03 Time: 1630
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GC82A
Lab File ID: 2030911/8V2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	Qual Code
FLPRO-R	Petroleum Hydrocarbons	517000	J	5970	9660	Z

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000502

AEH 10/14/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	86JT05S030909
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Soil	SAS No.:	SDG No.: 203091008
Sample wt/vol:	25 Units: g	Lab Sample ID:	20309100805
Level: (low/med)	LOW	Date Collected:	09/09/03 Time: 1025
% Moisture:	9. decanted: (Y/N)	Date Received:	09/10/03
GC Column:	ID: (mm)	Date Extracted:	9/10/03
Concentrated Extract Volume:	2000 (µL)	Date Analyzed:	09/11/03 Time: 1729
Soil Aliquot Volume:	(µL)	Dilution Factor:	1 Analyst: TLS
Injection Volume:	1 (µL)	Prep Method:	FLORIDA PRO
GPC Cleanup: (Y/N)	N pH:	Analytical Method:	FLORIDA PRO
Prep Batch:	262263 Analytical Batch: 262387	Sulfur Cleanup: (Y/N)	N Instrument ID: GCS2A
CONCENTRATION UNITS:	*ug/kg*	Lab File ID:	2030911/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8880	U	5550	8880

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 86JT06S030909

Lab Code: LA024 Case No.:

Contract:

Matrix: Soil

SAS No.: SDG No.: 203091008

Sample wt/vol: 25 Units: g

Lab Sample ID: 20309100806

Level: (low/med) LOW

Date Collected: 09/09/03 Time: 1050

% Moisture: 12 decanted: (Y/N)

Date Received: 09/10/03

GC Column: ID: (mm)

Date Extracted: 9/10/03

Concentrated Extract Volume: 2000 (µL)

Date Analyzed: 09/11/03 Time: 1824

Soil Aliquot Volume: (µL)

Dilution Factor: 1 Analyst: TLS

Injection Volume: 1 (µL)

Prep Method: FLORIDA PRO

GPC Cleanup: (Y/N) N pH:

Analytical Method: FLORIDA PRO

Prep Batch: 262263 Analytical Batch: 262387

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2030911/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	9170	U	5730	9170

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 14 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT12S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100807

Date Collected: 09/09/03 Time: 1115

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/12/03 Time: 0933

Dilution Factor: 100 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	48900000		584000	934000

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA034 Case No.:
Matrix: Soil
Sample wt/vol: 28 Units: g
Level: (low/med) LOW
% Moisture: 12 decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 262263 Analytical Batch: 262387

Sample ID: SSDUP8030906
Contract:
SAS No.: SDG No.: 203091006
Lab Sample ID: 20309100606
Date Collected: Time:
Date Received: 09/10/03
Date Extracted: 9/10/03
Date Analyzed: 09/11/03 Time: 2014
Dilution Factor: 1 Analyst: TLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GC63A
Lab File ID: 2030911/8V2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	Dupl Conc
FLPRO-01	Petroleum Hydrocarbons	369000	J	5700	9150	Z

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10/14/03

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 870 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: 86PREBW030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100809

Date Collected: 09/08/03 Time: 1415

Date Received: 09/10/03

Date Extracted: 9/12/03

Date Analyzed: 09/13/03 Time: 1056

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/L

Lab File ID: 2030911/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	115	U	46.8	115

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 890 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: 86PTEBW030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100810

Date Collected: 09/09/03 Time: 1130

Date Received: 09/10/03

Date Extracted: 9/12/03

Date Analyzed: 09/12/03 Time: 2020

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	112	U	45.7	112

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT03S030908MS

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100802

Date Collected: 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1440

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	101000		5420	8670

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT03S030908MSD

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100803

Date Collected: 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1535

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	95300		5420	8670

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100801	86JT03S030908	Solid	09/08/2003 14:30	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	92.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
203091008 04	86JT04S030908	Solid	09/08/2003 15:15	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	83.7	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
203091008005	86JT06S030909	Solid	09/09/2003 10:25	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.1	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
203091008 06	86JT06S030909	Solid	09/09/2003 10:50	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-006	Total Solids	87.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100807	86JT12S030909	Solid	09/09/2003 11:15	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	85.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
203091008 08	86DUPS030908	Solid		09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	87.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

onstructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER

171591-004 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	171591	Gulf Coast Labs. Dano Merril	Jeff Marks / J.A Jones Env. Services	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No.):
Jet Engine Test Cell - Confirmation Sampling	CTO 086		Bonnie Hogue / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No)
Jeff Marks	904-777-4182	Ph:(225) 769-4900		

5°

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BTEX + MTBE by 5035/8260B (GRAB)	TRPH by FL-PRO,16 Listed PAHs(including 1-and2-Methylnaphthalene by 8310							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86JT03S030908	Soil Boring- 03	soil	09/08/03	14:30	III/C	7	12	3							Grab / Composite	MS/MSD, OVA = 0.5 ppm	9/10 -02 -01-03
2	86JT04S030908	Soil Boring- 04	soil	09/08/03	15:15	III/C	7	4	1							Grab / Composite	OVA = 548 ppm	-04
3	86JT05S030909	Soil Boring- 05	soil	09/09/03	10:25	III/C	7	4	1							Grab / Composite	OVA = 0.30 ppm	-05
4	86JT06S030909	Soil Boring- 06	soil	09/09/03	10:50	III/C	7	4	1							Grab / Composite	OVA = 4 ppm	-06
5	86JT12S030909	Soil Boring- 12	soil	09/09/03	11:15	III/C	7	4	1							Grab / Composite		-07
6	86DUPS030908	Duplicate	soil	NA	NA	III/C	7	4	1							Grab / Composite		-08
7	86PREBW030908	Pre-equipment blank	W	09/08/03	14:15	III/C	7	3	4							Grab		-09
8	86PTEBW030909 Dm	Post equipment blank	W	09/09/03	11:30	III/C	7	3	4							Grab		-10
9	86JT03S030908	Trip Blank	W	NA	NA	III/C	7	3								Grab		-11
10																		

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Jeff Marks J.A. Jones Environmental Services	FedEx/ Tracking # 791668906488, 791668906477. (2 Coolers)	BTEX + MTBE samples are GRAB, Soil FLO-PRO & 8310 samples are COMPOSITE. 5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature:		
R. Dumaop	9/9/2003	15:00	FedEx/ Tracking # 791668906488, 791668906477. (2 Coolers)	9/9/2003	15:00
Printed Name and Signature			Printed Name and Signature		
FedEx 791668906477	9-10-03	0930	Richard M Slater	9-10-03	0930

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

000626

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/17/2003

GCAL Report 203091008

Deliver To	CH2M HILL Constructors Inc. 115 Perimeter Center Place Suite 700 Atlanta, GA 30346 770-604-9182 Ext. 614
Attn	Melissa Aycock

Customer CH2M HILL Constructors Inc.

Project CTO 86 Cecil Field - South Fue

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: CH2M HILL Constructors Inc. **Report:** 203091008

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In analytical batches 262301 and 262311, no MS/MSD was performed due to insufficient sample volume. The LCS/LCSD is included for review.

In the volatile ICV analysis on MSV0 09/09/03 the recovery for MTBE was above recovery limit. This compound was not detected in the associated samples.

Sample 20309100807 (86JT12S030909) had to be diluted due to compounds that were detected above the linear range of the calibration.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florida PRO analysis, sample 20309100807 (86JT12S030909) had to be diluted due to compounds that were detected above the linear range of the calibration. The surrogate recoveries for o-Terphenyl and Nonatriacontane are reported as DO (diluted out) due to the dilution performed on this sample.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In prep batch 262299, no MS/MSD was performed. All samples in the prep batch were identified as equipment blanks. The LCS/LCSD is included for review.

Samples 20309100804 (86JT04S030908), 20309100807 (86JT12S030909) and 20309100808 (86DUPS030908) had to be diluted due to compounds that were detected above the linear range of the calibration. The surrogate recovery for p-Terphenyl is reported as DO (diluted out), due to the dilution performed on the samples. On these samples, the lower of the two results were reported for Acenaphthene and Benzo(a)pyrene due to co-elution of unknown non-target analytes.

In the sw-846 8310 analyses for samples 20309100801 (86JT03S030908) and 20309100802 (86JT03S030908MS) the lower of the two results was reported for Chrysene due to co-elution of unknown non-target analytes.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

SCOTT A. BAILEY
OPERATIONS MANAGER
GCAL REPORT 203091008

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100801	86JT03S030908	Solid	09/08/2003 14:30	09/10/2003 09:30
20309100802	86JT03S030908MS	Solid	09/08/2003 14:30	09/10/2003 09:30
20309100803	86JT03S030908MSD	Solid	09/08/2003 14:30	09/10/2003 09:30
20309100804	86JT04S030908	Solid	09/08/2003 15:15	09/10/2003 09:30
20309100805	86JT05S030909	Solid	09/09/2003 10:25	09/10/2003 09:30
20309100806	86JT06S030909	Solid	09/09/2003 10:50	09/10/2003 09:30
20309100807	86JT12S030909	Solid	09/09/2003 11:15	09/10/2003 09:30
20309100808	86DUPS030908	Solid		09/10/2003 09:30
20309100809	86PREBW030908	Water	09/08/2003 14:15	09/10/2003 09:30
20309100810	86PTEBW030909	Water	09/09/2003 11:30	09/10/2003 09:30
20309100811	86JTB03S030908	Water		09/10/2003 09:30

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT03S030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.85 (g/ml) g

Lab Sample ID: 20309100801

Level: (low/med) LOW

Lab File ID: 2030911/S6279

% Moisture: not dec. 7.

Date Collected: 09/08/03 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1128

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.59	U	0.295	5.59
100-41-4	Ethylbenzene	5.59	U	1.10	5.59
108-88-3	Toluene	5.59	U	0.198	5.59
1330-20-7	Xylene (total)	11.2	U	0.742	11.2
1634-04-4	tert-Butyl methyl ether (MTBE)	5.59	U	0.244	5.59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT04S030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5.62 (g/ml) g

Lab Sample ID: 20309100804

Level: (low/med) LOW

Lab File ID: 2030911/S6125

% Moisture: not dec. 16

Date Collected: 09/08/03 Time: 1515

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV0

Date Analyzed: 09/11/03 Time: 1514

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262311

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.31	U	0.280	5.31
100-41-4	Ethylbenzene	5.31	U	1.05	5.31
108-88-3	Toluene	5.31	U	0.188	5.31
1330-20-7	Xylene (total)	10.6	U	0.705	10.6
1634-04-4	tert-Butyl methyl ether (MTBE)	5.31	U	0.232	5.31

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT05S030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.8 (g/ml) g

Lab Sample ID: 20309100805

Level: (low/med) LOW

Lab File ID: 2030911/S6285

% Moisture: not dec. 9.

Date Collected: 09/09/03 Time: 1025

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1422

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.78	U	0.305	5.78
100-41-4	Ethylbenzene	5.78	U	1.14	5.78
108-88-3	Toluene	5.78	U	0.205	5.78
1330-20-7	Xylene (total)	11.6	U	0.767	11.6
1634-04-4	tert-Butyl methyl ether (MTBE)	5.78	U	0.252	5.78

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT06S030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5.35 (g/ml) g

Lab Sample ID: 20309100806

Level: (low/med) LOW

Lab File ID: 2030911/S6286

% Moisture: not dec. 12

Date Collected: 09/09/03 Time: 1050

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1451

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.35	U	0.283	5.35
100-41-4	Ethylbenzene	5.35	U	1.06	5.35
108-88-3	Toluene	5.35	U	0.190	5.35
1330-20-7	Xylene (total)	10.7	U	0.711	10.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.35	U	0.233	5.35

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT12S030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 6.03 (g/ml) g

Lab Sample ID: 20309100807

Level: (low/med) LOW

Lab File ID: 2030911/S8306

% Moisture: not dec. 14

Date Collected: 09/09/03 Time: 1115

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV2

Date Analyzed: 09/11/03 Time: 1545

Soil Extract Volume: (µL)

Dilution Factor: 50 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262301

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	242	U	12.8	242
100-41-4	Ethylbenzene	1270		47.7	242
108-88-3	Toluene	242	U	8.58	242
1330-20-7	Xylene (total)	96.7	J	32.1	484
1634-04-4	tert-Butyl methyl ether (MTBE)	242	U	10.6	242

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86DUPS030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5.42 (g/ml) g

Lab Sample ID: 20309100808

Level: (low/med) LOW

Lab File ID: 2030911/S6292

% Moisture: not dec. 12

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1741

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.26	U	0.278	5.26
100-41-4	Ethylbenzene	5.26	U	1.04	5.26
108-88-3	Toluene	5.26	U	0.187	5.26
1330-20-7	Xylene (total)	10.5	U	0.699	10.5
1634-04-4	tert-Butyl methyl ether (MTBE)	5.26	U	0.229	5.26

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86PREBW030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20309100809

Level: (low/med) LOW

Lab File ID: 2030910/S8288

% Moisture: not dec.

Date Collected: 09/08/03 Time: 1415

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV2

Date Analyzed: 09/10/03 Time: 1516

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.100	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86PTEBW030909

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20309100810

Level: (low/med) LOW

Lab File ID: 2030910/S8289

% Moisture: not dec.

Date Collected: 09/09/03 Time: 1130

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV2

Date Analyzed: 09/10/03 Time: 1537

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
71-43-2	Benzene	5.00	U	0.100	5.00
108-88-3	Toluene	5.00	U	0.152	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JTB03S030908

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20309100811

Level: (low/med) LOW

Lab File ID: 2030910/S8290

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV2

Date Analyzed: 09/10/03 Time: 1559

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.100	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB118486

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118486

Level: (low/med) LOW

Lab File ID: 2030911/S6120

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV0

Date Analyzed: 09/11/03 Time: 1120

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262311

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.264	5.00
100-41-4	Ethylbenzene	5.00	U	0.986	5.00
108-88-3	Toluene	5.00	U	0.177	5.00
1330-20-7	Xylene (total)	10.0	U	0.664	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.218	5.00
79-01-6	Trichloroethene	5.00	U	0.327	5.00
108-90-7	Chlorobenzene	5.00	U	0.229	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB118233

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 118233

Level: (low/med) LOW

Lab File ID: 2030910/S8277

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV2

Date Analyzed: 09/10/03 Time: 1037

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.100	5.00
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
79-01-6	Trichloroethene	5.00	U	0.323	5.00
108-90-7	Chlorobenzene	5.00	U	0.157	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB118442

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118442

Level: (low/med) LOW

Lab File ID: 2030911/S8298

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV2

Date Analyzed: 09/11/03 Time: 0957

Soil Extract Volume: (µL)

Dilution Factor: 50 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262301

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	250	U	13.2	250
100-41-4	Ethylbenzene	250	U	49.3	250
108-88-3	Toluene	250	U	8.86	250
1330-20-7	Xylene (total)	500	U	33.2	500
1634-04-4	tert-Butyl methyl ether (MTBE)	250	U	10.9	250
79-01-6	Trichloroethene	250	U	16.4	250
108-90-7	Chlorobenzene	250	U	11.4	250

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB118436

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118436

Level: (low/med) LOW

Lab File ID: 2030911/S6277

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1048

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.264	5.00
100-41-4	Ethylbenzene	5.00	U	0.986	5.00
108-88-3	Toluene	5.00	U	0.177	5.00
1330-20-7	Xylene (total)	10.0	U	0.664	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.218	5.00
79-01-6	Trichloroethene	5.00	U	0.327	5.00
108-90-7	Chlorobenzene	5.00	U	0.229	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS118484

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118484

Level: (low/med) LOW

Lab File ID: 2030911/S6117

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV0

Date Analyzed: 09/11/03 Time: 1016

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262311

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	29.4		0.264	5.00
100-41-4	Ethylbenzene	23.7		0.986	5.00
108-88-3	Toluene	23.9		0.177	5.00
1330-20-7	Xylene (total)	72.7		0.664	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	31.7		0.218	5.00
79-01-6	Trichloroethene	29.9		0.327	5.00
108-90-7	Chlorobenzene	23.8		0.229	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD118485

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118485

Level: (low/med) LOW

Lab File ID: 2030911/S6118

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV0

Date Analyzed: 09/11/03 Time: 1038

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262311

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	29.6		0.264	5.00
100-41-4	Ethylbenzene	23.6		0.986	5.00
108-88-3	Toluene	23.4		0.177	5.00
1330-20-7	Xylene (total)	71.2		0.664	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	28.1		0.218	5.00
79-01-6	Trichloroethene	30.0		0.327	5.00
108-90-7	Chlorobenzene	23.4		0.229	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS118232

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 118232

Level: (low/med) LOW

Lab File ID: 2030910/S8275

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV2

Date Analyzed: 09/10/03 Time: 0955

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262245

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	25.4		0.100	5.00
100-41-4	Ethylbenzene	23.5		0.312	5.00
108-88-3	Toluene	24.5		0.152	5.00
1330-20-7	Xylene (total)	71.6		0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	26.8		0.122	5.00
79-01-6	Trichloroethene	24.5		0.323	5.00
108-90-7	Chlorobenzene	24.7		0.157	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS118440

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118440

Level: (low/med) LOW

Lab File ID: 2030911/S8295

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV2

Date Analyzed: 09/11/03 Time: 0854

Soil Extract Volume: (µL)

Dilution Factor: 50 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262301

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	1260		13.2	250
100-41-4	Ethylbenzene	1100		49.3	250
108-88-3	Toluene	1220		8.86	250
1330-20-7	Xylene (total)	3390		33.2	500
1634-04-4	tert-Butyl methyl ether (MTBE)	1330		10.9	250
79-01-6	Trichloroethene	1240		16.4	250
108-90-7	Chlorobenzene	1220		11.4	250

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD118441

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118441

Level: (low/med) LOW

Lab File ID: 2030911/S8296

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV2

Date Analyzed: 09/11/03 Time: 0915

Soil Extract Volume: (µL)

Dilution Factor: 50 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262301

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	1260		13.2	250
100-41-4	Ethylbenzene	1120		49.3	250
108-88-3	Toluene	1230		8.86	250
1330-20-7	Xylene (total)	3520		33.2	500
1634-04-4	tert-Butyl methyl ether (MTBE)	1330		10.9	250
79-01-6	Trichloroethene	1240		16.4	250
108-90-7	Chlorobenzene	1220		11.4	250

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS118435

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g

Lab Sample ID: 118435

Level: (low/med) LOW

Lab File ID: 2030911/S6275

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received:

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 0951

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	25.9		0.264	5.00
100-41-4	Ethylbenzene	24.9		0.986	5.00
108-88-3	Toluene	25.3		0.177	5.00
1330-20-7	Xylene (total)	73.8		0.664	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	24.8		0.218	5.00
79-01-6	Trichloroethene	23.2		0.327	5.00
108-90-7	Chlorobenzene	24.4		0.229	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT03S030908MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.66 (g/ml) g

Lab Sample ID: 20309100802

Level: (low/med) LOW

Lab File ID: 2030911/S6281

% Moisture: not dec. 7.

Date Collected: 09/08/03 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1225

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	29.3		0.307	5.82
100-41-4	Ethylbenzene	29.1		1.15	5.82
108-88-3	Toluene	30.1		0.206	5.82
1330-20-7	Xylene (total)	86.9		0.772	11.6
1634-04-4	tert-Butyl methyl ether (MTBE)	27.8		0.253	5.82

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86JT03S030908MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Matrix: (soil/water) Soil

Sample wt/vol: 4.73 (g/ml) g

Lab Sample ID: 20309100803

Level: (low/med) LOW

Lab File ID: 2030911/S6283

% Moisture: not dec. 7.

Date Collected: 09/08/03 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 09/10/03

Instrument ID: MSV4

Date Analyzed: 09/11/03 Time: 1325

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: HJL

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 262300

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	29.3		0.302	5.73
100-41-4	Ethylbenzene	28.2		1.13	5.73
108-88-3	Toluene	29.3		0.203	5.73
1330-20-7	Xylene (total)	85.2		0.761	11.5
1634-04-4	tert-Butyl methyl ether (MTBE)	26.9		0.250	5.73

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	86PREBW030908	103		109		106		104		0
2.	86PTEBW030909	98		109		107		107		0
3.	86PTEBW030909	98		109		107		107		0
4.	86JTB03S030908	94		108		107		103		0
5.	LCS118232	102		107		106		103		0
6.	MB118233	99		108		108		104		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	78 - 115
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	83 - 112
SMC 4	1,2-Dichloroethane-d4	76 - 128

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Method: SW-846 8260

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	86JT03S030908	81		100		106		96		0
2.	86JT03S030908MS	95		97		105		98		0
3.	86JT03S030908MSD	89		99		102		92		0
4.	86JT04S030908	99		108		91		105		0
5.	86JT05S030909	84		97		108		95		0
6.	86JT06S030909	85		98		105		94		0
7.	86JT12S030909	86		112		100		107		0
8.	86DUPS030908	86		99		101		89		0
9.	LCS118435	86		100		100		100		0
10.	LCS118440	117		108		106		104		0
11.	LCS118484	95		103		88		98		0
12.	LCSD118441	103		107		106		104		0
13.	LCSD118485	95		106		89		101		0
14.	MB118436	86		99		103		101		0
15.	MB118442	96		111		105		108		0
16.	MB118486	95		106		90		101		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	73 - 138
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	65 - 128
SMC 4	1,2-Dichloroethane-d4	60 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Analytical Batch: 262245

SAMPLE NO. : 118232

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	#	*QC. LIMITS*
Benzene	ug/L	25	0	25.4	102		74 - 128
Chlorobenzene	ug/L	25	0	24.7	99		78 - 125
Ethylbenzene	ug/L	25	0	23.5	94		75 - 138
Toluene	ug/L	25	0	24.5	98		76 - 125
Trichloroethene	ug/L	25	0	24.5	98		63 - 118
Xylene (total)	ug/L	75	0	71.6	95		60 - 154
tert-Butyl methyl ether (MTBE)	ug/L	25	0	26.8	107		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 7 outside limits

3B

SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL

Sample ID: 86JT03S030908

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Contract:

Method: SW-846 8260

Analytical Batch: 262300

SAMPLE NO : 20309100802

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	#	*QC. LIMITS*
Benzene	ug/kg	29.1	0	29.3	101		60 - 133
Chlorobenzene	ug/kg	29.1	0	29.2	100		66 - 142
Ethylbenzene	ug/kg	29.1	0	29.1	100		80 - 137
Toluene	ug/kg	29.1	0	30.1	104		59 - 139
Trichloroethene	ug/kg	29.1	0	26.7	92		62 - 137
Xylene (total)	ug/kg	87.3	0	86.9	100		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	29.1	0	27.8	95		70 - 130

SAMPLE NO : 20309100803

COMPOUND	*UNITS*	*SPIKE ADDED*	*MSD CONC.*	*MSD % REC*	#	*% RPD*	#	*QC. LIMITS REC*	*QC. LIMITS RPD*
Benzene	ug/kg	28.6	29.3	102		1		60 - 133	0 - 21
Chlorobenzene	ug/kg	28.6	28	98		2		66 - 142	0 - 21
Ethylbenzene	ug/kg	28.6	28.2	98		2		80 - 137	0 - 30
Toluene	ug/kg	28.6	29.3	102		2		59 - 139	0 - 21
Trichloroethene	ug/kg	28.6	26.7	93		1		62 - 137	0 - 24
Xylene (total)	ug/kg	86	85.2	99		1		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	28.6	26.9	94		1		70 - 130	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 7 outside limits

Spike Recovery: 0 out of 14 outside limits

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8260

Analytical Batch: 262300

SAMPLE NO : 118435

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
Benzene	ug/kg	25	0	25.9	104		77 - 126
Chlorobenzene	ug/kg	25	0	24.4	98		80 - 121
Ethylbenzene	ug/kg	25	0	24.9	100		80 - 137
Toluene	ug/kg	25	0	25.3	101		76 - 124
Trichloroethene	ug/kg	25	0	23.2	93		70 - 124
Xylene (total)	ug/kg	75	0	73.8	98		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	25	0	24.8	99		70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 7 outside limits

FORM III VOA-2

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8260

Analytical Batch: 262301

SAMPLE NO : 118440

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/kg	1250	0	1260	101		77 - 126
Chlorobenzene	ug/kg	1250	0	1220	98		80 - 121
Ethylbenzene	ug/kg	1250	0	1100	88		80 - 137
Toluene	ug/kg	1250	0	1220	98		76 - 124
Trichloroethene	ug/kg	1250	0	1240	99		70 - 124
Xylene (total)	ug/kg	3750	0	3390	90		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	1250	0	1330	106		70 - 130

SAMPLE NO : 118441

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	1250	1260	101		0		77 - 126	0 - 21
Chlorobenzene	ug/kg	1250	1220	98		0		80 - 121	0 - 21
Ethylbenzene	ug/kg	1250	1120	90		2		80 - 137	0 - 30
Toluene	ug/kg	1250	1230	98		0		76 - 124	0 - 21
Trichloroethene	ug/kg	1250	1240	99		0		70 - 124	0 - 24
Xylene (total)	ug/kg	3750	3520	94		4		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	1250	1330	106		0		70 - 130	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 7 outside limits

Spike Recovery: 0 out of 14 outside limits

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8260

Analytical Batch: 262311

SAMPLE NO : 118484

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/kg	25	0	29.4	118		77 - 126
Chlorobenzene	ug/kg	25	0	23.8	95		80 - 121
Ethylbenzene	ug/kg	25	0	23.7	95		80 - 137
Toluene	ug/kg	25	0	23.9	96		76 - 124
Trichloroethene	ug/kg	25	0	29.9	120		70 - 124
Xylene (total)	ug/kg	75	0	72.7	97		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	25	0	31.7	127		70 - 130

SAMPLE NO : 118485

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	25	29.6	118		0		77 - 126	0 - 21
Chlorobenzene	ug/kg	25	23.4	94		1		80 - 121	0 - 21
Ethylbenzene	ug/kg	25	23.6	94		1		80 - 137	0 - 30
Toluene	ug/kg	25	23.4	94		2		76 - 124	0 - 21
Trichloroethene	ug/kg	25	30	120		0		70 - 124	0 - 24
Xylene (total)	ug/kg	75	71.2	95		2		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	25	28.1	112		13		70 - 130	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 7 outside limits

Spike Recovery: 0 out of 14 outside limits

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB118486

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030911/S6120

Lab Sample ID: 118486 Date Extracted:

GC Column: DB-624-30M ID: .53 (mm)

Date Analyzed: 09/11/03 Time: 1120

Instrument ID: MSV0 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 262311

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS118484	118484	2030911/S6117	09/11/03	1016
2.	LCSD118485	118485	2030911/S6118	09/11/03	1038
3.	86JT04S030908	20309100804	2030911/S6125	09/11/03	1514

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB118233

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030910/S8277

Lab Sample ID: 118233 Date Extracted:

GC Column: DB-624-30M ID: .53 (mm)

Date Analyzed: 09/10/03 Time: 1037

Instrument ID: MSV2 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 262245

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS118232	118232	2030910/S8275	09/10/03	0955
2.	86PREBW030908	20309100809	2030910/S8288	09/10/03	1516
3.	86PTEBW030909	20309100810	2030910/S8289	09/10/03	1537
4.	86PTEBW030909	20309100810	2030910/S8289	09/10/03	1537
5.	86JTB03S030908	20309100811	2030910/S8290	09/10/03	1559

FORM IV VOA

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB118442

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030911/S8298

Lab Sample ID: 118442 Date Extracted:

GC Column: DB-624-30M ID: .53 (mm)

Date Analyzed: 09/11/03 Time: 0957

Instrument ID: MSV2 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 262301

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS118440	118440	2030911/S8295	09/11/03	0854
2.	LCSD118441	118441	2030911/S8296	09/11/03	0915
3.	86JT12S030909	20309100807	2030911/S8306	09/11/03	1545

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB118436

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030911/S6277

Lab Sample ID: 118436 Date Extracted:

GC Column: DB-624-30M ID: .53 (mm)

Date Analyzed: 09/11/03 Time: 1048

Instrument ID: MSV4 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 262300

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS118435	118435	2030911/S6275	09/11/03	0951
2.	86JT03S030908	20309100801	2030911/S6279	09/11/03	1128
3.	86JT03S030908MS	20309100802	2030911/S6281	09/11/03	1225
4.	86JT03S030908MSD	20309100803	2030911/S6283	09/11/03	1325
5.	86JT05S030909	20309100805	2030911/S6285	09/11/03	1422
6.	86JT06S030909	20309100806	2030911/S6286	09/11/03	1451
7.	86DUPS030908	20309100808	2030911/S6292	09/11/03	1741

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030909/S6061

BFB Injection Date: 09/09/03

Instrument ID: MSV0

BFB Injection Time: 1421

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262246

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	17.05	(	)	
75	30.0 - 60.0% of mass 95	42.94	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.02	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	73.89	(	)	
175	5.0 - 9.0% of mass 174	5.3	(7.18	)	1
176	95.0 - 101.0% of mass 174	70.94	(96.01	)	1
177	5.0 - 9.0% of mass 176	4.63	(6.53	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V0STD002	1206	2030909/S6063	09/09/03	1520
2.	V0STD005	1201	2030909/S6064	09/09/03	1542
3.	V0STD020	1202	2030909/S6065	09/09/03	1604
4.	V0STD050	1203	2030909/S6066	09/09/03	1626
5.	V0STD100	1204	2030909/S6067	09/09/03	1647
6.	V0STD200	1205	2030909/S6068	09/09/03	1709

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030911/S6111

BFB Injection Date: 09/11/03

Instrument ID: MSV0

BFB Injection Time: 0736

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262311

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	15.9	(	)	
75	30.0 - 60.0% of mass 95	42.72	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.85	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	77.9	(	)	
175	5.0 - 9.0% of mass 174	5.92	(7.6	)	1
176	95.0 - 101.0% of mass 174	75.45	(96.86	)	1
177	5.0 - 9.0% of mass 176	4.99	(6.62	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V0STD050	1400	2030911/S6115	09/11/03	0921
2.	LCS118484	118484	2030911/S6117	09/11/03	1016
3.	LCSD118485	118485	2030911/S6118	09/11/03	1038
4.	MB118486	118486	2030911/S6120	09/11/03	1120
5.	86JT04S030908	20309100804	2030911/S6125	09/11/03	1514

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030901/S8030B

BFB Injection Date: 09/01/03

Instrument ID: MSV2

BFB Injection Time: 1116

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262253

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	17.73	(	)	
75	30.0 - 60.0% of mass 95	45.21	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.8	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	83.95	(	)	
175	5.0 - 9.0% of mass 174	5.8	(6.91	)	1
176	95.0 - 101.0% of mass 174	80.51	(95.91	)	1
177	5.0 - 9.0% of mass 176	5.58	(6.94	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V2STD002	1206	2030901/S8034	09/01/03	1335
2.	V2STD005	1201	2030901/S8035	09/01/03	1356
3.	V2STD020	1202	2030901/S8036	09/01/03	1417
4.	V2STD050	1203	2030901/S8037	09/01/03	1438
5.	V2STD100	1204	2030901/S8038	09/01/03	1458
6.	V2STD200	1205	2030901/S8039	09/01/03	1519

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030910/S8272

BFB Injection Date: 09/10/03

Instrument ID: MSV2

BFB Injection Time: 0812

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262245

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	20.52	(	)	
75	30.0 - 60.0% of mass 95	47.6	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.99	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	85.08	(	)	
175	5.0 - 9.0% of mass 174	6.1	(7.17	)	1
176	95.0 - 101.0% of mass 174	81.62	(95.94	)	1
177	5.0 - 9.0% of mass 176	5.51	(6.76	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V2STD050	1400	2030910/S8274	09/10/03	0922
2.	LCS118232	118232	2030910/S8275	09/10/03	0955
3.	MB118233	118233	2030910/S8277	09/10/03	1037
4.	86PREBW030908	20309100809	2030910/S8288	09/10/03	1516
5.	86PTEBW030909	20309100810	2030910/S8289	09/10/03	1537
6.	86PTEBW030909	20309100810	2030910/S8289	09/10/03	1537
7.	86JTB03S030908	20309100811	2030910/S8290	09/10/03	1559

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030911/S8292

BFB Injection Date: 09/11/03

Instrument ID: MSV2

BFB Injection Time: 0720

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262301

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	19.85	(	)	
75	30.0 - 60.0% of mass 95	45.93	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.66	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	80.11	(	)	
175	5.0 - 9.0% of mass 174	5.67	(7.08	)	1
176	95.0 - 101.0% of mass 174	76.49	(95.49	)	1
177	5.0 - 9.0% of mass 176	5.15	(6.74	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V2STD050	1400	2030911/S8294	09/11/03	0820
2.	LCS118440	118440	2030911/S8295	09/11/03	0854
3.	LCSD118441	118441	2030911/S8296	09/11/03	0915
4.	MB118442	118442	2030911/S8298	09/11/03	0957
5.	86JT12S030909	20309100807	2030911/S8306	09/11/03	1545

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030906/S6163

BFB Injection Date: 09/06/03

Instrument ID: MSV4

BFB Injection Time: 0734

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262295

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	19.74	(	)	
75	30.0 - 60.0% of mass 95	41.63	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.76	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	71.18	(	)	
175	5.0 - 9.0% of mass 174	5.15	(7.24	)	1
176	95.0 - 101.0% of mass 174	68.32	(95.99	)	1
177	5.0 - 9.0% of mass 176	4.47	(6.55	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V4STD002	1206	2030906/S6165	09/06/03	0835
2.	V4STD005	1201	2030906/S6166	09/06/03	0903
3.	V4STD020	1202	2030906/S6167	09/06/03	0932
4.	V4STD050	1203	2030906/S6168	09/06/03	1000
5.	V4STD100	1204	2030906/S6169	09/06/03	1028
6.	V4STD200	1205	2030906/S6170	09/06/03	1057

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID: 2030911/S6271

BFB Injection Date: 09/11/03

Instrument ID: MSV4

BFB Injection Time: 0742

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262300

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	21.65	(	)	
75	30.0 - 60.0% of mass 95	43.57	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	69.91	(	)	
175	5.0 - 9.0% of mass 174	4.87	(6.98	)	1
176	95.0 - 101.0% of mass 174	67.12	(96.01	)	1
177	5.0 - 9.0% of mass 176	3.95	(5.89	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V4STD050	1400	2030911/S6273	09/11/03	0846
2.	LCS118435	118435	2030911/S6275	09/11/03	0951
3.	MB118436	118436	2030911/S6277	09/11/03	1048
4.	86JT03S030908	20309100801	2030911/S6279	09/11/03	1128
5.	86JT03S030908MS	20309100802	2030911/S6281	09/11/03	1225
6.	86JT03S030908MSD	20309100803	2030911/S6283	09/11/03	1325
7.	86JT05S030909	20309100805	2030911/S6285	09/11/03	1422
8.	86JT06S030909	20309100806	2030911/S6286	09/11/03	1451
9.	86DUPS030908	20309100808	2030911/S6292	09/11/03	1741

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV0

Calibration Date 1: 09/09/03 Time 1: 1520

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/09/03 Time 2: 1709

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 262246

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.228	0.110	0.084	0.070	0.066					0.061	0.999		50	Linear
Acrolein	0.020	0.019	0.019	0.018	0.019					0.019	3.510		50	Averaged
Acrylonitrile	0.070	0.072	0.071	0.084	0.067					0.073	9.027		50	Averaged
Bromochloromethane	0.130	0.134	0.123	0.109	0.103					0.120	11.08		50	Averaged
Bromodichloromethane	0.329	0.347	0.330	0.324	0.313					0.329	3.757		50	Averaged
Bromoform	0.359	0.396	0.406	0.395	0.412					0.394	5.192		50	Averaged
Bromomethane	0.254	0.141	0.109	0.113	0.075					0.138	49.73		50	Averaged
Carbon disulfide	0.713	0.719	0.695	0.642	0.583					0.671	8.606		50	Averaged
Carbon tetrachloride	0.232	0.254	0.250	0.234	0.218					0.238	6.083		50	Averaged
Chloroethane	0.188	0.134	0.120	0.106	0.089					0.087	0.991		50	Linear
m,p-Xylene	1.277	1.386	1.377	1.282	1.213					1.307	5.581		50	Averaged
Chloroform	0.449	0.423	0.413	0.386	0.363	0.480				0.419	10.09		30	Averaged
Chloromethane	0.475	0.328	0.285	0.278	0.262					0.257	1.000		50	Linear
Dibromochloromethane	0.642	0.666	0.677	0.648	0.665					0.660	2.164		50	Averaged
Dibromomethane	0.152	0.156	0.153	0.145	0.144					0.150	3.555		50	Averaged
Dichlorodifluoromethane	0.179	0.209	0.204	0.181	0.177					0.190	8.052		50	Averaged
1,1-Dichloroethane	0.370	0.378	0.373	0.427	0.389					0.387	5.966		50	Averaged
1,2-Dichloroethane	0.294	0.301	0.291	0.274	0.266	0.276				0.284	4.888		50	Averaged
cis-1,2-Dichloroethene	0.386	0.399	0.397	0.373	0.345					0.380	5.809		50	Averaged
trans-1,2-Dichloroethene	0.272	0.280	0.273	0.310	0.224					0.272	11.31		50	Averaged
Methylene chloride	0.428	0.301	0.263	0.234	0.212					0.205	0.997		50	Linear
1,2-Dichloropropane	0.300	0.310	0.307	0.285	0.270					0.295	5.732		30	Averaged
cis-1,3-Dichloropropene	0.419	0.430	0.431	0.403	0.396					0.416	3.797		50	Averaged
trans-1,3-Dichloropropene	0.891	0.921	0.919	0.869	0.891					0.898	2.438		50	Averaged
Ethylbenzene	0.967	1.034	1.038	0.984	0.948					0.994	4.060		30	Averaged
2-Hexanone	0.644	0.593	0.610	0.539	0.557					0.589	7.107		50	Averaged
Isopropylbenzene (Cumene)	2.916	3.313	3.305	3.114	2.976					3.124	5.852		50	Averaged
2-Butanone	0.221	0.171	0.157	0.135	0.138					0.135	0.999		50	Linear
Methyl iodide	0.111	0.161	0.206	0.196	0.201					0.204	0.999		50	Linear
4-Methyl-2-pentanone	0.338	0.309	0.305	0.290	0.299					0.308	5.843		50	Averaged
n-Propylbenzene	3.590	4.151	4.073	3.780	3.589					3.837	6.900		50	Averaged
Styrene	2.111	2.282	2.318	2.184	2.095					2.198	4.540		50	Averaged
Tetrachloroethene	0.487	0.546	0.539	0.512	0.494					0.516	5.108		50	Averaged
1,1,1,2-Tetrachloroethane	0.578	0.604	0.615	0.579	0.580					0.591	2.923		50	Averaged
1,1,2,2-Tetrachloroethane	0.931	0.940	0.920	0.873	0.912					0.915	2.811		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV0

Calibration Date 1: 09/09/03 Time 1: 1520

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/09/03 Time 2: 1709

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 262246

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,2,4-Trichlorobenzene	0.875	0.893	0.915	0.865	0.857					0.881	2.656		50	Averaged
1,1,1-Trichloroethane	0.310	0.326	0.322	0.302	0.278					0.308	6.203		50	Averaged
1,1,2-Trichloroethane	0.598	0.615	0.620	0.585	0.598					0.603	2.324		50	Averaged
Trichlorofluoromethane	0.207	0.232	0.228	0.206	0.195					0.214	7.282		50	Averaged
1,2,3-Trichloropropane	1.062	1.094	1.089	0.998	1.010					1.050	4.233		50	Averaged
1,2,4-Trimethylbenzene	2.766	2.975	2.942	2.762	2.643					2.818	4.906		50	Averaged
1,3,5-Trimethylbenzene	2.733	2.962	2.903	2.708	2.550					2.771	5.934		50	Averaged
Vinyl chloride	0.220	0.238	0.236	0.218	0.199	0.222				0.222	6.419		30	Averaged
o-Xylene	1.205	1.309	1.317	1.228	1.159					1.244	5.458		50	Averaged
1,2-Dibromo-3-chloropropane	0.164	0.159	0.168	0.160	0.175					0.165	3.925		50	Averaged
1,2-Dibromoethane	0.576	0.597	0.607	0.576	0.600					0.591	2.435		50	Averaged
Vinyl acetate	0.200	0.204	0.186	0.218	0.196					0.201	5.836		50	Averaged
tert-Butyl methyl ether (MTBE)	0.526	0.545	0.532	0.607	0.493					0.541	7.723		50	Averaged
1,2-Dichloroethene	0.329	0.340	0.335	0.342	0.285					0.326	7.230		50	Averaged
4-Isopropyltoluene	2.636	3.044	3.036	2.885	2.761					2.872	6.142		50	Averaged
Xylene (total)	1.253	1.360	1.357	1.264	1.195					1.286	5.531		50	Averaged
Methylcyclohexane	0.355	0.503	0.482	0.440	0.439					0.444	12.85		50	Averaged
n-Hexane	0.254	0.314	0.301	0.339	0.311					0.304	10.18		50	Averaged
trans-1,4-Dichloro-2-butene	0.213	0.231	0.227	0.192	0.213					0.215	7.165		50	Averaged
Cyclohexane	0.403	0.524	0.513	0.469	0.453					0.473	10.33		50	Averaged
2,2-Dichloropropane	0.299	0.302	0.302	0.272	0.258					0.287	7.111		50	Averaged
Methyl Acetate	0.222	0.175	0.152	0.113	0.137					0.132	0.986		50	Linear
Trichlorotrifluoroethane	0.156	0.190	0.183	0.166	0.160					0.171	8.747		50	Averaged
1,1-Dichloropropene	0.312	0.338	0.330	0.304	0.279					0.312	7.417		50	Averaged
2-Chloroethylvinyl ether	0.138	0.138	0.146	0.110	0.129					0.132	10.54		50	Averaged
1,3-Dichloropropane	1.086	1.080	1.085	1.028	1.020					1.060	3.105		50	Averaged
Bromobenzene	1.847	1.943	1.897	1.757	1.708					1.830	5.303		50	Averaged
2-Chlorotoluene	2.413	2.637	2.585	2.366	2.215					2.443	6.988		50	Averaged
4-Chlorotoluene	2.513	2.706	2.656	2.287	2.213					2.475	8.842		50	Averaged
tert-Butylbenzene	1.630	1.813	1.791	1.664	1.572					1.694	6.150		50	Averaged
sec-Butylbenzene	3.309	3.854	3.791	3.652	3.497					3.620	6.121		50	Averaged
1,3-Dichlorobenzene	1.564	1.647	1.666	1.604	1.553					1.607	3.094		50	Averaged
1,4-Dichlorobenzene	1.565	1.557	1.552	1.512	1.465					1.530	2.730		50	Averaged
n-Butylbenzene	2.467	2.763	2.724	2.602	2.522					2.616	4.843		50	Averaged
1,2-Dichlorobenzene	1.422	1.458	1.455	1.395	1.386					1.423	2.344		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV0

Calibration Date 1: 09/09/03 Time 1: 1520

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/09/03 Time 2: 1709

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 262246

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Hexachlorobutadiene	0.358	0.465	0.458	0.464	0.468					0.442	10.75		50	Averaged
Naphthalene	2.109	2.093	2.281	2.082	2.290					2.171	4.831		50	Averaged
1,2,3-Trichlorobenzene	0.796	0.836	0.871	0.823	0.816					0.828	3.375		50	Averaged
1,1-Dichloroethene	0.160	0.174	0.178	0.158	0.142					0.162	8.741		30	Averaged
Benzene	1.144	1.149	1.130	1.052	0.976					1.090	6.874		50	Averaged
Trichloroethene	0.286	0.293	0.293	0.276	0.254					0.280	5.866		50	Averaged
Toluene	2.937	2.998	2.952	2.812	2.704					2.881	4.182		30	Averaged
Chlorobenzene	1.908	1.953	1.966	1.863	1.825					1.903	3.136		50	Averaged
4-Bromofluorobenzene	0.686	0.723	0.732	0.705	0.687					0.707	2.903		50	Averaged
Dibromofluoromethane	0.257	0.262	0.259	0.245	0.233					0.251	4.809		50	Averaged
Toluene-d8	2.442	2.476	2.501	2.333	2.228					2.396	4.746		50	Averaged
1,2-Dichloroethane-d4	0.130	0.137	0.133	0.128	0.124					0.130	3.610		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV0

Calibration Date: 09/11/03 Time: 0921

Lab File ID: 2030911/S6115

Init. Calib. Date 1: 09/09/03 Time 1: 1520

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 09/09/03 Time 2: 1709

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262311

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.061	0.136	0	92.1	50
Acrolein	0.019	0.029	0	54.4	50
Acrylonitrile	0.073	0.110	0	50.9	50
Bromochloromethane	0.120	0.141	0	17.4	50
Bromodichloromethane	0.329	0.361	0	9.792	50
Bromoform	0.394	0.383	.1	-2.59	50
Bromomethane	0.138	0.098	0	-29.2	50
Carbon disulfide	0.671	0.658	0	-1.80	50
Carbon tetrachloride	0.238	0.248	0	4.377	50
Chloroethane	0.087	0.113	0	5.532	50
m,p-Xylene	1.307	1.140	0	-12.7	50
Chloroform	0.419	0.416	0	-0.80	20
Chloromethane	0.257	0.254	.1	-12.4	50
Dibromochloromethane	0.660	0.591	0	-10.3	50
Dibromomethane	0.150	0.176	0	17.4	50
Dichlorodifluoromethane	0.190	0.120	0	-36.6	50
1,1-Dichloroethane	0.387	0.384	.1	-0.87	50
1,2-Dichloroethane	0.284	0.326	0	14.8	50
cis-1,2-Dichloroethene	0.380	0.346	0	-9.10	50
trans-1,2-Dichloroethene	0.272	0.281	0	3.148	50
Methylene chloride	0.205	0.288	0	20.7	50
1,2-Dichloropropane	0.295	0.319	0	8.215	20
cis-1,3-Dichloropropene	0.416	0.462	0	11.3	50
trans-1,3-Dichloropropene	0.898	0.823	0	-8.32	50
Ethylbenzene	0.994	0.852	0	-14.3	20
2-Hexanone	0.589	0.672	0	14.1	50
Isopropylbenzene (Cumene)	3.124	2.705	0	-13.4	50
2-Butanone	0.135	0.193	0	34.4	50
Methyl iodide	0.204	0.154	0	-19.5	50
4-Methyl-2-pentanone	0.308	0.429	0	39.2	50
n-Propylbenzene	3.837	3.267	0	-14.8	50
Styrene	2.198	1.929	0	-12.2	50
Tetrachloroethene	0.516	0.450	0	-12.7	50
1,1,1,2-Tetrachloroethane	0.591	0.507	0	-14.1	50
1,1,2,2-Tetrachloroethane	0.915	0.897	.3	-2.01	50
1,2,4-Trichlorobenzene	0.881	0.818	0	-7.11	50
1,1,1-Trichloroethane	0.308	0.317	0	2.951	50
1,1,2-Trichloroethane	0.603	0.555	0	-8.05	50
Trichlorofluoromethane	0.214	0.219	0	2.471	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV0

Calibration Date: 09/11/03 Time: 0921

Lab File ID: 2030911/S6115

Init. Calib. Date 1: 09/09/03 Time 1: 1520

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 09/09/03 Time 2: 1709

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262311

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.050	1.068	0	1.661	50
1,2,4-Trimethylbenzene	2.818	2.432	0	-13.7	50
1,3,5-Trimethylbenzene	2.771	2.359	0	-14.8	50
Vinyl chloride	0.222	0.208	0	-6.23	20
o-Xylene	1.244	1.084	0	-12.8	50
1,2-Dibromo-3-chloropropane	0.165	0.186	0	12.4	50
1,2-Dibromoethane	0.591	0.558	0	-5.52	50
Vinyl acetate	0.201	0.207	0	3.101	50
tert-Butyl methyl ether (MTBE)	0.541	0.597	0	10.3	50
1,2-Dichloroethene	0.326	0.313	0	-3.99	50
4-Isopropyltoluene	2.872	2.514	0	-12.4	50
Xylene (total)	1.286	1.122	0	-12.7	50
Methylcyclohexane	0.444	0.481	0	8.345	50
n-Hexane	0.304	0.331	0	8.775	50
trans-1,4-Dichloro-2-butene	0.215	0.228	0	5.857	50
Cyclohexane	0.473	0.482	0	2.032	50
2,2-Dichloropropane	0.287	0.274	0	-4.57	50
Methyl Acetate	0.132	0.115	0	-17.0	50
Trichlorotrifluoroethane	0.171	0.179	0	4.501	50
1,1-Dichloropropene	0.312	0.328	0	4.990	50
2-Chloroethylvinyl ether	0.132	0.189	0	43.4	50
1,3-Dichloropropane	1.060	0.973	0	-8.18	50
Bromobenzene	1.830	1.618	0	-11.5	50
2-Chlorotoluene	2.443	2.081	0	-14.8	50
4-Chlorotoluene	2.475	2.012	0	-18.7	50
tert-Butylbenzene	1.694	1.419	0	-16.2	50
sec-Butylbenzene	3.620	3.135	0	-13.4	50
1,3-Dichlorobenzene	1.607	1.391	0	-13.4	50
1,4-Dichlorobenzene	1.530	1.407	0	-8.08	50
n-Butylbenzene	2.616	2.331	0	-10.8	50
1,2-Dichlorobenzene	1.423	1.257	0	-11.6	50
Hexachlorobutadiene	0.442	0.390	0	-11.8	50
Naphthalene	2.171	2.221	0	2.298	50
1,2,3-Trichlorobenzene	0.828	0.773	0	-6.65	50
1,1-Dichloroethene	0.162	0.167	0	2.844	20
Benzene	1.090	1.156	0	6.069	50
Trichloroethene	0.280	0.302	0	7.678	50
Toluene	2.881	2.402	0	-16.6	20
Chlorobenzene	1.903	1.642	.3	-13.7	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV0

Calibration Date: 09/11/03 Time: 0921

Lab File ID: 2030911/S6115

Init. Calib. Date 1: 09/09/03 Time 1: 1520

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 09/09/03 Time 2: 1709

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262311

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
4-Bromofluorobenzene	0.707	0.689	0	-2.42	50
Dibromofluoromethane	0.251	0.263	0	4.727	50
Toluene-d8	2.396	2.130	0	-11.1	50
1,2-Dichloroethane-d4	0.130	0.136	0	4.319	50

FORM V II VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date 1: 08/27/03 Time 1: 1102

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/01/03 Time 2: 1519

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 261795

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.070	0.063	0.089	0.074	0.069					0.073	13.18		50	Averaged
Acrolein	0.017	0.018	0.021	0.021	0.018					0.019	8.747		50	Averaged
Acrylonitrile	0.064	0.056	0.067	0.064	0.063					0.063	6.338		50	Averaged
Benzal chloride	0.370	0.151	0.179							0.270	36.49		50	Averaged
Bromochloromethane	0.078	0.106	0.115	0.116	0.115					0.106	15.49		50	Averaged
Bromodichloromethane	0.383	0.351	0.370	0.367	0.359					0.366	3.289		50	Averaged
Bromoform	0.381	0.378	0.451	0.455	0.469					0.427	10.22		50	Averaged
Bromomethane	0.087	0.099	0.086	0.075	0.063					0.082	16.85		50	Averaged
Carbon disulfide	0.663	0.662	0.719	0.689	0.651					0.677	4.017		50	Averaged
Carbon tetrachloride	0.203	0.214	0.226	0.224	0.213					0.216	4.305		50	Averaged
Chloroethane	0.053	0.103	0.093	0.080	0.064	0.00				0.079	25.97		50	Averaged
m,p-Xylene	1.057	1.169	1.282	1.281	1.259					1.210	8.040		50	Averaged
Chloroform	0.544	0.443	0.436	0.421	0.402					0.449	12.33		30	Averaged
Chloromethane	0.295	0.291	0.291	0.277	0.263					0.283	4.742		50	Averaged
Dibromochloromethane	0.489	0.473	0.527	0.526	0.527					0.509	5.060		50	Averaged
Dibromomethane	0.145	0.148	0.167	0.167	0.164					0.158	6.877		50	Averaged
Dichlorodifluoromethane	0.227	0.239	0.245	0.238	0.220					0.234	4.374		50	Averaged
1,1-Dichloroethane	0.337	0.356	0.370	0.406	0.364					0.367	6.854		50	Averaged
1,2-Dichloroethane	0.296	0.304	0.328	0.319	0.299					0.309	4.470		50	Averaged
cis-1,2-Dichloroethene	0.366	0.394	0.414	0.401	0.378					0.391	4.825		50	Averaged
trans-1,2-Dichloroethene	0.239	0.257	0.265	0.252	0.238					0.250	4.688		50	Averaged
Methylene chloride	0.361	0.272	0.254	0.235	0.236					0.231	1.000		50	Linear
1,2-Dichloropropane	0.292	0.306	0.318	0.306	0.273	0.295				0.298	5.186		30	Averaged
cis-1,3-Dichloropropene	0.394	0.431	0.474	0.477	0.461					0.447	7.816		50	Averaged
trans-1,3-Dichloropropene	0.822	0.887	1.013	0.991	0.972					0.937	8.562		50	Averaged
Ethylbenzene	0.790	0.889	0.976	0.964	0.960					0.916	8.514		30	Averaged
Ethyl methacrylate	1.344	0.703	0.764	0.705	0.686					0.674	0.999		50	Linear
2-Hexanone	0.448	0.435	0.580	0.548	0.528					0.508	12.52		50	Averaged
Isobutyl alcohol	0.021	0.009	0.01	0.009	0.011					0.011	0.992		50	Linear
Isopropylbenzene (Cumene)	2.557	2.926	3.222	3.181	3.120					3.001	9.097		50	Averaged
2-Butanone	0.138	0.112	0.148	0.133	0.124					0.131	10.45		50	Averaged
Methyl iodide	0.278	0.297	0.313	0.303	0.288					0.296	4.634		50	Averaged
4-Methyl-2-pentanone	0.240	0.234	0.287	0.290	0.269					0.264	9.793		50	Averaged
n-Propylbenzene	3.771	4.248	4.668	4.448	4.369					4.301	7.750		50	Averaged
Styrene	1.769	2.018	2.258	2.253	2.242					2.259	1.000		50	Linear

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date 1: 08/27/03 Time 1: 1102

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/01/03 Time 2: 1519

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 261795

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Tetrachloroethene	0.424	0.491	0.546	0.551	0.533					0.538	0.999		50	Linear
1,1,1,2-Tetrachloroethane	0.416	0.441	0.479	0.482	0.477					0.459	6.397		50	Averaged
1,1,2,2-Tetrachloroethane	0.960	0.916	1.070	1.035	1.017					0.999	6.159		50	Averaged
1,2,4-Trichlorobenzene	0.824	0.854	0.853	0.754	0.658					0.789	10.55		50	Averaged
1,1,1-Trichloroethane	0.292	0.308	0.322	0.318	0.302					0.308	3.904		50	Averaged
1,1,2-Trichloroethane	0.531	0.535	0.608	0.610	0.607					0.578	7.176		50	Averaged
Trichlorofluoromethane	0.145	0.235	0.234	0.220	0.195					0.206	18.26		50	Averaged
1,2,3-Trichloropropane	1.119	1.113	1.299	1.231	1.128					1.178	7.071		50	Averaged
1,2,4-Trimethylbenzene	1.796	1.984	1.830	1.711	1.369					1.738	13.15		50	Averaged
1,3,5-Trimethylbenzene	1.832	2.065	1.953	1.873	1.568					1.858	9.950		50	Averaged
Vinyl chloride	0.229	0.240	0.239	0.227	0.212	0.171				0.220	11.80		30	Averaged
o-Xylene	0.985	1.122	1.231	1.229	1.207					1.155	9.060		50	Averaged
Chloroprene	0.565	0.351	0.386	0.379	0.339					0.338	0.996		50	Linear
1,2-Dibromo-3-chloropropane	0.167	0.162	0.201	0.201	0.198					0.186	10.66		50	Averaged
1,2-Dibromoethane	0.493	0.500	0.587	0.595	0.601					0.555	9.708		50	Averaged
Methyl methacrylate	0.260	0.153	0.174	0.154	0.167					0.165	0.997		50	Linear
Propiontrile	0.066	0.033	0.038	0.036	0.035					0.035	0.999		50	Linear
Vinyl acetate	0.186	0.189	0.201	0.186	0.170					0.186	6.051		50	Averaged
tert-Butyl methyl ether (MTBE)	0.464	0.439	0.495	0.490	0.472					0.472	4.685		50	Averaged
1,2-Dichloroethene	0.302	0.325	0.339	0.327	0.308					0.320	4.695		50	Averaged
4-Isopropyltoluene	2.001	2.364	2.437	2.368	2.058					2.245	8.920		50	Averaged
Xylene (total)	1.033	1.153	1.265	1.264	1.242	1.079				1.173	8.547		50	Averaged
1,4 Dioxane	0.004	0.002	0.002	0.002	0.002					0.002	0.998		50	Linear
1,3-Butadiene	0.397	0.157	0.181	0.206	0.191					0.226	42.85		50	Averaged
Methylcyclohexane	0.439	0.493	0.532	0.525	0.471					0.492	7.821		50	Averaged
n-Hexane	0.271	0.289	0.319	0.308	0.279					0.293	6.794		50	Averaged
trans-1,4-Dichloro-2-butene	0.218	0.219	0.261	0.241	0.211					0.230	8.953		50	Averaged
Cyclohexane	0.479	0.532	0.557	0.537	0.477					0.516	6.971		50	Averaged
2,2-Dichloropropane	0.313	0.320	0.331	0.323	0.305					0.318	3.104		50	Averaged
Diethyl ether	0.280	0.151	0.146	0.128	0.109					0.105	0.992		50	Linear
Cyclohexanone	0.276	0.087	0.194	0.140	0.110					0.161	46.76		50	Averaged
Methyl Acetate	0.128	0.118	0.143	0.127	0.125					0.125	0.998		50	Linear
Trichlorotrifluoroethane	0.200	0.202	0.214	0.202	0.182					0.200	5.781		50	Averaged
1,1-Dichloropropene	0.291	0.330	0.352	0.340	0.314					0.325	7.264		50	Averaged
2-Chloroethylvinyl ether	0.154	0.160	0.135	0.202	0.189					0.197	0.992		50	Linear

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date 1: 08/27/03 Time 1: 1102

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/01/03 Time 2: 1519

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 261795

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,3-Dichloropropane	1.002	1.020	1.146	1.106	1.028					1.060	5.878		50	Averaged
Bromobenzene	1.923	2.032	2.231	2.118	1.968					2.054	5.988		50	Averaged
2-Chlorotoluene	2.351	2.578	2.750	2.061	2.076					2.363	12.86		50	Averaged
4-Chlorotoluene	2.480	2.794	2.925	2.879	2.729					2.761	6.321		50	Averaged
tert-Butylbenzene	1.603	1.810	1.912	1.825	1.710					1.772	6.681		50	Averaged
sec-Butylbenzene	3.183	3.696	3.984	3.895	3.759					3.703	8.431		50	Averaged
1,3-Dichlorobenzene	1.303	1.469	1.568	1.569	1.446					1.471	7.463		50	Averaged
1,4-Dichlorobenzene	1.437	1.510	1.665	1.574	1.564					1.550	5.425		50	Averaged
n-Butylbenzene	1.996	2.326	2.288	2.152	1.827					2.118	9.813		50	Averaged
1,2-Dichlorobenzene	1.260	1.371	1.487	1.467	1.439					1.405	6.559		50	Averaged
Hexachlorobutadiene	0.478	0.529	0.602	0.563	0.544					0.543	8.378		50	Averaged
Naphthalene	1.727	1.589	1.634	1.417	1.224					1.518	13.12		50	Averaged
1,2,3-Trichlorobenzene	0.800	0.801	0.839	0.746	0.673					0.772	8.361		50	Averaged
2,3-Dichloro-1-propene	0.746	0.389	0.417	0.422	0.436					0.482	30.81		50	Averaged
Isopropyl Ether	1.450	0.922	0.966	0.911	0.899					0.889	1.000		50	Linear
Acetonitrile	0.124	0.061	0.059	0.057	0.050					0.049	0.997		50	Linear
Allyl chloride	0.185	0.069	0.059	0.056	0.064					0.062	0.991		50	Linear
sec-Butanol	0.019	0.012	0.013	0.008	0.01					0.012	36.07			Averaged
Ethyl acetate	0.397	0.210	0.240	0.211	0.206					0.202	0.998		50	Linear
n-Butyl alcohol	0.015	0.007	0.008	0.008	0.008					0.008	0.999		50	Linear
t-Butanol	0.151	0.095	0.103	0.098	0.098					0.097	1.000		50	Linear
Pentachloroethane	0.916	0.543	0.610	0.572	0.685					0.686	0.992		50	Linear
1,1-Dichloroethene	0.104	0.170	0.177	0.168	0.158					0.155	18.96		30	Averaged
Benzene	1.023	1.088	1.132	1.109	1.026	1.063				1.073	4.120		50	Averaged
Trichloroethene	0.195	0.213	0.230	0.230	0.225					0.219	6.725		50	Averaged
Toluene	2.385	2.598	2.820	2.810	2.713					2.665	6.764		30	Averaged
Chlorobenzene	1.521	1.617	1.778	1.769	1.744					1.686	6.692		50	Averaged
4-Bromofluorobenzene	0.726	0.812	0.893	0.883	0.904					0.844	8.924		50	Averaged
Dibromofluoromethane	0.211	0.224	0.237	0.236	0.229					0.227	4.637		50	Averaged
Toluene-d8	1.812	2.018	2.176	2.182	2.125					2.063	7.505		50	Averaged
1,2-Dichloroethane-d4	0.127	0.128	0.141	0.141	0.136					0.135	5.011		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date: 09/10/03 Time: 0922

Lab File ID: 2030910/S8274

Init. Calib. Date 1: 08/27/03 Time 1: 1102

Heated Purge: (Y/N) N

Init. Calib. Date 2: 09/01/03 Time 2: 1519

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262245

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.073	0.077	0	5.684	50
Acrolein	0.019	0.024	0	25.0	50
Acrylonitrile	0.063	0.074	0	17.5	50
Bromochloromethane	0.106	0.113	0	-0.28	50
Bromodichloromethane	0.366	0.334	0	-8.81	50
Bromoform	0.427	0.386	.1	-9.69	50
Bromomethane	0.082	0.104	0	26.7	50
Carbon disulfide	0.677	0.710	0	4.883	50
Carbon tetrachloride	0.216	0.206	0	-4.61	50
Chloroethane	0.079	0.104	0	31.8	50
m,p-Xylene	1.210	1.115	0	-7.83	50
Chloroform	0.449	0.393	0	-12.5	20
Chloromethane	0.283	0.289	.1	1.849	50
Dibromochloromethane	0.509	0.469	0	-7.86	50
Dibromomethane	0.158	0.155	0	-2.09	50
Dichlorodifluoromethane	0.234	0.212	0	-9.51	50
1,1-Dichloroethane	0.367	0.366	.1	-0.06	50
1,2-Dichloroethane	0.309	0.311	0	0.452	50
cis-1,2-Dichloroethene	0.391	0.387	0	-0.86	50
trans-1,2-Dichloroethene	0.250	0.267	0	6.766	50
Methylene chloride	0.231	0.272	0	10.8	50
1,2-Dichloropropane	0.298	0.298	0	-0.06	20
cis-1,3-Dichloropropene	0.447	0.433	0	-3.13	50
trans-1,3-Dichloropropene	0.937	0.873	0	-6.83	50
Ethylbenzene	0.916	0.826	0	-9.83	20
2-Hexanone	0.508	0.448	0	-11.7	50
Isopropylbenzene (Cumene)	3.001	2.760	0	-8.04	50
2-Butanone	0.131	0.129	0	-1.53	50
Methyl Iodide	0.296	0.324	0	9.345	50
4-Methyl-2-pentanone	0.264	0.250	0	-5.34	50
n-Propylbenzene	4.301	3.824	0	-11.0	50
Styrene	2.259	1.974	0	-6.34	50
Tetrachloroethene	0.538	0.462	0	-9.17	50
1,1,1,2-Tetrachloroethane	0.459	0.437	0	-4.87	50
1,1,2,2-Tetrachloroethane	0.999	0.924	.3	-7.58	50
1,2,4-Trichlorobenzene	0.789	0.794	0	0.649	50
1,1,1-Trichloroethane	0.308	0.290	0	-6.00	50
1,1,2-Trichloroethane	0.578	0.535	0	-7.38	50
Trichlorofluoromethane	0.206	0.226	0	5.679	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date: 09/10/03 Time: 0922

Lab File ID: 2030910/S8274

Init. Calib. Date 1: 08/27/03 Time 1: 1102

Heated Purge: (Y/N) N

Init. Calib. Date 2: 09/01/03 Time 2: 1519

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262245

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.178	1.092	0	-7.30	50
1,2,4-Trimethylbenzene	1.738	1.552	0	-10.6	50
1,3,5-Trimethylbenzene	1.858	1.651	0	-11.1	50
Vinyl chloride	0.220	0.238	0	8.329	20
o-Xylene	1.155	1.073	0	-7.11	50
1,2-Dibromo-3-chloropropane	0.186	0.169	0	-8.93	50
1,2-Dibromoethane	0.555	0.511	0	-7.97	50
Vinyl acetate	0.186	0.198	0	5.971	50
tert-Butyl methyl ether (MTBE)	0.472	0.493	0	4.491	50
1,2-Dichloroethene	0.320	0.327	0	2.950	50
4-Isopropyltoluene	2.245	2.050	0	-8.68	50
Xylene (total)	1.173	1.101	0	-7.59	50
Methylcyclohexane	0.492	0.464	0	-5.66	50
n-Hexane	0.293	0.311	0	5.847	50
trans-1,4-Dichloro-2-butene	0.230	0.218	0	-5.18	50
Cyclohexane	0.516	0.482	0	-6.62	50
2,2-Dichloropropane	0.318	0.304	0	-4.47	50
Methyl Acetate	0.125	0.146	0	13.9	50
Trichlorotrifluoroethane	0.200	0.208	0	4.020	50
1,1-Dichloropropene	0.325	0.308	0	-5.27	50
2-Chloroethylvinyl ether	0.197	0.173	0	-1.88	50
1,3-Dichloropropane	1.060	1.001	0	-5.56	50
Bromobenzene	2.054	1.908	0	-7.12	50
2-Chlorotoluene	2.363	1.524	0	-35.5	50
4-Chlorotoluene	2.761	2.551	0	-7.62	50
tert-Butylbenzene	1.772	1.596	0	-9.94	50
sec-Butylbenzene	3.703	3.355	0	-9.40	50
1,3-Dichlorobenzene	1.471	1.389	0	-5.57	50
1,4-Dichlorobenzene	1.550	1.489	0	-3.94	50
n-Butylbenzene	2.118	1.886	0	-10.9	50
1,2-Dichlorobenzene	1.405	1.326	0	-5.63	50
Hexachlorobutadiene	0.543	0.526	0	-3.19	50
Naphthalene	1.518	1.567	0	3.214	50
1,2,3-Trichlorobenzene	0.772	0.798	0	3.378	50
1,1-Dichloroethene	0.155	0.178	0	14.5	20
Benzene	1.073	1.046	0	-2.60	50
Trichloroethene	0.219	0.208	0	-5.01	50
Toluene	2.665	2.461	0	-7.65	20
Chlorobenzene	1.686	1.574	.3	-6.60	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date: 09/10/03 Time: 0922

Lab File ID: 2030910/S8274

Init. Calib. Date 1: 08/27/03 Time 1: 1102

Heated Purge: (Y/N) N

Init. Calib. Date 2: 09/01/03 Time 2: 1519

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262245

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
4-Bromofluorobenzene	0.844	0.824	0	-2.33	50
Dibromofluoromethane	0.227	0.247	0	8.686	50
Toluene-d8	2.063	2.147	0	4.068	50
1,2-Dichloroethane-d4	0.135	0.142	0	5.494	50

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date: 09/11/03 Time: 0820

Lab File ID: 2030911/S8294

Init. Calib. Date 1: 08/27/03 Time 1: 1102

Heated Purge: (Y/N) N

Init. Calib. Date 2: 09/01/03 Time 2: 1519

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262301

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.073	0.082	0	12.6	50
Acrolein	0.019	0.023	0	23.5	50
Acrylonitrile	0.063	0.074	0	17.6	50
Bromochloromethane	0.106	0.109	0	-3.89	50
Bromodichloromethane	0.366	0.322	0	-12.0	50
Bromoform	0.427	0.376	.1	-11.9	50
Bromomethane	0.082	0.086	0	4.424	50
Carbon disulfide	0.677	0.651	0	-3.75	50
Carbon tetrachloride	0.216	0.198	0	-8.56	50
Chloroethane	0.079	0.082	0	4.898	50
m,p-Xylene	1.210	1.075	0	-11.1	50
Chloroform	0.449	0.384	0	-14.4	20
Chloromethane	0.283	0.227	.1	-20.0	50
Dibromochloromethane	0.509	0.451	0	-11.4	50
Dibromomethane	0.158	0.150	0	-4.84	50
Dichlorodifluoromethane	0.234	0.122	0	-47.6	50
1,1-Dichloroethane	0.367	0.355	.1	-3.21	50
1,2-Dichloroethane	0.309	0.300	0	-2.88	50
cis-1,2-Dichloroethene	0.391	0.374	0	-4.13	50
trans-1,2-Dichloroethene	0.250	0.257	0	2.868	50
Methylene chloride	0.231	0.280	0	14.6	50
1,2-Dichloropropane	0.298	0.289	0	-3.17	20
cis-1,3-Dichloropropene	0.447	0.421	0	-5.97	50
trans-1,3-Dichloropropene	0.937	0.842	0	-10.1	50
Ethylbenzene	0.916	0.794	0	-13.3	20
2-Hexanone	0.508	0.482	0	-5.13	50
Isopropylbenzene (Cumene)	3.001	2.670	0	-11.0	50
2-Butanone	0.131	0.140	0	7.002	50
Methyl iodide	0.296	0.328	0	10.9	50
4-Methyl-2-pentanone	0.264	0.262	0	-0.85	50
n-Propylbenzene	4.301	3.827	0	-11.0	50
Styrene	2.259	1.888	0	-10.4	50
Tetrachloroethene	0.538	0.450	0	-11.6	50
1,1,1,2-Tetrachloroethane	0.459	0.420	0	-8.53	50
1,1,2,2-Tetrachloroethane	0.999	0.946	.3	-5.29	50
1,2,4-Trichlorobenzene	0.789	0.796	0	0.933	50
1,1,1-Trichloroethane	0.308	0.282	0	-8.67	50
1,1,2-Trichloroethane	0.578	0.521	0	-9.97	50
Trichlorofluoromethane	0.206	0.205	0	-4.81	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date: 09/11/03 Time: 0820

Lab File ID: 2030911/S8294

Init. Calib. Date 1: 08/27/03 Time 1: 1102

Heated Purge: (Y/N) N

Init. Calib. Date 2: 09/01/03 Time 2: 1519

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262301

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.178	1.137	0	-3.44	50
1,2,4-Trimethylbenzene	1.738	1.613	0	-7.15	50
1,3,5-Trimethylbenzene	1.858	1.682	0	-9.48	50
Vinyl chloride	0.220	0.199	0	-9.45	20
o-Xylene	1.155	1.028	0	-10.9	50
1,2-Dibromo-3-chloropropane	0.186	0.176	0	-4.95	50
1,2-Dibromoethane	0.555	0.502	0	-9.59	50
Vinyl acetate	0.186	0.173	0	-7.34	50
tert-Butyl methyl ether (MTBE)	0.472	0.474	0	0.497	50
1,2-Dichloroethene	0.320	0.316	0	-0.63	50
4-Isopropyltoluene	2.245	2.059	0	-8.30	50
Xylene (total)	1.173	1.060	0	-11.0	50
Methylcyclohexane	0.492	0.428	0	-13.0	50
n-Hexane	0.293	0.282	0	-3.72	50
trans-1,4-Dichloro-2-butene	0.230	0.228	0	-0.87	50
Cyclohexane	0.516	0.450	0	-12.8	50
2,2-Dichloropropane	0.318	0.293	0	-7.83	50
Methyl Acetate	0.125	0.143	0	11.2	50
Trichlorotrifluoroethane	0.200	0.190	0	-4.84	50
1,1-Dichloropropene	0.325	0.297	0	-8.60	50
2-Chloroethylvinyl ether	0.197	0.170	0	-3.42	50
1,3-Dichloropropane	1.060	0.964	0	-9.08	50
Bromobenzene	2.054	1.937	0	-5.73	50
2-Chlorotoluene	2.363	1.596	0	-32.4	50
4-Chlorotoluene	2.761	2.539	0	-8.06	50
tert-Butylbenzene	1.772	1.589	0	-10.3	50
sec-Butylbenzene	3.703	3.316	0	-10.4	50
1,3-Dichlorobenzene	1.471	1.382	0	-6.06	50
1,4-Dichlorobenzene	1.550	1.441	0	-7.02	50
n-Butylbenzene	2.118	1.942	0	-8.29	50
1,2-Dichlorobenzene	1.405	1.281	0	-8.80	50
Hexachlorobutadiene	0.543	0.508	0	-6.51	50
Naphthalene	1.518	1.533	0	0.965	50
1,2,3-Trichlorobenzene	0.772	0.779	0	0.841	50
1,1-Dichloroethene	0.155	0.166	0	6.592	20
Benzene	1.073	1.00	0	-6.85	50
Trichloroethene	0.219	0.205	0	-6.23	50
Toluene	2.665	2.395	0	-10.1	20
Chlorobenzene	1.686	1.530	.3	-9.23	50

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV2

Calibration Date: 09/11/03 Time: 0820

Lab File ID: 2030911/S8294

Init. Calib. Date 1: 08/27/03 Time 1: 1102

Heated Purge: (Y/N) N

Init. Calib. Date 2: 09/01/03 Time 2: 1519

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262301

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
4-Bromofluorobenzene	0.844	0.847	0	0.366	50
Dibromofluoromethane	0.227	0.244	0	7.140	50
Toluene-d8	2.063	2.164	0	4.919	50
1,2-Dichloroethane-d4	0.135	0.138	0	2.121	50

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV4

Calibration Date 1: 09/06/03 Time 1: 0835

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/06/03 Time 2: 1057

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 262295

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.306	0.220	0.194	0.186	0.180					0.177	1.000		50	Linear
Acrolein	0.034	0.036	0.034	0.033	0.033					0.034	3.653		50	Averaged
Acrylonitrile	0.140	0.140	0.135	0.131	0.128					0.135	4.154		50	Averaged
Bromochloromethane	0.122	0.131	0.134	0.131	0.133					0.130	3.549		50	Averaged
Bromodichloromethane	0.339	0.361	0.373	0.361	0.362					0.359	3.476		50	Averaged
Bromoform	0.398	0.425	0.471	0.456	0.458					0.441	6.688		50	Averaged
Bromomethane	0.138	0.113	0.103	0.080	0.052					0.097	33.78		50	Averaged
Carbon disulfide	0.731	0.768	0.777	0.731	0.749					0.751	2.790		50	Averaged
Carbon tetrachloride	0.261	0.277	0.286	0.283	0.297					0.281	4.783		50	Averaged
Chloroethane	0.126	0.147	0.138	0.122	0.050					0.117	33.04		50	Averaged
m,p-Xylene	1.247	1.254	1.339	1.275	1.267					1.276	2.869		50	Averaged
Chloroform	0.442	0.421	0.419	0.405	0.408	0.542				0.439	11.79		30	Averaged
Chloromethane	0.333	0.320	0.346	0.333	0.275					0.321	8.576		50	Averaged
Dibromochloromethane	0.632	0.667	0.723	0.714	0.745					0.696	6.608		50	Averaged
Dibromomethane	0.166	0.174	0.176	0.168	0.169					0.171	2.386		50	Averaged
Dichlorodifluoromethane	0.211	0.221	0.224	0.218	0.225					0.220	2.588		50	Averaged
1,1-Dichloroethane	0.464	0.462	0.467	0.451	0.449					0.459	1.738		50	Averaged
1,2-Dichloroethane	0.342	0.337	0.349	0.335	0.329	0.325				0.336	2.607		50	Averaged
cis-1,2-Dichloroethene	0.402	0.413	0.426	0.417	0.418					0.415	2.160		50	Averaged
trans-1,2-Dichloroethene	0.294	0.311	0.318	0.305	0.307					0.307	2.852		50	Averaged
Methylene chloride	0.511	0.405	0.377	0.355	0.340					0.334	1.000		50	Linear
1,2-Dichloropropane	0.304	0.309	0.316	0.302	0.305	0.291				0.305	2.724		30	Averaged
cis-1,3-Dichloropropene	0.408	0.427	0.449	0.433	0.442					0.432	3.615		50	Averaged
trans-1,3-Dichloropropene	0.851	0.925	1.039	0.971	1.024					0.962	7.971		50	Averaged
Ethylbenzene	0.955	0.951	1.045	1.035	1.016					1.000	4.455		30	Averaged
2-Hexanone	1.138	1.095	1.110	1.102	1.073					1.104	2.148		50	Averaged
Isopropylbenzene (Cumene)	3.183	3.215	3.426	3.248	3.248					3.264	2.898		50	Averaged
2-Butanone	0.344	0.290	0.269	0.259	0.257					0.284	12.66		50	Averaged
Methyl iodide	0.065	0.139	0.187	0.212	0.171					0.155	36.54		50	Averaged
4-Methyl-2-pentanone	0.559	0.525	0.522	0.504	0.495					0.521	4.745		50	Averaged
n-Propylbenzene	6.001	5.643	5.724	5.400	5.156					5.585	5.765		50	Averaged
Styrene	2.026	2.128	2.332	2.271	2.268					2.205	5.661		50	Averaged
Tetrachloroethene	0.407	0.411	0.434	0.421	0.445					0.424	3.750		50	Averaged
1,1,1,2-Tetrachloroethane	0.557	0.569	0.620	0.606	0.632	0.538				0.587	6.435		50	Averaged
1,1,2,2-Tetrachloroethane	1.665	1.505	1.504	1.385	1.370					1.486	7.978		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV4

Calibration Date 1: 09/06/03 Time 1: 0835

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/06/03 Time 2: 1057

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 262295

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,2,4-Trichlorobenzene	0.215	0.541	0.812	0.897	0.993					1.025	0.998		50	Linear
1,1,1-Trichloroethane	0.341	0.359	0.364	0.352	0.356					0.354	2.411		50	Averaged
1,1,2-Trichloroethane	0.664	0.653	0.692	0.666	0.691					0.673	2.586		50	Averaged
Trichlorofluoromethane	0.282	0.299	0.304	0.296	0.294					0.295	2.775		50	Averaged
1,2,3-Trichloropropane	1.646	1.632	1.683	1.629	1.538					1.626	3.281		50	Averaged
1,2,4-Trimethylbenzene	4.115	3.851	3.810	3.560	3.576					3.782	6.038		50	Averaged
1,3,5-Trimethylbenzene	4.257	3.914	3.821	3.609	3.531					3.826	7.478		50	Averaged
Vinyl chloride	0.261	0.277	0.277	0.268	0.277	0.244				0.267	4.872		30	Averaged
o-Xylene	1.226	1.236	1.316	1.265	1.269					1.262	2.787		50	Averaged
1,2-Dibromo-3-chloropropane	0.201	0.235	0.240	0.231	0.250					0.231	7.970		50	Averaged
1,2-Dibromoethane	0.626	0.654	0.726	0.697	0.702					0.681	5.928		50	Averaged
Vinyl acetate	0.328	0.262	0.252	0.248	0.248					0.267	12.78		50	Averaged
tert-Butyl methyl ether (MTBE)	0.728	0.746	0.769	0.732	0.745					0.744	2.172		50	Averaged
1,2-Dichloroethene	0.348	0.362	0.372	0.361	0.362					0.361	2.394		50	Averaged
4-Isopropyltoluene	4.012	3.887	3.898	3.718	3.838					3.871	2.750		50	Averaged
Xylene (total)	1.240	1.248	1.331	1.272	1.267					1.271	2.817		50	Averaged
Methylcyclohexane	0.437	0.449	0.460	0.452	0.464					0.452	2.288		50	Averaged
n-Hexane	0.424	0.396	0.367	0.382	0.394					0.393	5.305		50	Averaged
Cyclohexane	0.510	0.520	0.515	0.478	0.453					0.495	5.796		50	Averaged
2,2-Dichloropropane	0.289	0.307	0.320	0.317	0.321					0.311	4.303		50	Averaged
Methyl Acetate	0.810	0.370	0.350	0.312	0.311					0.300	0.999		50	Linear
Trichlorotrifluoroethane	0.218	0.219	0.220	0.219	0.210					0.217	1.818		50	Averaged
1,1-Dichloropropene	0.304	0.321	0.325	0.312	0.317					0.316	2.527		50	Averaged
2-Chloroethylvinyl ether	0.060	0.067	0.085	0.100	0.065					0.076	22.11		50	Averaged
1,3-Dichloropropane	1.094	1.122	1.208	1.151	1.163					1.147	3.774		50	Averaged
Bromobenzene	2.712	2.464	2.548	2.420	2.252					2.479	6.822		50	Averaged
2-Chlorotoluene	3.727	3.572	3.497	3.237	3.146					3.436	6.994		50	Averaged
4-Chlorotoluene	3.485	3.322	3.213	3.096	3.079					3.239	5.220		50	Averaged
tert-Butylbenzene	2.714	2.516	2.462	2.311	2.338					2.468	6.553		50	Averaged
sec-Butylbenzene	5.700	5.233	5.096	4.812	4.773					5.123	7.339		50	Averaged
1,3-Dichlorobenzene	1.552	1.533	1.578	1.597	1.602	1.558				1.570	1.716		50	Averaged
1,4-Dichlorobenzene	1.777	1.872	1.750	1.598	1.759					1.751	5.627		50	Averaged
n-Butylbenzene	3.136	3.464	3.668	3.543	3.588					3.480	5.917		50	Averaged
1,2-Dichlorobenzene	1.612	1.639	1.664	1.580	1.607					1.620	1.978		50	Averaged
Hexachlorobutadiene	0.453	0.482	0.499	0.489	0.539					0.492	6.361		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV4

Calibration Date 1: 09/06/03 Time 1: 0835

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 09/06/03 Time 2: 1057

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 262295

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$	RSD	#	LIMIT	TYPE
Naphthalene	0.896	1.117	1.779	2.152	2.613					2.721	0.992		50	Linear
1,2,3-Trichlorobenzene	0.187	0.522	0.779	0.855	0.945					0.658	46.63		50	Averaged
1,4-Dichloro-2-butene	0.147	0.275	0.344	0.354	0.344					0.351	0.999			Linear
1,1-Dichloroethene	0.182	0.192	0.195	0.192	0.182					0.189	3.112		30	Averaged
Benzene	0.977	1.027	1.013	0.971	0.953					0.988	3.089		50	Averaged
Trichloroethene	0.250	0.255	0.268	0.262	0.275					0.262	3.911		50	Averaged
Toluene	2.943	2.762	2.963	2.810	2.819					2.859	3.091		30	Averaged
Chlorobenzene	1.797	1.853	2.009	1.932	2.003					1.919	4.845		50	Averaged
4-Bromofluorobenzene	0.587	0.608	0.649	0.623	0.617					0.617	3.632		50	Averaged
Dibromofluoromethane	0.249	0.258	0.261	0.250	0.251					0.254	2.079		50	Averaged
Toluene-d8	2.312	2.138	2.306	2.209	2.248					2.243	3.228		50	Averaged
1,2-Dichloroethane-d4	0.141	0.143	0.147	0.141	0.139					0.142	2.187		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV4

Calibration Date: 09/11/03 Time: 0846

Lab File ID: 2030911/S6273

Init. Calib. Date 1: 09/06/03 Time 1: 0835

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 09/06/03 Time 2: 1057

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262300

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.177	0.131	0	-34.7	50
Acrolein	0.034	0.026	0	-24.6	50
Acrylonitrile	0.135	0.100	0	-25.7	50
Bromochloromethane	0.130	0.117	0	-10.3	50
Bromodichloromethane	0.359	0.330	0	-8.03	50
Bromoform	0.441	0.375	.1	-15.1	50
Bromomethane	0.097	0.091	0	-6.45	50
Carbon disulfide	0.751	0.690	0	-8.14	50
Carbon tetrachloride	0.281	0.255	0	-9.08	50
Chloroethane	0.117	0.138	0	18.0	50
m,p-Xylene	1.276	1.254	0	-1.74	50
Chloroform	0.439	0.386	0	-12.2	20
Chloromethane	0.321	0.269	.1	-16.3	50
Dibromochloromethane	0.696	0.609	0	-12.4	50
Dibromomethane	0.171	0.144	0	-15.7	50
Dichlorodifluoromethane	0.220	0.113	0	-48.8	50
1,1-Dichloroethane	0.459	0.441	.1	-3.96	50
1,2-Dichloroethane	0.336	0.300	0	-10.7	50
cis-1,2-Dichloroethene	0.415	0.399	0	-3.96	50
trans-1,2-Dichloroethene	0.307	0.287	0	-6.42	50
Methylene chloride	0.334	0.373	0	2.565	50
1,2-Dichloropropane	0.305	0.284	0	-6.63	20
cis-1,3-Dichloropropene	0.432	0.400	0	-7.51	50
trans-1,3-Dichloropropene	0.962	0.909	0	-5.51	50
Ethylbenzene	1.000	0.964	0	-3.63	20
2-Hexanone	1.104	0.749	0	-32.1	50
Isopropylbenzene (Cumene)	3.264	3.201	0	-1.93	50
2-Butanone	0.284	0.185	0	-34.9	50
Methyl iodide	0.155	0.139	0	-9.93	50
4-Methyl-2-pentanone	0.521	0.363	0	-30.4	50
n-Propylbenzene	5.585	5.433	0	-2.71	50
Styrene	2.205	2.132	0	-3.33	50
Tetrachloroethene	0.424	0.396	0	-6.60	50
1,1,1,2-Tetrachloroethane	0.587	0.559	0	-4.79	50
1,1,2,2-Tetrachloroethane	1.486	1.176	.3	-20.8	50
1,2,4-Trichlorobenzene	1.025	0.733	0	-11.4	50
1,1,1-Trichloroethane	0.354	0.331	0	-6.67	50
1,1,2-Trichloroethane	0.673	0.582	0	-13.6	50
Trichlorofluoromethane	0.295	0.257	0	-12.9	50

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV4

Calibration Date: 09/11/03 Time: 0846

Lab File ID: 2030911/S6273

Init. Calib. Date 1: 09/06/03 Time 1: 0835

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 09/06/03 Time 2: 1057

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262300

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.626	1.307	0	-19.5	50
1,2,4-Trimethylbenzene	3.782	3.628	0	-4.07	50
1,3,5-Trimethylbenzene	3.826	3.682	0	-3.76	50
Vinyl chloride	0.267	0.218	0	-18.5	20
o-Xylene	1.262	1.224	0	-3.01	50
1,2-Dibromo-3-chloropropane	0.231	0.171	0	-25.9	50
1,2-Dibromoethane	0.681	0.581	0	-14.6	50
Vinyl acetate	0.267	0.245	0	-8.42	50
tert-Butyl methyl ether (MTBE)	0.744	0.649	0	-12.7	50
1,2-Dichloroethene	0.361	0.343	0	-5.00	50
4-Isopropyltoluene	3.871	3.717	0	-3.97	50
Xylene (total)	1.271	1.244	0	-2.16	50
Methylcyclohexane	0.452	0.402	0	-11.0	50
n-Hexane	0.393	0.356	0	-9.42	50
Cyclohexane	0.495	0.450	0	-9.11	50
2,2-Dichloropropane	0.311	0.297	0	-4.35	50
Methyl Acetate	0.300	0.278	0	-20.4	50
Trichlorotrifluoroethane	0.217	0.193	0	-11.3	50
1,1-Dichloropropene	0.316	0.293	0	-7.13	50
2-Chloroethylvinyl ether	0.076	0.078	0	2.930	50
1,3-Dichloropropane	1.147	1.001	0	-12.7	50
Bromobenzene	2.479	2.248	0	-9.32	50
2-Chlorotoluene	3.436	3.363	0	-2.10	50
4-Chlorotoluene	3.239	3.107	0	-4.07	50
tert-Butylbenzene	2.468	2.374	0	-3.83	50
sec-Butylbenzene	5.123	4.909	0	-4.16	50
1,3-Dichlorobenzene	1.570	1.467	0	-6.58	50
1,4-Dichlorobenzene	1.751	1.644	0	-6.11	50
n-Butylbenzene	3.480	3.515	0	1.024	50
1,2-Dichlorobenzene	1.620	1.536	0	-5.22	50
Hexachlorobutadiene	0.492	0.492	0	-0.13	50
Naphthalene	2.721	1.349	0	-25.9	50
1,2,3-Trichlorobenzene	0.658	0.688	0	4.690	50
1,4-Dichloro-2-butene	0.351	0.151		-52.5	
1,1-Dichloroethene	0.189	0.172	0	-8.93	20
Benzene	0.988	0.953	0	-3.53	50
Trichloroethene	0.262	0.233	0	-10.9	50
Toluene	2.859	2.774	0	-2.98	20
Chlorobenzene	1.919	1.814	.3	-5.50	50

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Instrument ID: MSV4

Calibration Date: 09/11/03 Time: 0846

Lab File ID: 2030911/S6273

Init. Calib. Date 1: 09/06/03 Time 1: 0835

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 09/06/03 Time 2: 1057

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 262300

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
4-Bromofluorobenzene	0.617	0.579	0	-6.07	50
Dibromofluoromethane	0.254	0.248	0	-2.37	50
Toluene-d8	2.243	2.320	0	3.427	50
1,2-Dichloroethane-d4	0.142	0.133	0	-6.46	50

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID (Standard): 2030911/S6115

Date Analyzed: 09/11/03

Instrument ID: MSV0

Time: 0921

GC Column: DB-624-30M ID: .53 (mm)

Heated Purge: (Y/N) Y

Analytical Batch: 262311

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	454765	8.743	922879	6.512	426841	10.31
UPPER LIMIT	909530	9.243	1845758	7.012	853682	10.81
LOWER LIMIT	227382.5	8.243	461439.5	6.012	213420.5	9.819

EPA Sample			#		#		#		#		#		#
1.	LCS118484	459062		8.74		952695		6.51		418828		10.32	
2.	LCSD118485	463273		8.74		924901		6.51		420642		10.32	
3.	MB118486	447329		8.74		918913		6.51		409559		10.32	
4.	86JT04S030908	523653		8.75		1091496		6.52		469010		10.33	

IS 1 ID : Chlorobenzene-d5
IS 2 ID : Fluorobenzene
IS 3 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RTLOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Value outside of QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID (Standard): 2030910/S8274

Date Analyzed: 09/10/03

Instrument ID: MSV2

Time: 0922

GC Column: DB-624-30M ID: .53 (mm)

Heated Purge: (Y/N) N

Analytical Batch: 262245

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	504414	8.429	1163822	5.925	446965	10.24
UPPER LIMIT	1008828	8.929	2327644	6.425	893930	10.74
LOWER LIMIT	252207	7.929	581911	5.425	223482.5	9.747

EPA Sample		#		#		#		#		#		#
1. LCS118232	498985		8.43		1176239		5.93		419936		10.25	
2. MB118233	480214		8.43		1153591		5.92		394793		10.24	
3. 86PREBW030908	463603		8.44		1104590		5.93		358331		10.25	
4. 86PTEBW030909	469658		8.44		1118204		5.93		385513		10.25	
5. 86PTEBW030909	469658		8.44		1118204		5.93		385513		10.25	
6. 86JTB03S030908	457612		8.44		1103563		5.94		394614		10.24	

IS 1 ID : Chlorobenzene-d5
IS 2 ID : Fluorobenzene
IS 3 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RTLOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Value outside of QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID (Standard): 2030911/S8294

Date Analyzed: 09/11/03

Instrument ID: MSV2

Time: 0820

GC Column: DB-624-30M ID: .53 (mm)

Heated Purge: (Y/N) N

Analytical Batch: 262301

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	507372	8.431	1164474	5.927	429774	10.25
UPPER LIMIT	1014744	8.931	2328948	6.427	859548	10.75
LOWER LIMIT	253686	7.931	582237	5.427	214887	9.75

EPA Sample		#		#		#		#		#		#
1. LCS118440	520974		8.43		1202644		5.93		373697		10.24	
2. LCSD118441	514111		8.43		1182035		5.93		422296		10.24	
3. MB118442	477502		8.43		1135922		5.93		415902		10.25	
4. 86JT12S030909	455810		8.44		1039048		5.93		450015		10.25	

IS 1 ID : Chlorobenzene-d5

IS 2 ID : Fluorobenzene

IS 3 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RTLOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203091008

Lab File ID (Standard): 2030911/S6273

Date Analyzed: 09/11/03

Instrument ID: MSV4

Time: 0846

GC Column: DB-624-30M ID: .53 (mm)

Heated Purge: (Y/N) Y

Analytical Batch: 262300

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	507951	8.577	1328324	6.367	366244	10.18
UPPER LIMIT	1015902	9.077	2656648	6.867	732488	10.68
LOWER LIMIT	253975.5	8.077	664162	5.867	183122	9.68

EPA Sample			#		#		#		#		#		#
1.	LCS118435	487378		8.58		1237948		6.37		312689		10.18	
2.	MB118436	468905		8.58		1231886		6.37		233687		10.2	
3.	86JT03S030908	472438		8.58		1270161		6.37		208343		10.19	
4.	86JT03S030908MS	542201		8.58		1400543		6.37		365337		10.18	
5.	86JT03S030908MSD	550442		8.58		1423329		6.38		329107		10.19	
6.	86JT05S030909	514565		8.58		1413711		6.38		234559		10.19	
7.	86JT06S030909	512588		8.58		1385173		6.38		242223		10.19	
8.	86DUPS030908	598965		8.58		1535598		6.38		316748		10.18	

IS 1 ID : Chlorobenzene-d5

IS 2 ID : Fluorobenzene

IS 3 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RTLOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Value outside of QC limits

Data File: /var/chem/msv4.i/2030911.s.b/s6279.d
Report Date: 11-Sep-2003 14:06

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030911.s.b/s6279.d
Lab Smp Id: 20309100801 Client Smp ID: 86JT03S030908
Inj Date : 11-SEP-2003 11:28
Operator : HJL Inst ID: msv4.i
Smp Info : 20309100801*86JT03S030908
Misc Info : MSV~3676~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 14:05 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57 Cal File: s6170.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	4.85000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
10 Acetone	43	3.967	3.964	(0.623)	40184	4.38957	4.53	5185
17 Hexane	57	4.746	4.751	(0.745)	5167	0.51795	0.534	3245(a)
25 Dibromofluoromethane	111	5.870	5.873	(0.922)	320998	49.7652	51.3	972
30 1,2-Dichloroethane-d4	67	6.158	6.161	(0.967)	173582	48.0319	49.5	9530
33 FLUOROBENZENE	96	6.369	6.367	(1.000)	1270161	50.0000		9629
41 Toluene-d8	98	7.511	7.513	(0.876)	1117912	52.7559	54.4	8606
50 Chlorobenzene-d5	82	8.578	8.577	(1.000)	472438	50.0000		8706
59 Bromofluorobenzene	174	9.393	9.389	(1.095)	234664	40.2564	41.5	8395
73 1,4-DICHLOROBENZENE-D4	152	10.190	10.180	(1.000)	208343	50.0000		9590

C Flag Legend

- Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

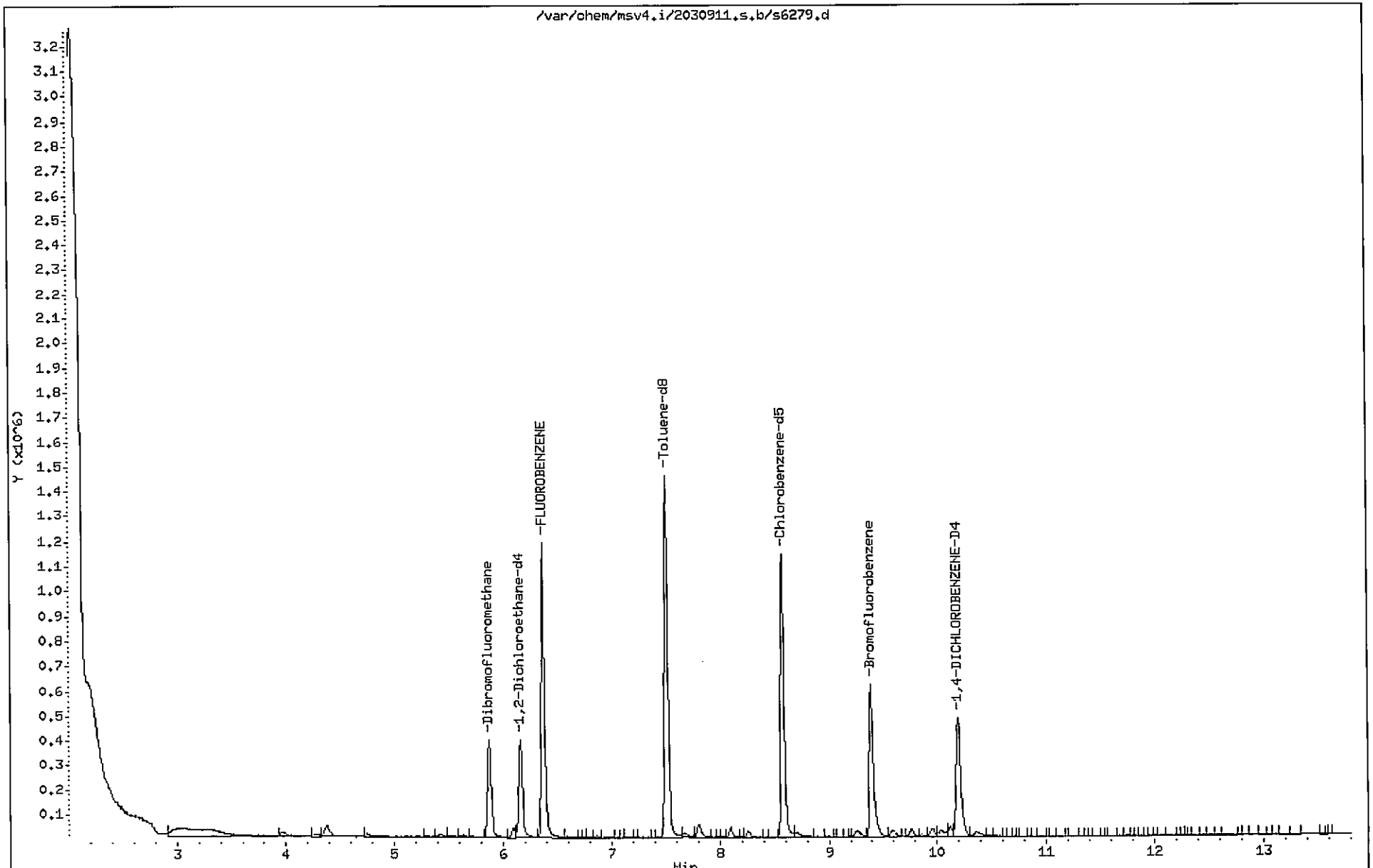
000071

Data File: /var/chem/msv4.i/2030911.s.b/s6279.d
Date : 11-SEP-2003 11:28
Client ID: 86JT03S030908
Sample Info: 20309100801M86JT03S030908

Instrument: msv4.i

Operator: HJL
Column diameter: 0.53

Column phase: DB-624-30M



Data File: /var/chem/msv4.i/2030911.s.b/s6279.d

Date : 11-SEP-2003 11:28

Client ID: 86JT03S030908

Instrument: msv4.i

Sample Info: 20309100801*86JT03S030908

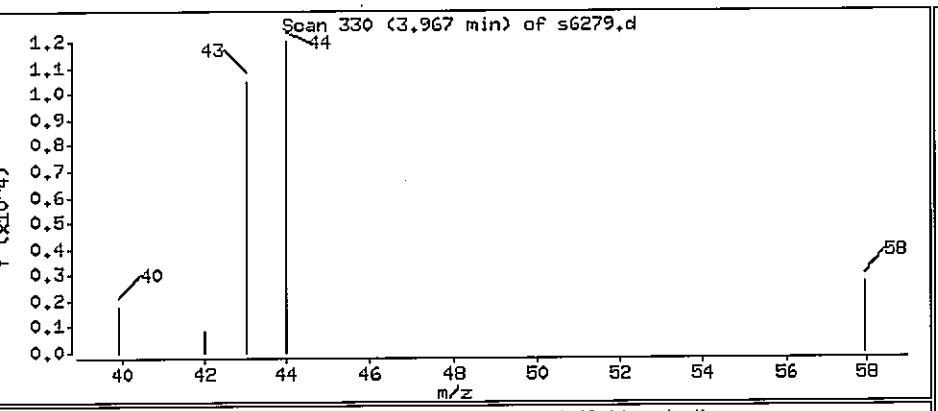
Operator: HJL

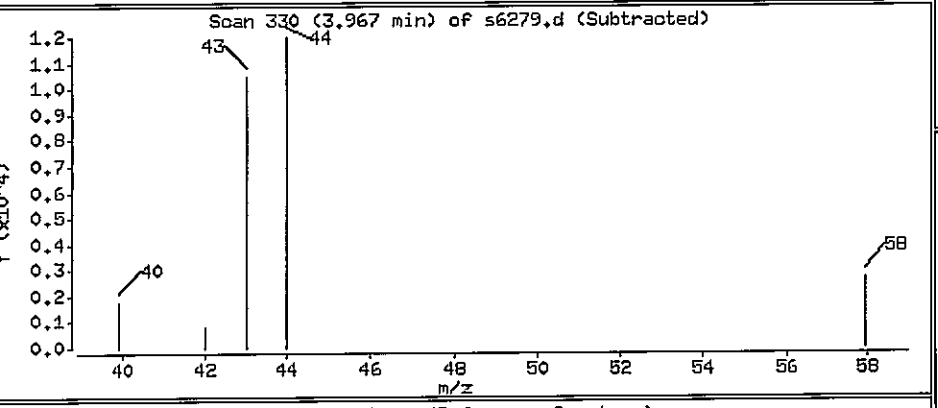
Column phase: DB-624-30M

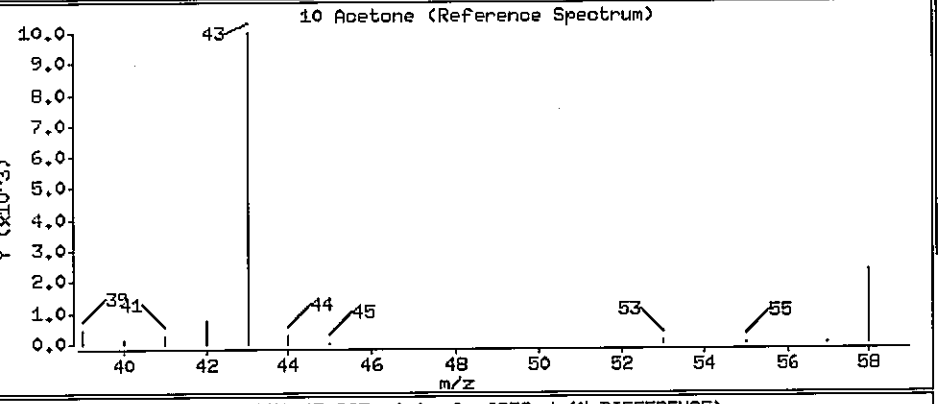
Column diameter: 0.53

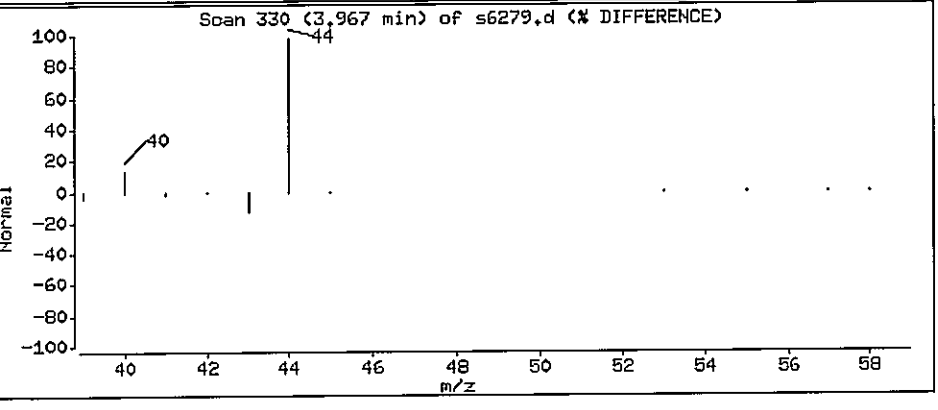
10 Acetone

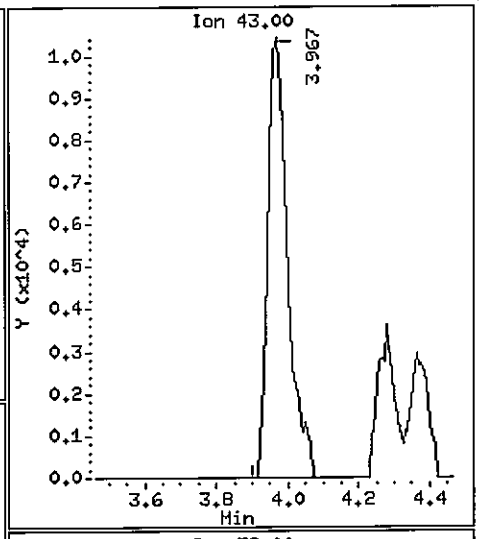
Concentration: 4.53 ug/Kg

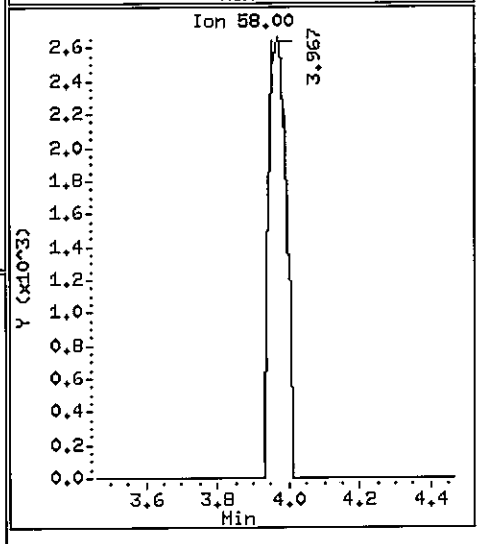












Data File: /var/chem/msv4.i/2030911.s.b/s6279.d

Date : 11-SEP-2003 11:28

Client ID: 86JT03S030908

Instrument: msv4.i

Sample Info: 20309100B01*86JT03S030908

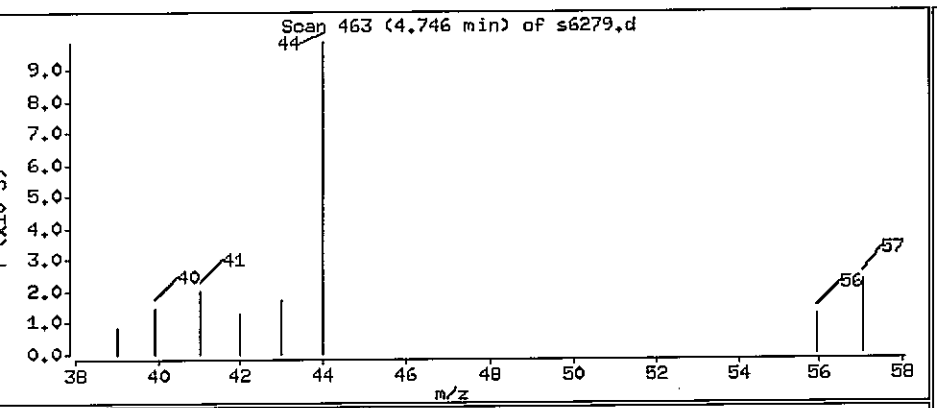
Operator: HJL

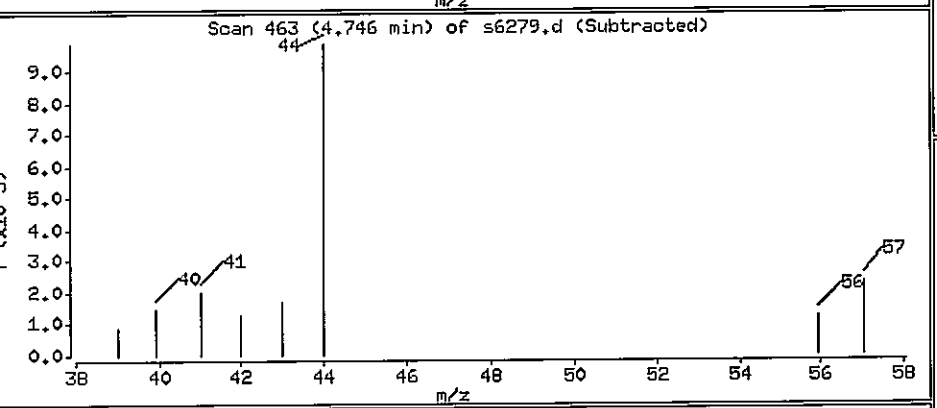
Column phase: DB-624-30M

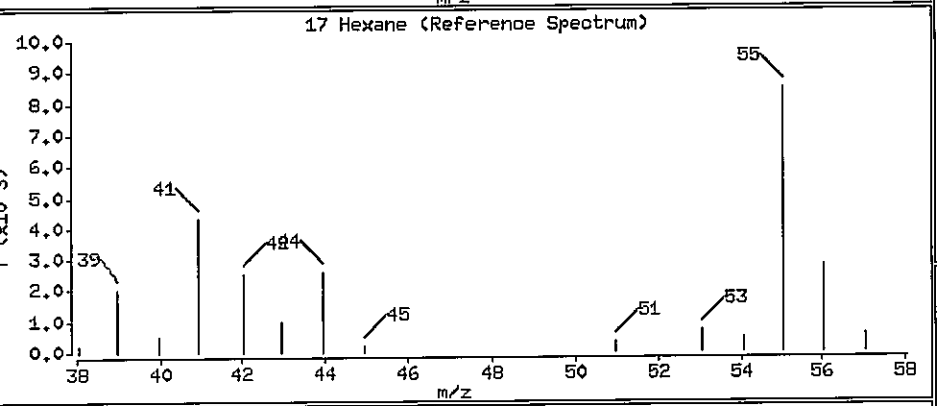
Column diameter: 0.53

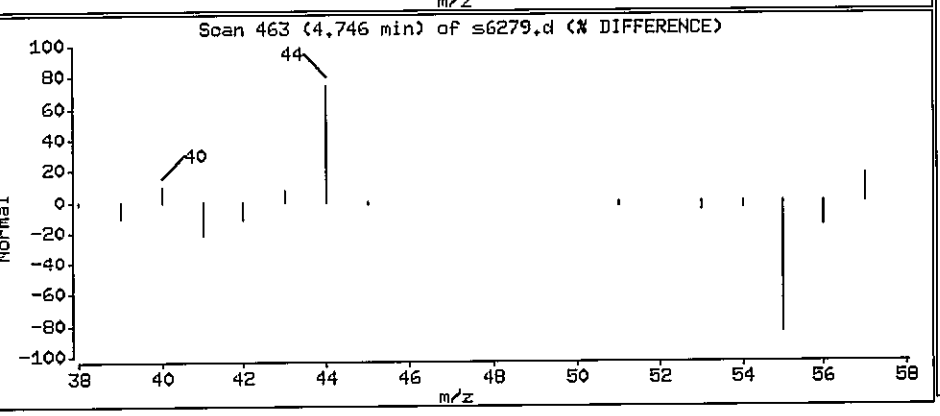
17 Hexane

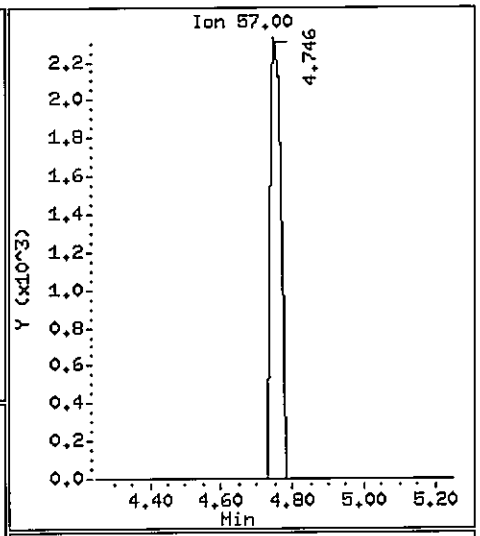
Concentration: 0.534 ug/Kg

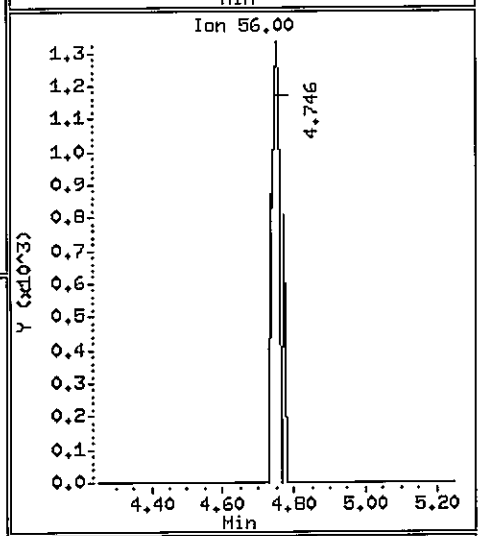


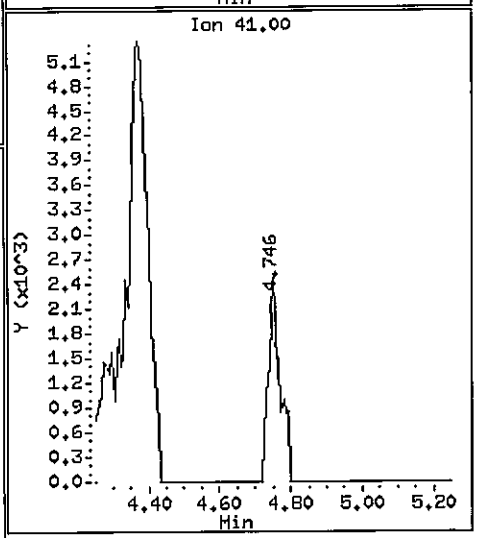












Data File: /var/chem/msv0.i/2030911.s.b/s6125.d
Report Date: 11-Sep-2003 14:27

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030911.s.b/s6125.d
Lab Smp Id: 20309100804 Client Smp ID: 86JT04S030908
Inj Date : 11-SEP-2003 15:14
Operator : RSP Inst ID: msv0.i
Smp Info : 20309100804*86JT04S030908
Misc Info : MSV~3678~*1*HJL
Comment :
Method : /var/chem/msv0.i/2030911.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 14:24 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.62000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
25 Dibromofluoromethane	111	5.982	5.975	(0.918)	297246	54.2236	48.2	1470
30 1,2-Dichloroethane-d4	67	6.260	6.253	(0.960)	148690	52.2644	46.5	9552
33 FLUOROBENZENE	96	6.518	6.512	(1.000)	1091496	50.0000		9570
41 Toluene-d8	98	7.697	7.690	(0.880)	1146934	45.7061	40.7	8252
50 CHLOROBENZENE-d5	82	8.750	8.743	(1.000)	523653	50.0000		8245
59 Bromofluorobenzene	174	9.551	9.544	(1.092)	366929	49.5870	44.1	8922
73 1,4-DICHLOROBENZENE-D4	152	10.332	10.319	(1.000)	469010	50.0000		8957

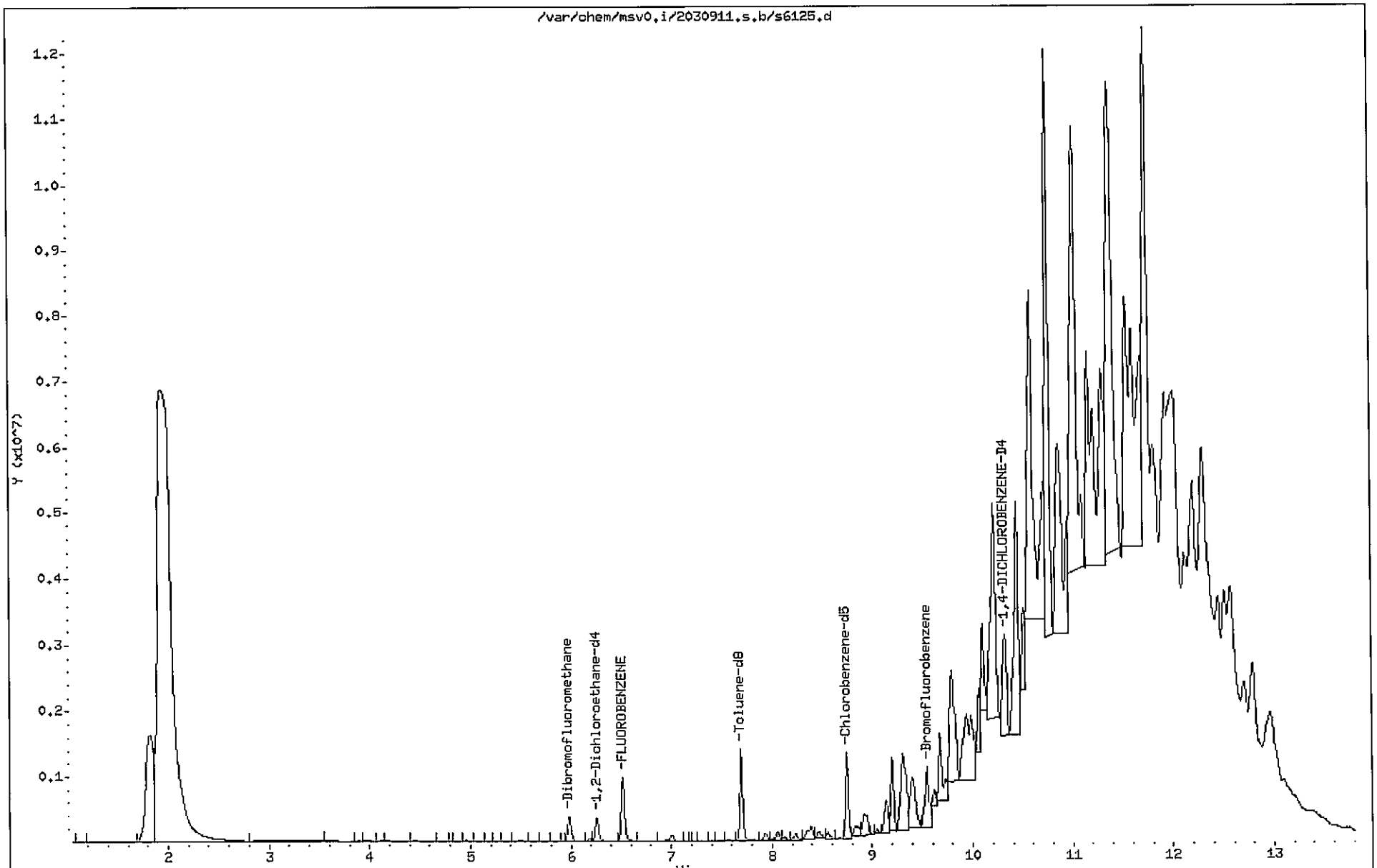
Data File: /var/chem/msv0.i/2030911.s.b/s6125.d
Date : 11-SEP-2003 15:14
Client ID: 86JT04S030908
Sample Info: 20309100804X86JT04S030908

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000075



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030911.s.b/s6285.d
Lab Smp Id: 20309100805 Client Smp ID: 86JT05S030909
Inj Date : 11-SEP-2003 14:22
Operator : RJO Inst ID: msv4.i
Smp Info : 20309100805*86JT05S030909
Misc Info : MSV~3676~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 14:05 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57 Cal File: s6170.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	4.80000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
25 Dibromofluoromethane	111	5.876	5.873	(0.922)	349181	48.6376	50.7	972
30 1,2-Dichloroethane-d4	67	6.164	6.161	(0.967)	190328	47.3180	49.3	9589
33 FLUOROBENZENE	96	6.375	6.367	(1.000)	1413711	50.0000		9636
41 Toluene-d8	98	7.517	7.513	(0.876)	1240674	53.7558	56.0	8505
50 CHLOROBENZENE-d5	82	8.584	8.577	(1.000)	514565	50.0000		8601
59 Bromofluorobenzene	174	9.399	9.389	(1.095)	267251	42.0933	43.8	8616
73 1,4-DICHLOROBENZENE-D4	152	10.190	10.180	(1.000)	234559	50.0000		9654

Data File: /var/chem/msv4.i/2030911.s.b/s6285.d
Date : 11-SEP-2003 14:22
Client ID: B6JT05S030909
Sample Info: 20309100805*B6JT05S030909

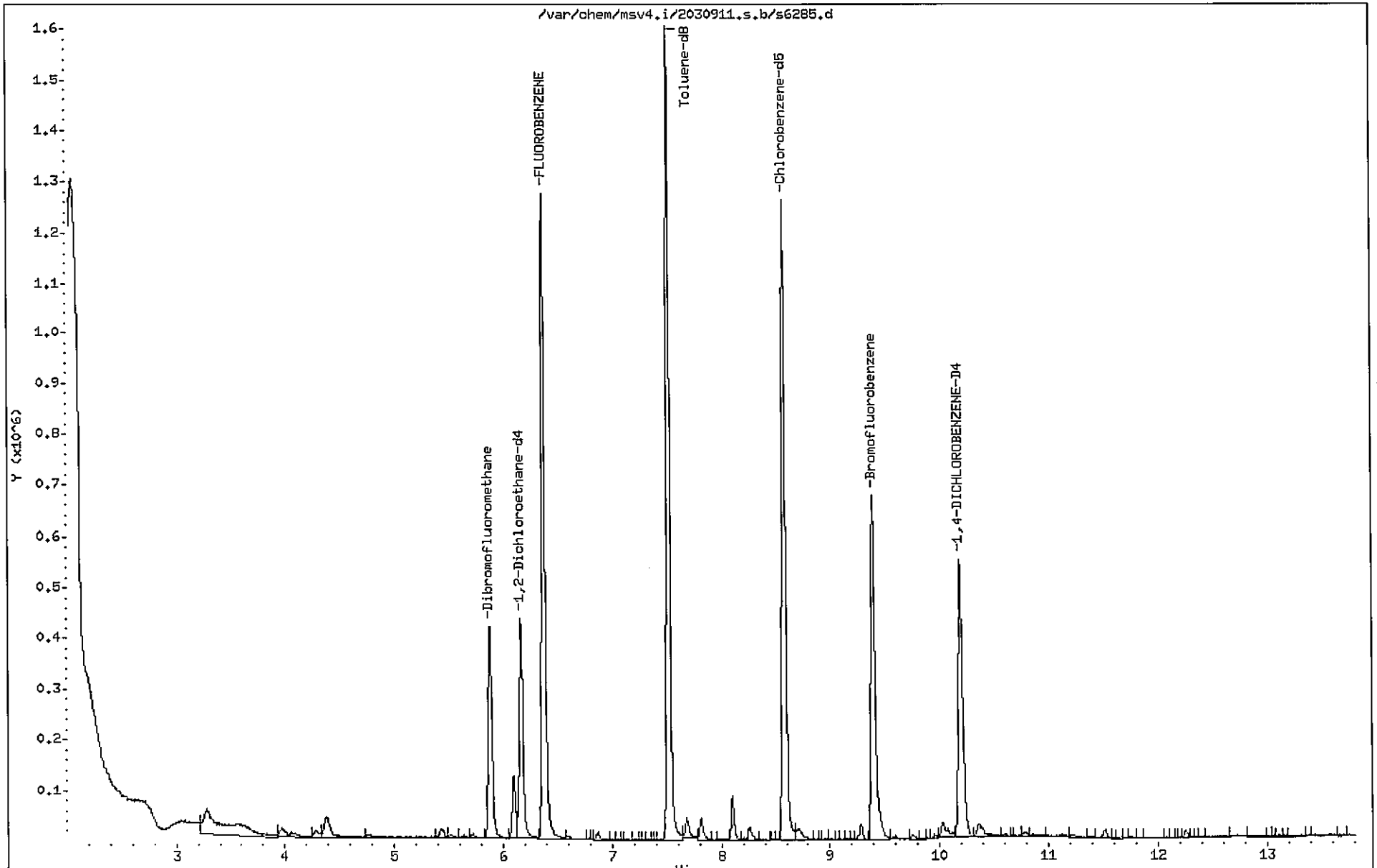
Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

Page 1

000077



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030911.s.b/s6286.d
Lab Smp Id: 20309100806 Client Smp ID: 86JT06S030909
Inj Date : 11-SEP-2003 14:51
Operator : RSP Inst ID: msv4.i
Smp Info : 20309100806*86JT06S030909
Misc Info : MSV~3676~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 14:05 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57 Cal File: s6170.d
Vials bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.35000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
25 Dibromofluoromethane	111	5.882	5.873	(0.923)	343674	48.8568	45.7	972
30 1,2-Dichloroethane-d4	67	6.164	6.161	(0.967)	184893	46.9138	43.8	9553
33 FLUOROBENZENE	96	6.375	6.367	(1.000)	1385173	50.0000		9607
41 Toluene-d8	98	7.517	7.513	(0.876)	1206492	52.4764	49.0	8519
50 CHLOROBENZENE-d5	82	8.584	8.577	(1.000)	512588	50.0000		8586
59 Bromofluorobenzene	174	9.398	9.389	(1.095)	269709	42.6442	39.9	8595
73 1,4-DICHLOROBENZENE-D4	152	10.190	10.180	(1.000)	242223	50.0000		9636

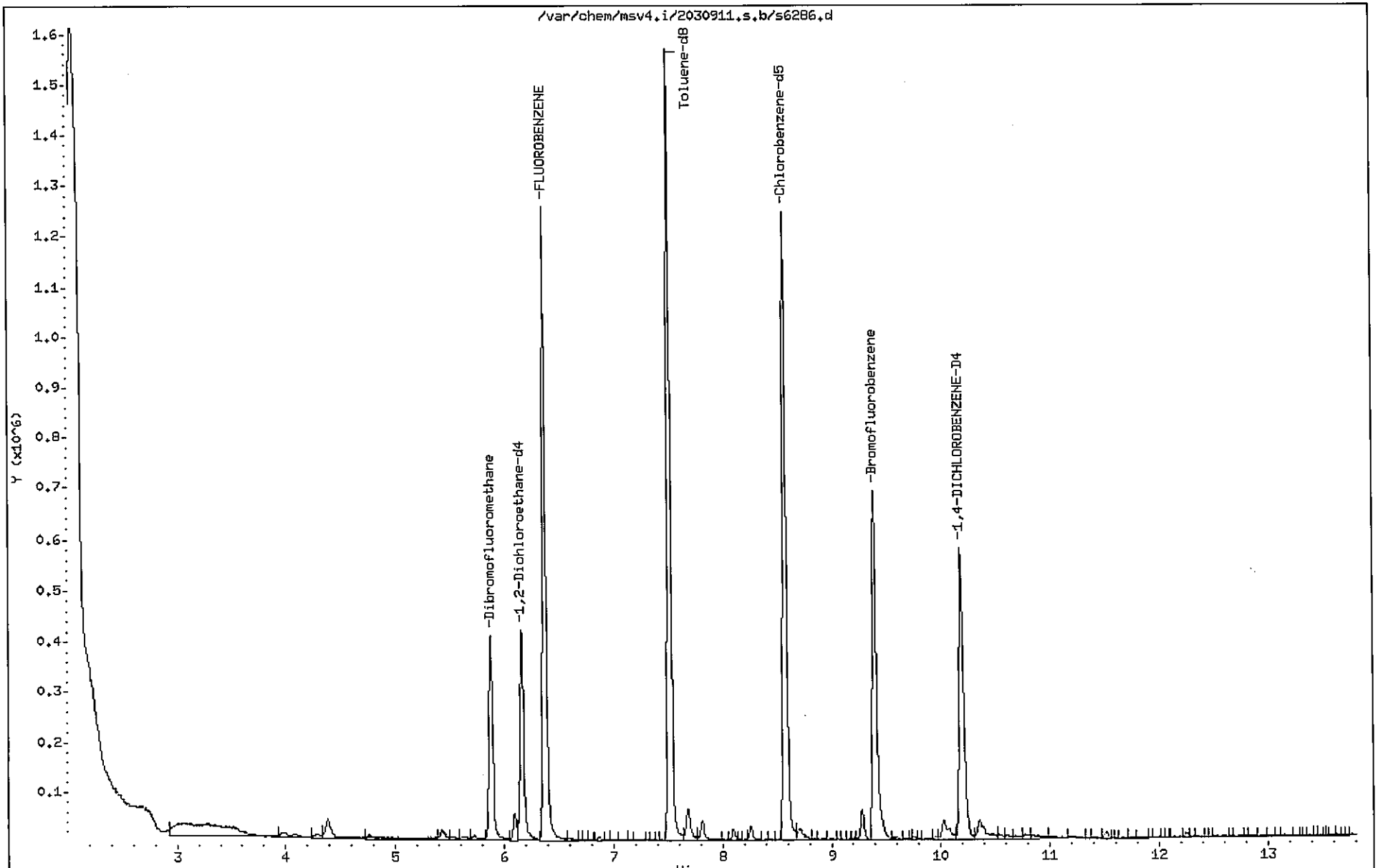
Data File: /var/chem/msv4.i/2030911.s.b/s6286.d
Date : 11-SEP-2003 14:51
Client ID: 86JT06S030909
Sample Info: 20309100806X86JT06S030909

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RSP
Column diameter: 0.53

000079



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030911.s.b/s8306.d
Lab Smp Id: 20309100807 Client Smp ID: 86JT12S030909
Inj Date : 11-SEP-2003 15:45
Operator : HJL Inst ID: msv2.i
Smp Info : 20309100807*86JT12S030909
Misc Info : MSV~3677~*50*HJL
Comment :
Method : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
Meth Date : 12-Sep-2003 05:10 krv Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 9
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: btexs+mtbe+lcs.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	6.03000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

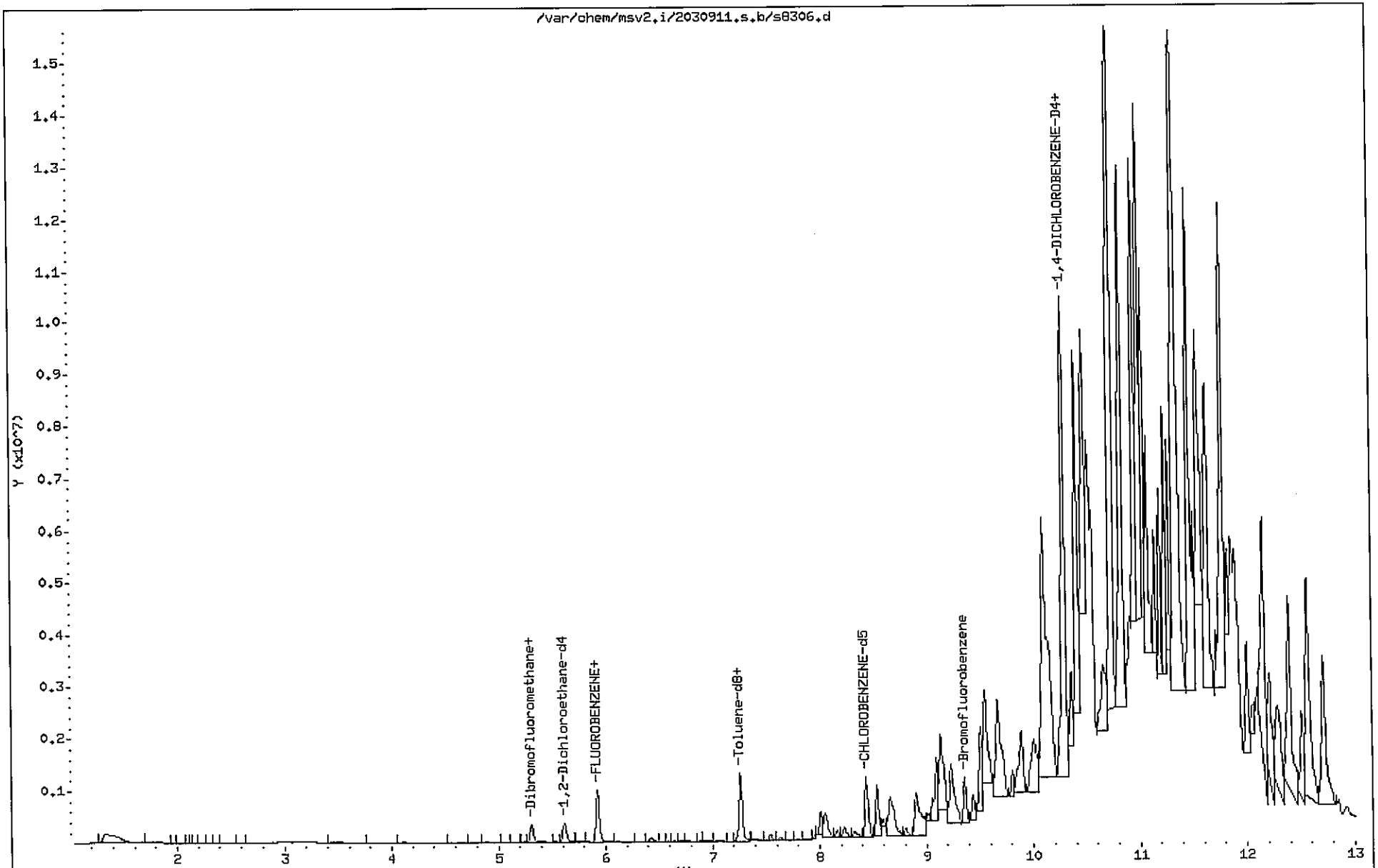
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
73 Ethylbenzene +	106	8.537	8.530	(1.012)	218725	26.1965	1090
76 o-Xylene	106	8.952	8.945	(1.061)	21027	1.99699	82.8
109 TOTAL XYLENE	106				21027	1.99699	82.8
44 1,2-Dichloroethane-d4	67	5.611	5.611	(0.947)	149950	53.5861	2220
38 Dibromofluoromethane	111	5.308	5.308	(0.896)	265995	56.2669	2330
47 FLUOROBENZENE	96	5.928	5.927	(1.000)	1039048	50.0000	
58 Toluene-d8	98	7.265	7.265	(0.861)	944949	50.2510	2080
70 Chlorobenzene-d5	82	8.438	8.431	(1.000)	455810	50.0000	
81 Bromofluorobenzene	174	9.361	9.361	(0.913)	326358	42.9836	1780
99 1,4-DICHLOROBENZENE-D4	152	10.250	10.250	(1.000)	450015	50.0000	

Data File: /var/chem/msv2.i/2030911.s.b/s8306.d
Date : 11-SEP-2003 15:45
Client ID: B6JT12S030909
Sample Info: 20309100807*B6JT12S030909
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000081



Data File: /var/chem/msv2.i/2030911.s.b/s8306.d

Date : 11-SEP-2003 15:45

Client ID: 86JT12S030909

Instrument: msv2.i

Sample Info: 20309100807*86JT12S030909

Purge Volume: 5.0

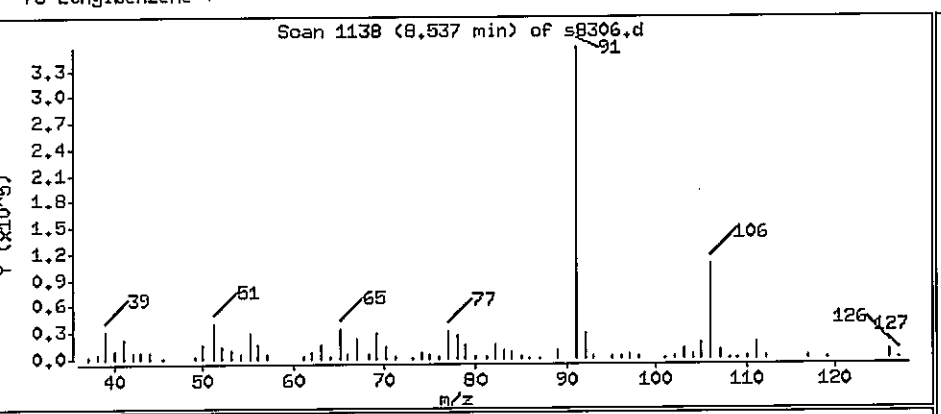
Operator: HJL

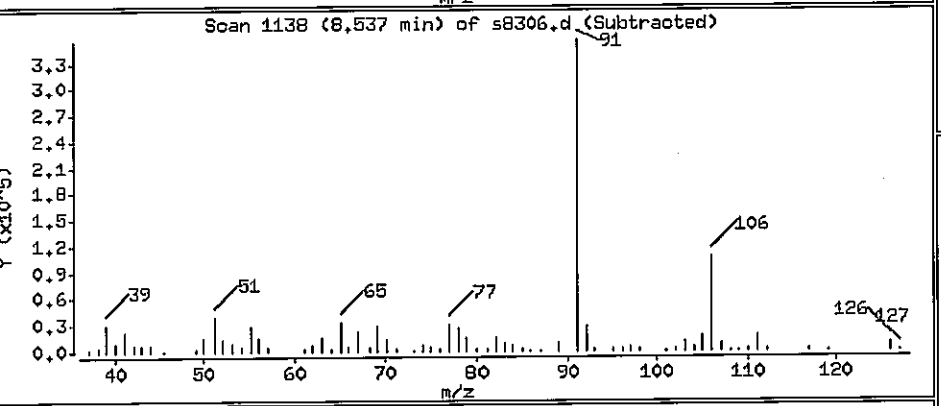
Column phase: DB-624-30M

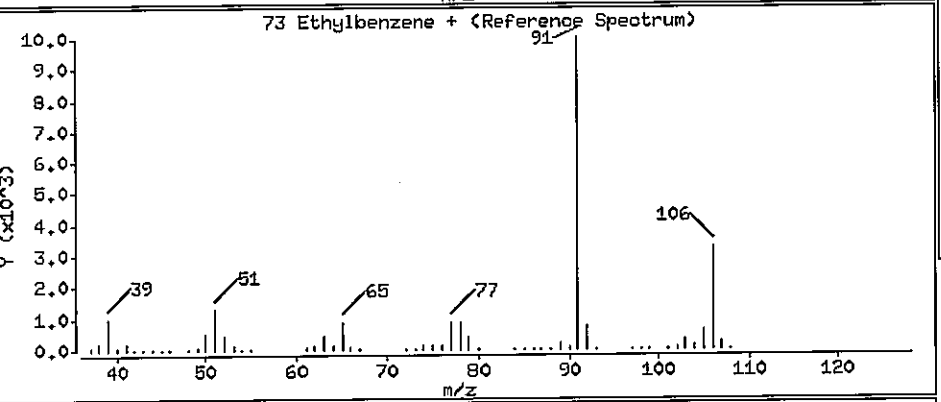
Column diameter: 0.53

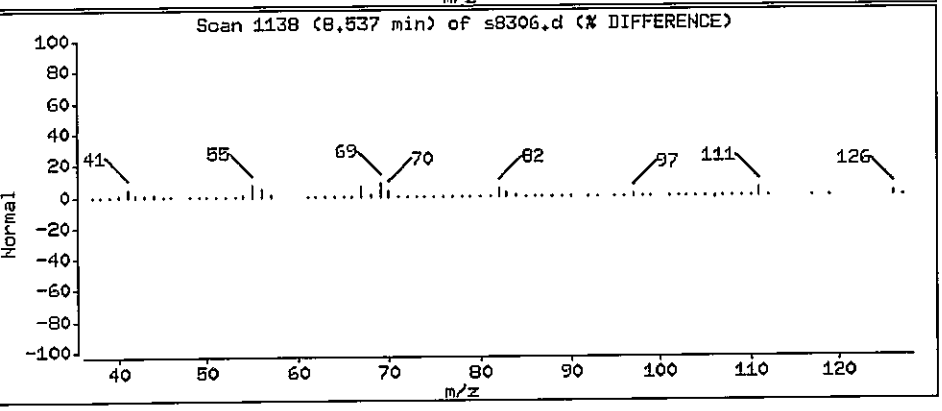
73 Ethylbenzene +

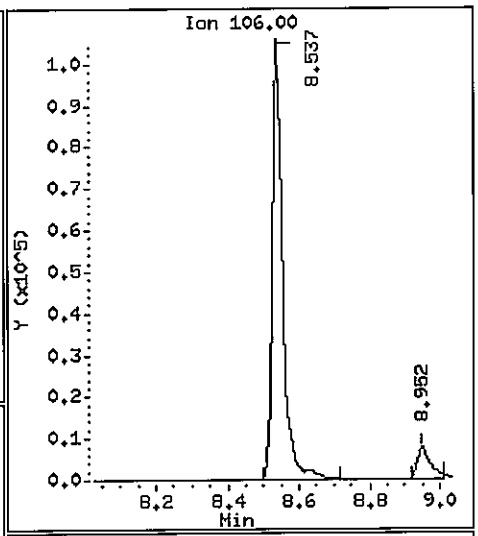
Concentration: 1090 UG/KG

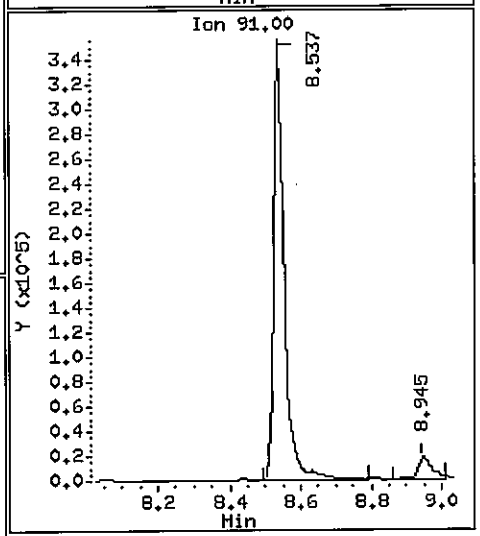












Data File: /var/chem/msv2.i/2030911.s.b/s8306.d

Date : 11-SEP-2003 15:45

Client ID: 86JT12S030909

Instrument: msv2.i

Sample Info: 20309100807*86JT12S030909

Purge Volume: 5.0

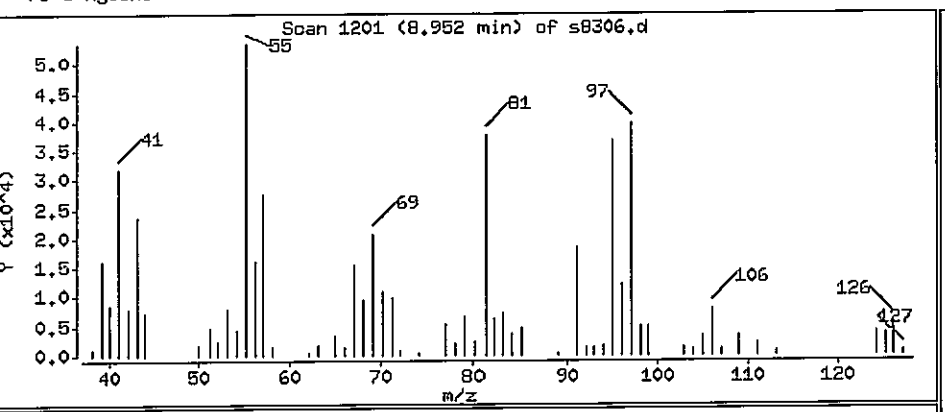
Operator: HJL

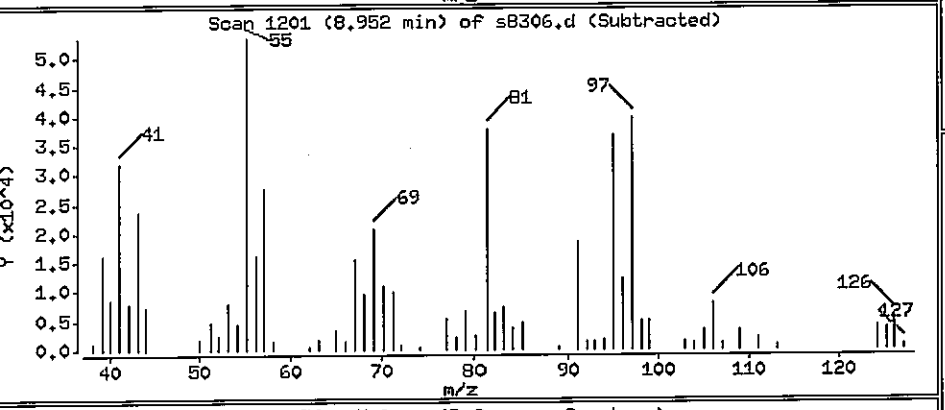
Column phase: DB-624-30M

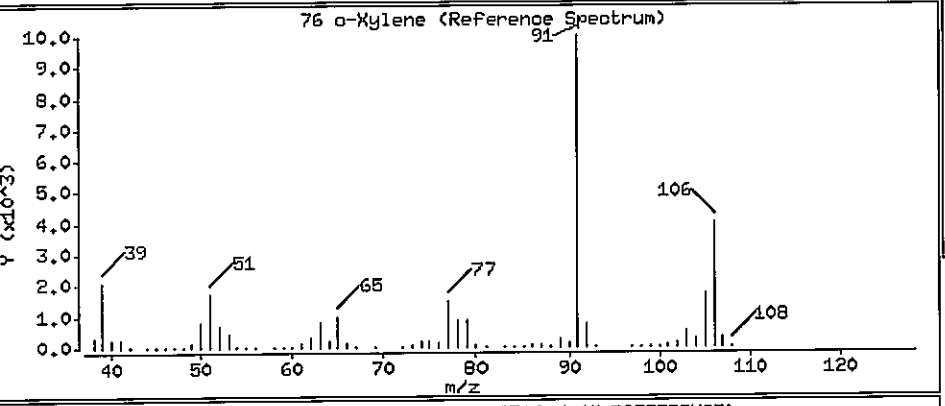
Column diameter: 0.53

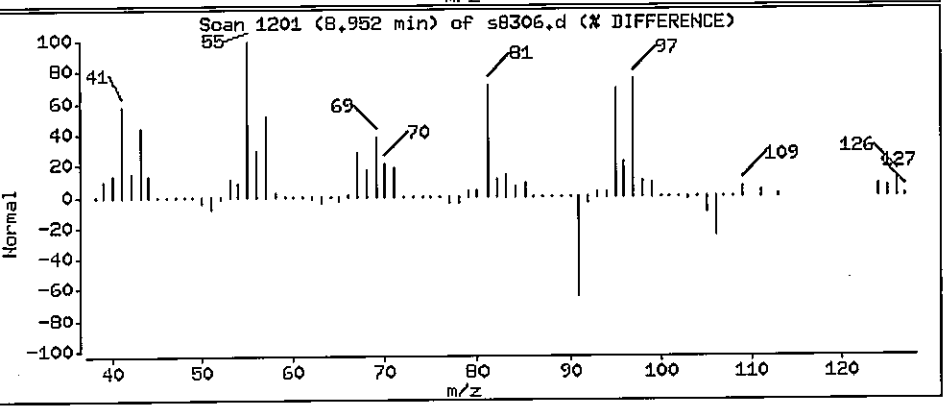
76 o-Xylene

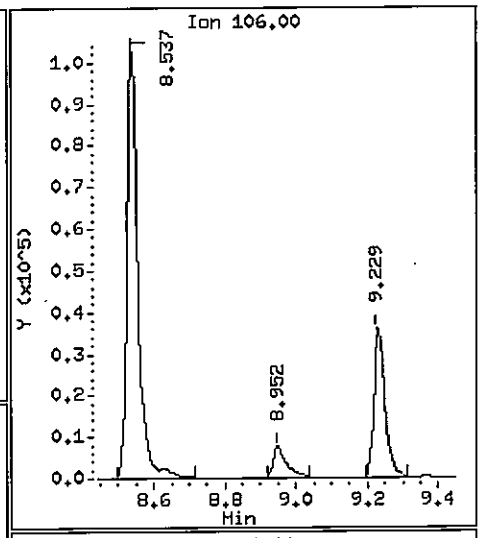
Concentration: 82.8 UG/KG

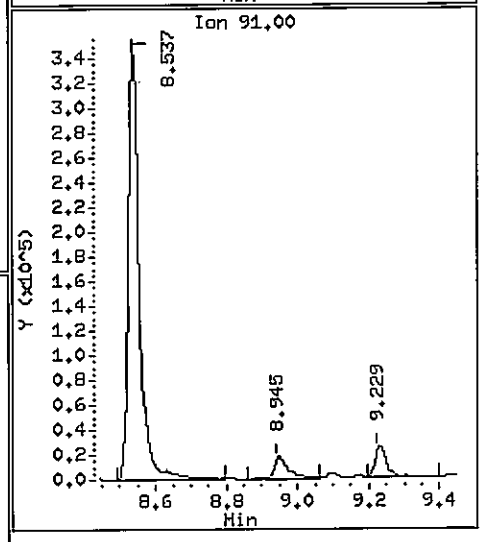












Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv4.i/2030911.s.b/s6292.d
ab Smp Id: 20309100808 Client Smp ID: 86DUPS030908
nj Date : 11-SEP-2003 17:41
perator : RJO Inst ID: msv4.i
mp Info : 20309100808*86DUPS030908
isc Info : MSV~3676~*1*RJO
omment :
ethod : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
eth Date : 11-Sep-2003 14:05 rsp Quant Type: ISTD
al Date : 06-SEP-2003 10:57 Cal File: s6170.d
ls bottle: 17
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.42000	Weight of sample extracted (g)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
25 Dibromofluoromethane	111	5.876	5.873	(0.922)	384341	49.2857	45.5	972
30 1,2-Dichloroethane-d4	67	6.163	6.161	(0.967)	193953	44.3918	41.0	9549
33 FLUOROBENZENE	96	6.375	6.367	(1.000)	1535598	50.0000		9595
41 Toluene-d8	98	7.518	7.513	(0.876)	1354284	50.4100	46.5	8313
50 CHLOROBENZENE-d5	82	8.582	8.577	(1.000)	598965	50.0000		8348
59 Bromofluorobenzene	174	9.391	9.389	(1.094)	317112	42.9086	39.6	7753
73 1,4-DICHLOROBENZENE-D4	152	10.180	10.180	(1.000)	316748	50.0000		8283

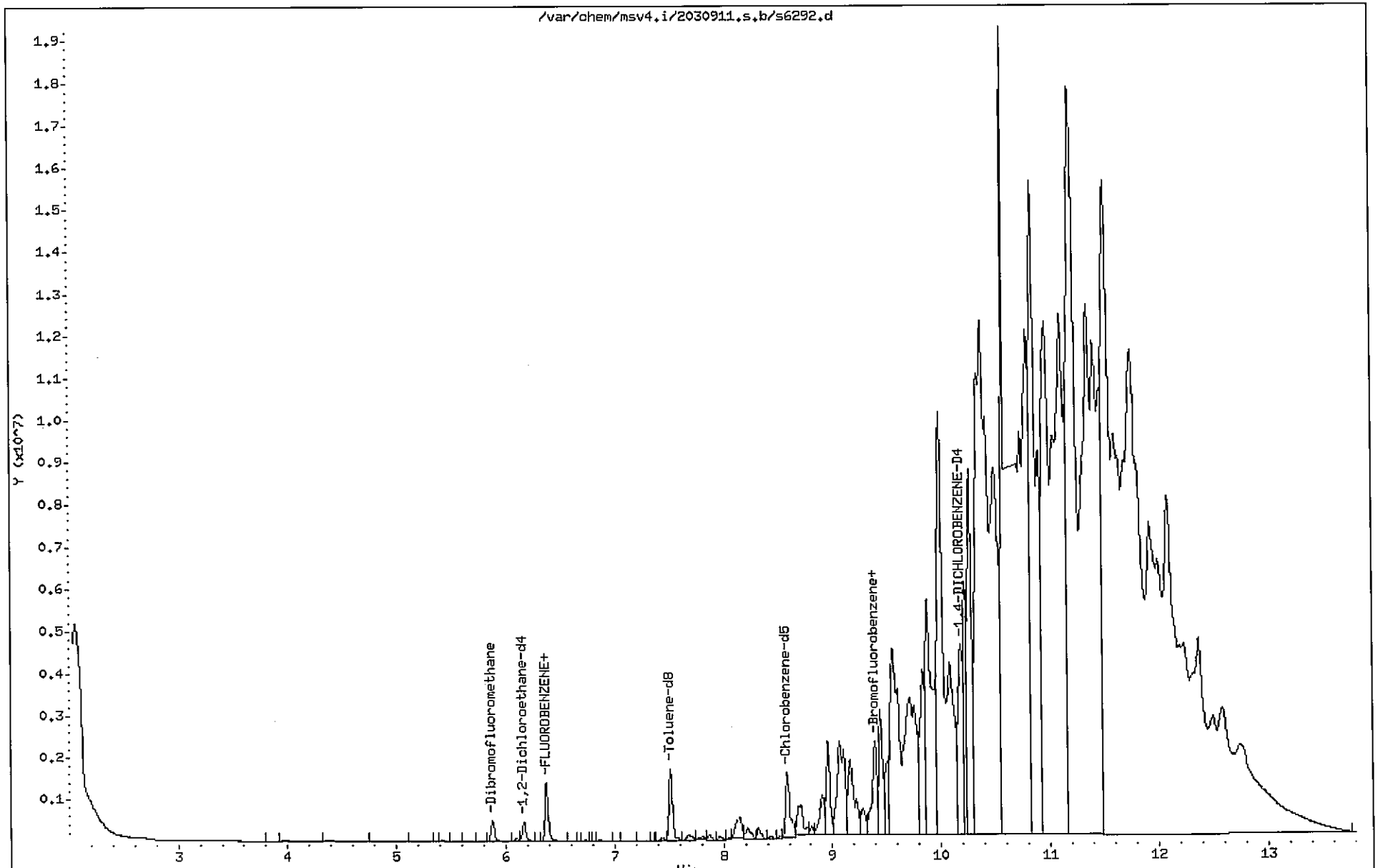
Data File: /var/chem/msv4.i/2030911.s.b/s6292.d
Date : 11-SEP-2003 17:41
Client ID: 86DUPS030908
Sample Info: 20309100808M86DUPS030908

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

000085



Data File: /var/chem/msv2.i/2030910.s.b/s8288.d
Report Date: 10-Sep-2003 14:36

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030910.s.b/s8288.d
Lab Smp Id: 20309100809 Client Smp ID: 86PREBW030908
Inj Date : 10-SEP-2003 15:16
Operator : HJL Inst ID: msv2.i
Smp Info : 20309100809*86PREBW030908
Misc Info : MSV~3670~*1*HJL
Comment :
Method : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 12:19 hjl Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
37 Chloroform +	83	5.163	5.160	(0.871)	17874	1.80094	1.80(a)
38 Dibromofluoromethane	111	5.308	5.305	(0.896)	274009	54.5229	54.5
44 1,2-Dichloroethane-d4	67	5.618	5.615	(0.948)	155057	52.1232	52.1
47 FLUOROBENZENE	96	5.928	5.925	(1.000)	1104590	50.0000	
58 Toluene-d8	98	7.272	7.262	(0.862)	1013648	52.9982	53.0
70 CHLOROBENZENE-d5	82	8.438	8.429	(1.000)	463603	50.0000	
81 Bromofluorobenzene	174	9.367	9.358	(0.914)	312856	51.7482	51.7
99 1,4-DICHLOROBENZENE-D4	152	10.250	10.247	(1.000)	358331	50.0000	

QC Flag Legend

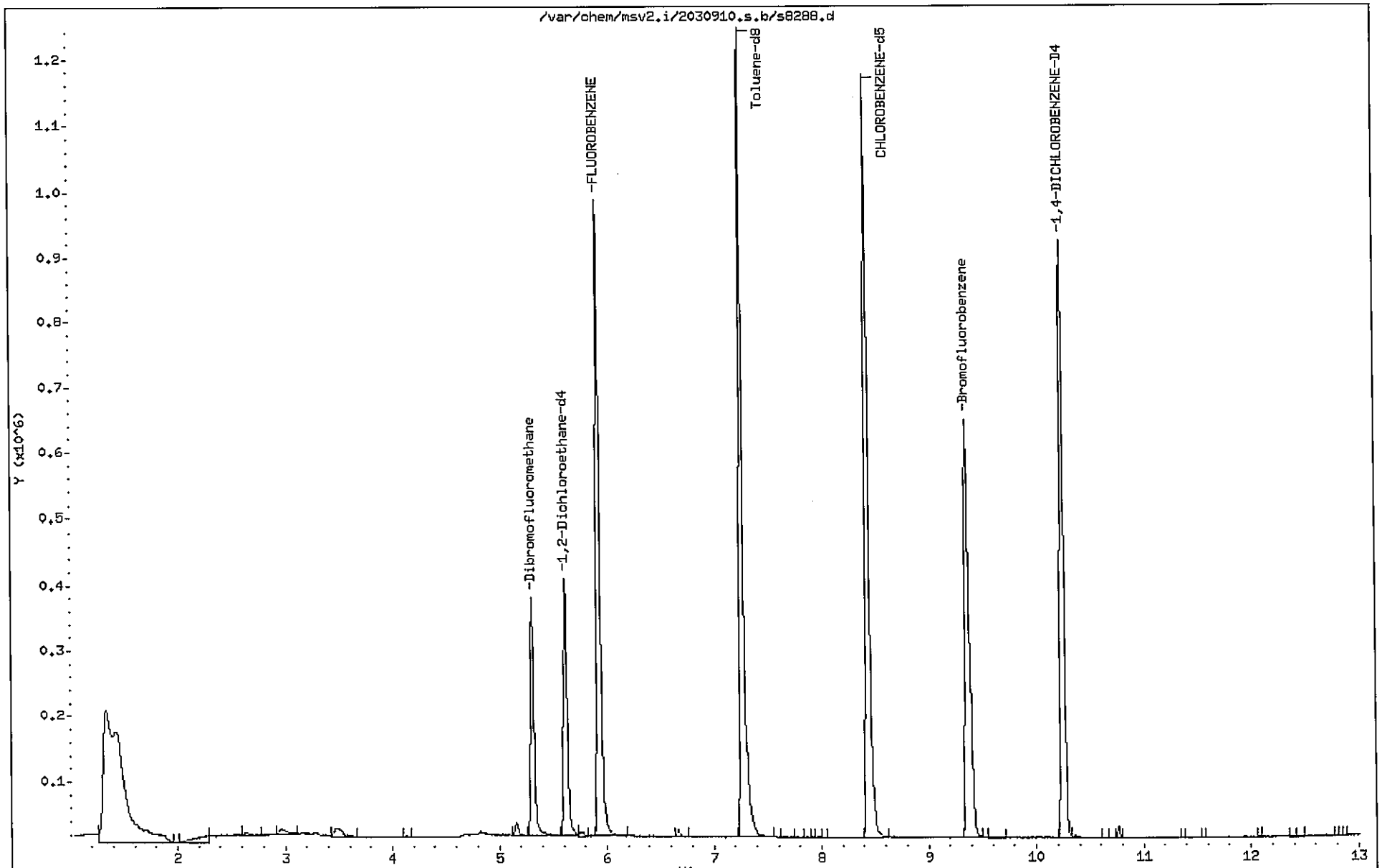
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv2.i/2030910.s.b/s8288.d
Date : 10-SEP-2003 15:16
Client ID: 86PREBW030908
Sample Info: 20309100809*86PREBW030908
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

0000087



Data File: /var/chem/msv2.i/2030910.s.b/s8288.d

Date : 10-SEP-2003 15:16

Client ID: 86PREBW030908

Instrument: msv2.i

Sample Info: 20309100B09x86PREBW030908

Purge Volume: 5.0

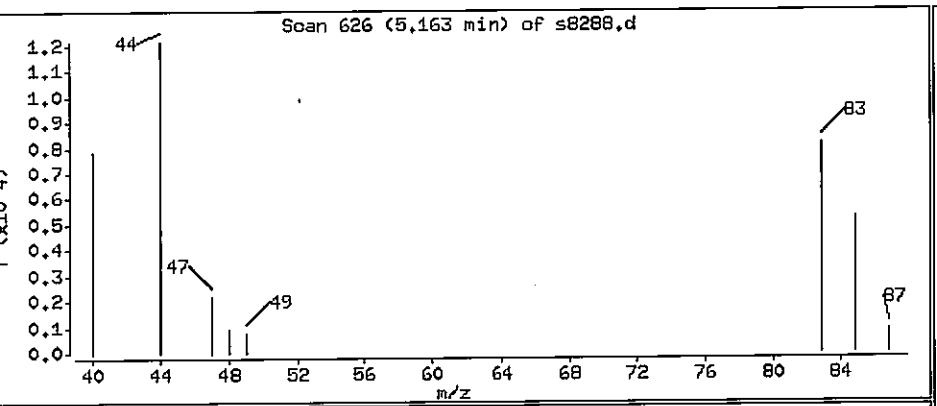
Operator: HJL

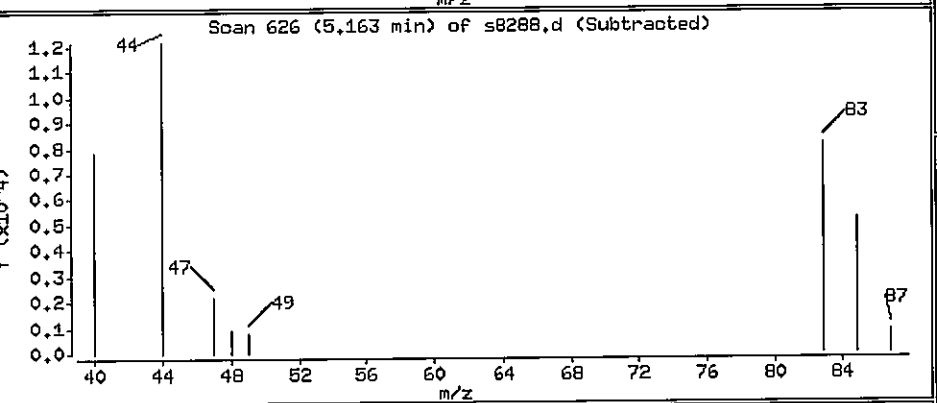
Column phase: DB-624-30M

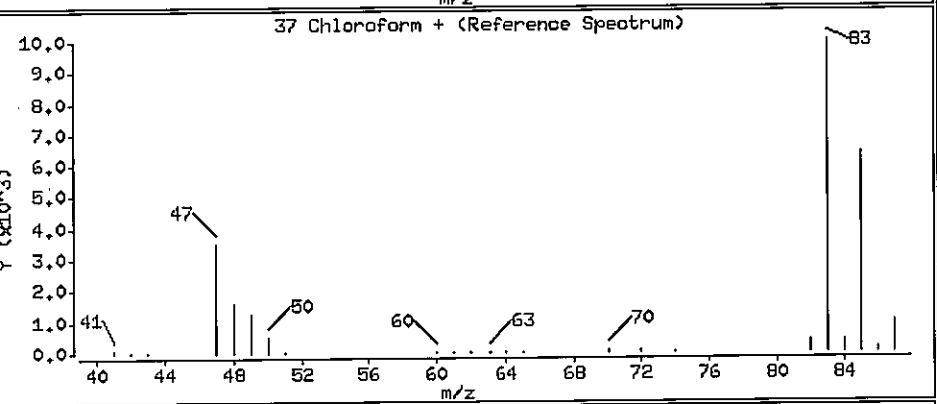
Column diameter: 0.53

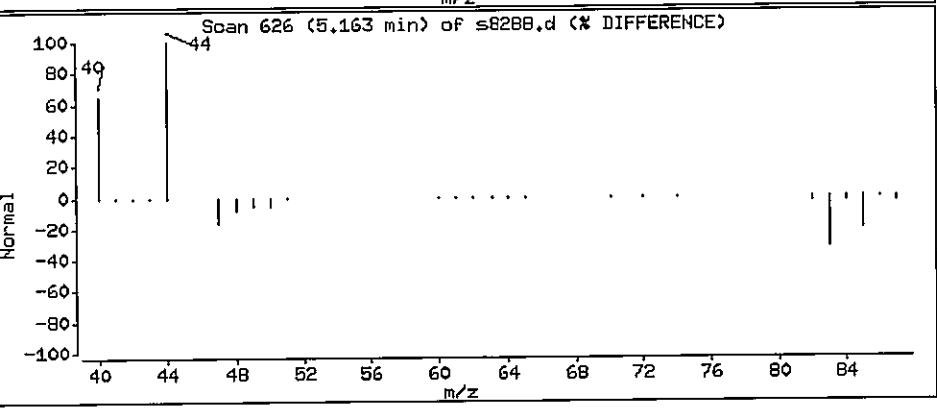
37 Chloroform +

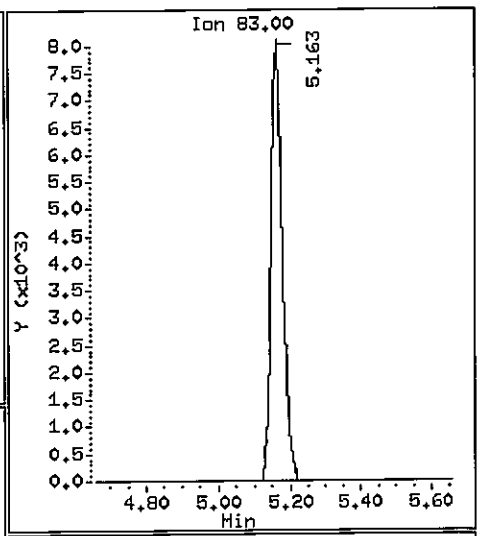
Concentration: 1.80 ug/L

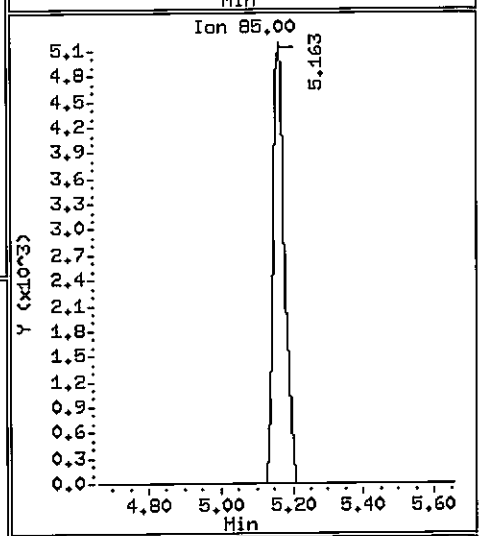


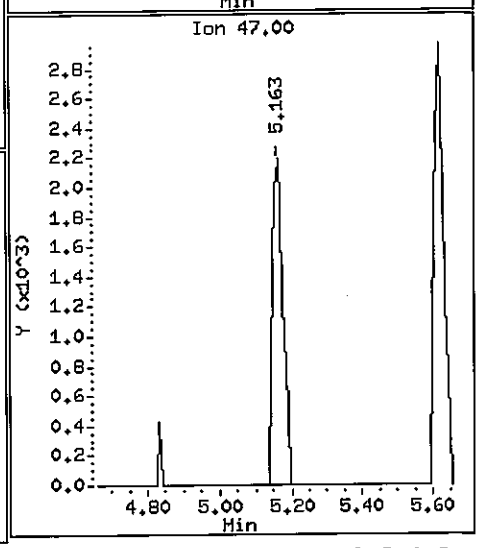












Data File: /var/chem/msv2.i/2030910.s.b/s8289.d
Report Date: 10-Sep-2003 15:06

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030910.s.b/s8289.d
Lab Smp Id: 20309100810 Client Smp ID: 86PTEBW030909
Inj Date : 10-SEP-2003 15:37
Operator : HJL Inst ID: msv2.i
Smp Info : 20309100810*86PTEBW030909
Misc Info : MSV~3670~*1*HJL
Comment :
Method : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 14:43 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
12 Acetone	43	2.976	2.960	(0.501)	33600	20.5694	20.6(a)
37 Chloroform +	83	5.170	5.160	(0.871)	16442	1.63649	1.64(a)
38 Dibromofluoromethane	111	5.315	5.305	(0.896)	278183	54.6795	54.7
44 1,2-Dichloroethane-d4	67	5.618	5.615	(0.947)	160389	53.2592	53.3
47 FLUOROBENZENE	96	5.934	5.925	(1.000)	1118204	50.0000	
58 Toluene-d8	98	7.272	7.262	(0.862)	1038630	53.6043	53.6
70 CHLOROBENZENE-d5	82	8.438	8.429	(1.000)	469658	50.0000	
81 Bromofluorobenzene	174	9.367	9.358	(0.914)	317385	48.7958	48.8
99 1,4-DICHLOROBENZENE-D4	152	10.250	10.247	(1.000)	385513	50.0000	

QC Flag Legend

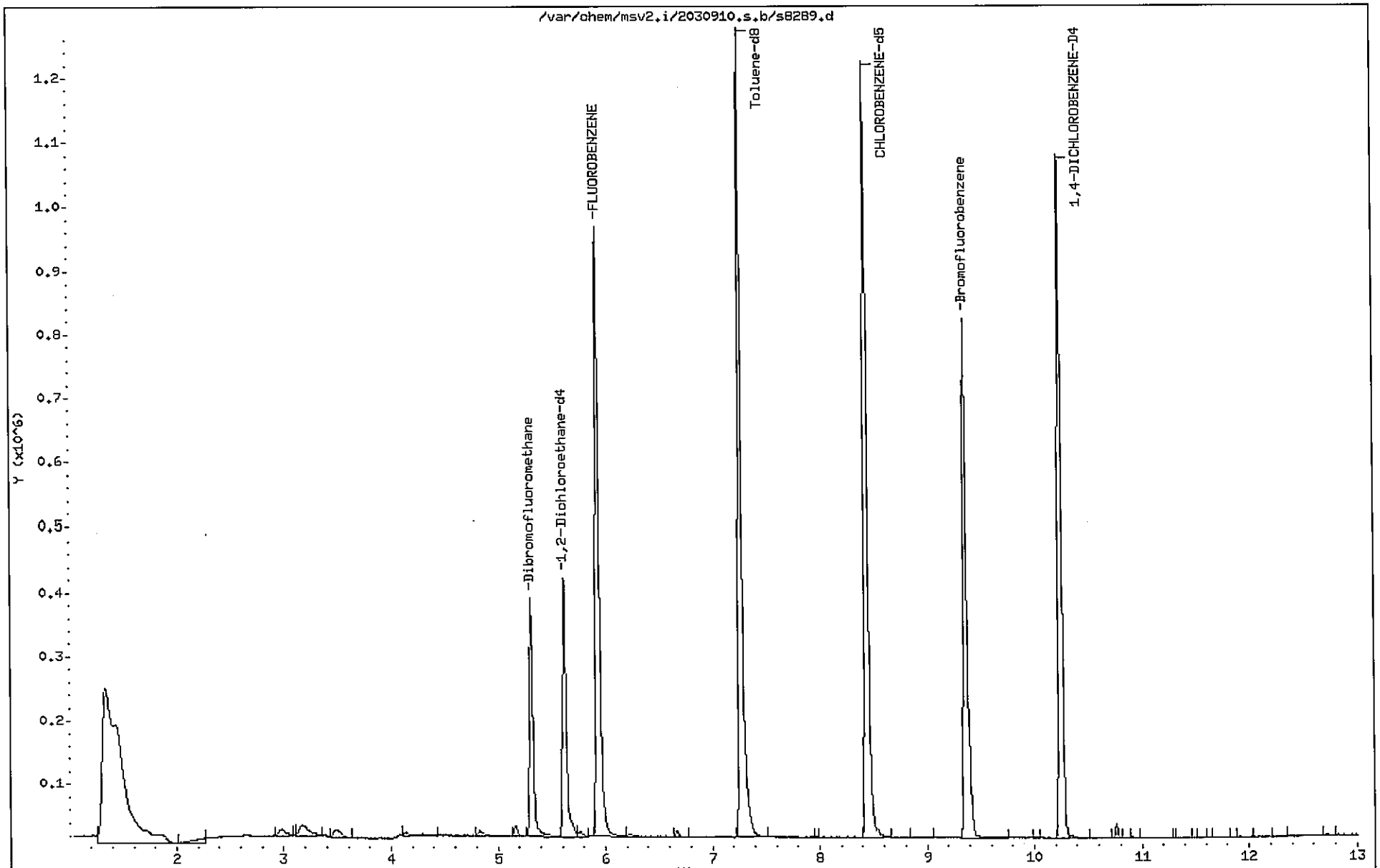
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000090

Data File: /var/chem/msv2.i/2030910.s.b/s8289.d
Date : 10-SEP-2003 15:37
Client ID: 86PTEBW030909
Sample Info: 20309100810*86PTEBW030909
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53



Data File: /var/chem/msv2.i/2030910.s.b/s8289.d

Date : 10-SEP-2003 15:37

Client ID: 86PTEBW030909

Instrument: msv2.i

Sample Info: 20309100810X86PTEBW030909

Purge Volume: 5.0

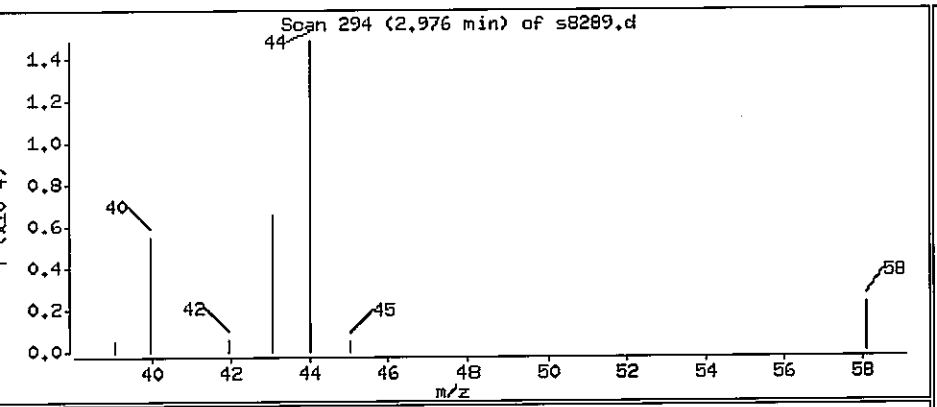
Operator: HJL

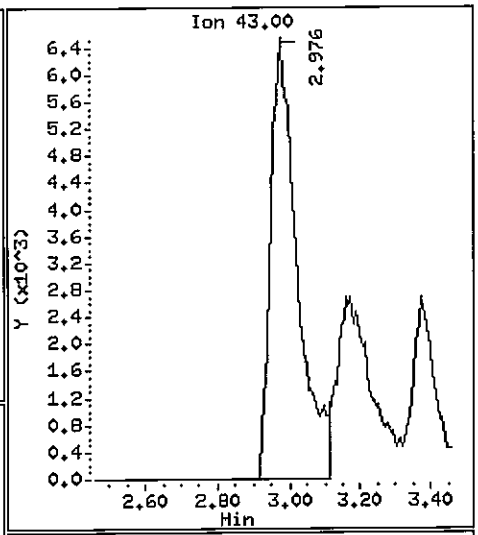
Column phase: DB-624-30M

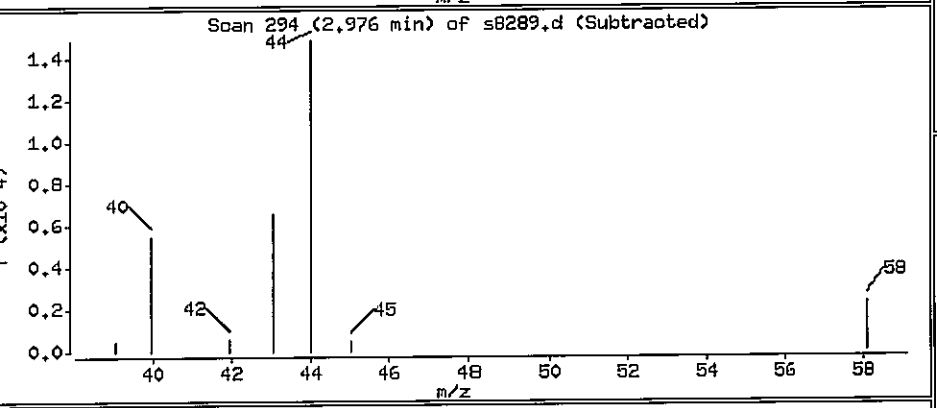
Column diameter: 0.53

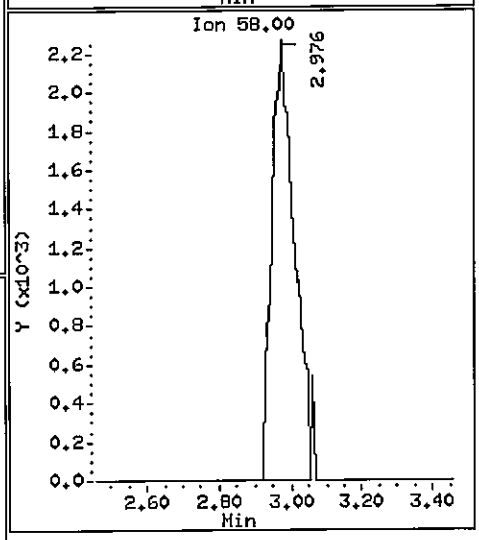
12 Acetone

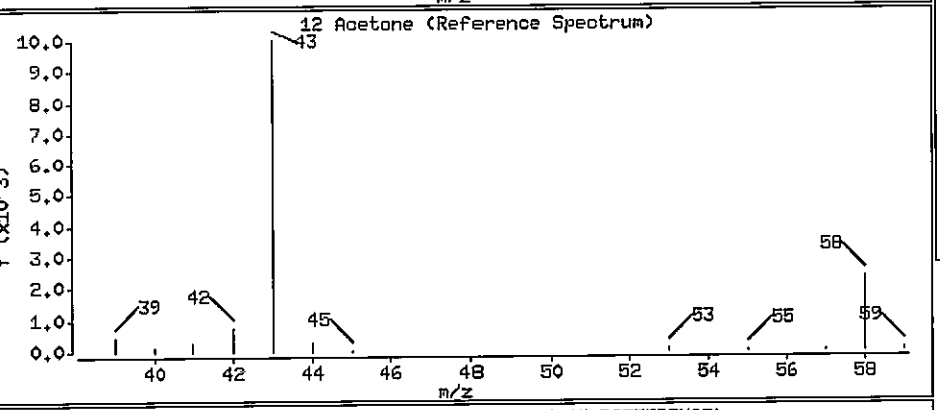
Concentration: 20.6 ug/L

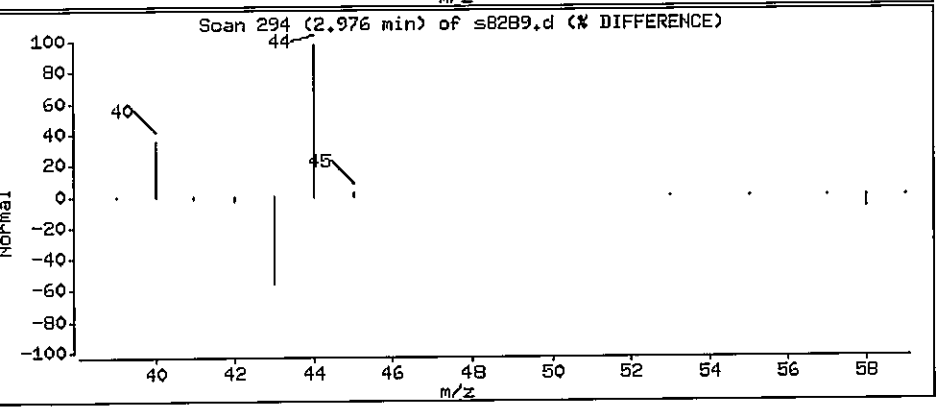












Data File: /var/chem/msv2.i/2030910.s.b/s8289.d

Date : 10-SEP-2003 15:37

Client ID: 86PTEBW030909

Instrument: msv2.i

Sample Info: 20309100810x86PTEBW030909

Purge Volume: 5.0

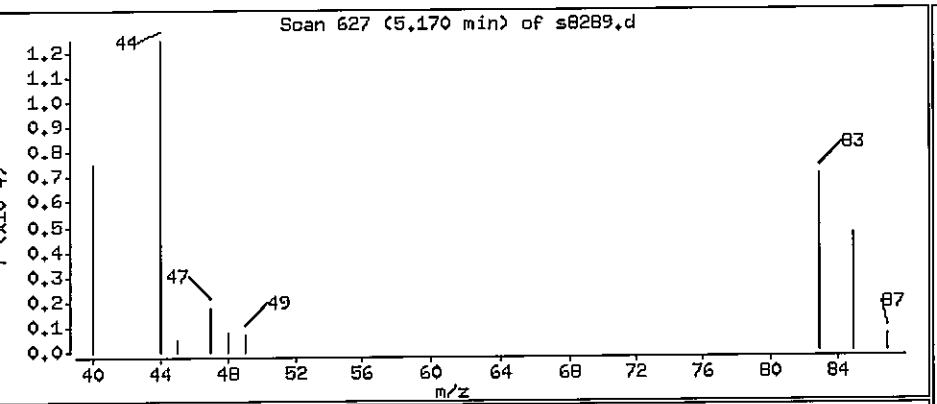
Operator: HJL

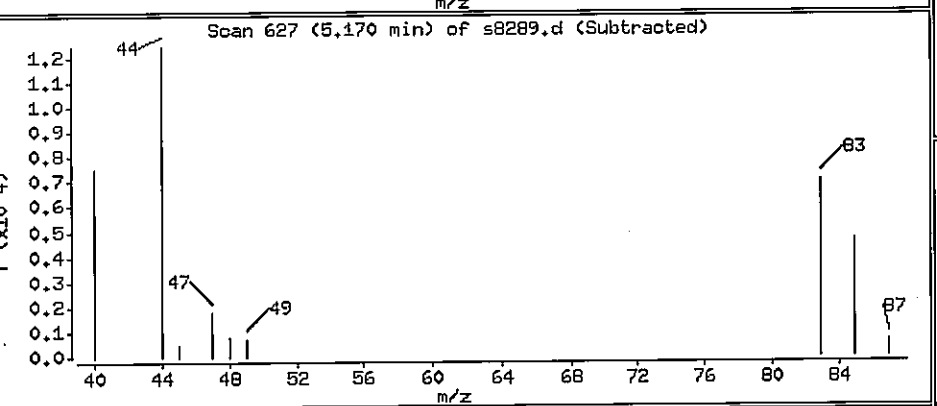
Column phase: DB-624-30M

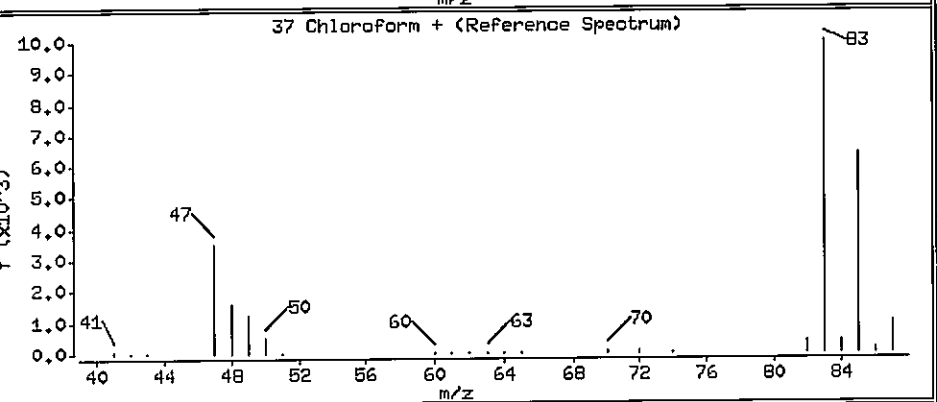
Column diameter: 0.53

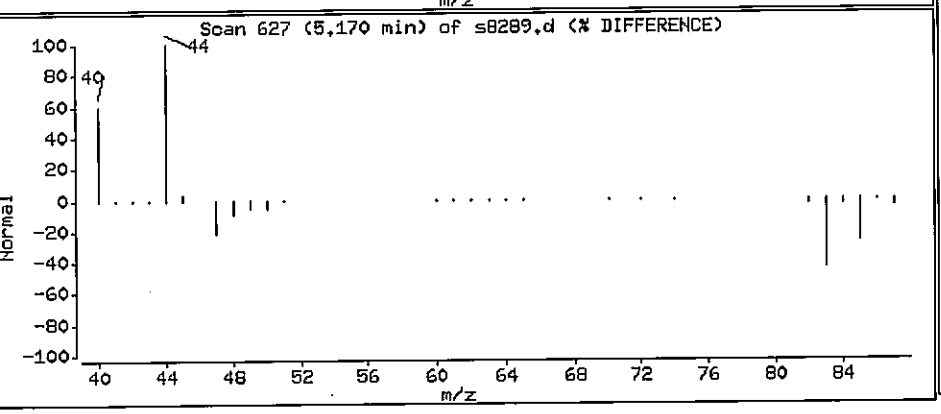
37 Chloroform +

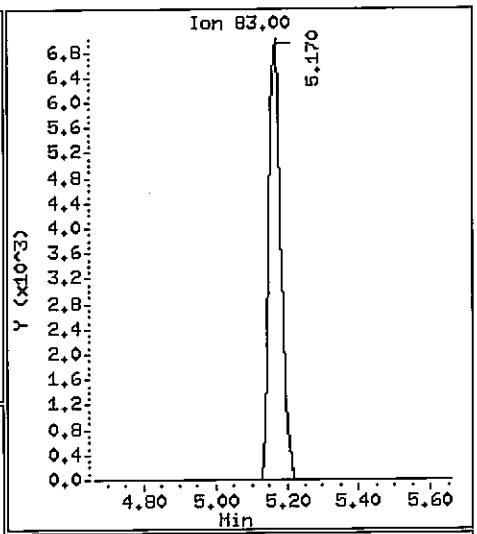
Concentration: 1.64 ug/L

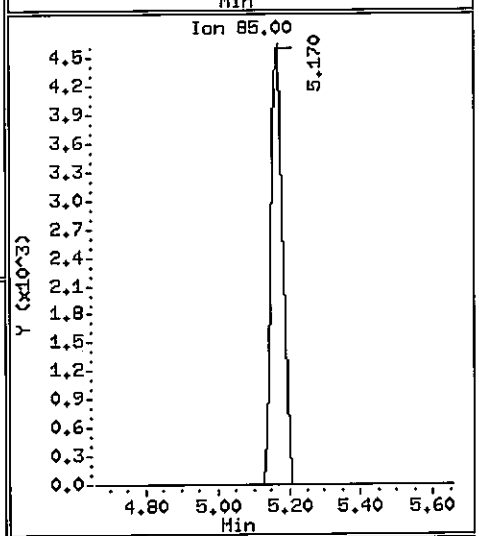


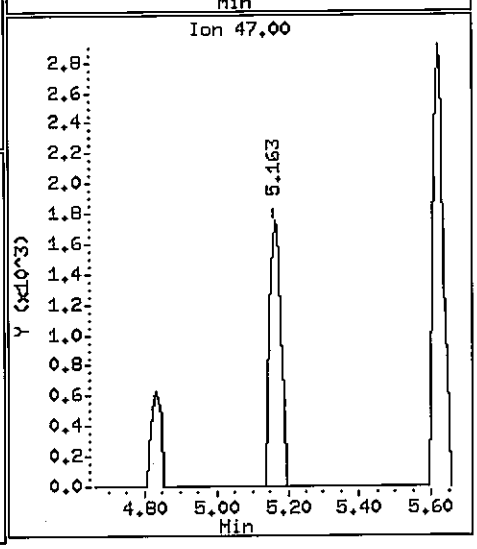












ata File: /var/chem/msv2.i/2030910.s.b/s8290.d
eport Date: 10-Sep-2003 15:23

Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv2.i/2030910.s.b/s8290.d
ab Smp Id: 20309100811 Client Smp ID: 86JTB03S030908
nj Date : 10-SEP-2003 15:59
perator : HJL Inst ID: msv2.i
mp Info : 20309100811*86JTB03S030908
isc Info : MSV~3670~*1*HJL
omment :
ethod : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
eth Date : 10-Sep-2003 14:43 rsp Quant Type: ISTD
al Date : 27-AUG-2003 12:26 Cal File: s7796.d
ls bottle: 14
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260B.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

pnd Variable Local Compound Variable

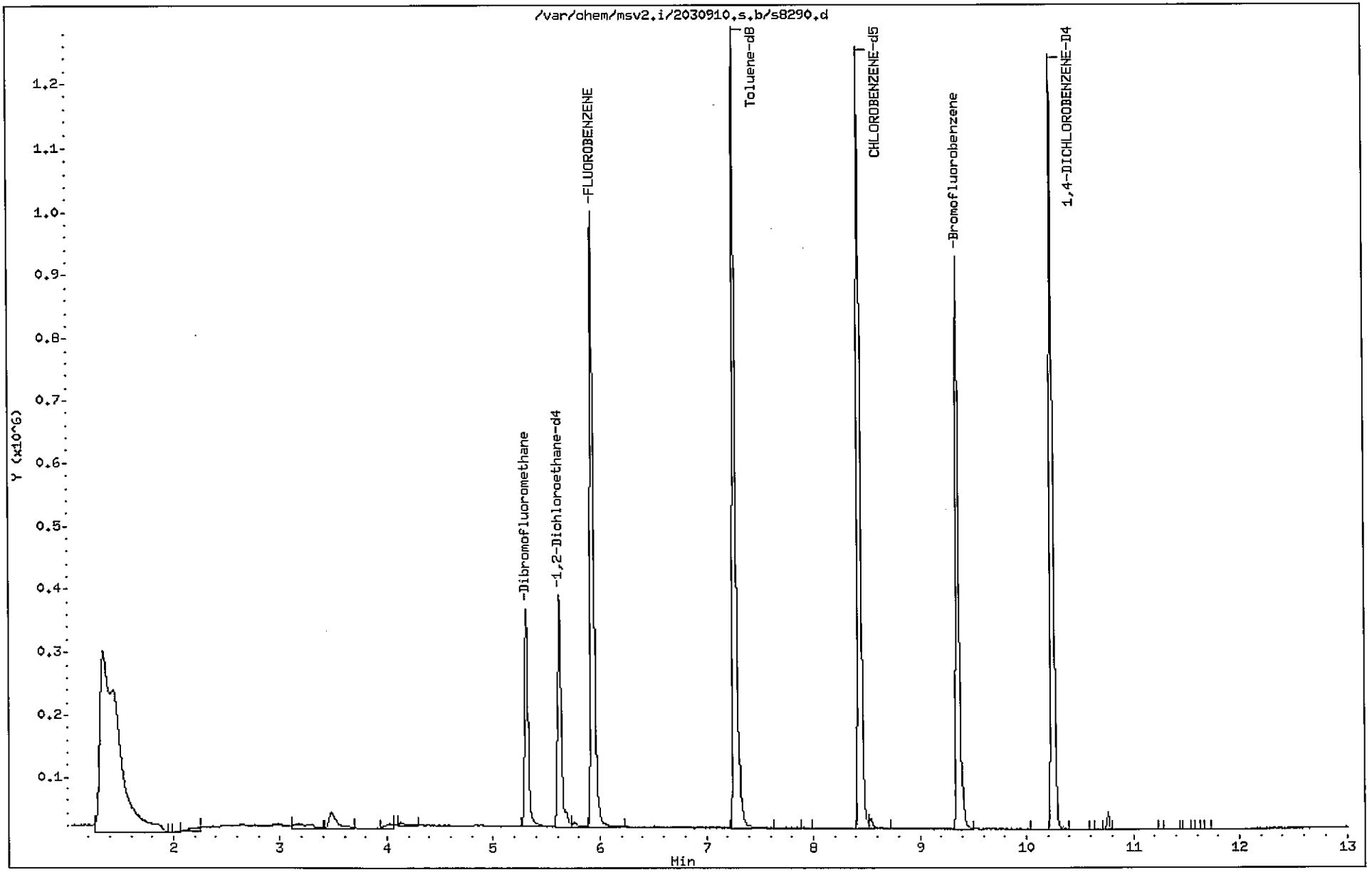
ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
18 Methylene Chloride	49	3.477	3.467	(0.586)	37791	4.07271	4.07(a)
38 Dibromofluoromethane	111	5.315	5.305	(0.896)	270241	53.8232	53.8
44 1,2-Dichloroethane-d4	67	5.618	5.615	(0.947)	153777	51.7411	51.7
47 FLUOROBENZENE	96	5.935	5.925	(1.000)	1103563	50.0000	
58 Toluene-d8	98	7.272	7.262	(0.862)	1008076	53.3969	53.4
70 CHLOROBENZENE-d5	82	8.439	8.429	(1.000)	457612	50.0000	
81 Bromofluorobenzene	174	9.361	9.358	(0.914)	311994	46.8608	46.9
99 1,4-DICHLOROBENZENE-D4	152	10.244	10.247	(1.000)	394614	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv2.i/2030910.s.b/s8290.d
Date : 10-SEP-2003 15:59
Client ID: 86JTB03S030908
Sample Info: 20309100811M86JTB03S030908
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i
Operator: HJL
Column diameter: 0.53



000094

Data File: /var/chem/msv2.i/2030910.s.b/s8290.d

Date : 10-SEP-2003 15:59

Client ID: 86JTB03S030908

Sample Info: 20309100811*86JTB03S030908

Purge Volume: 5.0

Column phase: DB-624-30M

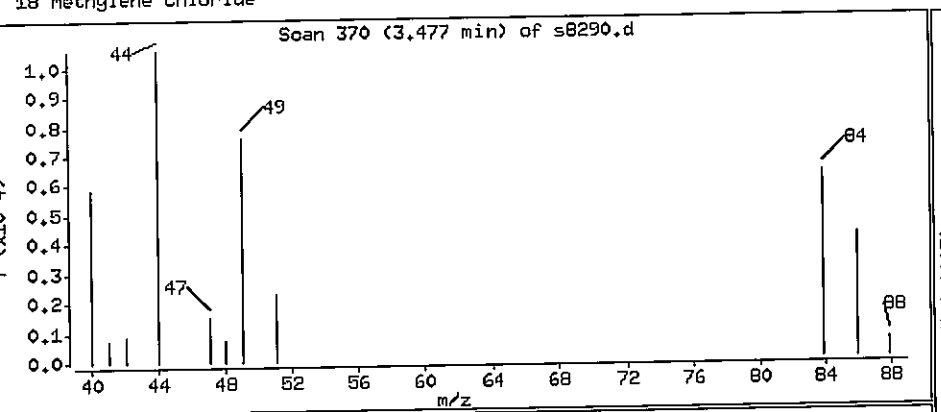
Instrument: msv2.i

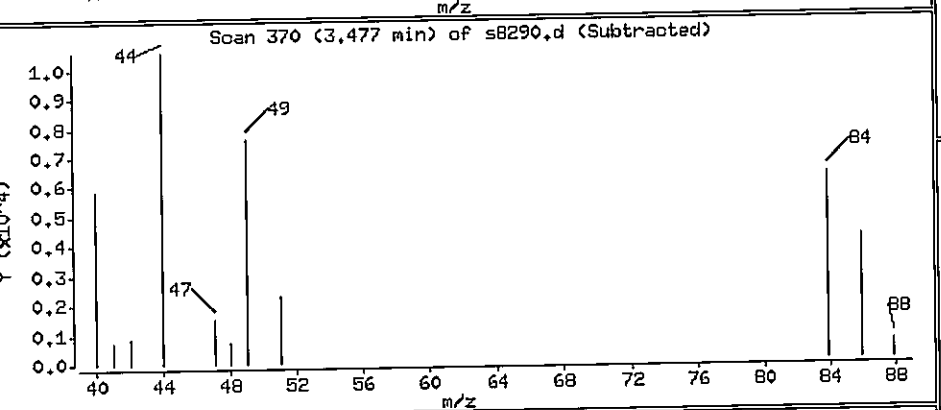
Operator: HJL

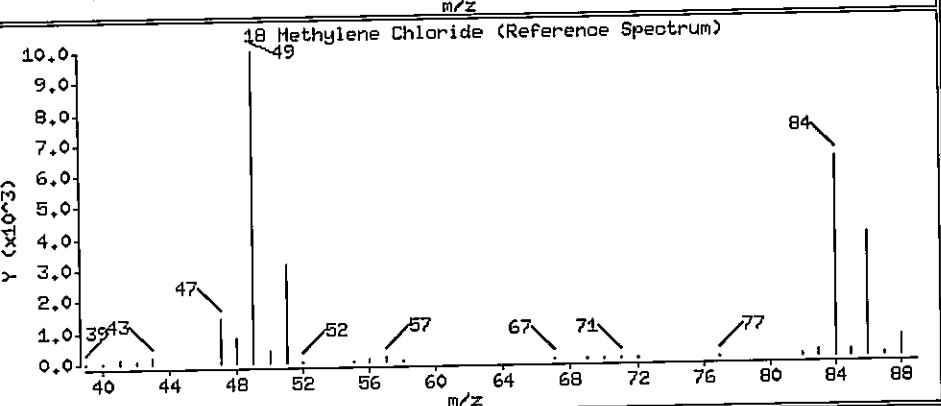
Column diameter: 0.53

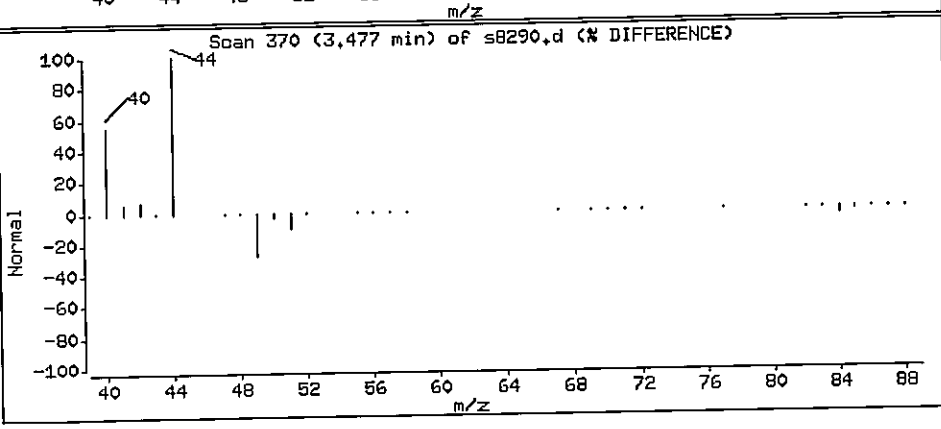
Concentration: 4.07 ug/L

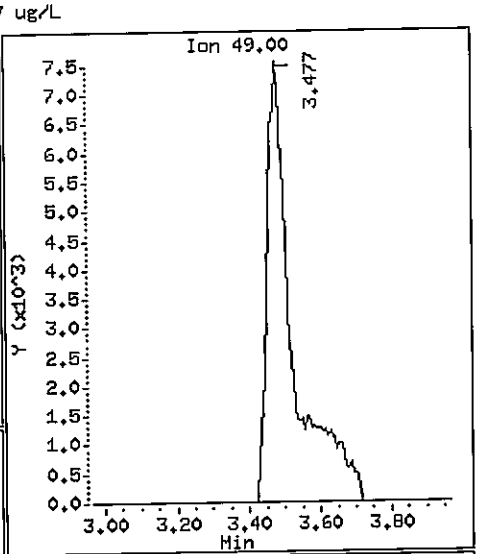
18 Methylene Chloride

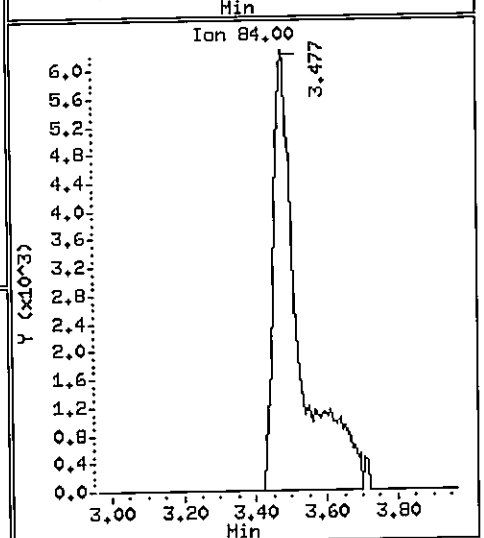


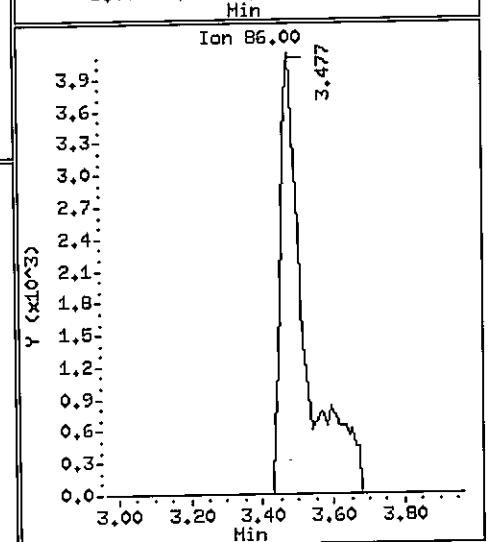












Data File: /var/chem/msv0.i/2030909.s.b/s6061.d

Date : 09-SEP-2003 14:21

Client ID: V0BFB01

Instrument: msv0.i

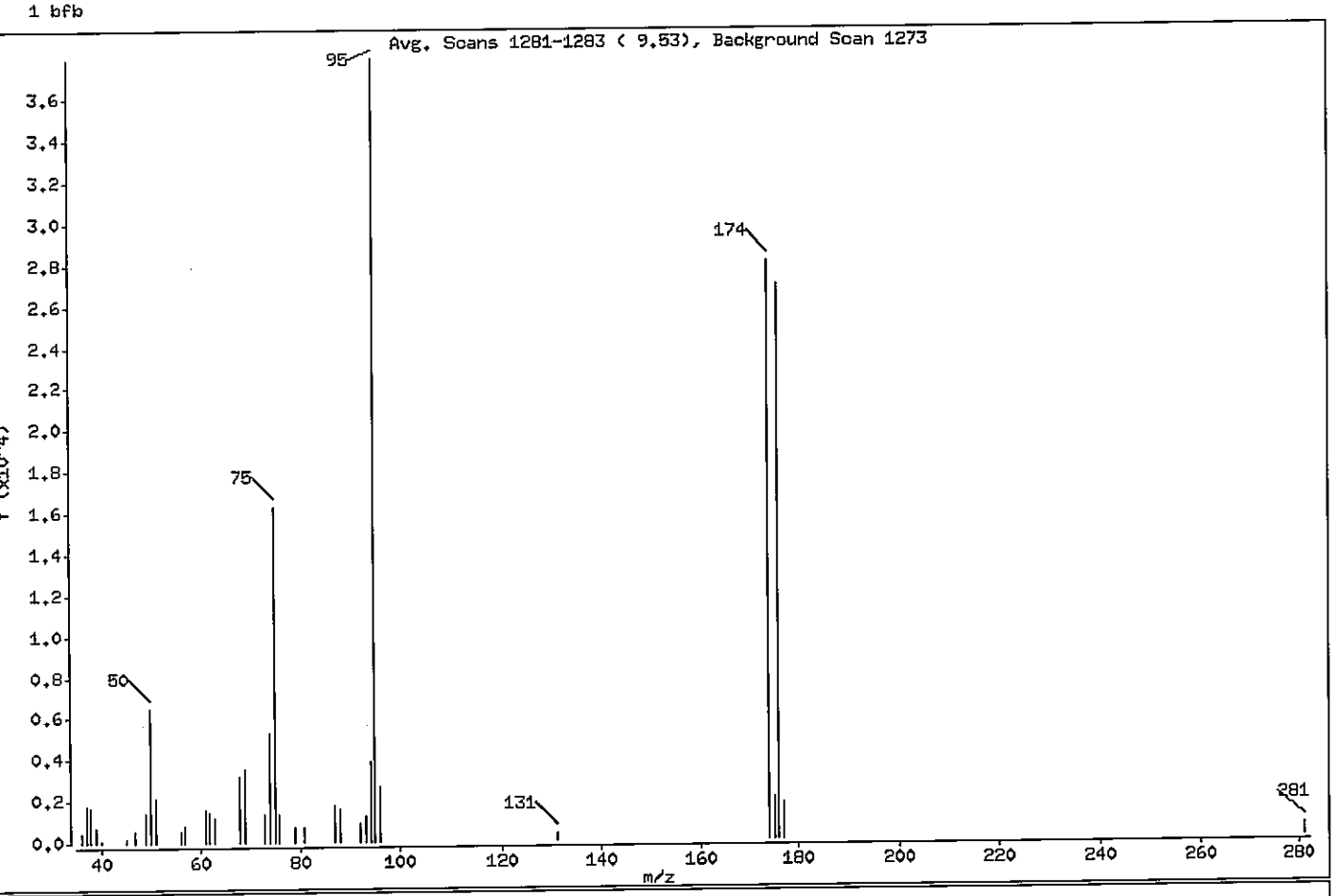
Sample Info: 1000*V0BFB01*5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.05
75	30.00 - 60.00% of mass 95	42.94
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	73.89
175	5.00 - 9.00% of mass 174	5.30 (7.18)
176	95.00 - 101.00% of mass 174	70.94 (96.01)
177	5.00 - 9.00% of mass 176	4.63 (6.53)

Data File: /var/chem/msv0.i/2030909.s.b/s6061.d

Date : 09-SEP-2003 14:21

Client ID: V0BFB01

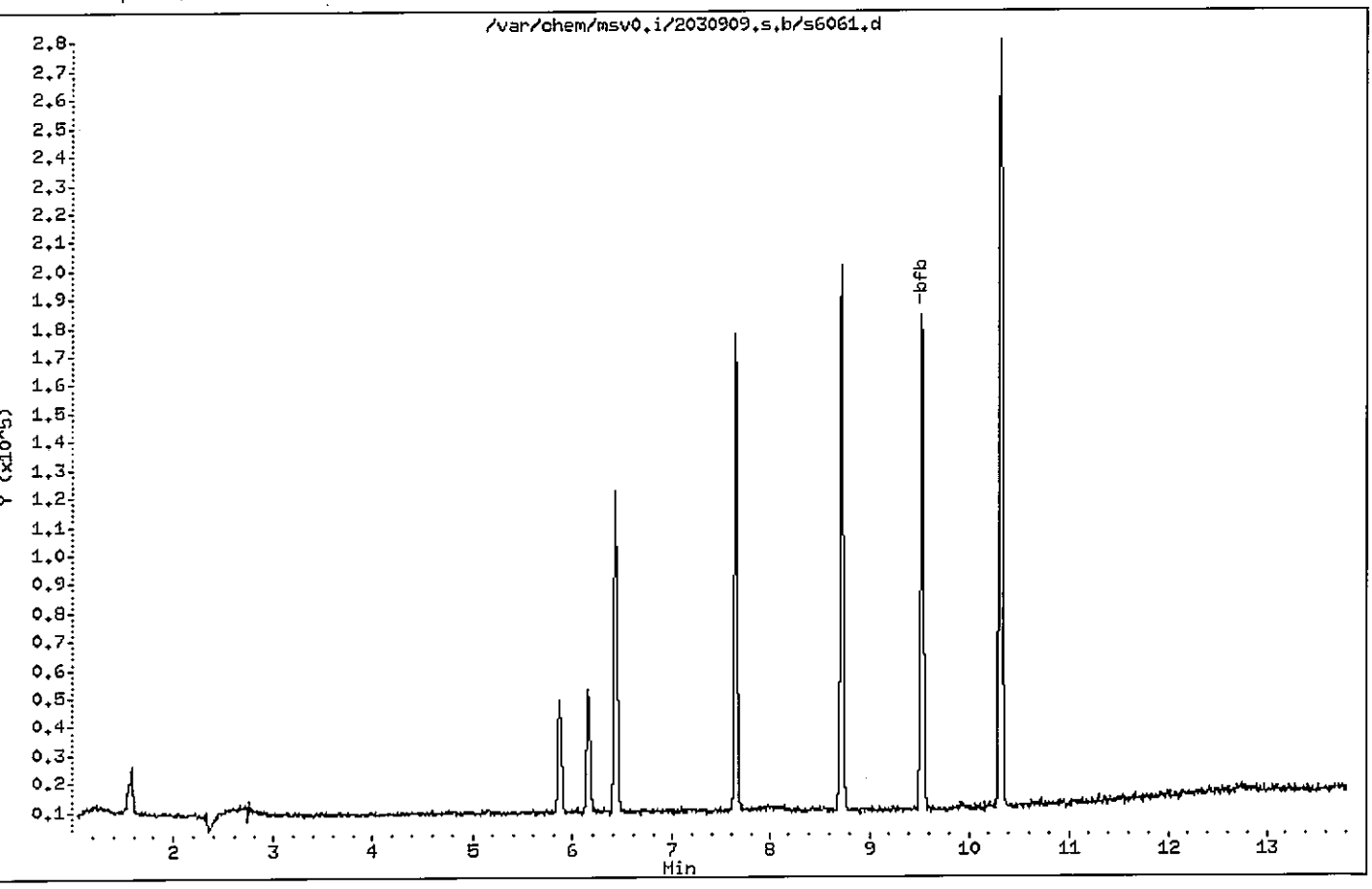
Instrument: msv0.i

Sample Info: 1000*V0BFB01*5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv0.i/2030909.s.b/s6061.d

Date : 09-SEP-2003 14:21

Client ID: V0BFB01

Instrument: msv0.i

Sample Info: 1000*V0BFB01*5-1-B

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6061.d

Spectrum: Avg. Scans 1281-1283 (9.53), Background Scan 1273

Location of Maximum: 95.00

Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	455	56.00	533	76.00	1344	131.00	314
37.00	1772	57.00	752	79.00	673	174.00	28040
38.00	1674	61.00	1544	81.00	740	175.00	2013
39.00	662	62.00	1391	87.00	1744	176.00	26920
40.00	98	63.00	1119	88.00	1588	177.00	1758
45.00	134	68.00	3175	92.00	847	281.00	505
47.00	550	69.00	3504	93.00	1209		
49.00	1422	73.00	1347	94.00	3805		
50.00	6472	74.00	5272	95.00	37952		
51.00	2089	75.00	16299	96.00	2665		

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030909.s.b/s6063.d
Lab Smp Id: 1206 Client Smp ID: V0STD002
Inj Date : 09-SEP-2003 15:20
Operator : RSP Inst ID: msv0.i
Smp Info : 1206*V0STD002*5-1-8
Misc Info : MSV~3671~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 12:15 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 15:20 Cal File: s6063.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.340	2.340	(0.359)	39361	2.00000	1.20	6101
1 Dichlorodifluoromethane	85	2.122	2.122	(0.326)	9723	2.00000	2.24	2366(a)
3 Vinyl Chloride +	62	2.472	2.472	(0.380)	10116	2.00000	2.00	3787
4 Bromomethane	94	2.876	2.876	(0.442)	23085	2.00000	7.32	6385
6 Trichlorofluoromethane	101	3.327	3.327	(0.511)	10482	2.00000	2.15	6737
7 Acrolein	56	3.803	3.803	(0.584)	4884	10.0000	11.3	2939
9 1,1,2Trichlotrifluoroethane	101	3.916	3.916	(0.601)	9333	2.00000	2.40	808
8 1,1-Dichloroethene +	96	3.916	3.916	(0.601)	8120	2.00000	2.20	8661
11 Methyl Iodide	142	4.088	4.088	(0.628)	7850	2.00000	4.16	7714
12 Carbon Disulfide	76	4.154	4.154	(0.638)	37907	2.00000	2.48	7592
14 Acrylonitrile	53	4.651	4.651	(0.714)	20302	10.0000	12.2	6603
15 trans-1,2-Dichloroethene	61	4.690	4.690	(0.720)	14972	2.00000	2.42	8204
16 MTBE	73	4.684	4.684	(0.719)	26512	2.00000	2.15	3127

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
17 Hexane	57	4.942	4.942	(0.759)	19780	2.00000	2.86	2661(aH)
19 Vinyl Acetate	43	4.942	4.942	(0.759)	13671	2.00000	2.99	
18 1,1-Dichloroethane ++	63	5.081	5.081	(0.780)	19603	2.00000	2.22	5642
29 Total 1,2-Dichloroethene	61				33076	4.00000	4.45	0
21 cis-1,2-Dichloroethene	61	5.591	5.591	(0.859)	18104	2.00000	2.09	7891
20 2,2-Dichloropropane	77	5.591	5.591	(0.859)	13526	2.00000	2.07	6004
23 Bromochloromethane	128	5.790	5.790	(0.889)	5737	2.00000	2.10	9114
24 Chloroform +	83	5.849	5.849	(0.898)	21868	2.00000	2.29	8510
25 Dibromofluoromethane	111	5.982	5.982	(0.919)	11362	50.0000	1.99	977
26 1,1,1-Trichloroethane	97	6.008	6.008	(0.923)	14173	2.00000	2.02	8136
27 1,1-Dichloropropene	75	6.140	6.140	(0.943)	14904	2.00000	2.10	6364
28 Carbon Tetrachloride	117	6.147	6.147	(0.944)	10962	2.00000	2.03	8643
30 1,2-Dichloroethane-d4	67	6.260	6.260	(0.961)	5911	50.0000	1.99	8949
32 1,2-Dichloroethane	62	6.313	6.313	(0.969)	12559	2.00000	1.94	6202
31 Benzene	78	6.313	6.313	(0.969)	52974	2.00000	2.13	8413
33 FLUOROBENZENE	96	6.511	6.511	(1.000)	1138676	50.0000		9595
34 Trichloroethene	130	6.796	6.796	(1.044)	13482	2.00000	2.11	8761
35 1,2-Dichloropropane +	63	6.968	6.968	(1.070)	12382	2.00000	1.85	7351
38 2-Chloroethyl vinyl ether	63	7.352	7.352	(1.129)	5654	2.00000	1.88	6017
36 Dibromomethane	93	7.061	7.061	(1.084)	6722	2.00000	1.97	7232
37 Bromodichloromethane	83	7.160	7.160	(1.100)	14222	2.00000	1.90	8852
127 Methyl cyclohexane	83	6.948	6.948	(1.067)	21227	2.00000	2.10	3650(a)
39 cis-1,3-Dichloropropene	75	7.484	7.484	(1.149)	17646	2.00000	1.86	
40 4-methyl-2-pentanone	43	7.571	7.571	(1.163)	17479	2.00000	2.49	
41 Toluene-d8	98	7.690	7.690	(0.879)	44738	50.0000	2.16	8023
42 Toluene +	91	7.743	7.743	(0.885)	52000	2.00000	2.09	8724
43 trans-1,3-Dichloropropene	75	7.875	7.875	(0.900)	14560	2.00000	1.88	
44 1,1,2-Trichloroethane	97	8.021	8.021	(0.917)	10221	2.00000	1.96	8237
45 1,3-Dichloropropane	76	8.147	8.147	(0.931)	18226	2.00000	1.99	7978
47 2-Hexanone	43	8.166	8.166	(0.933)	11685	2.00000	2.30	6066
46 Tetrachloroethene	164	8.153	8.153	(0.932)	9560	2.00000	2.15	8735
48 Dibromochloromethane	129	8.325	8.325	(0.952)	10825	2.00000	1.90	8180
49 1,2-Dibromoethane(EDB)	107	8.431	8.431	(0.964)	9939	2.00000	1.95	4563
50 Chlorobenzene-d5	82	8.749	8.749	(1.000)	431267	50.0000		8279
51 Chlorobenzene ++	112	8.769	8.769	(1.002)	33968	2.00000	2.07	5825
52 1,1,1,2-Tetrachloroethane	133	8.809	8.809	(1.007)	10192	2.00000	2.00	8314
53 Ethylbenzene +	106	8.822	8.822	(1.008)	17985	2.00000	2.10	9364
54 p,m-Xylene	106	8.895	8.895	(1.017)	47399	4.00000	4.20	9133
55 o-Xylene	106	9.179	9.179	(1.049)	21299	2.00000	1.99	
56 Styrene	104	9.186	9.186	(1.050)	37274	2.00000	1.97	8911
57 Bromoform ++	173	9.352	9.352	(1.069)	6223	2.00000	1.83	7132
58 Isopropylbenzene	105	9.418	9.418	(1.076)	53169	2.00000	1.97	9187
59 Bromofluorobenzene	174	9.544	9.544	(1.091)	13145	50.0000	2.16	8385
60 1,1,2,2-Tetrachloroethane++	83	9.610	9.610	(0.930)	14213	2.00000	1.96	8831
62 1,2,3-Trichloropropane	75	9.656	9.656	(0.935)	16103	2.00000	1.94	7437
63 Bromobenzene	77	9.676	9.676	(0.937)	29396	2.00000	2.03	7661
64 n-Propylbenzene	91	9.696	9.696	(0.938)	64721	2.00000	2.13	8999

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 2-Chlorotoluene	91	9.789	9.789	(0.947)	42122	2.00000	2.18	9189
66 1,3,5-Trimethylbenzene	105	9.802	9.802	(0.949)	44712	2.00000	2.04	
67 4-Chlorotoluene	91	9.855	9.855	(0.954)	42618	2.00000	2.18	8841
76 TOTAL XYLENE	106				68698	6.00000	6.19	0
68 tert-butylbenzene	91	10.040	10.040	(0.972)	27397	2.00000	2.05	8703
69 1,2,4-Trimethylbenzene	105	10.067	10.067	(0.974)	45224	2.00000	2.03	
70 sec-Butylbenzene	105	10.179	10.179	(0.985)	58040	2.00000	2.03	
71 p-Isopropyltoluene	119	10.259	10.259	(0.993)	47456	2.00000	2.09	9167
72 1,3-Dichlorobenzene	146	10.292	10.292	(0.996)	26225	2.00000	2.06	
73 1,4-DICHLOROBENZENE-D4	152	10.331	10.331	(1.000)	395308	50.0000		9385
74 1,4-Dichlorobenzene	146	10.345	10.345	(1.001)	25613	2.00000	2.12	
75 n-Butylbenzene	91	10.530	10.530	(1.019)	44065	2.00000	2.13	9260
77 1,2-Dichlorobenzene	146	10.603	10.603	(1.026)	22257	2.00000	1.98	
78 1,2-Dibromo-3-Chloropropane	157	11.126	11.126	(1.077)	1869	2.00000	1.43	4345
79 1,2,4-Trichlorobenzene	180	11.709	11.709	(1.133)	14281	2.00000	2.05	
80 Hexachlorobutadiene	225	11.801	11.801	(1.142)	6654	2.00000	1.90	9259
81 Napthalene	128	11.914	11.914	(1.153)	34119	2.00000	1.99	8129
82 1,2,3-Trichlorobenzene	180	12.093	12.093	(1.170)	12605	2.00000	1.92	
97 Cyclohexane	56	6.068	6.068	(0.932)	23369	2.00000	2.17	4103(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

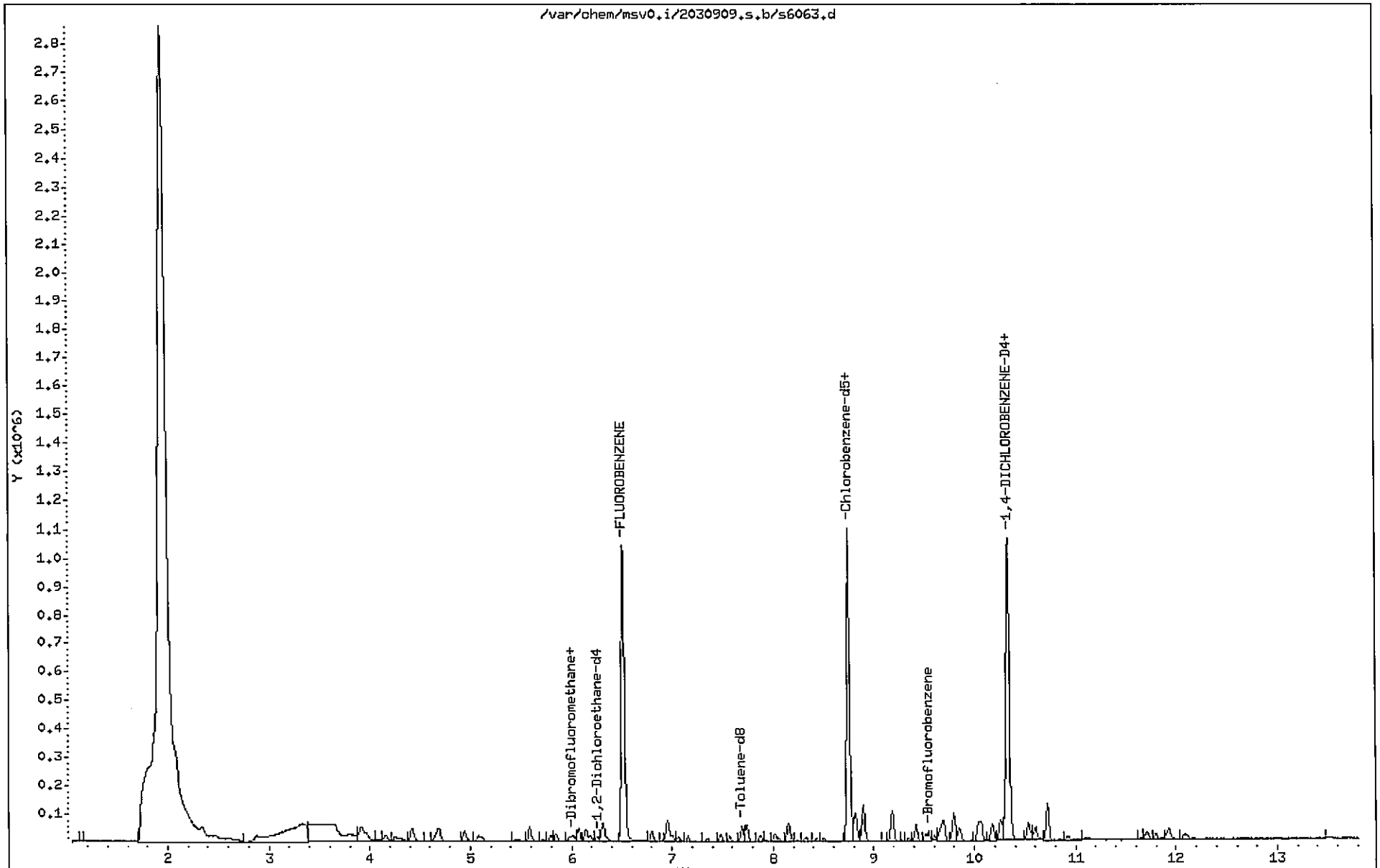
Data File: /var/chem/msv0.i/2030909.s.b/s6063.d
Date : 09-SEP-2003 15:20
Client ID: VOSTD002
Sample Info: 1206*VOSTD002*5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000102



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030909.s.b/s6064.d
Lab Smp Id: 1201 Client Smp ID: V0STD005
Inj Date : 09-SEP-2003 15:42
Operator : RSP Inst ID: msv0.i
Smp Info : 1201*V0STD005*5-1-8
Misc Info : MSV~3671~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 12:15 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 15:42 Cal File: s6064.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.334	2.334	(0.358)	51982	5.00000	3.72	6101
1 Dichlorodifluoromethane	85	2.122	2.122	(0.326)	19554	5.00000	4.70	2366(a)
3 Vinyl Chloride +	62	2.466	2.466	(0.379)	24084	5.00000	4.95	4076
4 Bromomethane	94	2.863	2.863	(0.440)	27821	5.00000	9.18	6333
6 Trichlorofluoromethane	101	3.320	3.320	(0.510)	22633	5.00000	4.84	7044
7 Acrolein	56	3.790	3.790	(0.582)	10788	25.0000	26.0	3148
9 1,1,2Trichlotrifluoroethane	101	3.916	3.916	(0.601)	17032	5.00000	4.55	808
8 1,1-Dichloroethene +	96	3.909	3.909	(0.600)	17503	5.00000	4.92	8242
10 Acetone	43	3.962	3.962	(0.609)	24957	5.00000	2.90	5431
11 Methyl Iodide	142	4.081	4.081	(0.627)	12143	5.00000	5.19	8637
12 Carbon Disulfide	76	4.154	4.154	(0.638)	78088	5.00000	5.32	8628
14 Acrylonitrile	53	4.651	4.651	(0.714)	38386	25.0000	24.1	6876
15 trans-1,2-Dichloroethene	61	4.684	4.684	(0.719)	29829	5.00000	5.01	8736

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
16 MTBE	73	4.684	4.684	(0.719)	57572	5.00000	4.86	3753
17 Hexane	57	4.942	4.942	(0.759)	27853	5.00000	4.18	2672(aH)
19 Vinyl Acetate	43	4.936	4.936	(0.758)	21941	5.00000	4.99	
18 1,1-Dichloroethane ++	63	5.075	5.075	(0.779)	40482	5.00000	4.77	5986
22 2-Butanone	43	5.584	5.584	(0.858)	24184	5.00000	3.67	
29 Total 1,2-Dichloroethene	61				72125	10.0000	10.1	0
21 cis-1,2-Dichloroethene	61	5.584	5.584	(0.858)	42296	5.00000	5.08	8161
20 2,2-Dichloropropane	77	5.591	5.591	(0.859)	32693	5.00000	5.21	6609
23 Bromochloromethane	128	5.790	5.790	(0.889)	14269	5.00000	5.44	9312
24 Chloroform +	83	5.843	5.843	(0.897)	49166	5.00000	5.36	8758
25 Dibromofluoromethane	111	5.975	5.975	(0.918)	28096	5.00000	5.11	977
26 1,1,1-Trichloroethane	97	6.008	6.008	(0.923)	33880	5.00000	5.03	8825
27 1,1-Dichloropropene	75	6.141	6.141	(0.943)	34127	5.00000	4.99	6540
28 Carbon Tetrachloride	117	6.147	6.147	(0.944)	25428	5.00000	4.89	8709
30 1,2-Dichloroethane-d4	67	6.253	6.253	(0.960)	14182	5.00000	4.97	9291
32 1,2-Dichloroethane	62	6.313	6.313	(0.969)	32228	5.00000	5.19	6411
31 Benzene	78	6.306	6.306	(0.968)	125210	5.00000	5.25	8439
33 FLUOROBENZENE	96	6.511	6.511	(1.000)	1094630	50.0000		9575
34 Trichloroethene	130	6.796	6.796	(1.044)	31321	5.00000	5.10	9047
35 1,2-Dichloropropane +	63	6.968	6.968	(1.070)	32876	5.00000	5.10	8181
38 2-Chloroethyl vinyl ether	63	7.346	7.346	(1.128)	15080	5.00000	5.22	6541
36 Dibromomethane	93	7.061	7.061	(1.084)	16593	5.00000	5.06	8468
37 Bromodichloromethane	83	7.160	7.160	(1.100)	36039	5.00000	5.01	9645
127 Methyl cyclohexane	83	6.955	6.955	(1.068)	38812	5.00000	3.99	4045(a)
39 cis-1,3-Dichloropropene	75	7.485	7.485	(1.149)	45898	5.00000	5.04	
40 4-methyl-2-pentanone	43	7.571	7.571	(1.163)	36969	5.00000	5.48	
41 Toluene-d8	98	7.690	7.690	(0.879)	103444	5.00000	5.10	8258
42 Toluene +	91	7.743	7.743	(0.885)	124415	5.00000	5.10	8836
43 trans-1,3-Dichloropropene	75	7.875	7.875	(0.900)	37739	5.00000	4.96	
44 1,1,2-Trichloroethane	97	8.014	8.014	(0.916)	25345	5.00000	4.96	8206
45 1,3-Dichloropropane	76	8.147	8.147	(0.931)	46006	5.00000	5.13	8347
47 2-Hexanone	43	8.167	8.167	(0.933)	27286	5.00000	5.47	7175
46 Tetrachloroethene	164	8.153	8.153	(0.932)	20629	5.00000	4.72	9240
48 Dibromochloromethane	129	8.325	8.325	(0.952)	27208	5.00000	4.87	8879
49 1,2-Dibromoethane(EDB)	107	8.425	8.425	(0.963)	24388	5.00000	4.87	5167
50 Chlorobenzene-d5	82	8.749	8.749	(1.000)	423573	50.0000		8290
51 Chlorobenzene ++	112	8.769	8.769	(1.002)	80797	5.00000	5.01	7426
52 1,1,1,2-Tetrachloroethane	133	8.815	8.815	(1.008)	24495	5.00000	4.89	8921
53 Ethylbenzene +	106	8.822	8.822	(1.008)	40960	5.00000	4.86	9375
54 p,m-Xylene	106	8.895	8.895	(1.017)	108215	10.0000	9.77	9144
55 o-Xylene	106	9.180	9.180	(1.049)	51050	5.00000	4.85	
56 Styrene	104	9.186	9.186	(1.050)	89404	5.00000	4.80	8977
57 Bromoform ++	173	9.345	9.345	(1.068)	15216	5.00000	4.56	8109
58 Isopropylbenzene	105	9.418	9.418	(1.076)	123495	5.00000	4.67	9196
59 Bromofluorobenzene	174	9.550	9.550	(1.092)	29072	5.00000	4.86	8930
60 1,1,2,2-Tetrachloroethane++	83	9.610	9.610	(0.931)	35588	5.00000	5.09	9481
61 trans-1,4-Dichloro-2-Butene	53	9.636	9.636	(0.933)	8154	5.00000	4.95	7986(a)

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
62 1,2,3-Trichloropropane	75	9.656	9.656	(0.935)	40600	5.00000	5.05	7414
63 Bromobenzene	77	9.670	9.670	(0.936)	70616	5.00000	5.05	7796
64 n-Propylbenzene	91	9.696	9.696	(0.939)	137251	5.00000	4.68	9103
65 2-Chlorotoluene	91	9.789	9.789	(0.948)	92260	5.00000	4.94	9222
66 1,3,5-Trimethylbenzene	105	9.802	9.802	(0.949)	104483	5.00000	4.93	
67 4-Chlorotoluene	91	9.848	9.848	(0.954)	96066	5.00000	5.08	8862
76 TOTAL XYLENE	106				159265	15.0000	14.6	0
68 tert-butylbenzene	91	10.034	10.034	(0.972)	62330	5.00000	4.81	8843
69 1,2,4-Trimethylbenzene	105	10.060	10.060	(0.974)	105767	5.00000	4.91	
70 sec-Butylbenzene	105	10.179	10.179	(0.986)	126515	5.00000	4.57	
71 p-Isopropyltoluene	119	10.259	10.259	(0.994)	100784	5.00000	4.59	9220
72 1,3-Dichlorobenzene	146	10.292	10.292	(0.997)	59810	5.00000	4.87	
73 1,4-DICHLOROBENZENE-D4	152	10.325	10.325	(1.000)	382323	50.0000		9405
74 1,4-Dichlorobenzene	146	10.338	10.338	(1.001)	59841	5.00000	5.11	
75 n-Butylbenzene	91	10.524	10.524	(1.019)	94333	5.00000	4.72	9171
77 1,2-Dichlorobenzene	146	10.596	10.596	(1.026)	54377	5.00000	5.00	
78 1,2-Dibromo-3-Chloropropane	157	11.120	11.120	(1.077)	6283	5.00000	4.97	5502
79 1,2,4-Trichlorobenzene	180	11.702	11.702	(1.133)	33462	5.00000	4.97	
80 Hexachlorobutadiene	225	11.788	11.788	(1.142)	13673	5.00000	4.04	9654
81 Napthalene	128	11.901	11.901	(1.153)	80648	5.00000	4.86	9021
82 1,2,3-Trichlorobenzene	180	12.086	12.086	(1.171)	30420	5.00000	4.80	
97 Cyclohexane	56	6.061	6.061	(0.931)	44137	5.00000	4.27	4292(a)
98 Methyl Acetate	43	4.313	4.313	(0.662)	24350	5.00000	3.13	1179(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

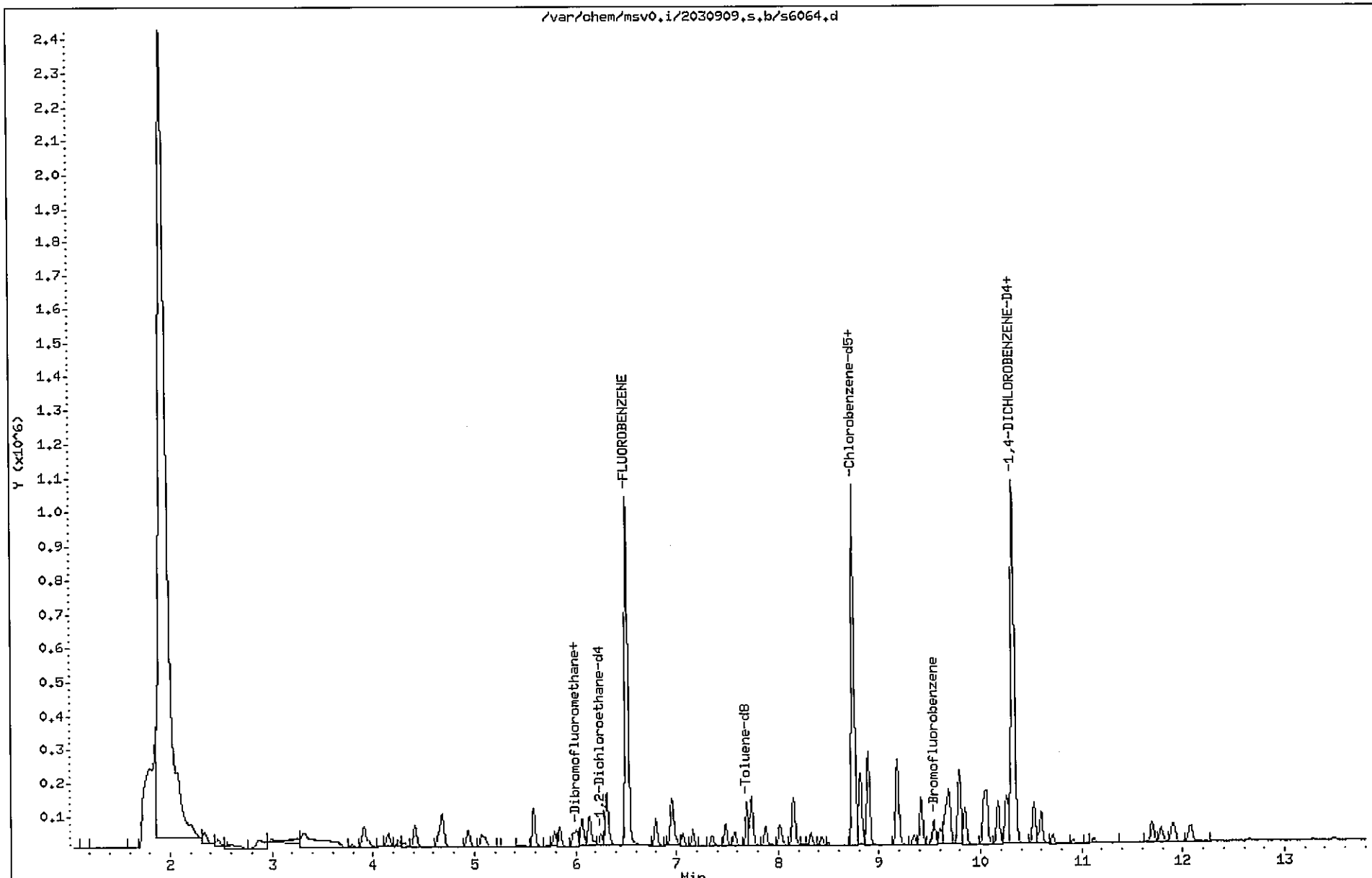
Data File: /var/chem/msv0.i/2030909.s.b/s6064.d
Date : 09-SEP-2003 15:42
Client ID: VOSTD005
Sample Info: 1201MVOSTD005M5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000106



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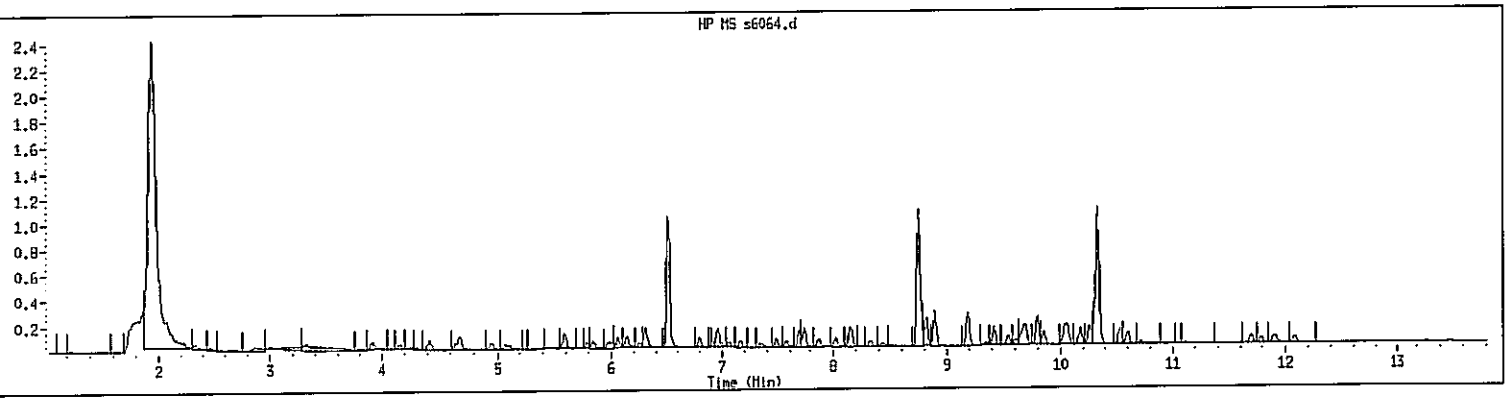
Report Date: 09/11/2003 12:15

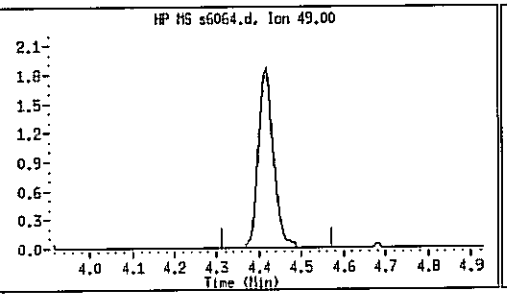
MANUAL INTEGRATION GRAPHIC REPORT

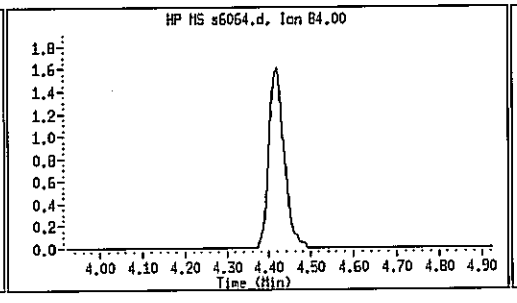
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 09-SEP-2003 15:42	Instrument	: msv0.i
Operator	: RSP		
Sample Info	: 1201*V0STD005*5-1-8		
Misc Info	: MSV~3671~*1*RSP		
Method	: /var/chem/msv0.i/2030909.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b

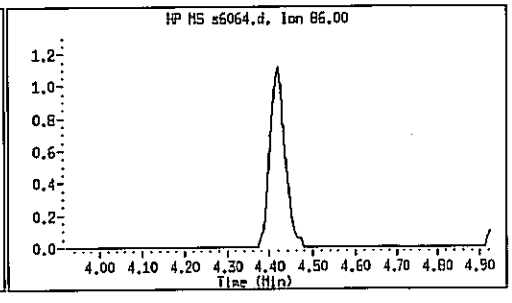


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
13 Methylene Chloride				CAS#: 75-09-2			
4.419	0.679	49	46896	0	0	80-120	100
4.420	0.679	84	0			0- 0	0
4.420	0.679	86	0			0- 0	0







ata File: /var/chem/msv0.i/2030909.s.b/s6065.d
eport Date: 11-Sep-2003 12:15

Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv0.i/2030909.s.b/s6065.d
ab Smp Id: 1202 Client Smp ID: V0STD020
nj Date : 09-SEP-2003 16:04
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mp Info : 1202*V0STD020*5-1-8
isc Info : MSV~3671~*1*RSP
omment :
ethod : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
eth Date : 11-Sep-2003 12:15 rsp Quant Type: ISTD
al Date : 09-SEP-2003 16:04 Cal File: s6065.d
ls bottle: 5 Calibration Sample, Level: 2
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.339	2.339	(0.359)	150406	20.0000	20.0	6237
1 Dichlorodifluoromethane	85	2.120	2.120	(0.326)	96019	20.0000	22.0	2620
3 Vinyl Chloride +	62	2.465	2.465	(0.379)	109257	20.0000	21.4	4476
4 Bromomethane	94	2.849	2.849	(0.438)	64720	20.0000	20.4	6833
5 Chloroethane	64	2.981	2.981	(0.458)	61539	20.0000	18.3	3991
6 Trichlorofluoromethane	101	3.312	3.312	(0.509)	106200	20.0000	21.7	7835
7 Acrolein	56	3.796	3.796	(0.583)	43474	100.000	100	3498
9 1,1,2Trichlotrifluoroethane	101	3.915	3.915	(0.601)	87150	20.0000	22.2	1597
8 1,1-Dichloroethene +	96	3.908	3.908	(0.600)	79640	20.0000	21.4	8643
10 Acetone	43	3.961	3.961	(0.608)	50302	20.0000	20.2	6493
11 Methyl Iodide	142	4.080	4.080	(0.627)	73828	20.0000	18.3	9138
12 Carbon Disulfide	76	4.153	4.153	(0.638)	329780	20.0000	21.5	8782
13 Methylene Chloride	49	4.418	4.418	(0.679)	138068	20.0000	19.4	9017

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.650	4.650	(0.714)	164692	100.000	98.6	6875
15 trans-1,2-Dichloroethene	61	4.683	4.683	(0.719)	128467	20.0000	20.6	8849
16 MTBE	73	4.689	4.689	(0.720)	249994	20.0000	20.2	3772
17 Hexane	57	4.941	4.941	(0.759)	144096	20.0000	20.7	2972(H)
19 Vinyl Acetate	43	4.941	4.941	(0.759)	93347	20.0000	20.3	
18 1,1-Dichloroethane ++	63	5.073	5.073	(0.779)	173496	20.0000	19.5	6094
22 2-Butanone	43	5.583	5.583	(0.858)	78464	20.0000	20.9	
29 Total 1,2-Dichloroethene	61				311516	40.0000	41.7	0
21 cis-1,2-Dichloroethene	61	5.583	5.583	(0.858)	183049	20.0000	21.0	8206
20 2,2-Dichloropropane	77	5.590	5.590	(0.859)	138477	20.0000	21.1	6798
23 Bromochloromethane	128	5.788	5.788	(0.889)	61235	20.0000	22.3	9492
24 Chloroform +	83	5.848	5.848	(0.898)	194044	20.0000	20.2	8658
25 Dibromofluoromethane	111	5.974	5.974	(0.918)	120019	20.0000	20.9	1473(H)
26 1,1,1-Trichloroethane	97	6.014	6.014	(0.924)	149520	20.0000	21.2	8779
27 1,1-Dichloropropene	75	6.139	6.139	(0.943)	154885	20.0000	21.6	6707
28 Carbon Tetrachloride	117	6.146	6.146	(0.944)	116306	20.0000	21.4	8721
30 1,2-Dichloroethane-d4	67	6.252	6.252	(0.960)	62757	20.0000	21.0	9635
32 1,2-Dichloroethane	62	6.312	6.312	(0.969)	138075	20.0000	21.2	6409
31 Benzene	78	6.312	6.312	(0.969)	526577	20.0000	21.1	8308
33 FLUOROBENZENE	96	6.510	6.510	(1.000)	1146073	50.0000		9591
34 Trichloroethene	130	6.795	6.795	(1.044)	134297	20.0000	20.9	8878
35 1,2-Dichloropropane +	63	6.967	6.967	(1.070)	142267	20.0000	21.1	8082
38 2-Chloroethyl vinyl ether	63	7.351	7.351	(1.129)	63153	20.0000	20.9	6739
36 Dibromomethane	93	7.060	7.060	(1.084)	71583	20.0000	20.8	9220
37 Bromodichloromethane	83	7.159	7.159	(1.100)	159091	20.0000	21.1	9739
127 Methyl cyclohexane	83	6.954	6.954	(1.068)	230699	20.0000	22.7	3969
39 cis-1,3-Dichloropropene	75	7.483	7.483	(1.149)	196987	20.0000	20.7	
40 4-methyl-2-pentanone	43	7.570	7.570	(1.163)	141756	20.0000	20.1	
41 Toluene-d8	98	7.695	7.695	(0.880)	447674	20.0000	20.7	8286
42 Toluene +	91	7.742	7.742	(0.885)	542083	20.0000	20.8	8819
43 trans-1,3-Dichloropropene	75	7.874	7.874	(0.900)	166517	20.0000	20.5	
44 1,1,2-Trichloroethane	97	8.020	8.020	(0.917)	111234	20.0000	20.4	8284
45 1,3-Dichloropropane	76	8.146	8.146	(0.931)	195209	20.0000	20.4	8560
47 2-Hexanone	43	8.165	8.165	(0.933)	107225	20.0000	20.1	7517
46 Tetrachloroethene	164	8.152	8.152	(0.932)	98803	20.0000	21.2	9358
48 Dibromochloromethane	129	8.324	8.324	(0.952)	120468	20.0000	20.2	9008
49 1,2-Dibromoethane(EDB)	107	8.430	8.430	(0.964)	108019	20.0000	20.2	5533
50 Chlorobenzene-d5	82	8.748	8.748	(1.000)	452074	50.0000		8436
51 Chlorobenzene ++	112	8.768	8.768	(1.002)	353187	20.0000	20.5	8827
52 1,1,1,2-Tetrachloroethane	133	8.814	8.814	(1.008)	109275	20.0000	20.4	9251
53 Ethylbenzene +	106	8.821	8.821	(1.008)	186897	20.0000	20.8	9259
54 p,m-Xylene	106	8.894	8.894	(1.017)	501123	40.0000	42.4	9142
55 o-Xylene	106	9.178	9.178	(1.049)	236700	20.0000	21.1	
56 Styrene	104	9.185	9.185	(1.050)	412666	20.0000	20.8	8971
57 Bromoform ++	173	9.351	9.351	(1.069)	71627	20.0000	20.1	8498
58 Isopropylbenzene	105	9.423	9.423	(1.077)	599005	20.0000	21.2	9140
59 Bromofluorobenzene	174	9.549	9.549	(1.092)	130746	20.0000	20.5	8975

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60 1,1,2,2-Tetrachloroethane++	83	9.609	9.609	(0.930)	154229	20.0000	20.5	9553
61 trans-1,4-Dichloro-2-Butene	53	9.642	9.642	(0.933)	37995	20.0000	21.5	7664
62 1,2,3-Trichloropropane	75	9.655	9.655	(0.935)	179569	20.0000	20.8	7416
63 Bromobenzene	77	9.675	9.675	(0.937)	318865	20.0000	21.2	8324
64 n-Propylbenzene	91	9.701	9.701	(0.939)	681436	20.0000	21.6	9337
65 2-Chlorotoluene	91	9.788	9.788	(0.947)	432853	20.0000	21.6	9165
66 1,3,5-Trimethylbenzene	105	9.801	9.801	(0.949)	486185	20.0000	21.4	
67 4-Chlorotoluene	91	9.854	9.854	(0.954)	444254	20.0000	21.9	8941
76 TOTAL XYLENE	106				737823	60.0000	63.5	0
68 tert-butylbenzene	91	10.039	10.039	(0.972)	297640	20.0000	21.4	8776
69 1,2,4-Trimethylbenzene	105	10.066	10.066	(0.974)	488383	20.0000	21.1	
70 sec-Butylbenzene	105	10.178	10.178	(0.985)	632540	20.0000	21.3	
71 p-Isopropyltoluene	119	10.258	10.258	(0.993)	499619	20.0000	21.2	9225
72 1,3-Dichlorobenzene	146	10.291	10.291	(0.996)	270294	20.0000	20.5	
73 1,4-DICHLOROBENZENE-D4	152	10.330	10.330	(1.000)	410364	50.0000		9191
74 1,4-Dichlorobenzene	146	10.344	10.344	(1.001)	255618	20.0000	20.4	
75 n-Butylbenzene	91	10.529	10.529	(1.019)	453506	20.0000	21.1	9043
77 1,2-Dichlorobenzene	146	10.602	10.602	(1.026)	239291	20.0000	20.5	
78 1,2-Dibromo-3-Chloropropane	157	11.125	11.125	(1.077)	26165	20.0000	19.3	5633
79 1,2,4-Trichlorobenzene	180	11.708	11.708	(1.133)	146630	20.0000	20.3	
80 Hexachlorobutadiene	225	11.800	11.800	(1.142)	76379	20.0000	21.0	9751
81 Napthalene	128	11.913	11.913	(1.153)	343509	20.0000	19.3	9582
82 1,2,3-Trichlorobenzene	180	12.085	12.085	(1.170)	137259	20.0000	20.2	
97 Cyclohexane	56	6.067	6.067	(0.932)	240362	20.0000	22.2	3989
98 Methyl Acetate	43	4.305	4.305	(0.661)	80089	20.0000	21.0	1926(H)

QC Flag Legend

I - Operator selected an alternate compound hit.

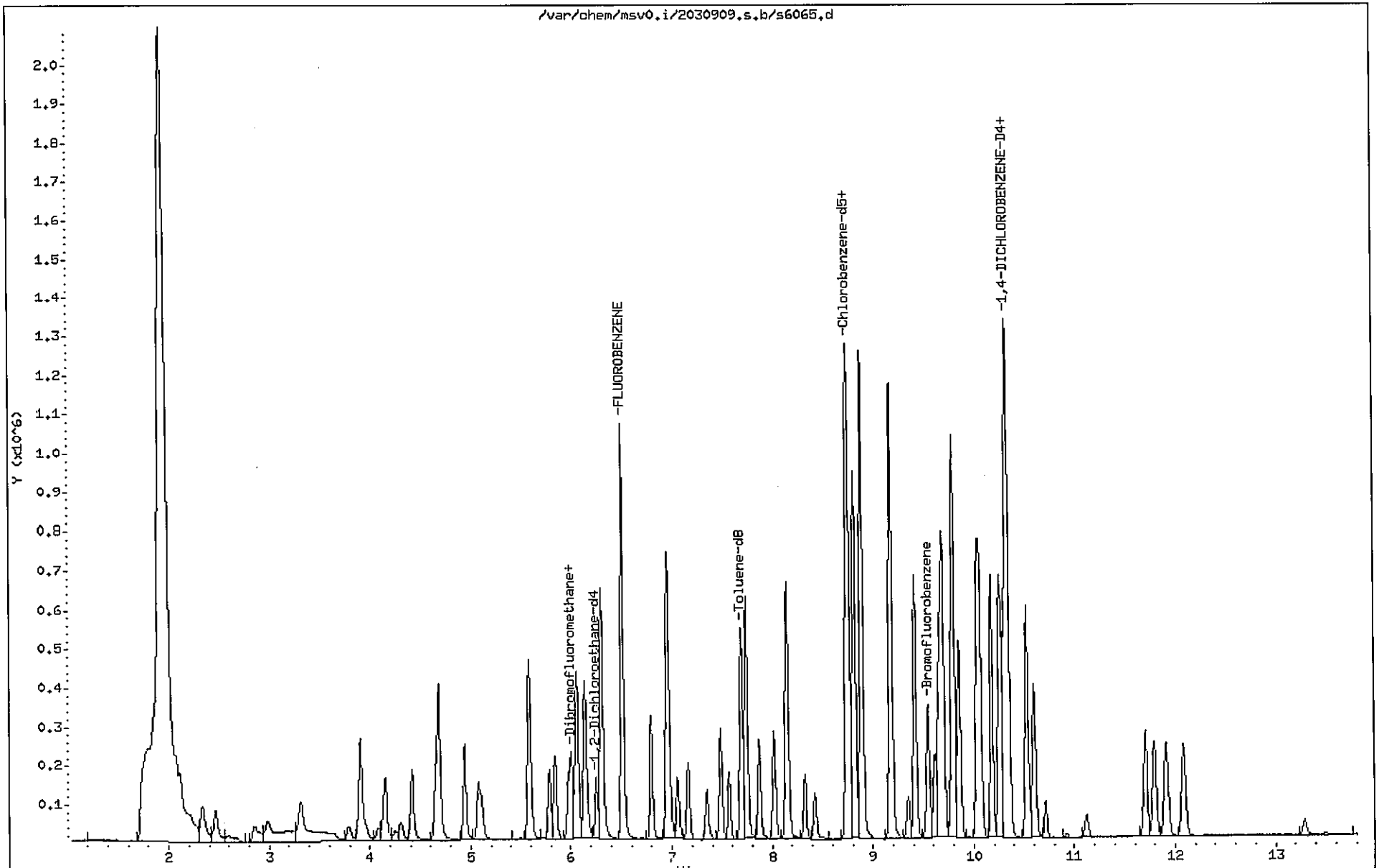
Data File: /var/chem/msv0.i/2030909.s.b/s6065.d
Date : 09-SEP-2003 16:04
Client ID: VOSTD020
Sample Info: 1202WVOSTD020W5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000111



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030909.s.b/s6066.d
Lab Smp Id: 1203 Client Smp ID: V0STD050
Inj Date : 09-SEP-2003 16:26
Operator : RSP Inst ID: msv0.i
Smp Info : 1203*V0STD050*5-1-8
Misc Info : MSV~3671~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 12:15 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 16:26 Cal File: s6066.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.339	2.339	(0.359)	310347	50.0000	50.0	6235
1 Dichlorodifluoromethane	85	2.121	2.121	(0.325)	221985	50.0000	53.7	2787
3 Vinyl Chloride +	62	2.472	2.472	(0.379)	256682	50.0000	53.1	4491
4 Bromomethane	94	2.849	2.849	(0.437)	118388	50.0000	39.3	6974
5 Chloroethane	64	2.988	2.988	(0.458)	130076	50.0000	56.3	4019
6 Trichlorofluoromethane	101	3.319	3.319	(0.509)	248047	50.0000	53.4	7918
7 Acrolein	56	3.796	3.796	(0.582)	102618	250.000	249	3498(A)
9 1,1,2Trichlotrifluoroethane	101	3.908	3.908	(0.600)	199161	50.0000	53.6	2535
8 1,1-Dichloroethene +	96	3.908	3.908	(0.600)	193774	50.0000	54.8	8618
10 Acetone	43	3.961	3.961	(0.608)	91745	50.0000	53.4	6529
11 Methyl Iodide	142	4.087	4.087	(0.627)	223853	50.0000	53.0	9179
12 Carbon Disulfide	76	4.153	4.153	(0.637)	756233	50.0000	51.8	8607
13 Methylene Chloride	49	4.418	4.418	(0.678)	286177	50.0000	54.2	9135

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.650	4.650	(0.714)	384008	250.000	242	6875(A)
15 trans-1,2-Dichloroethene	61	4.690	4.690	(0.720)	296710	50.0000	50.1	8849
16 MTBE	73	4.690	4.690	(0.720)	578852	50.0000	49.2	3742
17 Hexane	57	4.941	4.941	(0.758)	327856	50.0000	49.6	2983(H)
19 Vinyl Acetate	43	4.941	4.941	(0.758)	202226	50.0000	46.3	
18 1,1-Dichloroethane ++	63	5.074	5.074	(0.779)	405599	50.0000	48.1	6047
22 2-Butanone	43	5.583	5.583	(0.857)	170587	50.0000	53.6	
29 Total 1,2-Dichloroethene	61				728368	100.000	103	0
21 cis-1,2-Dichloroethene	61	5.583	5.583	(0.857)	431658	50.0000	52.2	8176
20 2,2-Dichloropropane	77	5.590	5.590	(0.858)	328975	50.0000	52.8	6842
23 Bromochloromethane	128	5.789	5.789	(0.888)	134159	50.0000	51.4	9558
24 Chloroform +	83	5.848	5.848	(0.897)	449510	50.0000	49.3	8648
25 Dibromofluoromethane	111	5.974	5.974	(0.917)	281886	50.0000	51.6	1442(H)
26 1,1,1-Trichloroethane	97	6.007	6.007	(0.922)	350289	50.0000	52.4	8804
27 1,1-Dichloropropene	75	6.140	6.140	(0.942)	358370	50.0000	52.7	6696
28 Carbon Tetrachloride	117	6.153	6.153	(0.944)	271375	50.0000	52.5	9060
30 1,2-Dichloroethane-d4	67	6.252	6.252	(0.959)	144280	50.0000	50.9	9663
32 1,2-Dichloroethane	62	6.312	6.312	(0.968)	316831	50.0000	51.3	6511
31 Benzene	78	6.312	6.312	(0.968)	1228530	50.0000	51.8	8338
33 FLUOROBENZENE	96	6.517	6.517	(1.000)	1087602	50.0000		9562
34 Trichloroethene	130	6.795	6.795	(1.043)	318902	50.0000	52.3	8834
35 1,2-Dichloropropane +	63	6.967	6.967	(1.069)	334076	50.0000	52.1	8177
38 2-Chloroethyl vinyl ether	63	7.351	7.351	(1.128)	158570	50.0000	55.3	6778
36 Dibromomethane	93	7.060	7.060	(1.083)	166511	50.0000	51.1	9366
37 Bromodichloromethane	83	7.166	7.166	(1.100)	358653	50.0000	50.2	9770
127 Methyl cyclohexane	83	6.954	6.954	(1.067)	524565	50.0000	54.3	3975
39 cis-1,3-Dichloropropene	75	7.484	7.484	(1.148)	468311	50.0000	51.8	
40 4-methyl-2-pentanone	43	7.570	7.570	(1.162)	332153	50.0000	49.5	
41 Toluene-d8	98	7.689	7.689	(0.879)	1054615	50.0000	52.2	8248
42 Toluene +	91	7.742	7.742	(0.885)	1244599	50.0000	51.2	8714
43 trans-1,3-Dichloropropene	75	7.874	7.874	(0.900)	387631	50.0000	51.2	
44 1,1,2-Trichloroethane	97	8.020	8.020	(0.917)	261277	50.0000	51.4	8176
45 1,3-Dichloropropane	76	8.146	8.146	(0.931)	457366	50.0000	51.2	8607
47 2-Hexanone	43	8.166	8.166	(0.933)	257286	50.0000	51.8	7573
46 Tetrachloroethene	164	8.152	8.152	(0.932)	227074	50.0000	52.2	9322
48 Dibromochloromethane	129	8.324	8.324	(0.952)	285415	50.0000	51.3	9092
49 1,2-Dibromoethane(EDB)	107	8.430	8.430	(0.964)	255747	50.0000	51.3	5533
50 Chlorobenzene-d5	82	8.748	8.748	(1.000)	421620	50.0000		8436
51 Chlorobenzene ++	112	8.768	8.768	(1.002)	829117	50.0000	51.7	9228
52 1,1,1,2-Tetrachloroethane	133	8.814	8.814	(1.008)	259412	50.0000	52.0	9377
53 Ethylbenzene +	106	8.821	8.821	(1.008)	437755	50.0000	52.2	9211
54 p,m-Xylene	106	8.894	8.894	(1.017)	1160912	100.000	105	9101
55 o-Xylene	106	9.179	9.179	(1.049)	555136	50.0000	52.9	
56 Styrene	104	9.185	9.185	(1.050)	977142	50.0000	52.7	8971
57 Bromoform ++	173	9.351	9.351	(1.069)	171257	50.0000	51.6	8493
58 Isopropylbenzene	105	9.417	9.417	(1.076)	1393265	50.0000	52.9	9135
59 Bromofluorobenzene	174	9.549	9.549	(1.092)	308442	50.0000	51.8	9094

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.609	9.609	(0.930)	359827	50.0000	50.3	9530
61	trans-1,4-Dichloro-2-Butene	53	9.642	9.642	(0.933)	88910	50.0000	52.8	7596
62	1,2,3-Trichloropropane	75	9.655	9.655	(0.935)	425711	50.0000	51.8	7376
63	Bromobenzene	77	9.675	9.675	(0.937)	741925	50.0000	51.8	8453
64	n-Propylbenzene	91	9.695	9.695	(0.938)	1592695	50.0000	53.1	9096
65	2-Chlorotoluene	91	9.788	9.788	(0.947)	1010780	50.0000	52.9	9200
66	1,3,5-Trimethylbenzene	105	9.801	9.801	(0.949)	1135057	50.0000	52.4	
67	4-Chlorotoluene	91	9.854	9.854	(0.954)	1038370	50.0000	53.6	8936
76	TOTAL XYLENE	106				1716048	150.000	158	0
68	tert-butylbenzene	91	10.039	10.039	(0.972)	700166	50.0000	52.9	8714
69	1,2,4-Trimethylbenzene	105	10.066	10.066	(0.974)	1150399	50.0000	52.2	
70	sec-Butylbenzene	105	10.178	10.178	(0.985)	1482268	50.0000	52.4	
71	p-Isopropyltoluene	119	10.258	10.258	(0.993)	1187023	50.0000	52.8	9251
72	1,3-Dichlorobenzene	146	10.291	10.291	(0.996)	651578	50.0000	51.9	
73	1,4-DICHLOROBENZENE-D4	152	10.331	10.331	(1.000)	391008	50.0000		8919
74	1,4-Dichlorobenzene	146	10.344	10.344	(1.001)	606984	50.0000	50.7	
75	n-Butylbenzene	91	10.529	10.529	(1.019)	1064919	50.0000	52.1	9014
77	1,2-Dichlorobenzene	146	10.602	10.602	(1.026)	569013	50.0000	51.1	
78	1,2-Dibromo-3-Chloropropane	157	11.118	11.118	(1.076)	65825	50.0000	50.9	5673
79	1,2,4-Trichlorobenzene	180	11.701	11.701	(1.133)	357897	50.0000	51.9	
80	Hexachlorobutadiene	225	11.794	11.794	(1.142)	178960	50.0000	51.7	9779
81	Napthalene	128	11.906	11.906	(1.153)	891781	50.0000	52.5	9649
82	1,2,3-Trichlorobenzene	180	12.085	12.085	(1.170)	340548	50.0000	52.6	
97	Cyclohexane	56	6.067	6.067	(0.931)	558247	50.0000	54.3	3910
98	Methyl Acetate	43	4.312	4.312	(0.662)	165162	50.0000	51.8	2020(H)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

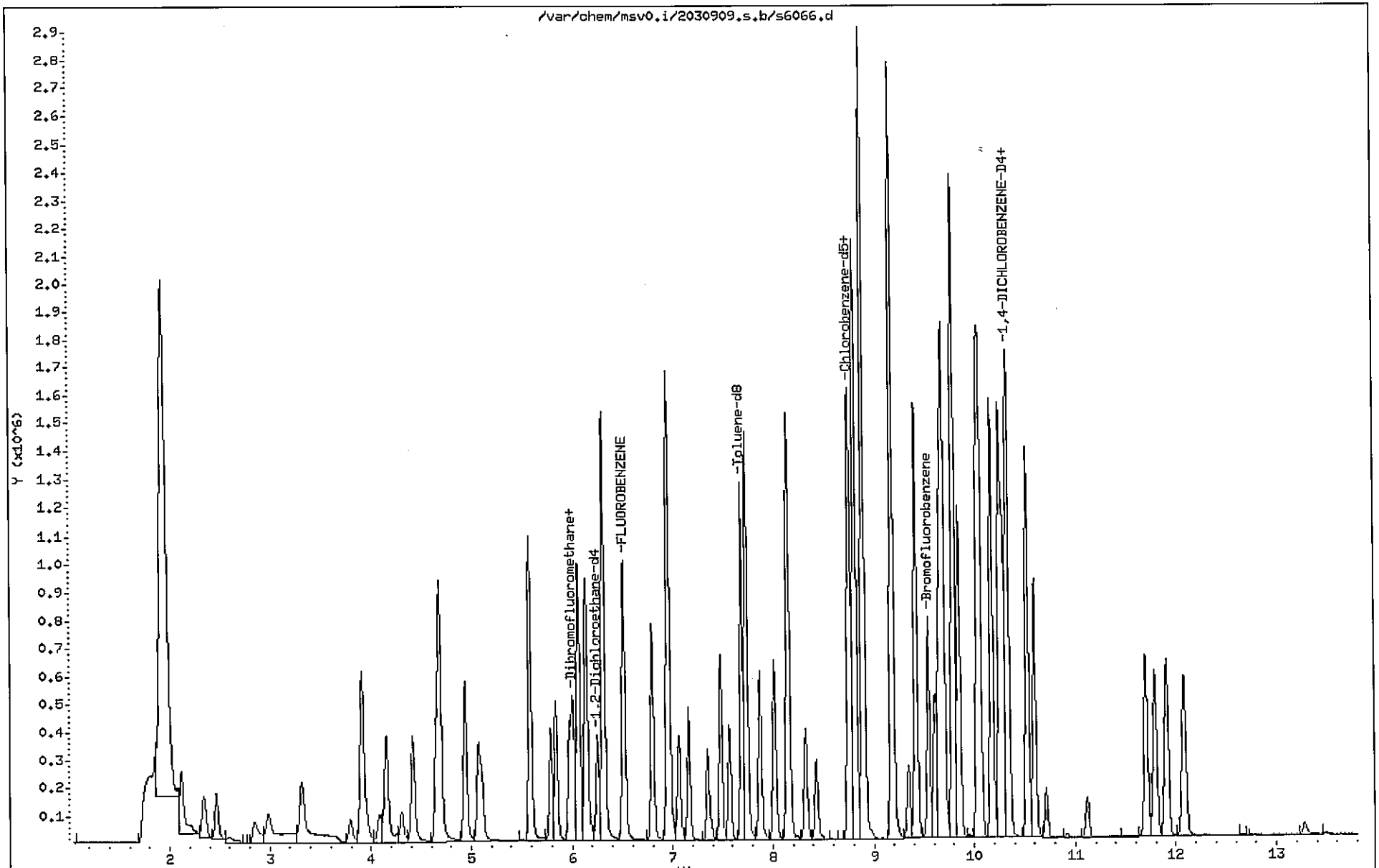
Data File: /var/chem/msv0.i/2030909.s.b/s6066.d
Date : 09-SEP-2003 16:26
Client ID: VOSTD050
Sample Info: 1203MVOSTD050M5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000115



Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv0.i/2030909.s.b/s6067.d
ab Smp Id: 1204 Client Smp ID: V0STD100
nj Date : 09-SEP-2003 16:47
perator : RSP Inst ID: msv0.i
mp Info : 1204*V0STD100*5-1-8
isc Info : MSV~3671~*1*RSP
omment :
ethod : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
eth Date : 11-Sep-2003 12:15 rsp Quant Type: ISTD
al Date : 09-SEP-2003 16:47 Cal File: s6067.d
ls bottle: 7 Calibration Sample, Level: 4
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.334	2.334	(0.358)	624117	100.000	103	6237
1 Dichlorodifluoromethane	85	2.122	2.122	(0.326)	407258	100.000	95.4	2211
3 Vinyl Chloride +	62	2.467	2.467	(0.379)	489521	100.000	98.2	4497
4 Bromomethane	94	2.857	2.857	(0.439)	253930	100.000	81.7	6939
5 Chloroethane	64	2.990	2.990	(0.459)	237237	100.000	109	4019
6 Trichlorofluoromethane	101	3.321	3.321	(0.510)	462324	100.000	96.5	7889
7 Acrolein	56	3.797	3.797	(0.583)	201091	500.000	473	3527(A)
9 1,1,2Trichlotrifluoroethane	101	3.910	3.910	(0.600)	371754	100.000	96.9	2584
8 1,1-Dichloroethene +	96	3.910	3.910	(0.600)	354734	100.000	97.3	8637
10 Acetone	43	3.963	3.963	(0.609)	156816	100.000	98.8	6529
11 Methyl Iodide	142	4.082	4.082	(0.627)	438698	100.000	98.4	9205
12 Carbon Disulfide	76	4.155	4.155	(0.638)	1440162	100.000	95.7	8586
13 Methylene Chloride	49	4.420	4.420	(0.679)	526094	100.000	104	9088

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.651	4.651	(0.714)	945784	500.000	578	6875(A)
15 trans-1,2-Dichloroethene	61	4.685	4.685	(0.719)	695824	100.000	114	8849
16 MTBE	73	4.685	4.685	(0.719)	1362717	100.000	112	3662
17 Hexane	57	4.943	4.943	(0.759)	760468	100.000	111	2861(H)
19 Vinyl Acetate	43	4.943	4.943	(0.759)	489071	100.000	109	
18 1,1-Dichloroethane ++	63	5.082	5.082	(0.780)	957262	100.000	110	6022
22 2-Butanone	43	5.585	5.585	(0.858)	303858	100.000	95.9	
29 Total 1,2-Dichloroethene	61				1533654	200.000	210	0
21 cis-1,2-Dichloroethene	61	5.585	5.585	(0.858)	837830	100.000	98.2	8186
20 2,2-Dichloropropane	77	5.592	5.592	(0.859)	610494	100.000	94.9	6724
23 Bromochloromethane	128	5.790	5.790	(0.889)	244839	100.000	91.0	9533
24 Chloroform +	83	5.843	5.843	(0.897)	865428	100.000	92.0	8719
25 Dibromofluoromethane	111	5.976	5.976	(0.918)	550214	100.000	97.6	1577(H)
26 1,1,1-Trichloroethane	97	6.015	6.015	(0.924)	677337	100.000	98.1	8779
27 1,1-Dichloropropene	75	6.141	6.141	(0.943)	681955	100.000	97.3	6685
28 Carbon Tetrachloride	117	6.148	6.148	(0.944)	525594	100.000	98.6	8828
30 1,2-Dichloroethane-d4	67	6.254	6.254	(0.960)	287237	100.000	98.2	9644
32 1,2-Dichloroethane	62	6.313	6.313	(0.969)	615392	100.000	96.7	6411
31 Benzene	78	6.307	6.307	(0.968)	2360494	100.000	96.5	8387
33 FLUOROBENZENE	96	6.512	6.512	(1.000)	1121996	50.0000		9595
34 Trichloroethene	130	6.797	6.797	(1.044)	619534	100.000	98.5	8786
35 1,2-Dichloropropane +	63	6.969	6.969	(1.070)	640557	100.000	96.9	8301
38 2-Chloroethyl vinyl ether	63	7.346	7.346	(1.128)	245751	100.000	83.0	6748
36 Dibromomethane	93	7.061	7.061	(1.084)	324281	100.000	96.4	9385
37 Bromodichloromethane	83	7.161	7.161	(1.100)	725942	100.000	98.5	9742
127 Methyl cyclohexane	83	6.956	6.956	(1.068)	987505	100.000	99.1	3967
39 cis-1,3-Dichloropropene	75	7.485	7.485	(1.149)	903410	100.000	96.9	
40 4-methyl-2-pentanone	43	7.571	7.571	(1.163)	650453	100.000	94.0	
41 Toluene-d8	98	7.690	7.690	(0.879)	2038264	100.000	97.4	8214
42 Toluene +	91	7.743	7.743	(0.885)	2457223	100.000	97.6	8678
43 trans-1,3-Dichloropropene	75	7.876	7.876	(0.900)	759317	100.000	96.7	
44 1,1,2-Trichloroethane	97	8.021	8.021	(0.917)	511443	100.000	97.0	8112
45 1,3-Dichloropropane	76	8.147	8.147	(0.931)	898065	100.000	97.0	8547
47 2-Hexanone	43	8.161	8.161	(0.933)	471369	100.000	91.6	7167
46 Tetrachloroethene	164	8.154	8.154	(0.932)	447705	100.000	99.4	9094
48 Dibromochloromethane	129	8.326	8.326	(0.952)	566022	100.000	98.2	9020
49 1,2-Dibromoethane(EDB)	107	8.432	8.432	(0.964)	503010	100.000	97.4	5533
50 Chlorobenzene-d5	82	8.750	8.750	(1.000)	436903	50.0000		8249
51 Chlorobenzene ++	112	8.770	8.770	(1.002)	1627904	100.000	97.9	9196
52 1,1,1,2-Tetrachloroethane	133	8.816	8.816	(1.008)	505568	100.000	97.8	9385
53 Ethylbenzene +	106	8.823	8.823	(1.008)	859718	100.000	99.0	9168
54 p,m-Xylene	106	8.895	8.895	(1.017)	2241249	200.000	196	9065
55 o-Xylene	106	9.180	9.180	(1.049)	1073229	100.000	98.8	
56 Styrene	104	9.187	9.187	(1.050)	1908635	100.000	99.4	9027
57 Bromoform ++	173	9.346	9.346	(1.068)	344847	100.000	100	8481
58 Isopropylbenzene	105	9.418	9.418	(1.076)	2720949	100.000	99.7	9088
59 Bromofluorobenzene	174	9.544	9.544	(1.091)	615644	100.000	99.7	9031

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.610	9.610	(0.930)	715054	100.000	95.4	9576
61	trans-1,4-Dichloro-2-Butene	53	9.637	9.637	(0.933)	157341	100.000	89.2	8094
62	1,2,3-Trichloropropane	75	9.657	9.657	(0.935)	816959	100.000	95.0	7330
63	Bromobenzene	77	9.670	9.670	(0.936)	1439048	100.000	96.0	8313
64	n-Propylbenzene	91	9.697	9.697	(0.938)	3096010	100.000	98.5	9199
65	2-Chlorotoluene	91	9.789	9.789	(0.947)	1937381	100.000	96.8	9194
66	1,3,5-Trimethylbenzene	105	9.803	9.803	(0.949)	2217993	100.000	97.7	
67	4-Chlorotoluene	91	9.855	9.855	(0.954)	1873173	100.000	92.4	9017
76	TOTAL XYLENE	106				3314478	300.000	295	0
68	tert-butylbenzene	91	10.034	10.034	(0.971)	1362545	100.000	98.2	8667
69	1,2,4-Trimethylbenzene	105	10.061	10.061	(0.974)	2262206	100.000	98.0	
70	sec-Butylbenzene	105	10.180	10.180	(0.985)	2990729	100.000	101	
71	p-Isopropyltoluene	119	10.259	10.259	(0.993)	2362432	100.000	100	9244
72	1,3-Dichlorobenzene	146	10.292	10.292	(0.996)	1313937	100.000	99.8	
73	1,4-DICHLOROBENZENE-D4	152	10.332	10.332	(1.000)	409503	50.0000		8143
74	1,4-Dichlorobenzene	146	10.345	10.345	(1.001)	1238179	100.000	98.8	
75	n-Butylbenzene	91	10.531	10.531	(1.019)	2130651	100.000	99.5	8973
77	1,2-Dichlorobenzene	146	10.604	10.604	(1.026)	1142164	100.000	98.0	
78	1,2-Dibromo-3-Chloropropane	157	11.120	11.120	(1.076)	130850	100.000	96.6	5688
79	1,2,4-Trichlorobenzene	180	11.703	11.703	(1.133)	708133	100.000	98.1	
80	Hexachlorobutadiene	225	11.795	11.795	(1.142)	380069	100.000	105	9769
81	Napthalene	128	11.908	11.908	(1.153)	1705503	100.000	95.9	9689
82	1,2,3-Trichlorobenzene	180	12.080	12.080	(1.169)	673687	100.000	99.3	
97	Cyclohexane	56	6.062	6.062	(0.931)	1053172	100.000	99.3	3857
98	Methyl Acetate	43	4.307	4.307	(0.661)	312557	100.000	99.3	1875(H)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

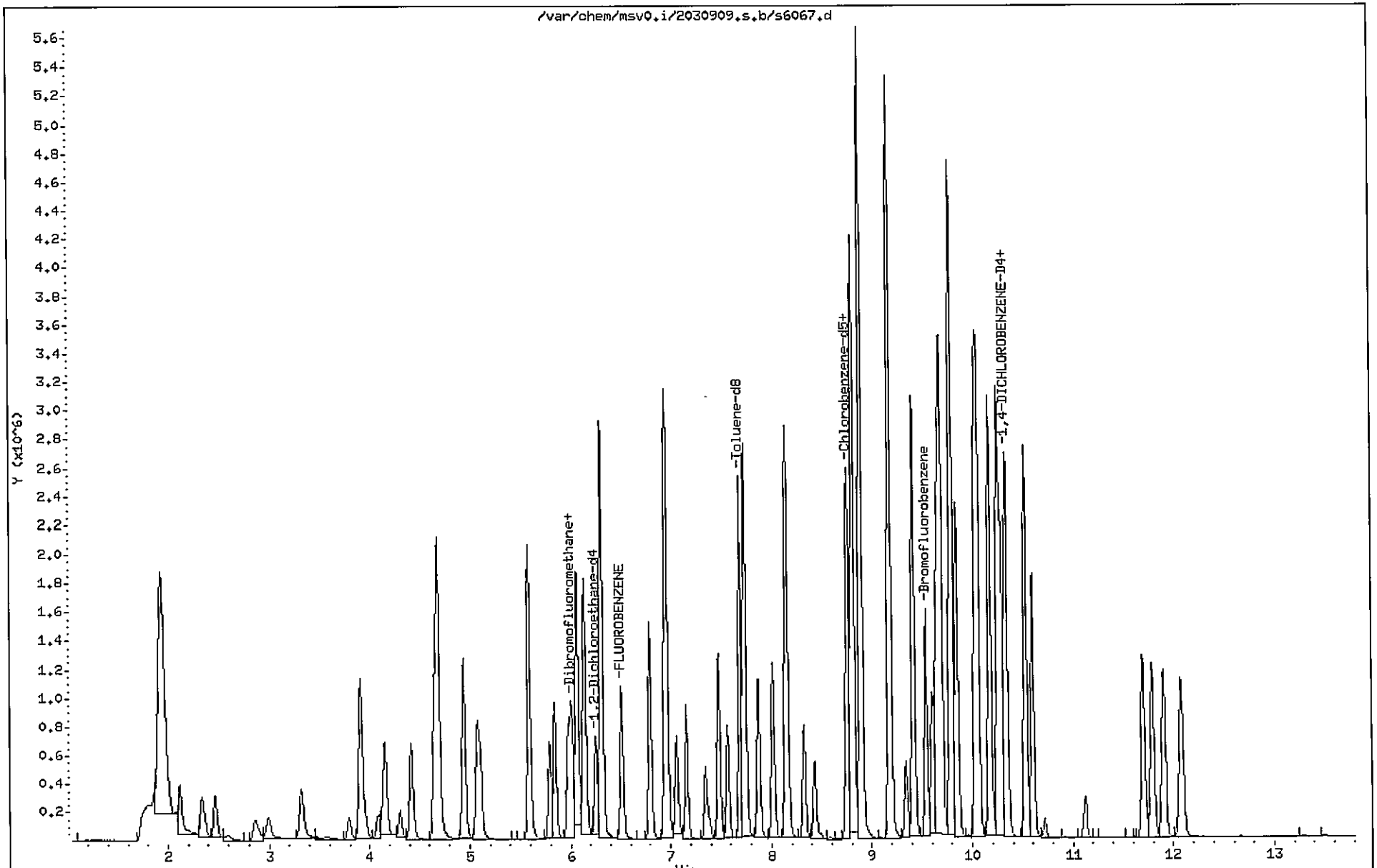
Data File: /var/chem/msv0.i/2030909.s.b/s6067.d
Date : 09-SEP-2003 16:47
Client ID: VOSTD100
Sample Info: 1204*VOSTD100*5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000119



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030909.s.b/s6068.d
Lab Smp Id: 1205 Client Smp ID: V0STD200
Inj Date : 09-SEP-2003 17:09
Operator : RSP Inst ID: msv0.i
Smp Info : 1205*V0STD200*5-1-8
Misc Info : MSV~3671~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 12:16 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Vials bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.327	2.327	(0.357)	1146196	200.000	199	6237
1 Dichlorodifluoromethane	85	2.115	2.115	(0.325)	774464	200.000	186	1876
3 Vinyl Chloride +	62	2.466	2.466	(0.379)	868227	200.000	179	4491
4 Bromomethane	94	2.837	2.837	(0.436)	326726	200.000	108	7121
5 Chloroethane	64	2.976	2.976	(0.457)	388488	200.000	193	4019
6 Trichlorofluoromethane	101	3.314	3.314	(0.509)	853567	200.000	183	7868
7 Acrolein	56	3.790	3.790	(0.582)	421588	1000.00	1020	3528(A)
9 1,1,2Trichlotrifluoroethane	101	3.903	3.903	(0.599)	699494	200.000	187	2037
8 1,1-Dichloroethene +	96	3.909	3.909	(0.600)	621281	200.000	175	8626
10 Acetone	43	3.956	3.956	(0.608)	286820	200.000	200	6529
11 Methyl Iodide	142	4.082	4.082	(0.627)	879281	200.000	200	9201(A)
12 Carbon Disulfide	76	4.148	4.148	(0.637)	2545649	200.000	174	8531
13 Methylene Chloride	49	4.413	4.413	(0.678)	923944	200.000	197	9045

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14	Acrylonitrile	53	4.644	4.644	(0.713)	1473376	1000.00	926	6875(A)
15	trans-1,2-Dichloroethene	61	4.684	4.684	(0.719)	979746	200.000	165	8849
16	MTBE	73	4.684	4.684	(0.719)	2154442	200.000	182	3677
17	Hexane	57	4.936	4.936	(0.758)	1358497	200.000	205	2855(AH)
19	Vinyl Acetate	43	4.936	4.936	(0.758)	854560	200.000	195	
18	1,1-Dichloroethane ++	63	5.075	5.075	(0.779)	1696528	200.000	201	6016(A)
22	2-Butanone	43	5.585	5.585	(0.858)	604755	200.000	201	(A)
29	Total 1,2-Dichloroethene	61				2487166	400.000	349	0
21	cis-1,2-Dichloroethene	61	5.585	5.585	(0.858)	1507420	200.000	182	8171
20	2,2-Dichloropropane	77	5.585	5.585	(0.858)	1126873	200.000	180	6684
23	Bromochloromethane	128	5.790	5.790	(0.889)	450223	200.000	172	9499
24	Chloroform +	83	5.843	5.843	(0.897)	1584749	200.000	173	8675
25	Dibromofluoromethane	111	5.975	5.975	(0.918)	1016207	200.000	185	1513(H)
26	1,1,1-Trichloroethane	97	6.008	6.008	(0.923)	1214669	200.000	181	8782
27	1,1-Dichloropropene	75	6.134	6.134	(0.942)	1217052	200.000	178	6672
28	Carbon Tetrachloride	117	6.147	6.147	(0.944)	950795	200.000	183	8934
30	1,2-Dichloroethane-d4	67	6.253	6.253	(0.960)	543627	200.000	191	9610
32	1,2-Dichloroethane	62	6.313	6.313	(0.969)	1159424	200.000	187	6411
31	Benzene	78	6.306	6.306	(0.968)	4259714	200.000	179	8350
33	FLUOROBENZENE	96	6.511	6.511	(1.000)	1091609	50.0000		9604
34	Trichloroethene	130	6.796	6.796	(1.044)	1108055	200.000	181	8746
35	1,2-Dichloropropane +	63	6.968	6.968	(1.070)	1177766	200.000	183	8351
38	2-Chloroethyl vinyl ether	63	7.352	7.352	(1.129)	561508	200.000	195	6787
36	Dibromomethane	93	7.061	7.061	(1.084)	629661	200.000	192	9358
37	Bromodichloromethane	83	7.160	7.160	(1.100)	1366922	200.000	191	9765
127	Methyl cyclohexane	83	6.955	6.955	(1.068)	1917619	200.000	198	3957
39	cis-1,3-Dichloropropene	75	7.485	7.485	(1.149)	1728473	200.000	190	
40	4-methyl-2-pentanone	43	7.571	7.571	(1.163)	1306505	200.000	194	
41	Toluene-d8	98	7.690	7.690	(0.879)	3675968	200.000	186	8179
42	Toluene +	91	7.743	7.743	(0.885)	4460112	200.000	188	8658
43	trans-1,3-Dichloropropene	75	7.875	7.875	(0.900)	1469985	200.000	198	
44	1,1,2-Trichloroethane	97	8.021	8.021	(0.917)	986351	200.000	198	8102
45	1,3-Dichloropropane	76	8.147	8.147	(0.931)	1682389	200.000	192	8508
47	2-Hexanone	43	8.160	8.160	(0.933)	918575	200.000	189	7262
46	Tetrachloroethene	164	8.153	8.153	(0.932)	814722	200.000	192	9106
48	Dibromochloromethane	129	8.326	8.326	(0.952)	1097662	200.000	202	9017(A)
49	1,2-Dibromoethane(EDB)	107	8.425	8.425	(0.963)	989530	200.000	203	5533(A)
50	Chlorobenzene-d5	82	8.749	8.749	(1.000)	412420	50.0000		7911
51	Chlorobenzene ++	112	8.769	8.769	(1.002)	3010737	200.000	192	9186
52	1,1,1,2-Tetrachloroethane	133	8.816	8.816	(1.008)	957359	200.000	196	9340
53	Ethylbenzene +	106	8.822	8.822	(1.008)	1563122	200.000	191	9142
54	p,m-Xylene	106	8.895	8.895	(1.017)	4003421	400.000	371	9004(A)
55	o-Xylene	106	9.180	9.180	(1.049)	1912438	200.000	186	
56	Styrene	104	9.186	9.186	(1.050)	3455793	200.000	191	9017
57	Bromoform ++	173	9.345	9.345	(1.068)	678960	200.000	209	8502(A)
58	Isopropylbenzene	105	9.418	9.418	(1.076)	4908798	200.000	190	9053
59	Bromofluorobenzene	174	9.550	9.550	(1.092)	1133706	200.000	195	9210

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.610	9.610	(0.930)	1403370	200.000	199	9563
61	trans-1,4-Dichloro-2-Butene	53	9.643	9.643	(0.933)	327942	200.000	198	7502
62	1,2,3-Trichloropropane	75	9.656	9.656	(0.935)	1553889	200.000	192	7316
63	Bromobenzene	77	9.670	9.670	(0.936)	2627188	200.000	187	8303
64	n-Propylbenzene	91	9.696	9.696	(0.938)	5520533	200.000	187	9150
65	2-Chlorotoluene	91	9.789	9.789	(0.947)	3407106	200.000	181	9157
66	1,3,5-Trimethylbenzene	105	9.802	9.802	(0.949)	3921728	200.000	184	
67	4-Chlorotoluene	91	9.855	9.855	(0.954)	3403633	200.000	179	9018
76	TOTAL XYLENE	106				5915859	600.000	558	0
68	tert-butylbenzene	91	10.034	10.034	(0.971)	2417959	200.000	186	8628
69	1,2,4-Trimethylbenzene	105	10.060	10.060	(0.974)	4065528	200.000	188	
70	sec-Butylbenzene	105	10.179	10.179	(0.985)	5378891	200.000	193	
71	p-Isopropyltoluene	119	10.259	10.259	(0.993)	4246296	200.000	192	9215
72	1,3-Dichlorobenzene	146	10.292	10.292	(0.996)	2387984	200.000	193	
73	1,4-DICHLOROBENZENE-D4	152	10.332	10.332	(1.000)	384511	50.0000		7106
74	1,4-Dichlorobenzene	146	10.345	10.345	(1.001)	2253871	200.000	192	
75	n-Butylbenzene	91	10.530	10.530	(1.019)	3879669	200.000	193	8953
77	1,2-Dichlorobenzene	146	10.603	10.603	(1.026)	2131229	200.000	195	
78	1,2-Dibromo-3-Chloropropane	157	11.120	11.120	(1.076)	269065	200.000	212	5671(A)
79	1,2,4-Trichlorobenzene	180	11.702	11.702	(1.133)	1318573	200.000	195	
80	Hexachlorobutadiene	225	11.795	11.795	(1.142)	719500	200.000	211	9736(A)
81	Napthalene	128	11.907	11.907	(1.153)	3522341	200.000	211	9682(A)
82	1,2,3-Trichlorobenzene	180	12.080	12.080	(1.169)	1255372	200.000	197	
97	Cyclohexane	56	6.061	6.061	(0.931)	1977381	200.000	192	3841
98	Methyl Acetate	43	4.307	4.307	(0.661)	596532	200.000	200	1737(H)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

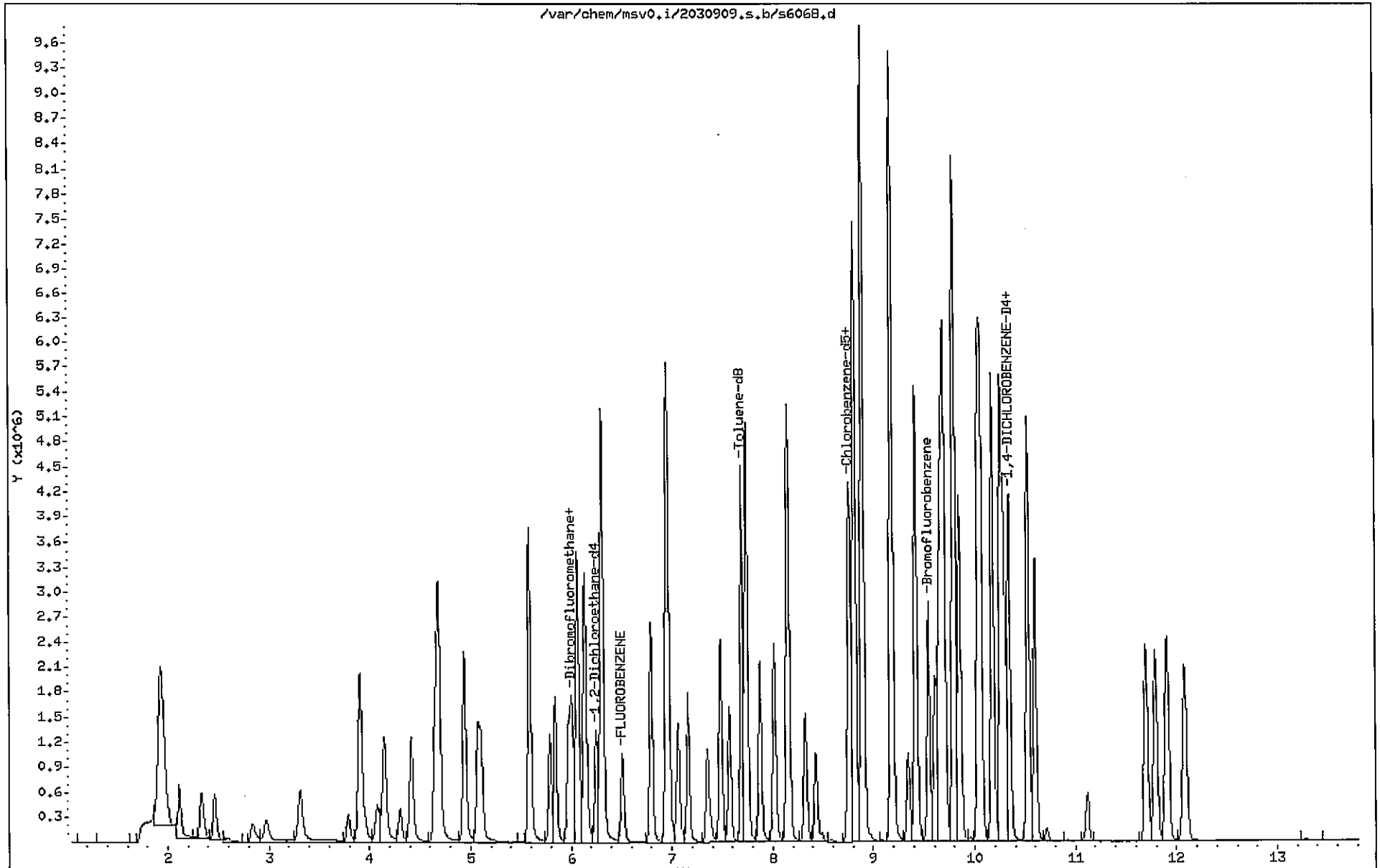
Data File: /var/chem/msv0.i/2030909.s.b/s6068.d
Date : 09-SEP-2003 17:09
Client ID: VOSTD200
Sample Info: 1205*VOSTD200*5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000123



Data File: /var/chem/msv0.i/2030909.s.b/s6070.d
Report Date: 12-Sep-2003 09:22

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv0.i/2030909.s.b/8260Bs0.m
Misc Info: MSV~3671~*1*RSP

Client SDG: 2030909.s
Fraction: VOA
Client Smp ID: VOSTD050
Operator: RJO
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	51.7	103.50	80-120
	2 Chloromethane ++	50.0	60.5	121.10*	80-120
	3 Vinyl Chloride +	50.0	53.2	106.41	80-120
	4 Bromomethane	50.0	44.3	88.68	80-120
	5 Chloroethane	50.0	52.5	105.08	80-120
	6 Trichlorofluoromet	50.0	52.7	105.48	80-120
	7 Acrolein	250	316	126.57*	80-120
	8 1,1-Dichloroethene	50.0	59.2	118.39	80-120
	9 1,1,2Trichlotriflu	50.0	58.5	116.97	80-120
	10 Acetone	50.0	81.4	162.72*	80-120
	11 Methyl Iodide	50.0	57.9	115.81	80-120
	12 Carbon Disulfide	50.0	62.6	125.25*	80-120
	13 Methylene Chloride	50.0	69.8	139.58*	80-120
	14 Acrylonitrile	250	418	167.36*	80-120
	15 trans-1,2-Dichloro	50.0	61.8	123.58*	80-120
	16 MTBE	50.0	64.5	129.01*	80-120
	17 Hexane	50.0	60.4	120.74*	80-120
	18 1,1-Dichloroethane	50.0	58.2	116.49	80-120
	19 Vinyl Acetate	50.0	58.5	116.92	80-120
	21 cis-1,2-Dichloroet	50.0	52.1	104.26	80-120
	20 2,2-Dichloropropan	50.0	47.8	95.61	80-120
	22 2-Butanone	50.0	70.7	141.35*	80-120
	23 Bromochloromethane	50.0	49.6	99.19	80-120
	24 Chloroform +	50.0	48.8	97.68	80-120
	26 1,1,1-Trichloroeth	50.0	50.1	100.16	80-120
	27 1,1-Dichloropropen	50.0	51.1	102.25	80-120
	28 Carbon Tetrachlori	50.0	51.4	102.89	80-120
M	29 Total 1,2-Dichloro	100	112	112.31	80-120
	31 Benzene	50.0	51.4	102.74	80-120
	32 1,2-Dichloroethane	50.0	53.4	106.84	80-120
	34 Trichloroethene	50.0	52.1	104.14	80-120
	35 1,2-Dichloropropan	50.0	51.0	102.09	80-120
	36 Dibromomethane	50.0	52.2	104.32	80-120

	SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	37	Bromodichlorometha	50.0	51.9	103.83	80-120
	127	Methyl cyclohexane	50.0	51.9	103.90	80-120
	38	2-Chloroethyl viny	50.0	42.7	85.36	80-120
	39	cis-1,3-Dichloropr	50.0	51.1	102.27	80-120
	40	4-methyl-2-pentano	50.0	63.6	127.12*	80-120
	42	Toluene +	50.0	50.1	100.18	80-120
	43	trans-1,3-Dichloro	50.0	51.1	102.22	80-120
	44	1,1,2-Trichloroeth	50.0	54.0	108.07	80-120
	45	1,3-Dichloropropan	50.0	53.7	107.38	80-120
	46	Tetrachloroethene	50.0	50.1	100.20	80-120
	47	2-Hexanone	50.0	65.6	131.19*	80-120
	48	Dibromochlorometha	50.0	53.3	106.51	80-120
	49	1,2-Dibromoethane(	50.0	54.4	108.89	80-120
	51	Chlorobenzene ++	50.0	50.8	101.65	80-120
	52	1,1,1,2-Tetrachlor	50.0	51.9	103.77	80-120
	53	Ethylbenzene +	50.0	50.2	100.38	80-120
	54	p,m-Xylene	100	99.1	99.15	80-120
	55	o-Xylene	50.0	51.1	102.30	80-120
	56	Styrene	50.0	51.3	102.64	80-120
	57	Bromoform ++	50.0	57.5	114.95	80-120
	58	Isopropylbenzene	50.0	50.3	100.68	80-120
M	76	TOTAL XYLENE	150	150	100.20	80-120
	60	1,1,2,2-Tetrachlor	50.0	56.4	112.87	80-120
	61	trans-1,4-Dichloro	50.0	55.5	111.01	80-120
	63	Bromobenzene	50.0	52.8	105.61	80-120
	62	1,2,3-Trichloropro	50.0	59.5	119.03	80-120
	64	n-Propylbenzene	50.0	50.3	100.68	80-120
	65	2-Chlorotoluene	50.0	50.4	100.88	80-120
	66	1,3,5-Trimethylben	50.0	50.9	101.86	80-120
	67	4-Chlorotoluene	50.0	47.6	95.22	80-120
	68	tert-butylbenzene	50.0	50.0	100.10	80-120
	71	p-Isopropyltoluene	50.0	50.4	100.90	80-120
	69	1,2,4-Trimethylben	50.0	50.0	100.08	80-120
	70	sec-Butylbenzene	50.0	50.4	100.87	80-120
	72	1,3-Dichlorobenzen	50.0	50.1	100.24	80-120
	74	1,4-Dichlorobenzen	50.0	52.0	104.07	80-120
	75	n-Butylbenzene	50.0	48.9	97.85	80-120
	77	1,2-Dichlorobenzen	50.0	51.2	102.40	80-120
	78	1,2-Dibromo-3-Chlo	50.0	65.6	131.25*	80-120
	79	1,2,4-Trichloroben	50.0	49.8	99.64	80-120
	80	Hexachlorobutadien	50.0	49.3	98.66	80-120
	82	1,2,3-Trichloroben	50.0	51.9	103.89	80-120
	97	Cyclohexane	50.0	52.2	104.50	80-120
	98	Methyl Acetate	50.0	96.8	193.60*	80-120

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

lient Name:
ample Matrix: SOLID
ab Smp Id: ICV
evel: LOW
ata Type: MS DATA
pikeList File: CH2-ICV.spk
ublist File: 8260b.sub
ethod File: /var/chem/msv0.i/2030909.s.b/8260Bs0.m
isc Info: MSV~3671~*1*RSP

Client SDG: 2030909.s
Fraction: VOA
Client Smp ID: V0STD050
Operator: RJO
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.0	51.5	103.09	70-130
$ 30 1,2-Dichloroethane	50.0	54.1	108.23	60-140
$ 41 Toluene-d8	50.0	51.2	102.30	65-128
$ 59 Bromofluorobenzene	50.0	50.8	101.56	73-138

Data File: /var/chem/msv0.i/2030909.s.b/s6070.d
Report Date: 12-Sep-2003 09:22

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030909.s.b/s6070.d
Lab Smp Id: ICV Client Smp ID: V0STD050
Inj Date : 09-SEP-2003 18:30
Operator : RJO Inst ID: msv0.i
Smp Info : ICV*V0STD050
Misc Info : MSV~3671~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030909.s.b/8260Bs0.m
Meth Date : 12-Sep-2003 09:21 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
2 Chloromethane ++	50	2.343	2.327	(0.360)	389397	60.5482	60.5	6237(R)
1 Dichlorodifluoromethane	85	2.125	2.115	(0.326)	225627	51.7479	51.7	2620
3 Vinyl Chloride +	62	2.476	2.466	(0.380)	271043	53.2046	53.2	4497
4 Bromomethane	94	2.860	2.837	(0.439)	140709	44.3415	44.3	6880
5 Chloroethane	64	2.999	2.976	(0.460)	129537	52.5379	52.5	4019
6 Trichlorofluoromethane	101	3.317	3.314	(0.509)	258236	52.7410	52.7	7879
7 Acrolein	56	3.793	3.790	(0.582)	137495	316.425	316	3498(AR)
9 1,1,2Trichlotrifluoroethane	101	3.906	3.903	(0.600)	229159	58.4838	58.5	2822
8 1,1-Dichloroethene +	96	3.912	3.909	(0.601)	220413	59.1974	59.2	8610
10 Acetone	43	3.959	3.956	(0.608)	135780	81.3605	81.4	6526(R)
11 Methyl Iodide	142	4.085	4.082	(0.627)	258913	57.9038	57.9	9231
12 Carbon Disulfide	76	4.157	4.148	(0.638)	962609	62.6239	62.6	8673(R)
13 Methylene Chloride	49	4.422	4.413	(0.679)	374781	69.7887	69.8	9226(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
14 Acrylonitrile	53	4.654	4.644	(0.714)	698950	418.402	418	6875(AR)
15 trans-1,2-Dichloroethene	61	4.687	4.684	(0.719)	385249	61.7879	61.8	8849(R)
16 MTBE	73	4.680	4.684	(0.718)	799671	64.5029	64.5	3601(R)
17 Hexane	57	4.939	4.936	(0.758)	420743	60.3684	60.4	2924(RH)
19 Vinyl Acetate	43	4.939	4.936	(0.758)	268987	58.4586	58.5	
18 1,1-Dichloroethane ++	63	5.078	5.075	(0.779)	517047	58.2443	58.2	6036
22 2-Butanone	43	5.581	5.585	(0.857)	232416	70.6752	70.7	(R)
29 Total 1,2-Dichloroethene	61				839608	112.314	112	0
21 cis-1,2-Dichloroethene	61	5.588	5.585	(0.858)	454359	52.1292	52.1	8170
20 2,2-Dichloropropane	77	5.588	5.585	(0.858)	314140	47.8054	47.8	6555
23 Bromochloromethane	128	5.793	5.790	(0.889)	136315	49.5973	49.6	9482
24 Chloroform +	83	5.846	5.843	(0.897)	469179	48.8404	48.8	8723
25 Dibromofluoromethane	111	5.972	5.975	(0.917)	296712	51.5459	51.5	1465(H)
26 1,1,1-Trichloroethane	97	6.011	6.008	(0.923)	353073	50.0815	50.1	8779
27 1,1-Dichloropropene	75	6.137	6.134	(0.942)	366060	51.1260	51.1	6687
28 Carbon Tetrachloride	117	6.150	6.147	(0.944)	280085	51.4474	51.4	9047
30 1,2-Dichloroethane-d4	67	6.250	6.253	(0.959)	161656	54.1132	54.1	9613
32 1,2-Dichloroethane	62	6.309	6.313	(0.968)	347452	53.4209	53.4	6411
31 Benzene	78	6.309	6.306	(0.968)	1283425	51.3704	51.4	8272
33 FLUOROBENZENE	96	6.514	6.511	(1.000)	1146134	50.0000		9543
34 Trichloroethene	130	6.793	6.796	(1.043)	334733	52.0725	52.1	8811
35 1,2-Dichloropropane +	63	6.965	6.968	(1.069)	344711	51.0445	51.0	8157
38 2-Chloroethyl vinyl ether	63	7.349	7.352	(1.128)	129030	42.6801	42.7	6767
36 Dibromomethane	93	7.057	7.061	(1.083)	179236	52.1591	52.2	9412
37 Bromodichloromethane	83	7.157	7.160	(1.099)	390930	51.9128	51.9	9770
127 Methyl cyclohexane	83	6.951	6.955	(1.067)	528571	51.9494	51.9	3972
39 cis-1,3-Dichloropropene	75	7.481	7.485	(1.148)	487169	51.1365	51.1	
40 4-methyl-2-pentanone	43	7.567	7.571	(1.162)	449178	63.5622	63.6	(R)
41 Toluene-d8	98	7.693	7.690	(0.880)	1086988	51.1500	51.2	8229
42 Toluene +	91	7.739	7.743	(0.885)	1279733	50.0907	50.1	8708
43 trans-1,3-Dichloropropene	75	7.872	7.875	(0.900)	407204	51.1124	51.1	
44 1,1,2-Trichloroethane	97	8.017	8.021	(0.917)	289111	54.0328	54.0	8171
45 1,3-Dichloropropane	76	8.143	8.147	(0.931)	504591	53.6916	53.7	8627
47 2-Hexanone	43	8.163	8.160	(0.933)	342521	65.5969	65.6	7814(R)
46 Tetrachloroethene	164	8.150	8.153	(0.932)	229131	50.1010	50.1	9404
48 Dibromochloromethane	129	8.322	8.326	(0.952)	311614	53.2555	53.3	9053
49 1,2-Dibromoethane(EDB)	107	8.428	8.425	(0.964)	285408	54.4456	54.4	5533
50 Chlorobenzene-d5	82	8.746	8.749	(1.000)	443464	50.0000		8427
51 Chlorobenzene ++	112	8.766	8.769	(1.002)	857839	50.8240	50.8	9211
52 1,1,1,2-Tetrachloroethane	133	8.812	8.816	(1.008)	272134	51.8855	51.9	9387
53 Ethylbenzene +	106	8.819	8.822	(1.008)	442508	50.1909	50.2	9217
54 p,m-Xylene	106	8.898	8.895	(1.017)	1149436	99.1471	99.1	9057
55 o-Xylene	106	9.183	9.180	(1.050)	564197	51.1489	51.1	
56 Styrene	104	9.183	9.186	(1.050)	1000376	51.3178	51.3	8961
57 Bromoform ++	173	9.348	9.345	(1.069)	200613	57.4742	57.5	8508
58 Isopropylbenzene	105	9.421	9.418	(1.077)	1394974	50.3393	50.3	9119
59 Bromofluorobenzene	174	9.547	9.550	(1.092)	318227	50.7818	50.8	8967

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.613	9.610	(0.930)	420566	56.4334	56.4	9563
61	trans-1,4-Dichloro-2-Butene	53	9.640	9.643	(0.933)	97392	55.5042	55.5	8000
62	1,2,3-Trichloropropane	75	9.653	9.656	(0.934)	509063	59.5135	59.5	7534
63	Bromobenzene	77	9.673	9.670	(0.936)	787076	52.8073	52.8	8222
64	n-Propylbenzene	91	9.699	9.696	(0.938)	1572777	50.3420	50.3	9201
65	2-Chlorotoluene	91	9.792	9.789	(0.947)	1003431	50.4389	50.4	9188
66	1,3,5-Trimethylbenzene	105	9.805	9.802	(0.949)	1149160	50.9284	50.9	
67	4-Chlorotoluene	91	9.858	9.855	(0.954)	959435	47.6081	47.6	9004
76	TOTAL XYLENE	106				1713633	150.296	150	0
68	tert-butylbenzene	91	10.037	10.034	(0.971)	690355	50.0490	50.0	8717
69	1,2,4-Trimethylbenzene	105	10.070	10.060	(0.974)	1148140	50.0392	50.0	
70	sec-Butylbenzene	105	10.182	10.179	(0.985)	1486769	50.4328	50.4	
71	p-Isopropyltoluene	119	10.262	10.259	(0.993)	1179848	50.4484	50.4	9262
72	1,3-Dichlorobenzene	146	10.295	10.292	(0.996)	655800	50.1216	50.1	
73	1,4-DICHLOROBENZENE-D4	152	10.335	10.332	(1.000)	407131	50.0000		8943
74	1,4-Dichlorobenzene	146	10.348	10.345	(1.001)	648416	52.0334	52.0	
75	n-Butylbenzene	91	10.533	10.530	(1.019)	1041944	48.9237	48.9	9015
77	1,2-Dichlorobenzene	146	10.606	10.603	(1.026)	593288	51.1990	51.2	
78	1,2-Dibromo-3-Chloropropane	157	11.129	11.120	(1.077)	88360	65.6244	65.6	5662(R)
79	1,2,4-Trichlorobenzene	180	11.712	11.702	(1.133)	357446	49.8189	49.8	
80	Hexachlorobutadiene	225	11.805	11.795	(1.142)	177746	49.3314	49.3	9780
81	Napthalene	128	11.917	11.907	(1.153)	980058	55.4385	55.4	9683
82	1,2,3-Trichlorobenzene	180	12.096	12.080	(1.170)	350357	51.9456	51.9	
97	Cyclohexane	56	6.064	6.061	(0.931)	566033	52.2495	52.2	3844
98	Methyl Acetate	43	4.303	4.307	(0.661)	311646	96.8012	96.8	1978(RH)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

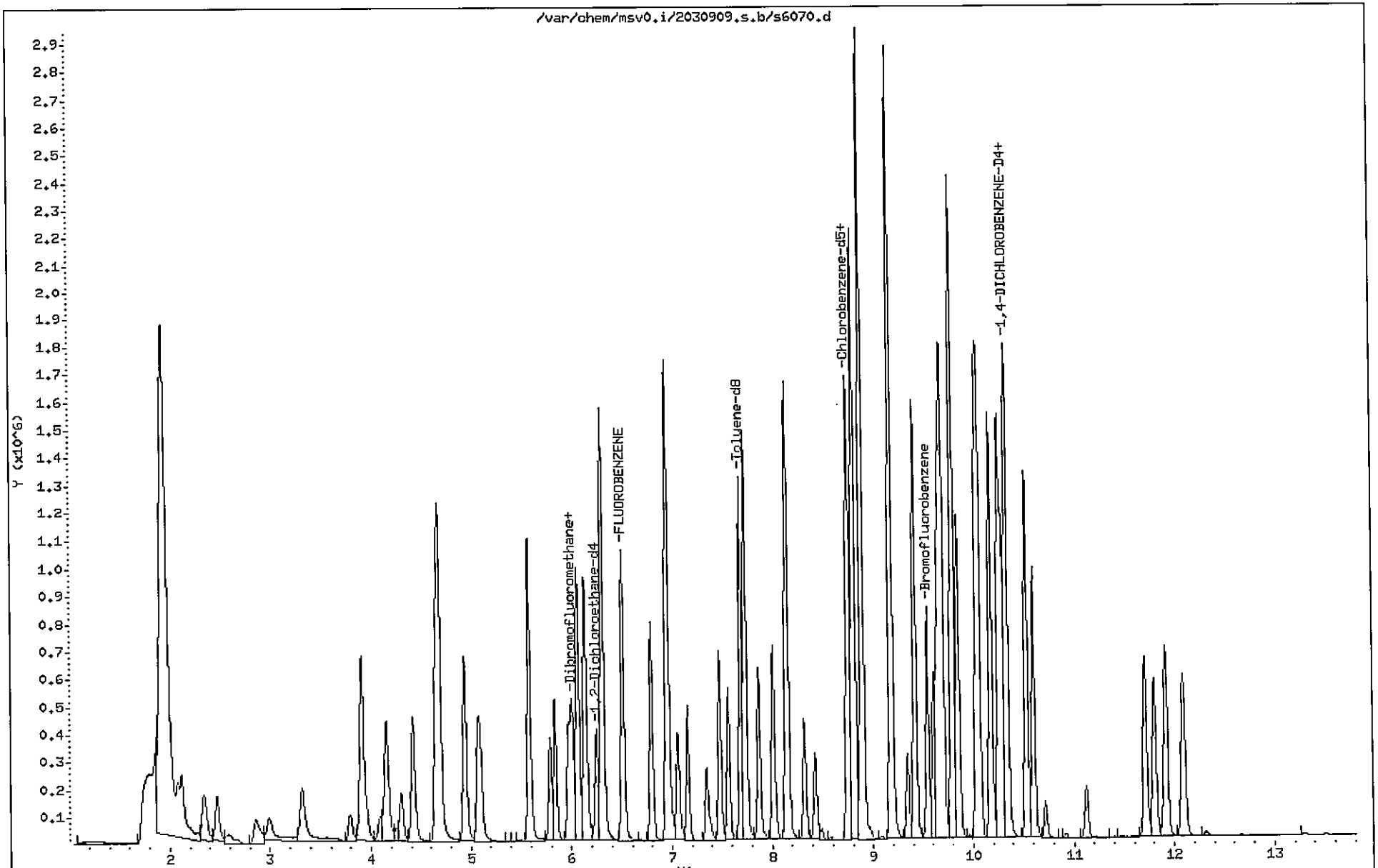
Data File: /var/chem/msv0.i/2030909.s.b/s6070.d
Date : 09-SEP-2003 18:30
Client ID: VOSTD050
Sample Info: ICV*VOSTD050

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RJO
Column diameter: 0.53

000130



Data File: /var/chem/msv0.i/2030911.s.b/s6111.d

Date : 11-SEP-2003 07:36

Client ID: V0BFB01

Instrument: msv0.i

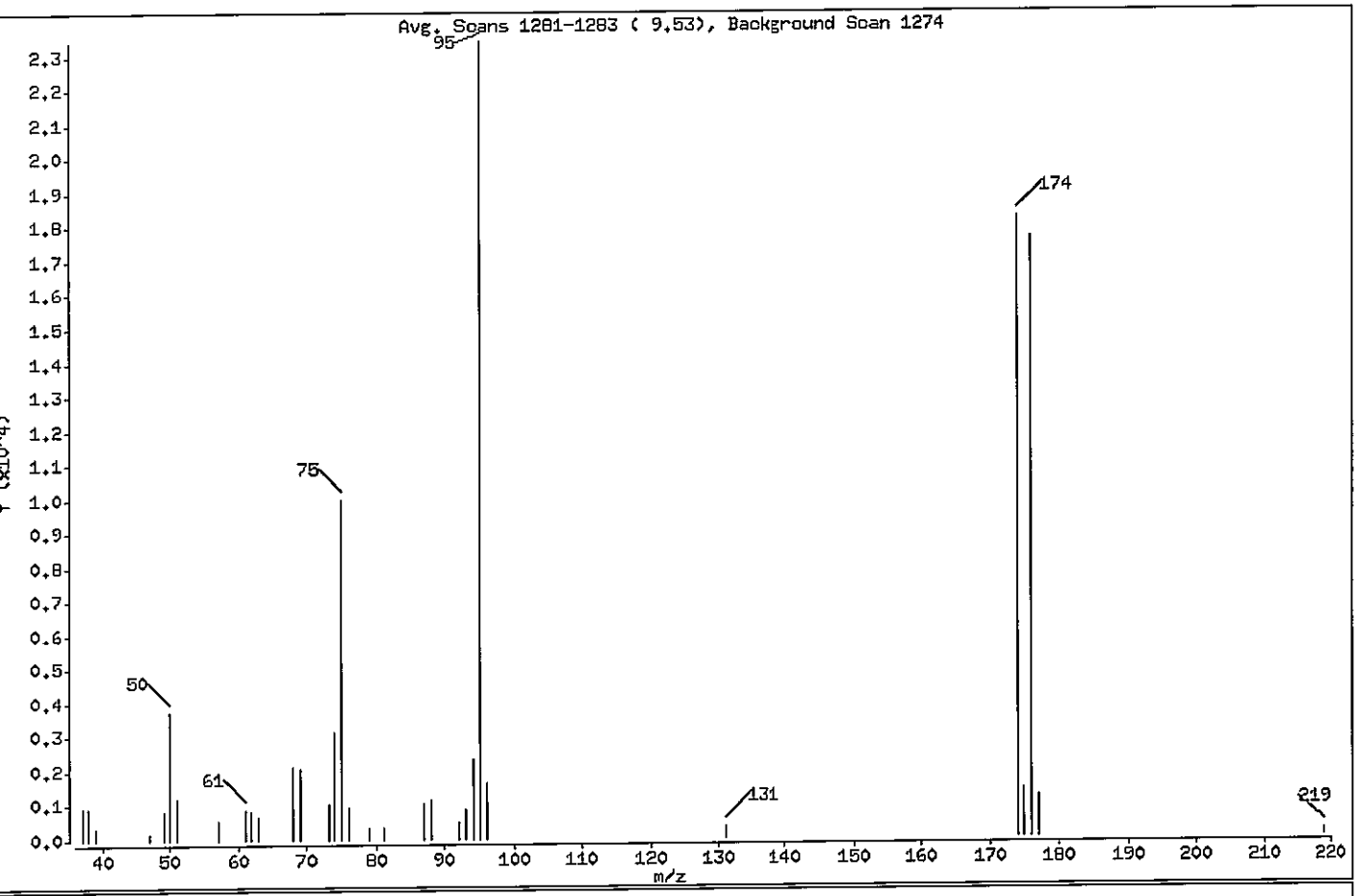
Sample Info: 1000ml/V0BFB01M5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.90
75	30.00 - 60.00% of mass 95	42.72
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.90
175	5.00 - 9.00% of mass 174	5.92 (7.60)
176	95.00 - 101.00% of mass 174	75.45 (96.86)
177	5.00 - 9.00% of mass 176	5.00 (6.62)

Data File: /var/chem/msv0.i/2030911.s.b/s6111.d

Date : 11-SEP-2003 07:36

Client ID: V0BFB01

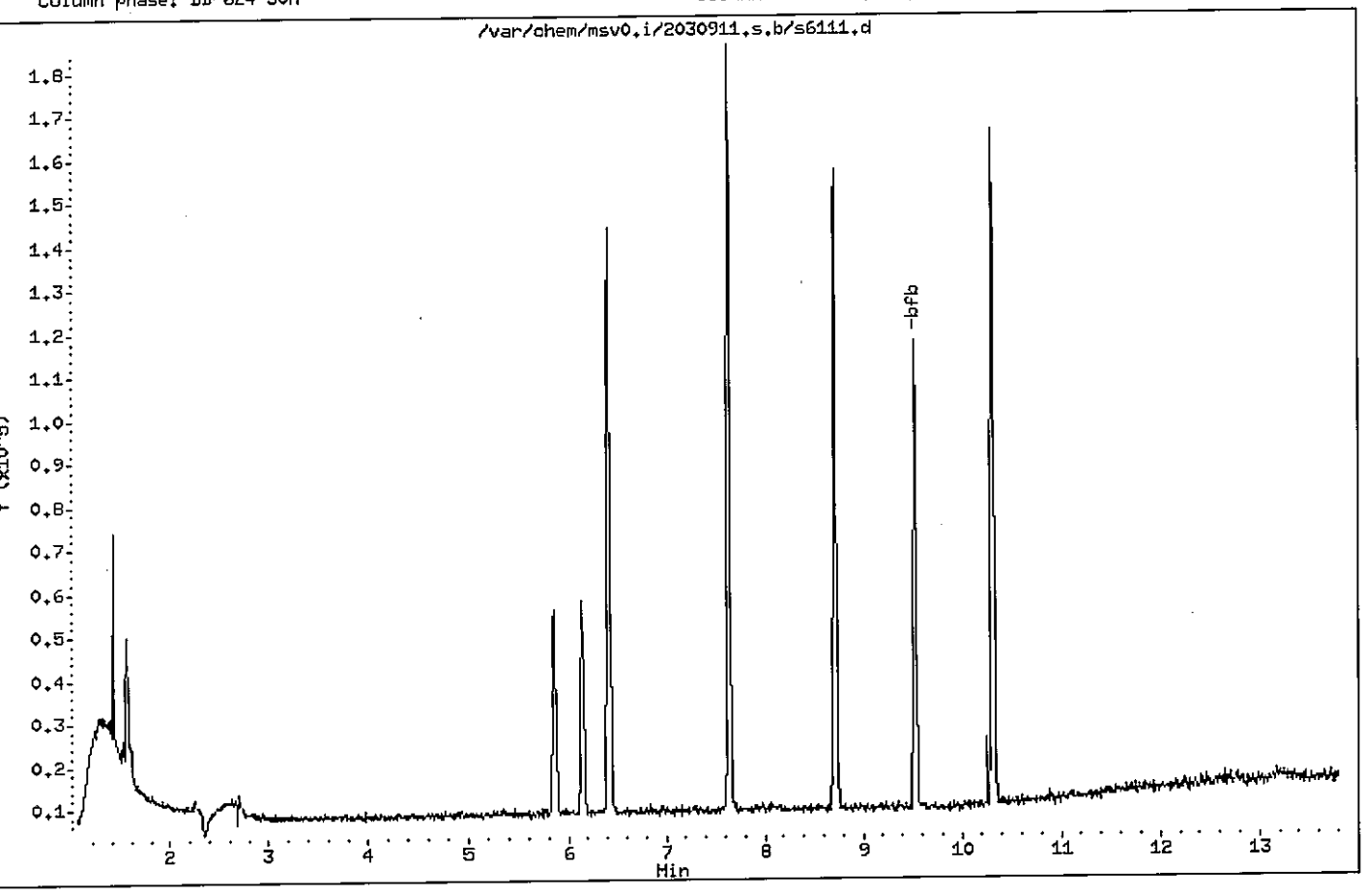
Instrument: msv0.i

Sample Info: 1000*V0BFB01*5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv0.i/2030911.s.b/s6111.d

Date : 11-SEP-2003 07:36

Client ID: V0BFB01

Instrument: msv0.i

Sample Info: 1000XV0BFB01X5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6111.d
Spectrum: Avg. Scans 1281-1283 (9.53), Background Scan 1274
Location of Maximum: 95.00
Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	941	62.00	807	81.00	304	174.00	18240
38.00	914	63.00	652	87.00	1051	175.00	1387
39.00	317	68.00	2079	88.00	1144	176.00	17664
47.00	170	69.00	2051	92.00	470	177.00	1170
49.00	803	73.00	1026	93.00	882	219.00	142
50.00	3724	74.00	3106	94.00	2312		
51.00	1162	75.00	10004	95.00	23416		
57.00	550	76.00	919	96.00	1604		
61.00	873	79.00	311	131.00	310		

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030911.s.b/s6113.d
Lab Smp Id: 1400 Client Smp ID: V0STD010
Inj Date : 11-SEP-2003 08:31
Operator : RJO Inst ID: msv0.i
Smp Info : 1400*V0STD010*5-1-8
Misc Info : MSV~3000~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030911.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 07:38 rjo Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
2 Chloromethane ++	50	2.350	2.350	(0.361)	258339	50.0000	47.3	6237
1 Dichlorodifluoromethane	85	2.138	2.138	(0.328)	136432	50.0000	37.7	2620
3 Vinyl Chloride +	62	2.482	2.482	(0.381)	233459	50.0000	55.2	4495
4 Bromomethane	94	2.879	2.879	(0.442)	97845	50.0000	37.2	6857
5 Chloroethane	64	3.012	3.012	(0.462)	124731	50.0000	63.0	4019
6 Trichlorofluoromethane	101	3.330	3.330	(0.511)	244401	50.0000	60.1	7904
7 Acrolein	56	3.806	3.806	(0.584)	106815	250.000	296	3498(A)
9 1,1,2Trichlotrifluoroethane	101	3.926	3.926	(0.603)	197183	50.0000	60.6	2220
8 1,1-Dichloroethene +	96	3.919	3.919	(0.602)	186570	50.0000	60.4	8630
10 Acetone	43	3.972	3.972	(0.610)	102546	50.0000	72.6	6529
11 Methyl Iodide	142	4.098	4.098	(0.629)	132841	50.0000	36.7	9195
12 Carbon Disulfide	76	4.164	4.164	(0.639)	721033	50.0000	56.5	8641
13 Methylene Chloride	49	4.422	4.422	(0.679)	289976	50.0000	64.4	8687

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.654	4.654	(0.714)	386004	250.000	278	6875(A)
15 trans-1,2-Dichloroethene	61	4.694	4.694	(0.720)	302296	50.0000	58.4	8849
16 MTBE	73	4.694	4.694	(0.720)	547235	50.0000	53.2	3752
17 Hexane	57	4.945	4.687	(0.759)	351200	50.0000	60.7	2979(H)
19 Vinyl Acetate	43	4.945	4.945	(0.759)	218935	50.0000	57.3	
18 1,1-Dichloroethane ++	63	5.084	5.084	(0.780)	405691	50.0000	55.1	6033
22 2-Butanone	43	5.587	5.587	(0.858)	149303	50.0000	53.7	
29 Total 1,2-Dichloroethene	61				669549	100.000	108	0
21 cis-1,2-Dichloroethene	61	5.587	5.587	(0.858)	367253	50.0000	50.8	8173
20 2,2-Dichloropropane	77	5.587	5.587	(0.858)	307689	50.0000	56.4	6889
23 Bromochloromethane	128	5.793	5.793	(0.889)	133613	50.0000	58.6	9418
24 Chloroform +	83	5.846	5.846	(0.897)	435120	50.0000	54.6	8676
25 Dibromofluoromethane	111	6.137	6.137	(0.942)	26233	50.0000	5.49	1999
26 1,1,1-Trichloroethane	97	6.011	6.011	(0.923)	348377	50.0000	59.5	8809
27 1,1-Dichloropropene	75	6.137	6.137	(0.942)	363086	50.0000	61.1	6679
28 Carbon Tetrachloride	117	6.150	6.150	(0.944)	276527	50.0000	61.2	8999
30 1,2-Dichloroethane-d4	67	6.249	6.249	(0.959)	120268	50.0000	48.5	9640
32 1,2-Dichloroethane	62	6.309	6.309	(0.968)	306330	50.0000	56.8	6410
31 Benzene	78	6.309	6.309	(0.968)	1230289	50.0000	59.3	8398
33 FLUOROBENZENE	96	6.514	6.514	(1.000)	951145	50.0000		9537
34 Trichloroethene	130	6.792	6.792	(1.043)	324223	50.0000	60.8	8811
35 1,2-Dichloropropane +	63	6.965	6.965	(1.069)	319284	50.0000	57.0	8071
38 2-Chloroethyl vinyl ether	63	7.349	7.349	(1.128)	140613	50.0000	56.0	6744
36 Dibromomethane	93	7.057	7.057	(1.083)	160917	50.0000	56.4	9368
37 Bromodichloromethane	83	7.163	7.163	(1.100)	359553	50.0000	57.5	9779
127 Methyl cyclohexane	83	6.951	6.951	(1.067)	532399	50.0000	63.1	3972
39 cis-1,3-Dichloropropene	75	7.481	7.481	(1.148)	448758	50.0000	56.8	
40 4-methyl-2-pentanone	43	7.567	7.567	(1.162)	322501	50.0000	55.0	
41 Toluene-d8	98	7.686	7.686	(0.879)	978046	50.0000	44.9	8254
42 Toluene +	91	7.739	7.739	(0.885)	1263257	50.0000	48.2	8729
43 trans-1,3-Dichloropropene	75	7.872	7.872	(0.900)	386984	50.0000	47.4	
44 1,1,2-Trichloroethane	97	8.017	8.017	(0.917)	252654	50.0000	46.0	8140
45 1,3-Dichloropropane	76	8.143	8.143	(0.931)	438300	50.0000	45.5	8588
47 2-Hexanone	43	8.156	8.156	(0.933)	253549	50.0000	47.3	7139
46 Tetrachloroethene	164	8.150	8.150	(0.932)	241415	50.0000	51.5	9042
48 Dibromochloromethane	129	8.322	8.322	(0.952)	277716	50.0000	46.3	9028
49 1,2-Dibromoethane(EDB)	107	8.421	8.421	(0.963)	246885	50.0000	45.9	5533
50 Chlorobenzene-d5	82	8.746	8.746	(1.000)	454834	50.0000		8326
51 Chlorobenzene ++	112	8.765	8.765	(1.002)	841980	50.0000	48.6	9187
52 1,1,1,2-Tetrachloroethane	133	8.805	8.805	(1.007)	254342	50.0000	47.3	9376
53 Ethylbenzene +	106	8.818	8.818	(1.008)	453706	50.0000	50.2	9181
54 p,m-Xylene	106	8.891	8.891	(1.017)	1183425	100.000	99.5	9076
55 o-Xylene	106	9.176	9.176	(1.049)	560594	50.0000	49.6	
56 Styrene	104	9.176	9.176	(1.049)	971923	50.0000	48.6	8957
57 Bromoform ++	173	9.341	9.341	(1.068)	168084	50.0000	47.0	8454
58 Isopropylbenzene	105	9.414	9.414	(1.076)	1435061	50.0000	50.5	9080
59 Bromofluorobenzene	174	9.540	9.540	(1.091)	322715	50.0000	50.2	9083

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.600	9.600	(0.931)	359159	50.0000	44.2	9531
61	trans-1,4-Dichloro-2-Butene	53	9.633	9.633	(0.934)	88636	50.0000	46.4	7741
62	1,2,3-Trichloropropane	75	9.646	9.646	(0.935)	417914	50.0000	44.8	7374
63	Bromobenzene	77	9.666	9.666	(0.937)	730410	50.0000	45.0	8445
64	n-Propylbenzene	91	9.686	9.686	(0.939)	1640567	50.0000	48.2	9079
65	2-Chlorotoluene	91	9.778	9.778	(0.948)	1014007	50.0000	46.8	9155
66	1,3,5-Trimethylbenzene	105	9.792	9.792	(0.949)	1193397	50.0000	48.5	
67	4-Chlorotoluene	91	9.845	9.845	(0.954)	984359	50.0000	44.8	8998
76	TOTAL XYLENE	106				1744019	150.000	149	0
68	tert-butylbenzene	91	10.023	10.023	(0.972)	709169	50.0000	47.2	8677
69	1,2,4-Trimethylbenzene	105	10.050	10.050	(0.974)	1186957	50.0000	47.5	
70	sec-Butylbenzene	105	10.169	10.169	(0.986)	1595379	50.0000	49.7	
71	p-Isopropyltoluene	119	10.248	10.248	(0.994)	1265194	50.0000	49.7	9255
72	1,3-Dichlorobenzene	146	10.275	10.275	(0.996)	649150	50.0000	45.5	
73	1,4-DICHLOROBENZENE-D4	152	10.315	10.315	(1.000)	443557	50.0000		9037
74	1,4-Dichlorobenzene	146	10.328	10.328	(1.001)	672693	50.0000	49.5	
75	n-Butylbenzene	91	10.513	10.513	(1.019)	1170621	50.0000	50.5	9001
77	1,2-Dichlorobenzene	146	10.586	10.586	(1.026)	582355	50.0000	46.1	
78	1,2-Dibromo-3-Chloropropane	157	11.103	11.103	(1.076)	65564	50.0000	44.7	5649
79	1,2,4-Trichlorobenzene	180	11.685	11.685	(1.133)	376893	50.0000	48.2	
80	Hexachlorobutadiene	225	11.778	11.778	(1.142)	205497	50.0000	52.3	9743
81	Napthalene	128	11.884	11.884	(1.152)	875539	50.0000	45.5	9686
82	1,2,3-Trichlorobenzene	180	12.063	12.063	(1.169)	347061	50.0000	47.2	
97	Cyclohexane	56	6.064	6.064	(0.931)	542694	50.0000	60.4	3995
98	Methyl Acetate	43	4.694	4.694	(0.720)	100731	50.0000	38.2	3752

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
T - Operator selected an alternate compound hit.

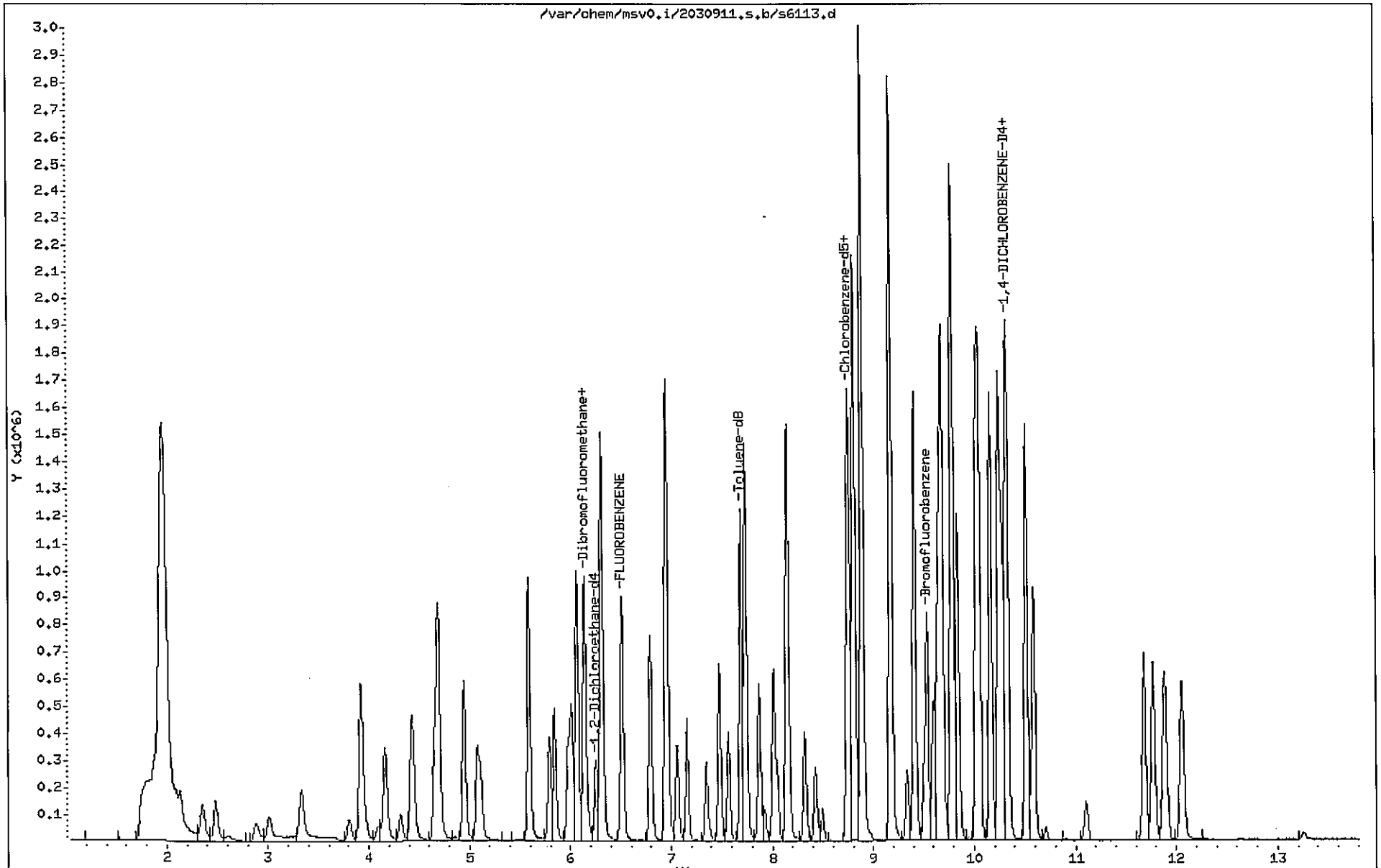
Data File: /var/chem/msv0.i/2030911.s.b/s6113.d
Date : 11-SEP-2003 08:31
Client ID: VOSTD010
Sample Info: 1400MVOSTD010M5-1-8

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RJO
Column diameter: 0.53

000137



Data File: /var/chem/msv2.i/2030901.s.b/s8030bfb.d

Date : 01-SEP-2003 11:16

Client ID: V2BFB01

Instrument: msv2.i

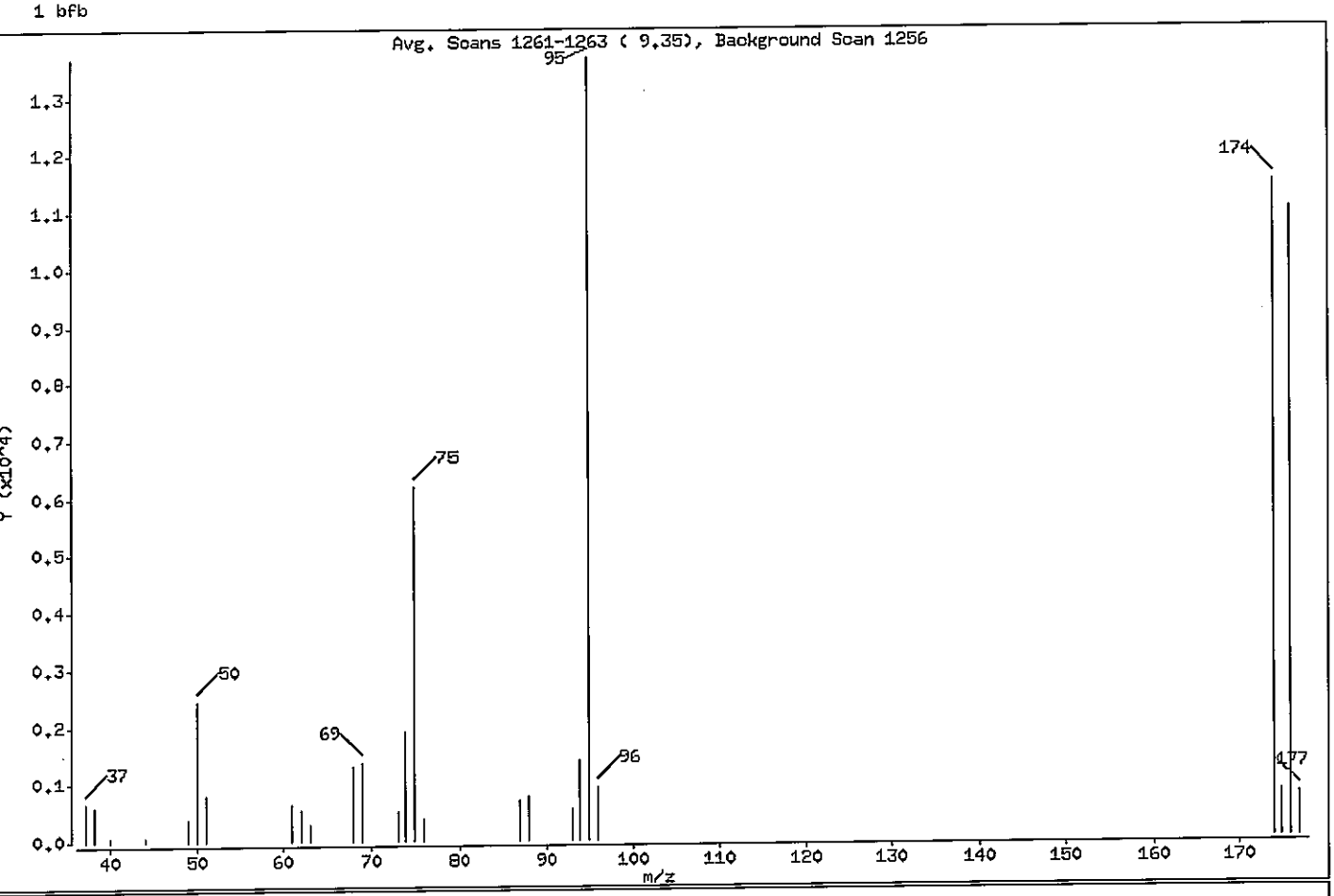
Sample Info: 1000ml V2BFB01 x5-1-8

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.73
75	30.00 - 60.00% of mass 95	45.21
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	83.95
175	5.00 - 9.00% of mass 174	5.80 (6.91)
176	95.00 - 101.00% of mass 174	80.52 (95.91)
177	5.00 - 9.00% of mass 176	5.59 (6.94)

Data File: /var/chem/msv2.i/2030901.s.b/s8030bfb.d

Date : 01-SEP-2003 11:16

Client ID: V2BFB01

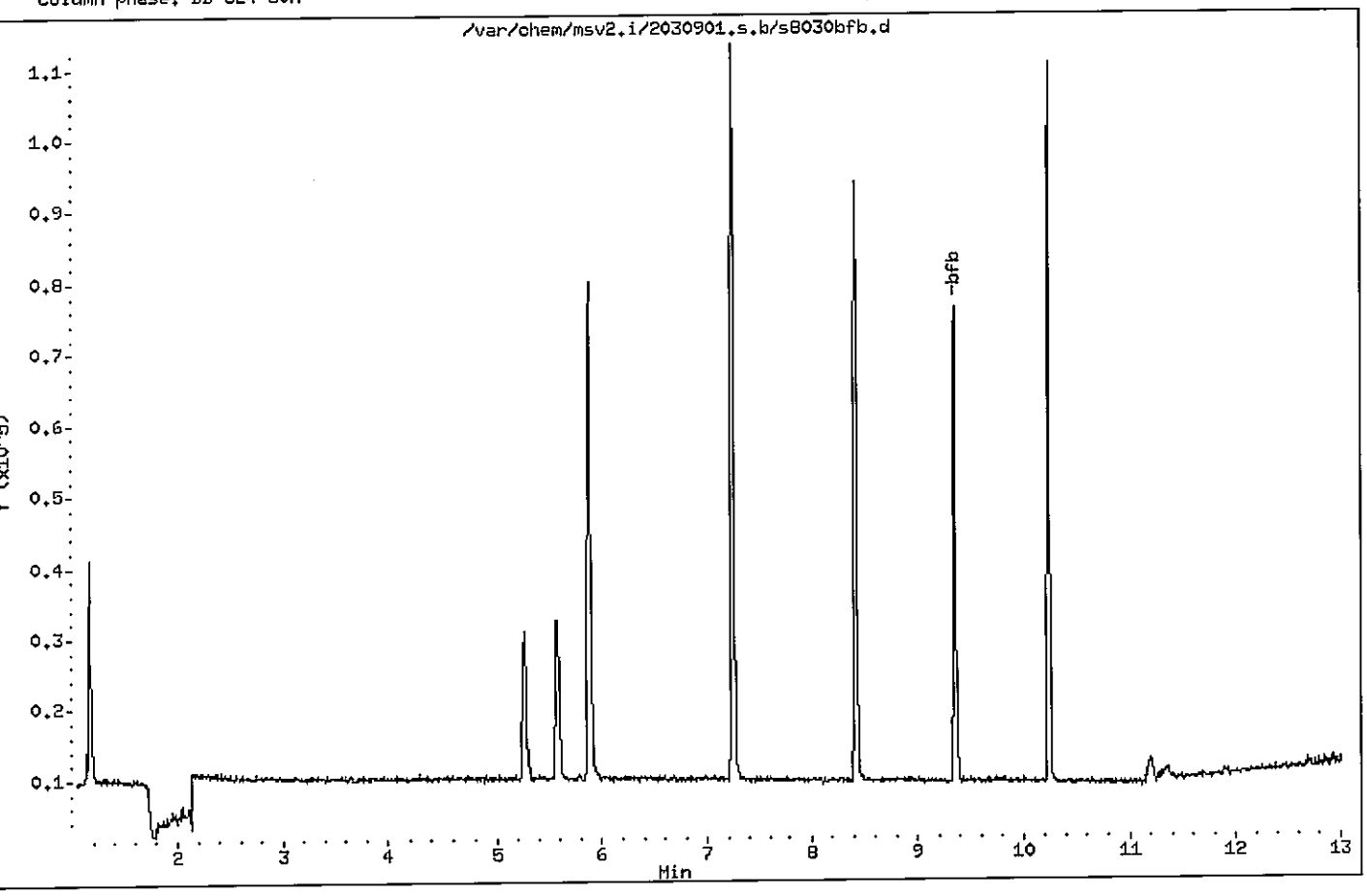
Instrument: msv2.i

Sample Info: 1000*V2BFB01*5-1-8

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv2.i/2030901.s.b/s8030bfb.d

Date : 01-SEP-2003 11:16

Client ID: V2BFB01

Instrument: msv2.i

Sample Info: 1000*V2BFB01*5-1-8

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s8030bfb.d
Spectrum: Avg. Scans 1261-1263 (9.35), Background Scan 1256
Location of Maximum: 95.00
Number of points: 26

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	653	61.00	623	75.00	6187	96.00	930
38.00	602	62.00	528	76.00	385	174.00	11490
40.00	50	63.00	289	87.00	698	175.00	794
44.00	57	68.00	1285	88.00	742	176.00	11020
49.00	364	69.00	1368	93.00	543	177.00	765
50.00	2426	73.00	510	94.00	1377		
51.00	789	74.00	1898	95.00	13686		

Data File: /var/chem/msv2.i/2030901.s.b/s8034.d
Report Date: 10-Sep-2003 09:59

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030901.s.b/s8034.d
Lab Smp Id: 1206 Client Smp ID: V2STD002
Inj Date : 01-SEP-2003 13:35
Operator : RJO Inst ID: msv2.i
Smp Info : 1206*V2STD002*5-1-8
Misc Info : MSV~3672~*1*RJO
Comment :
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 09:59 rsp Quant Type: ISTD
Cal Date : 01-SEP-2003 13:35 Cal File: s8034.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
3 Vinyl Chloride +	62	1.734	1.734	(0.292)	5152	2.00000	1.24(a)
11 1,1,2Trichlotrifluoroethane	101	2.926	2.926	(0.493)	6628	2.00000	1.64(a)
20 Acrylonitrile	53	3.757	3.757	(0.633)	8342	2.00000	6.03(a)
21 trans-1,2-Dichloroethene	61	3.803	3.803	(0.641)	7660	2.00000	1.57(a)
9 Acrolein	56	2.795	2.795	(0.471)	2353	2.00000	13.6(a)
22 MTBE	73	3.822	3.822	(0.644)	14296	2.00000	1.59(a)
24 1,1-Dichloroethane ++	63	4.257	4.257	(0.718)	10418	2.00000	1.40(a)
25 Vinyl Acetate	43	4.126	4.126	(0.696)	6947	2.00000	1.42(a)
30 2,2-Dichloropropane	77	4.857	4.857	(0.819)	8414	2.00000	1.49(a)
31 cis-1,2-Dichloroethene	61	4.857	4.857	(0.819)	9424	2.00000	1.36(a)
32 2-Butanone	43	4.883	4.883	(0.823)	4221	2.00000	1.52(a)
36 Bromochloromethane	128	5.081	5.081	(0.857)	2023	2.00000	1.03(a)
37 Chloroform +	83	5.167	5.167	(0.871)	21840	2.00000	3.28(a)
38 Dibromofluoromethane	111	5.312	5.312	(0.896)	6780	2.00000	1.65(a)
39 1,1,1-Trichloroethane	97	5.338	5.338	(0.900)	8722	2.00000	1.50(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
42	1,1-Dichloropropene	75	5.503	5.503	(0.928)	9315	2.00000	1.76(a)
43	Carbon Tetrachloride	117	5.503	5.503	(0.928)	6033	2.00000	1.30(a)
44	1,2-Dichloroethane-d4	67	5.621	5.621	(0.948)	4166	2.00000	1.77(a)
45	Benzene	78	5.687	5.687	(0.959)	32055	2.00000	2.09(a)
46	1,2-Dichloroethane	62	5.694	5.694	(0.960)	9062	2.00000	1.52(a)
47	FLUOROBENZENE	96	5.931	5.931	(1.000)	753639	50.0000	
48	Trichloroethene	130	6.261	6.261	(1.056)	6054	2.00000	1.62(a)
49	Methyl Cyclohexane	83	6.432	6.432	(1.084)	13737	2.00000	2.03(a)
50	1,2-Dichloropropane +	63	6.438	6.438	(1.086)	8893	2.00000	2.03(a)
51	Dibromomethane	93	6.544	6.544	(1.103)	4286	2.00000	1.78(a)
54	Bromodichloromethane	83	6.669	6.669	(1.124)	14162	2.00000	2.67(a)
55	2-Chloroethyl vinyl ether	63	6.919	6.919	(1.167)	4431	2.00000	7.19
56	cis-1,3-Dichloropropene	75	7.045	7.045	(1.188)	12001	2.00000	1.96(a)
57	4-methyl-2-pentanone	43	7.163	7.163	(1.208)	7063	2.00000	1.52(a)
58	Toluene-d8	98	7.275	7.275	(0.862)	25516	2.00000	1.89(a)
59	Toluene +	91	7.328	7.328	(0.868)	30802	2.00000	1.86(a)
60	trans-1,3-Dichloropropene	75	7.493	7.493	(0.888)	10371	2.00000	1.58(a)
62	1,1,2-Trichloroethane	97	7.638	7.638	(0.905)	6493	2.00000	1.77(a)
64	1,3-Dichloropropane	76	7.776	7.776	(0.921)	12759	2.00000	1.84(a)
65	Tetrachloroethene	164	7.783	7.783	(0.922)	6034	2.00000	10.4
66	2-Hexanone	43	7.842	7.842	(0.929)	4826	2.00000	1.15(a)
68	Dibromochloromethane	129	7.967	7.967	(0.944)	7133	2.00000	1.75(a)
69	1,2-Dibromoethane(EDB)	107	8.066	8.066	(0.956)	5974	2.00000	1.56(a)
70	CHLOROBENZENE-d5	82	8.442	8.442	(1.000)	310384	50.0000	
71	Chlorobenzene ++	112	8.461	8.461	(1.002)	20111	2.00000	1.82(a)
73	Ethylbenzene +	106	8.540	8.540	(1.012)	10509	2.00000	1.87(a)
74	p,m-Xylene	106	8.639	8.639	(1.023)	27713	4.00000	3.71(a)
76	o-Xylene	106	8.956	8.956	(1.061)	12482	2.00000	1.76(a)
77	Styrene	104	8.982	8.982	(1.064)	22964	2.00000	8.87
78	Bromoform ++	173	9.114	9.114	(1.080)	4743	2.00000	2.03(a)
79	Isopropylbenzene	105	9.239	9.239	(1.094)	33376	2.00000	1.76(a)
81	Bromofluorobenzene	174	9.371	9.371	(0.914)	9372	50.0000	2.33(a)
84	1,1,2,2-Tetrachloroethane++	83	9.450	9.450	(0.922)	10102	2.00000	1.93(a)
85	trans-1,4-Dichloro-2-Butene	53	9.489	9.489	(0.925)	2207	2.00000	1.18(a)
86	1,2,3-Trichloropropane	75	9.496	9.496	(0.926)	11853	2.00000	1.69(a)
87	Bromobenzene	77	9.502	9.502	(0.927)	22163	2.00000	1.97(a)
75	Total 1,2-Dichloroethene	61				17084	2.00000	2.93(a)
88	n-Propylbenzene	91	9.582	9.582	(0.934)	42564	2.00000	1.87(a)
89	2-Chlorotoluene	91	9.661	9.661	(0.942)	26559	2.00000	2.01(a)
90	1,3,5-Trimethylbenzene	105	9.687	9.687	(0.945)	17803	2.00000	1.57(a)
91	4-Chlorotoluene	91	9.733	9.733	(0.949)	28119	2.00000	1.83(a)
92	tert-butylbenzene	91	9.957	9.957	(0.971)	17189	2.00000	1.59(a)
93	1,2,4-Trimethylbenzene	105	9.977	9.977	(0.973)	17663	2.00000	1.65(a)
96	sec-Butylbenzene	105	10.109	10.109	(0.986)	35358	2.00000	1.69(a)
97	p-Isopropyltoluene	119	10.201	10.201	(0.995)	20375	2.00000	1.38(a)
98	1,3-Dichlorobenzene	146	10.214	10.214	(0.996)	14892	2.00000	1.87(a)
99	1,4-DICHLOROBENZENE-D4	152	10.254	10.254	(1.000)	252617	50.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
100 1,4-Dichlorobenzene	146	10.267	10.267	(1.001)	17036	2.00000	2.17(a)
101 n-Butylbenzene	91	10.491	10.491	(1.023)	19738	2.00000	1.72(a)
102 1,2-Dichlorobenzene	146	10.544	10.544	(1.028)	13883	2.00000	2.08(a)
103 1,2-Dibromo-3-Chloropropane	157	11.058	11.058	(1.078)	1660	2.00000	2.11(a)
105 1,2,4-Trichlorobenzene	180	11.618	11.618	(1.133)	9708	2.00000	3.00(a)
106 Hexachlorobutadiene	225	11.716	11.716	(1.143)	5132	2.00000	1.96(a)
107 Napthalene	128	11.789	11.789	(1.150)	19885	2.00000	2.45(a)
108 1,2,3-Trichlorobenzene	180	11.954	11.954	(1.166)	9363	2.00000	2.99(a)
109 TOTAL XYLENE	106				40195	6.00000	5.47
40 Cyclohexane	56	5.404	5.404	(0.911)	14882	2.00000	1.81(a)

QC Flag Legend

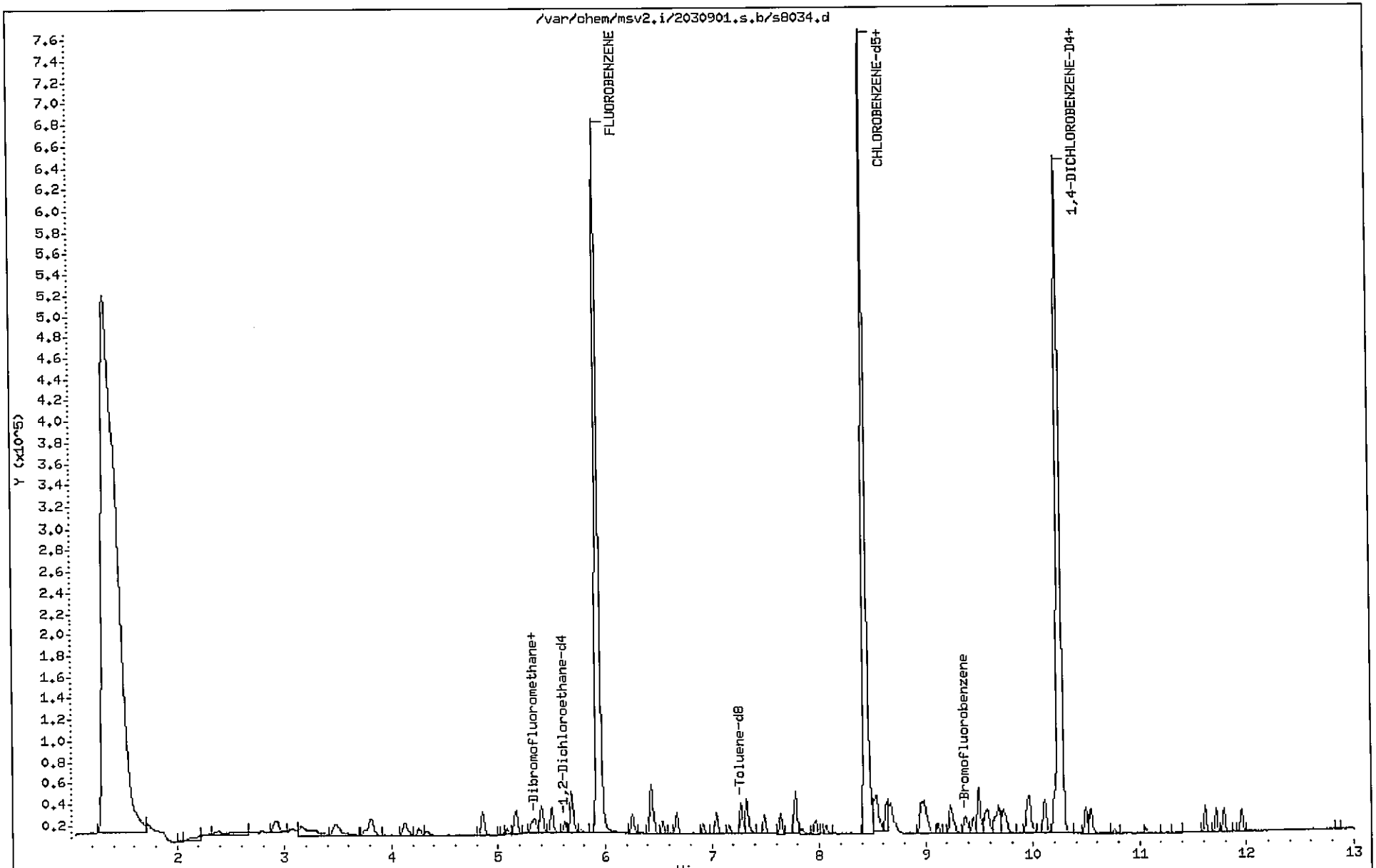
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000144

Data File: /var/chem/msv2.i/2030901.s.b/s8034.d
Date : 01-SEP-2003 13:35
Client ID: V2STD002
Sample Info: 1206WV2STD002W5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv2.i/2030901.s.b/s8035.d
ab Smp Id: 1201 Client Smp ID: V2STD005
nj Date : 01-SEP-2003 13:56
perator : RJO Inst ID: msv2.i
mp Info : 1201*V2STD005*5-1-8
isc Info : MSV~3672~*1*RJO
omment :
ethod : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
eth Date : 10-Sep-2003 09:59 rsp Quant Type: ISTD
al Date : 27-AUG-2003 11:02 Cal File: s7792.d
ls bottle: 3 Calibration Sample, Level: 1
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260B.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
pnd Variable		Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.476	1.476	(0.249)	16645	5.00000	4.51(a)
23 Hexane	57	4.132	4.132	(0.696)	19921	5.00000	3.21(aM)
2 Chloromethane ++	50	1.707	1.707	(0.288)	21627	5.00000	4.23(a)
3 Vinyl Chloride +	62	1.733	1.733	(0.292)	16838	5.00000	4.35(a)
5 Bromomethane	94	2.030	2.030	(0.342)	6386	5.00000	4.73(a)
6 Chloroethane	64	2.116	2.116	(0.356)	3913	5.00000	2.95(a)
7 Trichlorofluoromethane	101	2.379	2.379	(0.401)	10635	5.00000	2.73(a)
10 1,1-Dichloroethene +	96	2.913	2.913	(0.491)	7634	5.00000	2.61(a)
11 1,1,2Trichlotrifluoroethane	101	2.926	2.926	(0.493)	14672	5.00000	3.94(a)
12 Acetone	43	2.966	2.966	(0.499)	5138	5.00000	3.83(aM)
13 Methyl Iodide	142	3.078	3.078	(0.518)	20374	5.00000	3.35(a)
14 Carbon Disulfide	76	3.157	3.157	(0.532)	48654	5.00000	4.08(aM)
18 Methylene Chloride	49	3.473	3.473	(0.585)	26494	5.00000	2.88(a)
20 Acrylonitrile	53	3.763	3.763	(0.634)	23365	25.0000	18.3(a)
21 trans-1,2-Dichloroethene	61	3.803	3.803	(0.640)	17509	5.00000	3.89(a)

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15 Methyl Acetate	43	3.381	3.381	(0.569)	9420	5.00000	0.365(a)
9 Acrolein	56	2.808	2.808	(0.473)	6371	25.0000	33.4
22 MTBE	73	3.822	3.822	(0.644)	34077	5.00000	4.04(a)
24 1,1-Dichloroethane ++	63	4.264	4.264	(0.718)	24761	5.00000	3.62(a)
25 Vinyl Acetate	43	4.132	4.132	(0.696)	13617	5.00000	3.14(a)
30 2,2-Dichloropropane	77	4.857	4.857	(0.818)	22957	5.00000	4.29(a)
31 cis-1,2-Dichloroethene	61	4.857	4.857	(0.818)	26889	5.00000	4.11(a)
32 2-Butanone	43	4.883	4.883	(0.822)	10099	5.00000	3.97(a)
36 Bromochloromethane	128	5.087	5.087	(0.857)	5706	5.00000	3.12(a)
37 Chloroform +	83	5.167	5.167	(0.870)	39943	5.00000	5.83
38 Dibromofluoromethane	111	5.318	5.318	(0.896)	15520	5.00000	4.00(a)
39 1,1,1-Trichloroethane	97	5.351	5.351	(0.901)	21442	5.00000	3.93(a)
42 1,1-Dichloropropene	75	5.503	5.503	(0.927)	21378	5.00000	4.21(a)
43 Carbon Tetrachloride	117	5.503	5.503	(0.927)	14914	5.00000	3.46(a)
44 1,2-Dichloroethane-d4	67	5.621	5.621	(0.947)	9341	5.00000	4.20(a)
45 Benzene	78	5.687	5.687	(0.958)	75084	5.00000	4.93(a)
46 1,2-Dichloroethane	62	5.694	5.694	(0.959)	21725	5.00000	3.92(a)
47 FLUOROBENZENE	96	5.937	5.937	(1.000)	734000	50.0000	
48 Trichloroethene	130	6.260	6.260	(1.054)	14348	5.00000	4.02(a)
49 Methyl Cyclohexane	83	6.432	6.432	(1.083)	32210	5.00000	4.73(a)
50 1,2-Dichloropropane +	63	6.445	6.445	(1.085)	21411	5.00000	4.93(a)
51 Dibromomethane	93	6.544	6.544	(1.102)	10625	5.00000	4.53(a)
54 Bromodichloromethane	83	6.675	6.675	(1.124)	28087	5.00000	5.27
55 2-Chloroethyl vinyl ether	63	6.919	6.919	(1.165)	11303	5.00000	9.33
56 cis-1,3-Dichloropropene	75	7.045	7.045	(1.186)	28943	5.00000	4.78(a)
57 4-methyl-2-pentanone	43	7.163	7.163	(1.206)	17592	5.00000	4.00(a)
58 Toluene-d8	98	7.275	7.275	(0.862)	54541	5.00000	4.24(a)
59 Toluene +	91	7.328	7.328	(0.868)	71788	5.00000	4.51(a)
60 trans-1,3-Dichloropropene	75	7.493	7.493	(0.888)	24728	5.00000	3.99(a)
62 1,1,2-Trichloroethane	97	7.644	7.644	(0.906)	15973	5.00000	4.48(a)
64 1,3-Dichloropropane	76	7.776	7.776	(0.921)	30168	5.00000	4.48(a)
65 Tetrachloroethene	164	7.782	7.782	(0.922)	12761	5.00000	12.2
66 2-Hexanone	43	7.835	7.835	(0.928)	13480	5.00000	3.47(a)
68 Dibromochloromethane	129	7.967	7.967	(0.944)	14715	5.00000	3.83(a)
69 1,2-Dibromoethane(EDB)	107	8.072	8.072	(0.956)	14846	5.00000	4.09(a)
70 CHLOROBENZENE-d5	82	8.441	8.441	(1.000)	300984	50.0000	
71 Chlorobenzene ++	112	8.461	8.461	(1.002)	45775	5.00000	4.33(a)
72 1,1,1,2-Tetrachloroethane	133	8.521	8.521	(1.009)	12523	5.00000	3.63(a)
73 Ethylbenzene +	106	8.540	8.540	(1.012)	23792	5.00000	4.34(a)
74 p,m-Xylene	106	8.633	8.633	(1.023)	63619	10.0000	8.75
76 o-Xylene	106	8.955	8.955	(1.061)	29658	5.00000	4.29(a)
77 Styrene	104	8.962	8.962	(1.062)	53256	5.00000	10.8
78 Bromoform ++	173	9.114	9.114	(1.080)	11476	5.00000	4.86(a)
79 Isopropylbenzene	105	9.239	9.239	(1.094)	76968	5.00000	4.17(a)
81 Bromofluorobenzene	174	9.371	9.371	(0.914)	18794	5.00000	4.61(a)
84 1,1,2,2-Tetrachloroethane++	83	9.450	9.450	(0.922)	24860	5.00000	4.68(a)
85 trans-1,4-Dichloro-2-Butene	53	9.489	9.489	(0.925)	5654	5.00000	3.20(a)

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86 1,2,3-Trichloropropane	75	9.496	9.496	(0.926)	28995	5.00000	4.13(a)
87 Bromobenzene	77	9.496	9.496	(0.926)	49803	5.00000	4.42(a)
75 Total 1,2-Dichloroethene	61				44398	10.0000	8.00
88 n-Propylbenzene	91	9.562	9.562	(0.933)	97671	5.00000	4.29(a)
89 2-Chlorotoluene	91	9.647	9.647	(0.941)	60883	5.00000	4.63(a)
90 1,3,5-Trimethylbenzene	105	9.693	9.693	(0.945)	47452	5.00000	4.27(a)
91 4-Chlorotoluene	91	9.726	9.726	(0.949)	64232	5.00000	4.23(a)
92 tert-butylbenzene	91	9.950	9.950	(0.970)	41530	5.00000	3.90(a)
93 1,2,4-Trimethylbenzene	105	9.977	9.977	(0.973)	46521	5.00000	4.47(a)
96 sec-Butylbenzene	105	10.109	10.109	(0.986)	82428	5.00000	3.95(a)
97 p-Isopropyltoluene	119	10.201	10.201	(0.995)	51823	5.00000	3.58(a)
98 1,3-Dichlorobenzene	146	10.207	10.207	(0.996)	33737	5.00000	4.12(a)
99 1,4-DICHLOROBENZENE-D4	152	10.254	10.254	(1.000)	259002	50.0000	
100 1,4-Dichlorobenzene	146	10.267	10.267	(1.001)	37225	5.00000	4.65(a)
101 n-Butylbenzene	91	10.491	10.491	(1.023)	51694	5.00000	4.51(a)
102 1,2-Dichlorobenzene	146	10.537	10.537	(1.028)	32630	5.00000	4.70(a)
103 1,2-Dibromo-3-Chloropropane	157	11.064	11.064	(1.079)	4314	5.00000	5.14
105 1,2,4-Trichlorobenzene	180	11.611	11.611	(1.132)	21353	5.00000	6.14
106 Hexachlorobutadiene	225	11.710	11.710	(1.142)	12374	5.00000	4.52(a)
107 Napthalene	128	11.789	11.789	(1.150)	44717	5.00000	5.38
108 1,2,3-Trichlorobenzene	180	11.954	11.954	(1.166)	20724	5.00000	6.12
109 TOTAL XYLENE	106				93277	15.0000	13.0
40 Cyclohexane	56	5.404	5.404	(0.910)	35194	5.00000	4.40(a)

QC Flag Legend

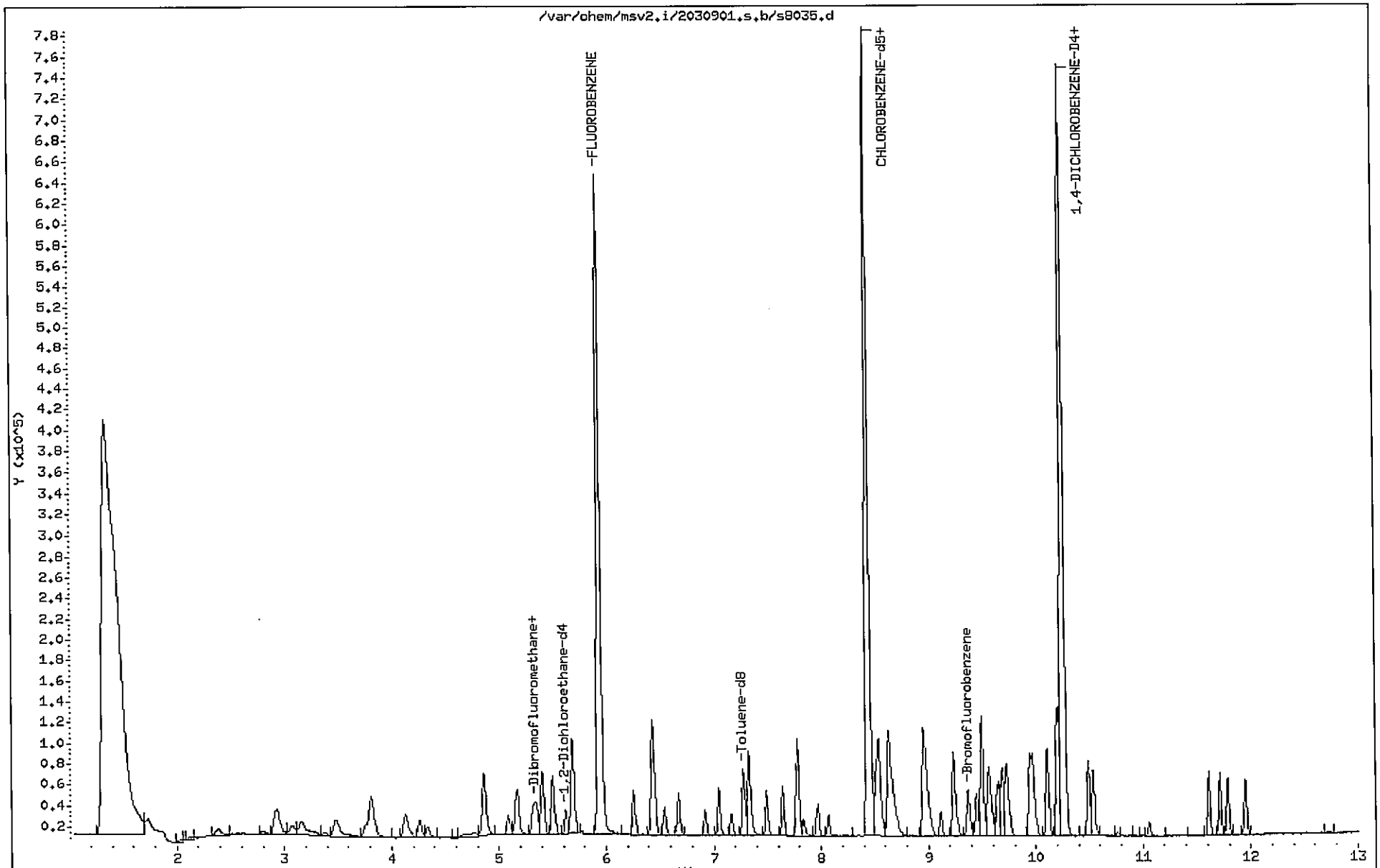
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030901.s.b/s8035.d
Date : 01-SEP-2003 13:56
Client ID: V2STD005
Sample Info: 1201*V2STD005*5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000148



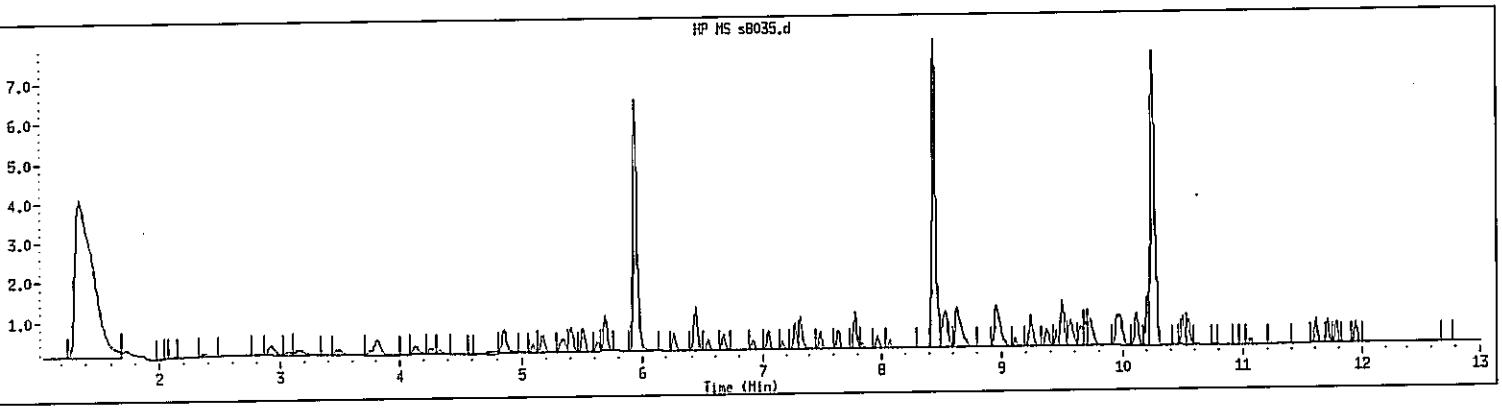
ata file : /var/chem/msv2.i/2030901.s.b/s8035.d
eport Date: 09/10/2003 09:59

MANUAL INTEGRATION GRAPHIC REPORT

ab ID : 1201
njection Date: 01-SEP-2003 13:56
perator : RJO
ample Info : 1201*V2STD005*5-1-8
isc Info : MSV~3672~*1*RJO
ethod : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
ilution : 1.0
atrix : WATER
ntegrator : HP RTE

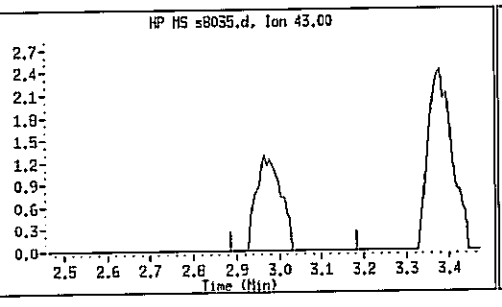
SampleType : CALIB_1
Instrument : msv2.i

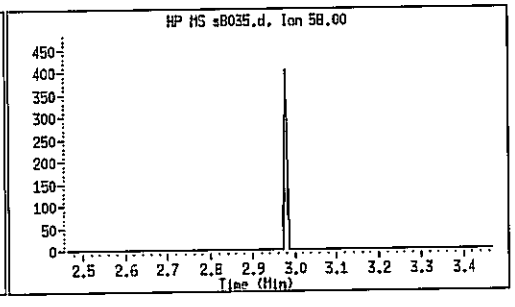
Compound Sublist: 8260B



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
12 Acetone			CAS#: 67-64-1				
.966	0.499	43	5138	4	4	80-120	100
.966	0.500	58	0			0- 0	0





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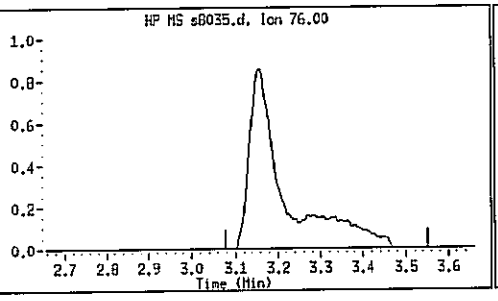
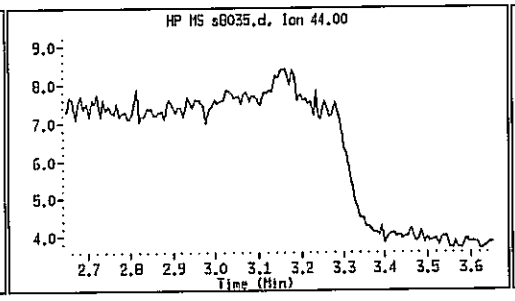
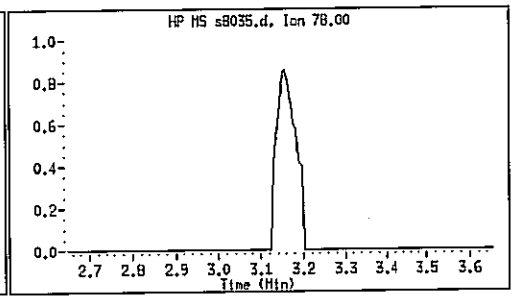
eport Date: 09/10/2003 09:59

CONCENTRATIONS

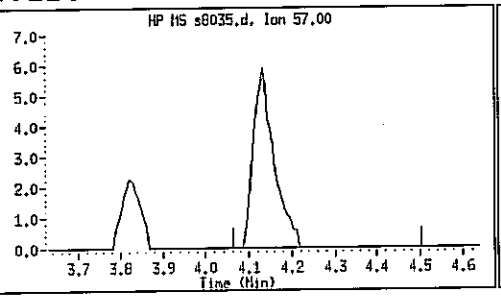
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
14 Carbon Disulfide				CAS#: 75-15-0			
.157	0.532	76	48654	4	4	80-120	100
.151	0.531	44	0			0- 0	0
.151	0.531	78	0			0- 0	0

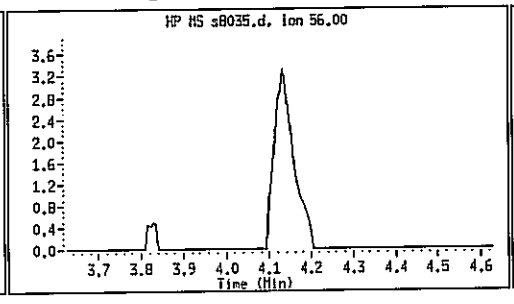


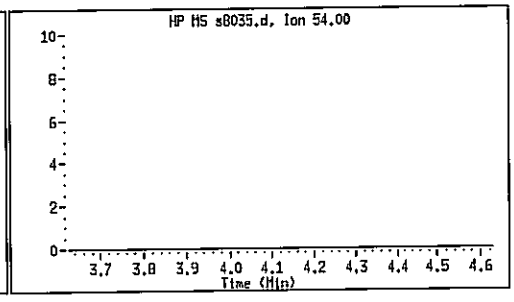




23 Hexane				CAS#: 110-54-3			
.132	0.696	57	19921	3	3	80-120	100
.126	0.695	56	0			0- 0	0
.126	0.695	54	0			0- 0	0







Gulf Coast Analytical Laboratories, Inc.

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Inj Date : 01-SEP-2003 14:17
Operator : RJO Inst ID: msv2.i
Smp Info : 1202*V2STD020*5-1-8
Misc Info : MSV~3672~*1*RJO
Comment :
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Meth Date : 10-Sep-2003 09:59 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 11:23 Cal File: s7793.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.473	1.473	(0.248)	70451	20.0000	19.6
23 Hexane	57	4.129	4.129	(0.696)	85162	20.0000	14.8(M)
2 Chloromethane ++	50	1.684	1.684	(0.284)	85790	20.0000	17.9
3 Vinyl Chloride +	62	1.737	1.737	(0.293)	70699	20.0000	19.3
5 Bromomethane	94	2.020	2.020	(0.340)	29203	20.0000	23.2
6 Chloroethane	64	2.119	2.119	(0.357)	30408	20.0000	24.9
7 Trichlorofluoromethane	101	2.376	2.376	(0.400)	69161	20.0000	19.2
10 1,1-Dichloroethene +	96	2.923	2.923	(0.493)	50170	20.0000	18.5
11 1,1,2Trichlotrifluoroethane	101	2.930	2.930	(0.494)	59514	20.0000	17.1
12 Acetone	43	2.969	2.969	(0.500)	18616	20.0000	15.7(a)
13 Methyl Iodide	142	3.075	3.075	(0.518)	87476	20.0000	15.6
14 Carbon Disulfide	76	3.160	3.160	(0.533)	194884	20.0000	17.3(M)
18 Methylene Chloride	49	3.483	3.483	(0.587)	80227	20.0000	17.1
20 Acrylonitrile	53	3.767	3.767	(0.635)	82902	100.000	71.7
21 trans-1,2-Dichloroethene	61	3.806	3.806	(0.641)	75564	20.0000	17.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15	Methyl Acetate	43	3.378	3.378	(0.569)	34800	20.0000	13.8
9	Acrolein	56	2.791	2.791	(0.470)	25982	100.000	126
22	MTBE	73	3.826	3.826	(0.645)	129411	20.0000	16.3
24	1,1-Dichloroethane ++	63	4.261	4.261	(0.718)	104791	20.0000	16.5
25	Vinyl Acetate	43	4.129	4.129	(0.696)	55614	20.0000	14.0
30	2,2-Dichloropropane	77	4.860	4.860	(0.819)	94191	20.0000	18.3
31	cis-1,2-Dichloroethene	61	4.860	4.860	(0.819)	115907	20.0000	18.4
32	2-Butanone	43	4.887	4.887	(0.823)	32926	20.0000	14.2(a)
36	Bromochloromethane	128	5.091	5.091	(0.858)	31308	20.0000	17.9
37	Chloroform +	83	5.170	5.170	(0.871)	130585	20.0000	19.2
38	Dibromofluoromethane	111	5.315	5.315	(0.896)	65832	20.0000	17.7
39	1,1,1-Trichloroethane	97	5.348	5.348	(0.901)	90777	20.0000	17.5
42	1,1-Dichloropropene	75	5.500	5.500	(0.927)	97095	20.0000	19.4
43	Carbon Tetrachloride	117	5.506	5.506	(0.928)	63173	20.0000	15.7
44	1,2-Dichloroethane-d4	67	5.625	5.625	(0.948)	37744	20.0000	17.7
45	Benzene	78	5.691	5.691	(0.959)	320494	20.0000	20.7
46	1,2-Dichloroethane	62	5.691	5.691	(0.959)	89478	20.0000	17.1
47	FLUOROBENZENE	96	5.934	5.934	(1.000)	736328	50.0000	
48	Trichloroethene	130	6.264	6.264	(1.056)	62632	20.0000	17.9
49	Methyl Cyclohexane	83	6.435	6.435	(1.084)	145170	20.0000	20.8
50	1,2-Dichloropropane +	63	6.442	6.442	(1.085)	90225	20.0000	20.4
51	Dibromomethane	93	6.541	6.541	(1.102)	43579	20.0000	18.8
54	Bromodichloromethane	83	6.672	6.672	(1.124)	103337	20.0000	19.4
55	2-Chloroethyl vinyl ether	63	6.916	6.916	(1.165)	47059	20.0000	20.5
56	cis-1,3-Dichloropropene	75	7.048	7.048	(1.188)	126825	20.0000	20.6
57	4-methyl-2-pentanone	43	7.167	7.167	(1.208)	69058	20.0000	16.4
58	Toluene-d8	98	7.272	7.272	(0.862)	246065	20.0000	19.1
59	Toluene +	91	7.331	7.331	(0.869)	316799	20.0000	19.7
60	trans-1,3-Dichloropropene	75	7.490	7.490	(0.888)	108172	20.0000	17.8
62	1,1,2-Trichloroethane	97	7.641	7.641	(0.906)	65215	20.0000	18.3
64	1,3-Dichloropropane	76	7.779	7.779	(0.922)	124321	20.0000	18.4
65	Tetrachloroethene	164	7.786	7.786	(0.923)	59891	20.0000	24.2
66	2-Hexanone	43	7.832	7.832	(0.928)	53010	20.0000	14.6
68	Dibromochloromethane	129	7.971	7.971	(0.945)	57697	20.0000	15.6
69	1,2-Dibromoethane(EDB)	107	8.069	8.069	(0.956)	60915	20.0000	17.2
70	CHLOROBENZENE-d5	82	8.438	8.438	(1.000)	304806	50.0000	
71	Chlorobenzene ++	112	8.465	8.465	(1.003)	197102	20.0000	18.6
72	1,1,1,2-Tetrachloroethane	133	8.517	8.517	(1.009)	53746	20.0000	16.0
73	Ethylbenzene +	106	8.544	8.544	(1.012)	108386	20.0000	19.5
74	p,m-Xylene	106	8.636	8.636	(1.023)	284988	40.0000	38.6
76	o-Xylene	106	8.952	8.952	(1.061)	136857	20.0000	19.5
77	Styrene	104	8.959	8.959	(1.062)	246015	20.0000	23.0
78	Bromoform ++	173	9.117	9.117	(1.080)	46127	20.0000	19.1
79	Isopropylbenzene	105	9.236	9.236	(1.094)	356770	20.0000	19.2
81	Bromofluorobenzene	174	9.367	9.367	(0.914)	85720	20.0000	20.6
84	1,1,2,2-Tetrachloroethane++	83	9.447	9.447	(0.922)	96709	20.0000	18.4
85	trans-1,4-Dichloro-2-Butene	53	9.493	9.493	(0.926)	23151	20.0000	14.3

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86 1,2,3-Trichloropropane	75	9.493	9.493	(0.926)	117523	20.0000	17.2
87 Bromobenzene	77	9.499	9.499	(0.927)	214691	20.0000	19.2
75 Total 1,2-Dichloroethene	61				191471	40.0000	36.2
88 n-Propylbenzene	91	9.559	9.559	(0.932)	448724	20.0000	19.8
89 2-Chlorotoluene	91	9.644	9.644	(0.941)	272350	20.0000	20.9(M)
90 1,3,5-Trimethylbenzene	105	9.690	9.690	(0.945)	218095	20.0000	19.9
91 4-Chlorotoluene	91	9.730	9.730	(0.949)	295104	20.0000	19.6
92 tert-butylbenzene	91	9.947	9.947	(0.970)	191230	20.0000	18.6
93 1,2,4-Trimethylbenzene	105	9.980	9.980	(0.974)	209524	20.0000	20.4
96 sec-Butylbenzene	105	10.105	10.105	(0.986)	390392	20.0000	19.0
97 p-Isopropyltoluene	119	10.204	10.204	(0.996)	249698	20.0000	17.7
98 1,3-Dichlorobenzene	146	10.211	10.211	(0.996)	155199	20.0000	18.7
99 1,4-DICHLOROBENZENE-D4	152	10.250	10.250	(1.000)	264077	50.0000	
100 1,4-Dichlorobenzene	146	10.270	10.270	(1.002)	159490	20.0000	19.8
101 n-Butylbenzene	91	10.494	10.494	(1.024)	245680	20.0000	21.2
102 1,2-Dichlorobenzene	146	10.540	10.540	(1.028)	144809	20.0000	20.3
103 1,2-Dibromo-3-Chloropropane	157	11.061	11.061	(1.079)	17074	20.0000	19.8
105 1,2,4-Trichlorobenzene	180	11.614	11.614	(1.133)	90157	20.0000	24.2
106 Hexachlorobutadiene	225	11.713	11.713	(1.143)	55915	20.0000	19.8
107 Napthalene	128	11.792	11.792	(1.150)	167893	20.0000	20.4
108 1,2,3-Trichlorobenzene	180	11.957	11.957	(1.166)	84631	20.0000	23.6
109 TOTAL XYLENE	106				421845	60.0000	58.1
40 Cyclohexane	56	5.407	5.407	(0.911)	156595	20.0000	19.8

QC Flag Legend

- Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
I - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030901.s.b/s8036.d
Date : 01-SEP-2003 14:17
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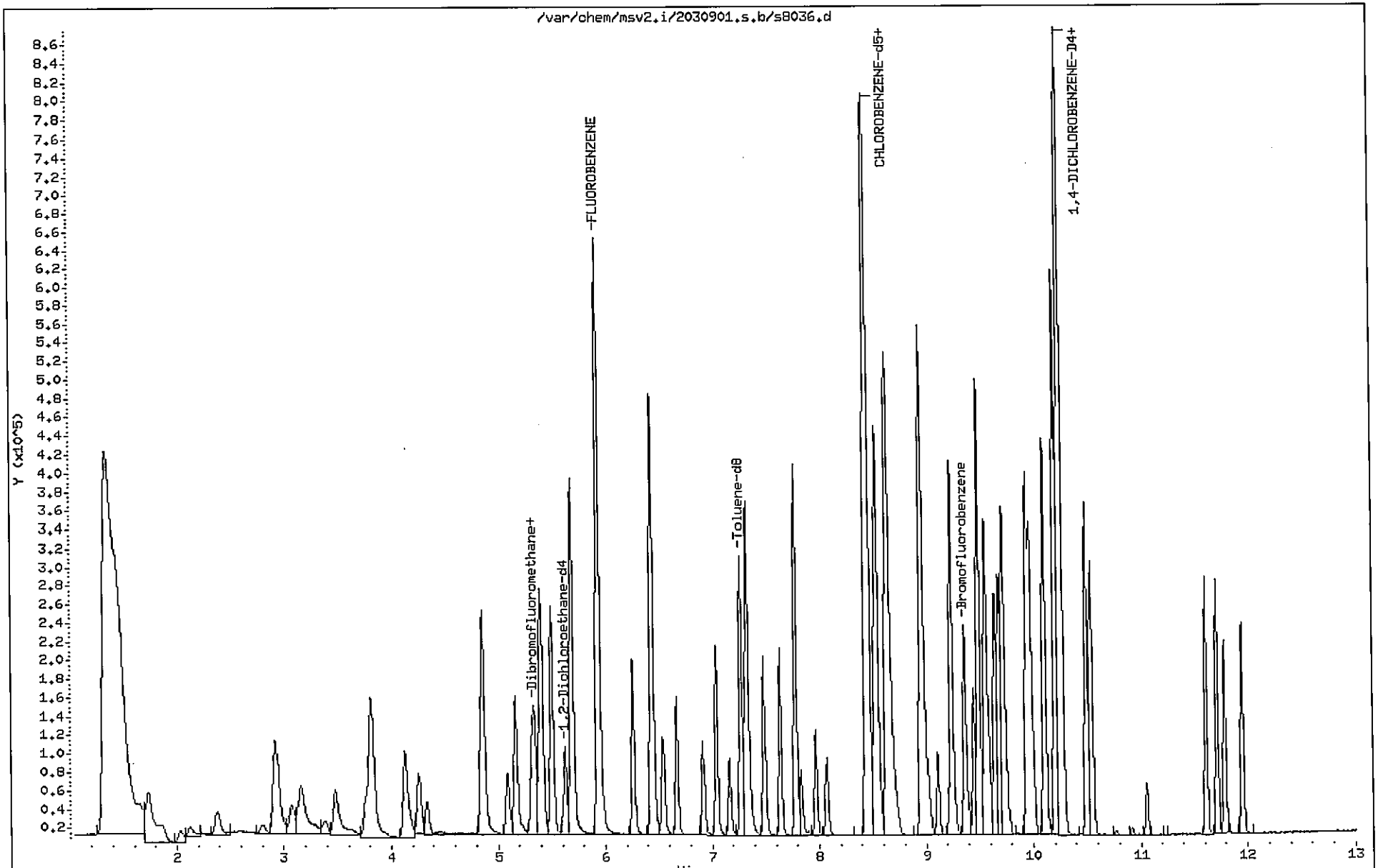
Sample Info: 1202*V2STD020*5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000154



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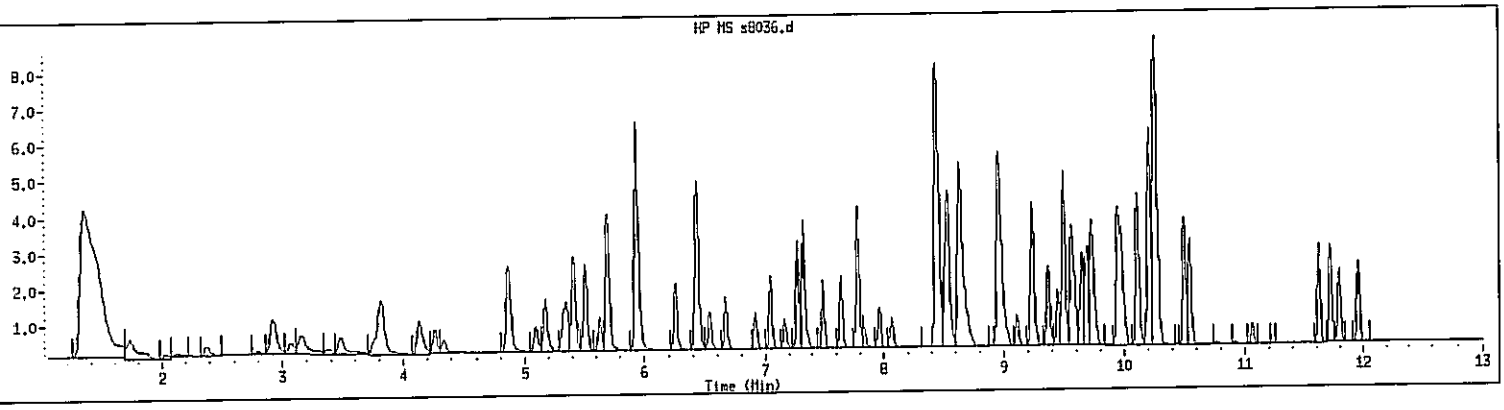
eport Date: 09/10/2003 09:59

MANUAL INTEGRATION GRAPHIC REPORT

ab ID : 1202
njection Date: 01-SEP-2003 14:17
perator : RJO
ample Info : 1202*V2STD020*5-1-8
isc Info : MSV~3672~*1*RJO
ethod : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
ilution : 1.0
atrix : WATER
ntegrator : HP RTE

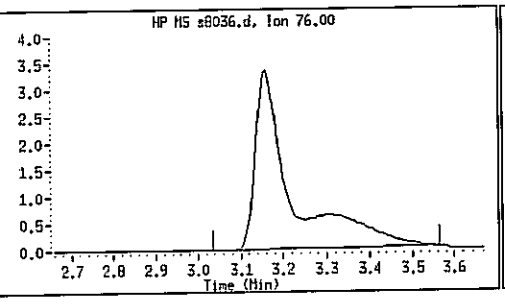
SampleType : CALIB_2
Instrument : msv2.i

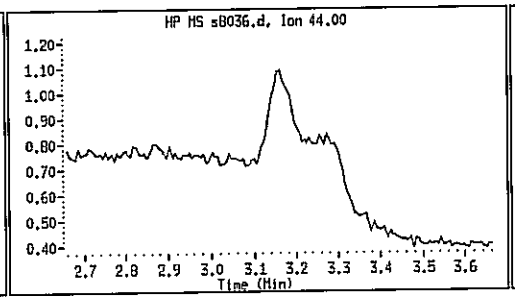
Compound Sublist: 8260B

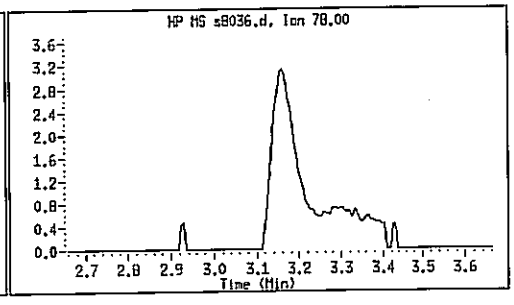


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
14 Carbon Disulfide				CAS#: 75-15-0			
.160	0.533	76	194884	17	17	80-120	100
.160	0.532	44	0			0- 0	0
.160	0.532	78	0			0- 0	0

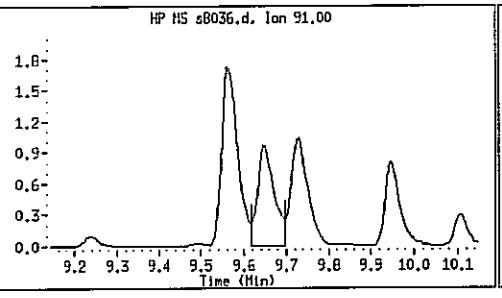


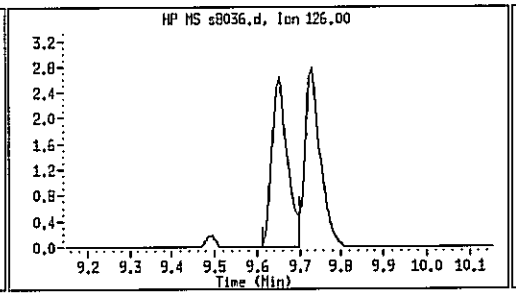


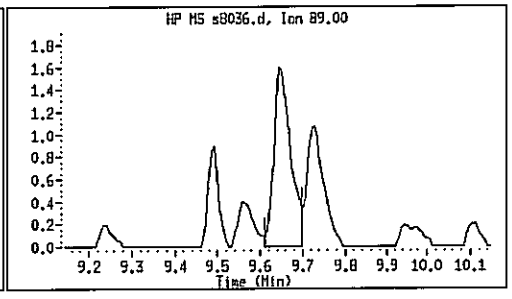


CONCENTRATIONS

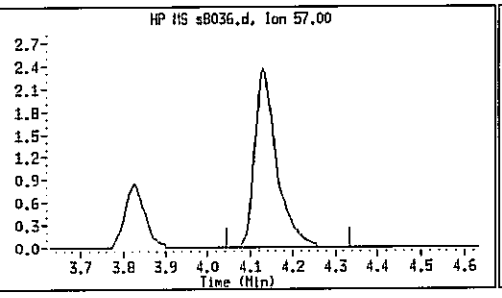
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 2-Chlorotoluene			CAS#: 95-49-8				
9.644	0.941	91	272350	21	21	80-120	100
9.651	0.942	126	66905			20- 29	25
9.644	0.941	89	44135			13- 19	16

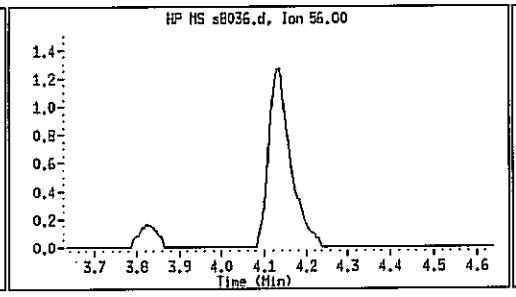


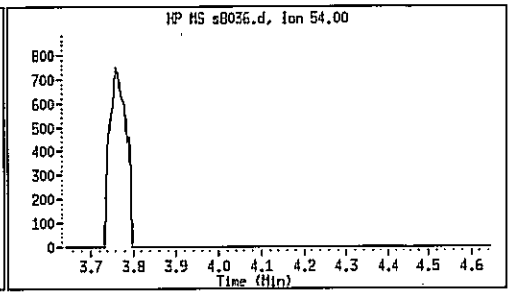




23 Hexane			CAS#: 110-54-3				
.129	0.696	57	85162	15	15	80-120	100
.135	0.697	56	0			0- 0	0
.142	0.698	54	0			0- 0	0







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030901.s.b/s8037.d
Lab Smp Id: 1203 Client Smp ID: V2STD050
Inj Date : 01-SEP-2003 14:38
Operator : RJO Inst ID: msv2.i
Smp Info : 1203*V2STD050*5-1-8
Misc Info : MSV~3672~*1*RJO
Comment :
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 09:59 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 11:44 Cal File: s7794.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.479	1.479	(0.249)	179053	50.0000	50.6
23 Hexane	57	4.128	4.128	(0.695)	233438	50.0000	44.1
2 Chloromethane ++	50	1.690	1.690	(0.285)	213204	50.0000	46.5
3 Vinyl Chloride +	62	1.736	1.736	(0.292)	174851	50.0000	49.7
5 Bromomethane	94	2.026	2.026	(0.341)	62909	50.0000	51.2
6 Chloroethane	64	2.119	2.119	(0.357)	67854	50.0000	57.3
7 Trichlorofluoromethane	101	2.382	2.382	(0.401)	171117	50.0000	50.6
10 1,1-Dichloroethene +	96	2.916	2.916	(0.491)	129301	50.0000	50.6
11 1,1,2Trichlotrifluoroethane	101	2.929	2.929	(0.493)	156505	50.0000	47.4
12 Acetone	43	2.975	2.975	(0.501)	65031	50.0000	56.4
13 Methyl Iodide	142	3.074	3.074	(0.517)	229339	50.0000	43.8
14 Carbon Disulfide	76	3.160	3.160	(0.532)	525974	50.0000	48.7
18 Methylene Chloride	49	3.483	3.483	(0.586)	185888	50.0000	43.1
20 Acrylonitrile	53	3.759	3.759	(0.633)	245873	250.000	228(A)
21 trans-1,2-Dichloroethene	61	3.812	3.812	(0.642)	193859	50.0000	48.0

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
ompounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
==========	====	==	======	======	========	=======	=======
15 Methyl Acetate	43	3.384	3.384	(0.570)	105026	50.0000	43.2
9 Acrolein	56	2.797	2.797	(0.471)	76379	250.000	334(A)
22 MTBE	73	3.825	3.825	(0.644)	362061	50.0000	47.8
24 1,1-Dichloroethane ++	63	4.260	4.260	(0.717)	271079	50.0000	45.1
25 Vinyl Acetate	43	4.128	4.128	(0.695)	147474	50.0000	41.2
30 2,2-Dichloropropane	77	4.860	4.860	(0.818)	242172	50.0000	48.2
31 cis-1,2-Dichloroethene	61	4.860	4.860	(0.818)	302952	50.0000	49.1
32 2-Butanone	43	4.880	4.880	(0.821)	108299	50.0000	49.0
36 Bromochloromethane	128	5.090	5.090	(0.857)	84536	50.0000	49.8
37 Chloroform +	83	5.169	5.169	(0.870)	319241	50.0000	46.9
38 Dibromofluoromethane	111	5.321	5.321	(0.896)	173701	50.0000	47.7
39 1,1,1-Trichloroethane	97	5.347	5.347	(0.900)	235418	50.0000	47.1
42 1,1-Dichloropropene	75	5.506	5.506	(0.927)	257945	50.0000	51.5
43 Carbon Tetrachloride	117	5.506	5.506	(0.927)	165799	50.0000	43.9
44 1,2-Dichloroethane-d4	67	5.624	5.624	(0.947)	103352	50.0000	49.4
45 Benzene	78	5.690	5.690	(0.958)	828417	50.0000	52.4
46 1,2-Dichloroethane	62	5.697	5.697	(0.959)	240109	50.0000	48.0
47 FLUOROBENZENE	96	5.940	5.940	(1.000)	732001	50.0000	
48 Trichloroethene	130	6.263	6.263	(1.054)	168112	50.0000	48.6
49 Methyl Cyclohexane	83	6.435	6.435	(1.083)	389178	50.0000	54.1
50 1,2-Dichloropropane +	63	6.441	6.441	(1.084)	232844	50.0000	51.9
51 Dibromomethane	93	6.540	6.540	(1.101)	121968	50.0000	52.1
54 Bromodichloromethane	83	6.672	6.672	(1.123)	271170	50.0000	50.2
55 2-Chloroethyl vinyl ether	63	6.916	6.916	(1.164)	99006	50.0000	41.3
56 cis-1,3-Dichloropropene	75	7.047	7.047	(1.186)	347324	50.0000	54.4
57 4-methyl-2-pentanone	43	7.166	7.166	(1.206)	209958	50.0000	50.8
58 Toluene-d8	98	7.278	7.278	(0.862)	656020	50.0000	51.4
59 Toluene +	91	7.331	7.331	(0.868)	849948	50.0000	52.6
60 trans-1,3-Dichloropropene	75	7.489	7.489	(0.887)	305380	50.0000	51.0
62 1,1,2-Trichloroethane	97	7.640	7.640	(0.905)	183286	50.0000	51.6
64 1,3-Dichloropropane	76	7.779	7.779	(0.921)	345451	50.0000	51.1
65 Tetrachloroethene	164	7.785	7.785	(0.922)	164433	50.0000	51.2
66 2-Hexanone	43	7.832	7.832	(0.927)	174854	50.0000	50.5
68 Dibromochloromethane	129	7.970	7.970	(0.944)	158881	50.0000	45.1
69 1,2-Dibromoethane(EDB)	107	8.069	8.069	(0.956)	177053	50.0000	50.8
70 CHLOROBENZENE-d5	82	8.444	8.444	(1.000)	301432	50.0000	
71 Chlorobenzene ++	112	8.464	8.464	(1.002)	535966	50.0000	51.0
72 1,1,1,2-Tetrachloroethane	133	8.523	8.523	(1.009)	144502	50.0000	44.8
73 Ethylbenzene +	106	8.543	8.543	(1.012)	294161	50.0000	52.6
74 p,m-Xylene	106	8.635	8.635	(1.023)	772986	100.000	104
76 o-Xylene	106	8.958	8.958	(1.061)	370992	50.0000	52.4
77 Styrene	104	8.965	8.965	(1.062)	680545	50.0000	50.3
78 Bromoform ++	173	9.116	9.116	(1.080)	136049	50.0000	54.6
79 Isopropylbenzene	105	9.235	9.235	(1.094)	971289	50.0000	52.3
81 Bromofluorobenzene	174	9.373	9.373	(0.914)	235418	50.0000	54.8
84 1,1,2,2-Tetrachloroethane++	83	9.453	9.453	(0.922)	281933	50.0000	52.9
85 trans-1,4-Dichloro-2-Butene	53	9.492	9.492	(0.925)	68739	50.0000	46.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86	1,2,3-Trichloropropane	75	9.492	9.492	(0.925)	342360	50.0000	50.7
87	Bromobenzene	77	9.499	9.499	(0.926)	587782	50.0000	52.8
75	Total 1,2-Dichloroethene	61				496811	100.000	97.1
88	n-Propylbenzene	91	9.565	9.565	(0.933)	1229806	50.0000	54.0
89	2-Chlorotoluene	91	9.657	9.657	(0.942)	724693	50.0000	55.6(M)
90	1,3,5-Trimethylbenzene	105	9.690	9.690	(0.945)	514603	50.0000	49.1
91	4-Chlorotoluene	91	9.729	9.729	(0.949)	770649	50.0000	51.8
92	tert-butylbenzene	91	9.947	9.947	(0.970)	503687	50.0000	50.4
93	1,2,4-Trimethylbenzene	105	9.980	9.980	(0.973)	482068	50.0000	49.0
96	sec-Butylbenzene	105	10.111	10.111	(0.986)	1049760	50.0000	51.8
97	p-Isopropyltoluene	119	10.204	10.204	(0.995)	642008	50.0000	47.6
98	1,3-Dichlorobenzene	146	10.210	10.210	(0.996)	413268	50.0000	49.5
99	1,4-DICHLOROBENZENE-D4	152	10.256	10.256	(1.000)	263482	50.0000	
100	1,4-Dichlorobenzene	146	10.270	10.270	(1.001)	438676	50.0000	53.8
101	n-Butylbenzene	91	10.494	10.494	(1.023)	602722	50.0000	52.8
102	1,2-Dichlorobenzene	146	10.540	10.540	(1.028)	391726	50.0000	53.6
103	1,2-Dibromo-3-Chloropropane	157	11.060	11.060	(1.078)	53035	50.0000	58.1
105	1,2,4-Trichlorobenzene	180	11.614	11.614	(1.132)	224621	50.0000	56.8
106	Hexachlorobutadiene	225	11.713	11.713	(1.142)	158529	50.0000	54.1
107	Napthalene	128	11.785	11.785	(1.149)	430535	50.0000	51.9
108	1,2,3-Trichlorobenzene	180	11.950	11.950	(1.165)	221175	50.0000	57.7
109	TOTAL XYLENE	106				1143978	150.000	157
40	Cyclohexane	56	5.407	5.407	(0.910)	407755	50.0000	51.5

QC Flag Legend

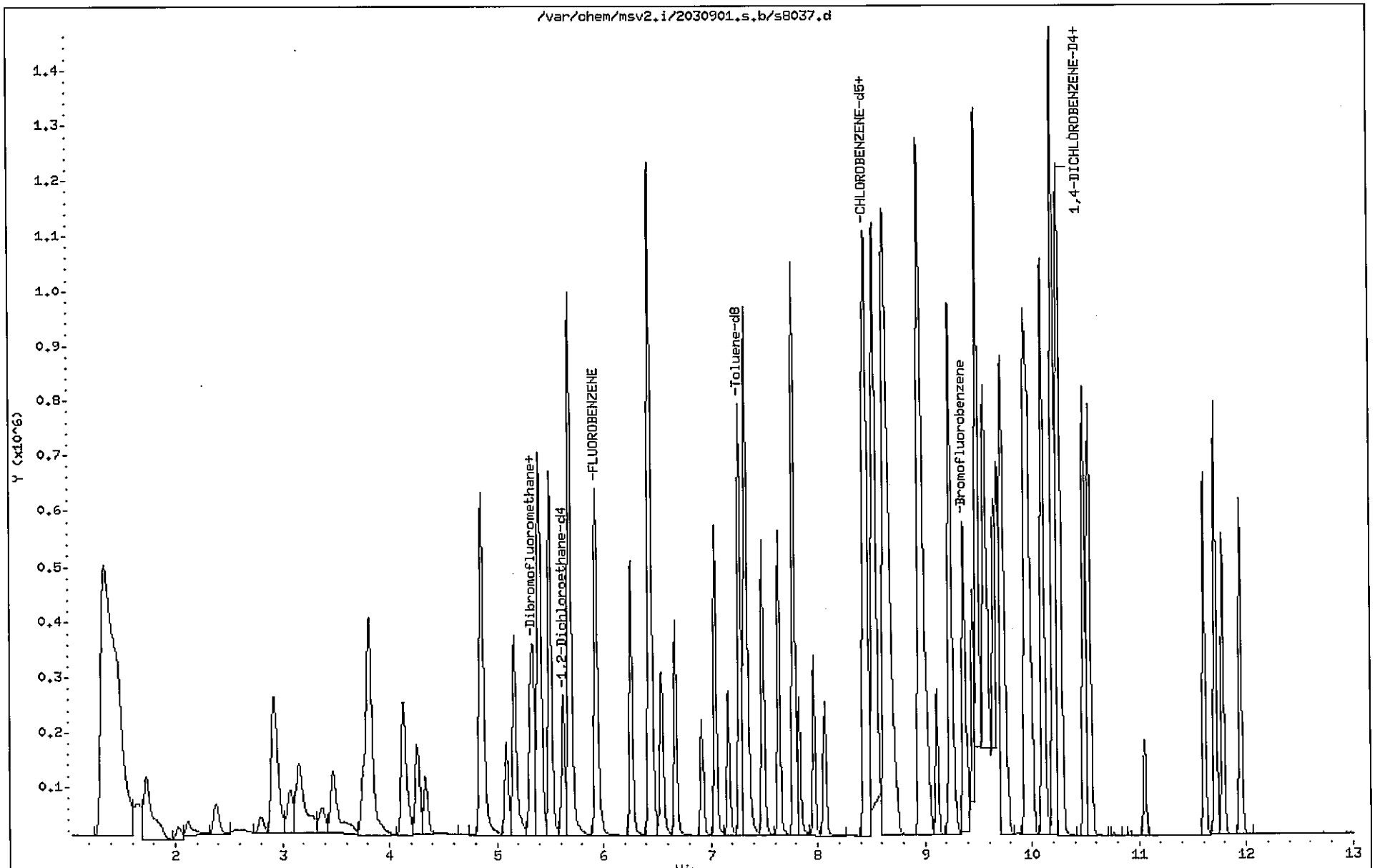
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030901.s.b/s8037.d
Date : 01-SEP-2003 14:38
Client ID: V2STD050
Sample Info: 1203*V2STD050*5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000160

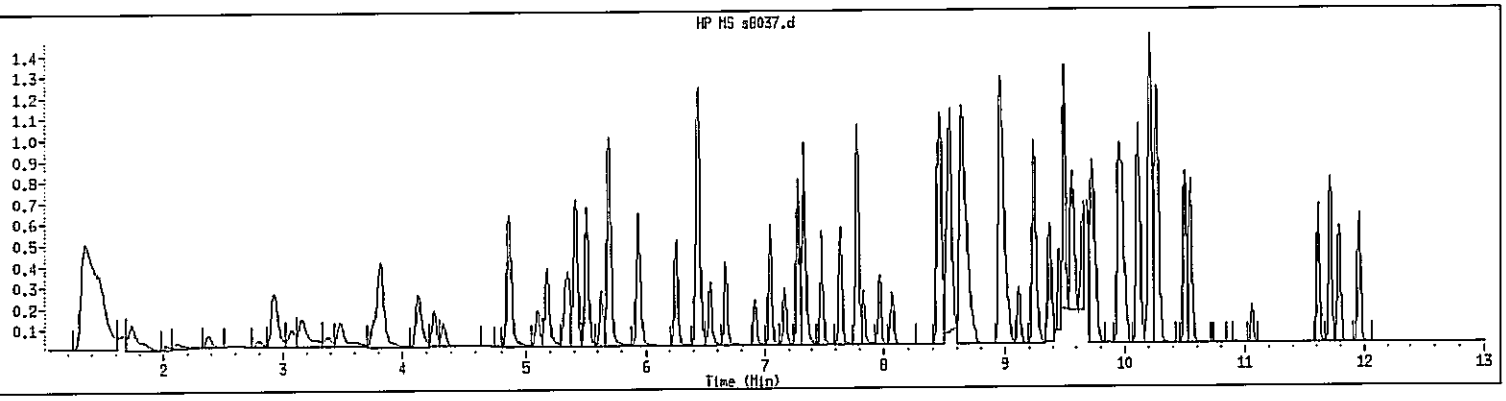


Data file : /var/chem/msv2.i/2030901.s.b/s8037.d
Report Date: 09/10/2003 09:59

MANUAL INTEGRATION GRAPHIC REPORT

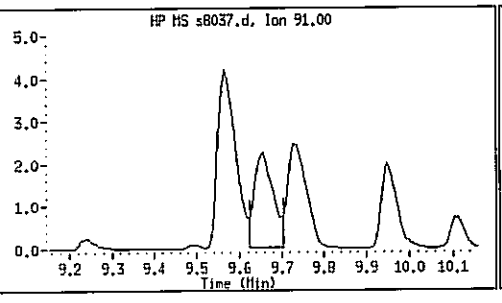
Lab ID : 1203
Injection Date: 01-SEP-2003 14:38
Operator : RJO
Sample Info : 1203*V2STD050*5-1-8
Misc Info : MSV~3672~*1*RJO
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

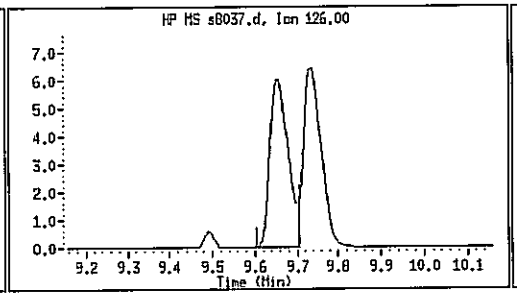
SampleType : CALIB_3
Instrument : msv2.i
Compound Sublist: 8260B

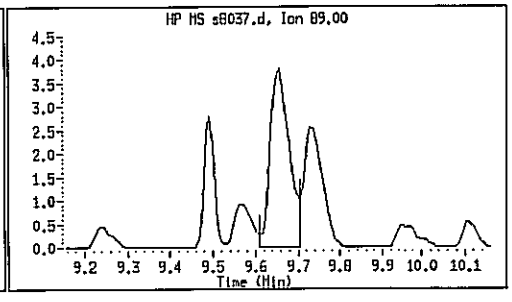


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 2-Chlorotoluene			CAS#: 95-49-8				
.657	0.942	91	724693	56	56	80-120	100
.657	0.942	126	182614			20- 30	25
.657	0.942	89	120248			13- 20	17







Data File: /var/chem/msv2.i/2030901.s.b/s8038.d
Report Date: 10-Sep-2003 09:59

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030901.s.b/s8038.d
Lab Smp Id: 1204 Client Smp ID: V2STD100
Inj Date : 01-SEP-2003 14:58
Operator : RJO Inst ID: msv2.i
Smp Info : 1204*V2STD100*5-1-8
Misc Info : MSV~3672~*1*RJO
Comment :
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 09:59 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 12:05 Cal File: s7795.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.476	1.476	(1.000)	357558	100.000	98.6
23 Hexane	57	4.131	4.131	(1.000)	462484	100.000	91.7
2 Chloromethane ++	50	1.693	1.693	(1.000)	415247	100.000	92.5
3 Vinyl Chloride +	62	1.740	1.740	(1.000)	340143	100.000	98.0
5 Bromomethane	94	2.023	2.023	(1.000)	112085	100.000	90.3
6 Chloroethane	64	2.122	2.122	(1.000)	119672	100.000	100
7 Trichlorofluoromethane	101	2.379	2.379	(1.000)	330213	100.000	99.8
10 1,1-Dichloroethene +	96	2.919	2.919	(1.000)	251329	100.000	101
11 1,1,2Trichlotrifluoroethane	101	2.932	2.932	(1.000)	302807	100.000	93.6
12 Acetone	43	2.972	2.972	(1.000)	110868	100.000	98.5
13 Methyl Iodide	142	3.077	3.077	(1.000)	454569	100.000	92.1
14 Carbon Disulfide	76	3.156	3.156	(1.000)	1032373	100.000	96.8
18 Methylene Chloride	49	3.479	3.479	(1.000)	352579	100.000	82.9
20 Acrylonitrile	53	3.762	3.762	(1.000)	477970	500.000	473(A)
21 trans-1,2-Dichloroethene	61	3.809	3.809	(1.000)	376250	100.000	95.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15 Methyl Acetate	43	3.380	3.380	(1.000)	190256	100.000	80.7
9 Acrolein	56	2.800	2.800	(1.000)	153894	500.000	593(A)
22 MTBE	73	3.828	3.828	(1.000)	734508	100.000	99.6
24 1,1-Dichloroethane ++	63	4.263	4.263	(1.000)	608382	100.000	103
25 Vinyl Acetate	43	4.131	4.131	(1.000)	279461	100.000	84.5
30 2,2-Dichloropropane	77	4.863	4.863	(1.000)	483543	100.000	96.7
31 cis-1,2-Dichloroethene	61	4.863	4.863	(1.000)	601887	100.000	98.1
32 2-Butanone	43	4.883	4.883	(1.000)	199069	100.000	93.7
36 Bromochloromethane	128	5.093	5.093	(1.000)	174481	100.000	104
37 Chloroform +	83	5.173	5.173	(1.000)	630689	100.000	91.4
38 Dibromofluoromethane	111	5.318	5.318	(1.000)	353878	100.000	98.2
39 1,1,1-Trichloroethane	97	5.351	5.351	(1.000)	477376	100.000	96.6
42 1,1-Dichloropropene	75	5.502	5.502	(1.000)	509216	100.000	100
43 Carbon Tetrachloride	117	5.509	5.509	(1.000)	335232	100.000	92.7
44 1,2-Dichloroethane-d4	67	5.627	5.627	(1.000)	211558	100.000	101
45 Benzene	78	5.693	5.693	(1.000)	1662418	100.000	101
46 1,2-Dichloroethane	62	5.693	5.693	(1.000)	478519	100.000	98.3
47 FLUOROBENZENE	96	5.937	5.937	(1.000)	749652	50.0000	(M)
48 Trichloroethene	130	6.260	6.260	(1.000)	344542	100.000	98.8
49 Methyl Cyclohexane	83	6.438	6.438	(1.000)	787241	100.000	103
50 1,2-Dichloropropane +	63	6.444	6.444	(1.000)	458310	100.000	99.6
51 Dibromomethane	93	6.543	6.543	(1.000)	250596	100.000	104
54 Bromodichloromethane	83	6.675	6.675	(1.000)	550182	100.000	99.2
55 2-Chloroethyl vinyl ether	63	6.919	6.919	(1.000)	303106	100.000	109
56 cis-1,3-Dichloropropene	75	7.044	7.044	(1.000)	715099	100.000	107
57 4-methyl-2-pentanone	43	7.163	7.163	(1.000)	434436	100.000	105
58 Toluene-d8	98	7.275	7.275	(0.862)	1372158	100.000	103
59 Toluene +	91	7.327	7.327	(0.868)	1766779	100.000	104
60 trans-1,3-Dichloropropene	75	7.492	7.492	(0.888)	623259	100.000	103
62 1,1,2-Trichloroethane	97	7.644	7.644	(0.906)	383834	100.000	104
64 1,3-Dichloropropane	76	7.782	7.782	(0.922)	695707	100.000	100
65 Tetrachloroethene	164	7.789	7.789	(0.923)	346644	100.000	95.0
66 2-Hexanone	43	7.835	7.835	(0.928)	344541	100.000	102
68 Dibromochloromethane	129	7.973	7.973	(0.945)	331050	100.000	95.5
69 1,2-Dibromoethane(EDB)	107	8.072	8.072	(0.956)	374289	100.000	105
70 CHLOROBENZENE-d5	82	8.441	8.441	(1.000)	314403	50.0000	
71 Chlorobenzene ++	112	8.467	8.467	(1.003)	1112594	100.000	102
72 1,1,1,2-Tetrachloroethane	133	8.520	8.520	(1.009)	303222	100.000	95.2
73 Ethylbenzene +	106	8.546	8.546	(1.012)	606415	100.000	103
74 p,m-Xylene	106	8.639	8.639	(1.023)	1611363	200.000	206
76 o-Xylene	106	8.955	8.955	(1.061)	772780	100.000	103
77 Styrene	104	8.961	8.961	(1.062)	1416769	100.000	93.2
78 Bromoform ++	173	9.113	9.113	(1.080)	286253	100.000	108
79 Isopropylbenzene	105	9.238	9.238	(1.094)	2000306	100.000	103
81 Bromofluorobenzene	174	9.370	9.370	(0.914)	491600	100.000	107
84 1,1,2,2-Tetrachloroethane++	83	9.449	9.449	(0.922)	576137	100.000	105
85 trans-1,4-Dichloro-2-Butene	53	9.489	9.489	(0.925)	134261	100.000	96.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86 1,2,3-Trichloropropane	75	9.495	9.495	(0.926)	684990	100.000	101
87 Bromobenzene	77	9.495	9.495	(0.926)	1179162	100.000	103
75 Total 1,2-Dichloroethene	61				980137	200.000	194
88 n-Propylbenzene	91	9.568	9.568	(0.933)	2476066	100.000	104
89 2-Chlorotoluene	91	9.653	9.653	(0.942)	1147181	100.000	86.0
90 1,3,5-Trimethylbenzene	105	9.693	9.693	(0.945)	1042415	100.000	94.8
91 4-Chlorotoluene	91	9.732	9.732	(0.949)	1602615	100.000	103
92 tert-butylbenzene	91	9.950	9.950	(0.970)	1015933	100.000	99.5
93 1,2,4-Trimethylbenzene	105	9.983	9.983	(0.974)	952129	100.000	92.5
96 sec-Butylbenzene	105	10.108	10.108	(0.986)	2167933	100.000	103
97 p-Isopropyltoluene	119	10.207	10.207	(0.996)	1317874	100.000	95.1
98 1,3-Dichlorobenzene	146	10.213	10.213	(0.996)	873582	100.000	100
99 1,4-DICHLOROBENZENE-D4	152	10.253	10.253	(1.000)	278306	50.0000	
100 1,4-Dichlorobenzene	146	10.273	10.273	(1.002)	875895	100.000	101
101 n-Butylbenzene	91	10.497	10.497	(1.024)	1197913	100.000	97.7
102 1,2-Dichlorobenzene	146	10.543	10.543	(1.028)	816794	100.000	104
103 1,2-Dibromo-3-Chloropropane	157	11.057	11.057	(1.078)	111626	100.000	113
105 1,2,4-Trichlorobenzene	180	11.604	11.604	(1.132)	419965	100.000	97.2
106 Hexachlorobutadiene	225	11.709	11.709	(1.142)	313302	100.000	101
107 Napthalene	128	11.782	11.782	(1.149)	788770	100.000	92.6
108 1,2,3-Trichlorobenzene	180	11.946	11.946	(1.165)	415495	100.000	99.6
109 TOTAL XYLENE	106				2384143	300.000	309
40 Cyclohexane	56	5.410	5.410	(1.000)	804712	100.000	98.9

QC Flag Legend

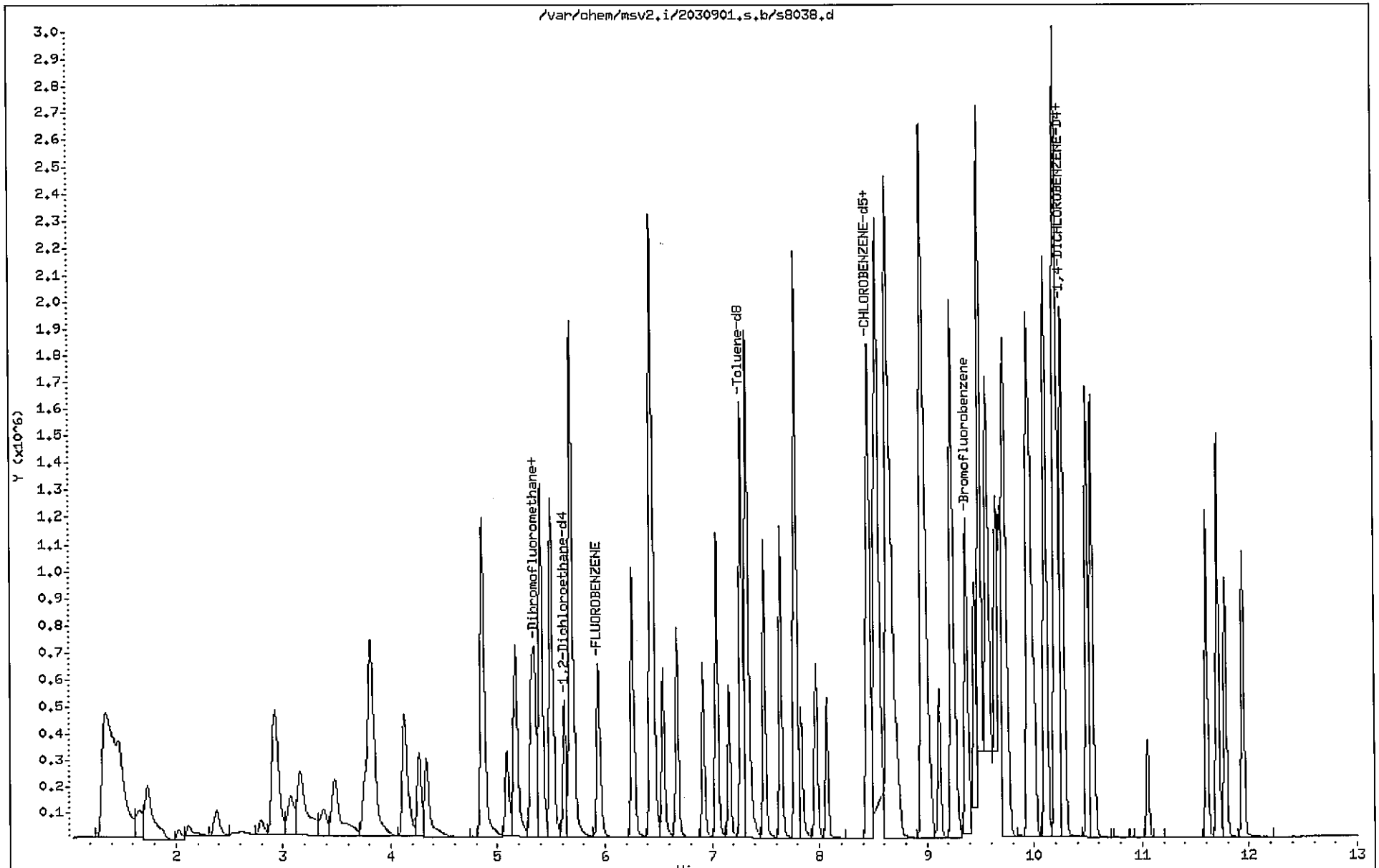
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030901.s.b/s8038.d
Date : 01-SEP-2003 14:58
Client ID: V2STD100
Sample Info: 1204*V2STD100*5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000165

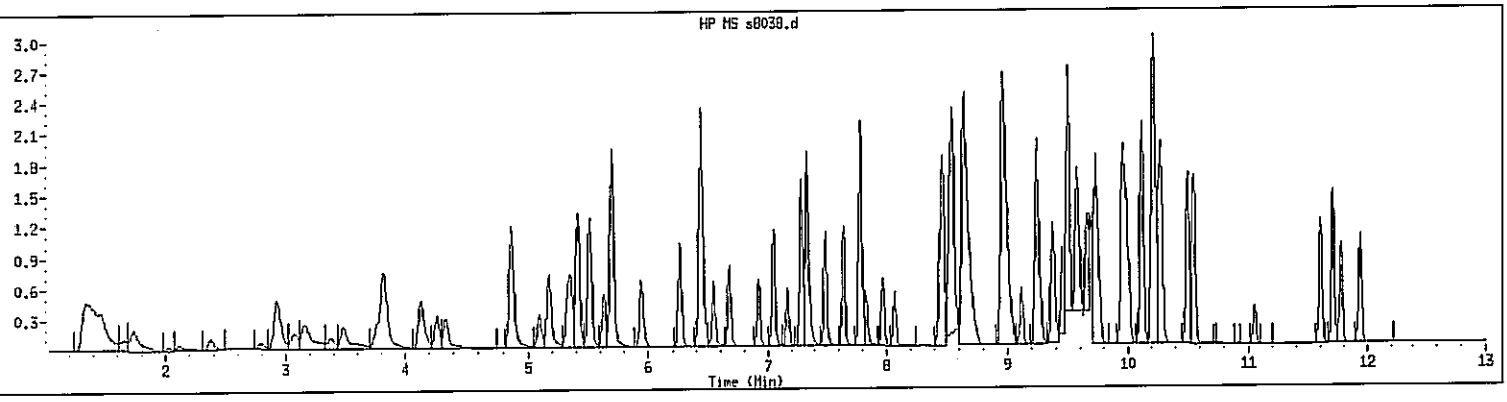


Data file : /var/chem/msv2.i/2030901.s.b/s8038.d
Report Date: 09/10/2003 09:59

MANUAL INTEGRATION GRAPHIC REPORT

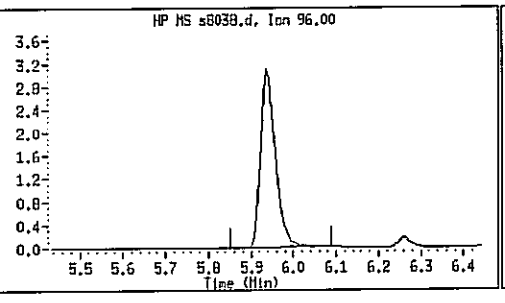
Lab ID : 1204
Injection Date: 01-SEP-2003 14:58
Operator : RJO
Sample Info : 1204*V2STD100*5-1-8
Misc Info : MSV~3672~*1*RJO
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

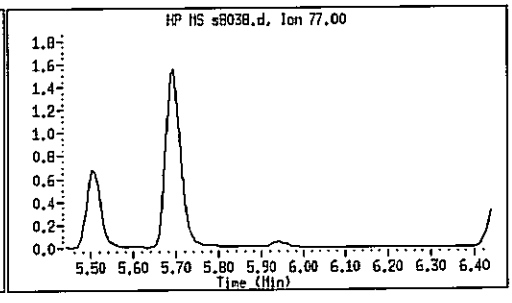
SampleType : CALIB_4
Instrument : msv2.i
Compound Sublist: 8260B



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 47 FLUOROBENZENE			CAS#: 462-06-6				
5.937	1.000	96	749652	50	50	80-120	100
5.940	1.001	77	0			0- 0	0





Data File: /var/chem/msv2.i/2030901.s.b/s8039.d
Report Date: 10-Sep-2003 09:59

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030901.s.b/s8039.d
Lab Smp Id: 1205 Client Smp ID: V2STD200
Inj Date : 01-SEP-2003 15:19
Operator : RJO Inst ID: msv2.i
Smp Info : 1205*V2STD200*5-1-8
Misc Info : MSV~3672~*1*RJO
Comment :
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 09:59 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.481	1.481	(1.000)	690780	200.000	188
23 Hexane	57	4.130	4.130	(1.000)	877278	200.000	190
2 Chloromethane ++	50	1.711	1.711	(1.000)	826123	200.000	185
3 Vinyl Chloride +	62	1.738	1.738	(1.000)	667758	200.000	193
5 Bromomethane	94	2.021	2.021	(1.000)	196968	200.000	153
6 Chloroethane	64	2.113	2.113	(1.000)	200646	200.000	162
7 Trichlorofluoromethane	101	2.377	2.377	(1.000)	614684	200.000	190
10 1,1-Dichloroethene +	96	2.917	2.917	(1.000)	497737	200.000	204(A)
11 1,1,2Trichlotrifluoroethane	101	2.930	2.930	(1.000)	571437	200.000	182
12 Acetone	43	2.976	2.976	(1.000)	217692	200.000	190
13 Methyl Iodide	142	3.075	3.075	(1.000)	906573	200.000	195
14 Carbon Disulfide	76	3.161	3.161	(1.000)	2048448	200.000	193
18 Methylene Chloride	49	3.477	3.477	(1.000)	741088	200.000	200(A)
20 Acrylonitrile	53	3.767	3.767	(1.000)	984209	1000.00	998(A)
21 trans-1,2-Dichloroethene	61	3.807	3.807	(1.000)	747809	200.000	190

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15 Methyl Acetate	43	3.378	3.378	(1.000)	392821	200.000	199
9 Acrolein	56	2.799	2.799	(1.000)	286346	1000.00	962(A)
22 MTBE	73	3.826	3.826	(1.000)	1484222	200.000	200
24 1,1-Dichloroethane ++	63	4.268	4.268	(1.000)	1145762	200.000	199
25 Vinyl Acetate	43	4.130	4.130	(1.000)	534093	200.000	182
30 2,2-Dichloropropane	77	4.861	4.861	(1.000)	958638	200.000	192
31 cis-1,2-Dichloroethene	61	4.861	4.861	(1.000)	1188218	200.000	193
32 2-Butanone	43	4.881	4.881	(1.000)	390672	200.000	190
36 Bromochloromethane	128	5.092	5.092	(1.000)	362806	200.000	217(A)
37 Chloroform +	83	5.171	5.171	(1.000)	1264214	200.000	179
38 Dibromofluoromethane	111	5.322	5.322	(1.000)	720727	200.000	201(A)
39 1,1,1-Trichloroethane	97	5.349	5.349	(1.000)	949903	200.000	196
42 1,1-Dichloropropene	75	5.500	5.500	(1.000)	988876	200.000	193
43 Carbon Tetrachloride	117	5.507	5.507	(1.000)	668563	200.000	197
44 1,2-Dichloroethane-d4	67	5.625	5.625	(1.000)	426430	200.000	201(A)
45 Benzene	78	5.691	5.691	(1.000)	3226573	200.000	191
46 1,2-Dichloroethane	62	5.698	5.698	(1.000)	940043	200.000	193
47 FLUOROBENZENE	96	5.935	5.935	(1.000)	786314	50.0000	(M)
48 Trichloroethene	130	6.265	6.265	(1.000)	709043	200.000	206(A)
49 Methyl Cyclohexane	83	6.436	6.436	(1.000)	1482486	200.000	192
50 1,2-Dichloropropane +	63	6.442	6.442	(1.000)	859177	200.000	183
51 Dibromomethane	93	6.541	6.541	(1.000)	516595	200.000	208(A)
54 Bromodichloromethane	83	6.673	6.673	(1.000)	1128538	200.000	196
55 2-Chloroethyl vinyl ether	63	6.917	6.917	(1.000)	595011	200.000	197
56 cis-1,3-Dichloropropene	75	7.049	7.049	(1.000)	1450058	200.000	206(A)
57 4-methyl-2-pentanone	43	7.167	7.167	(1.000)	845444	200.000	204(A)
58 Toluene-d8	98	7.279	7.279	(0.862)	2780705	200.000	206(A)
59 Toluene +	91	7.332	7.332	(0.868)	3550686	200.000	204(A)
60 trans-1,3-Dichloropropene	75	7.490	7.490	(0.887)	1271723	200.000	207(A)
62 1,1,2-Trichloroethane	97	7.642	7.642	(0.905)	794163	200.000	210(A)
64 1,3-Dichloropropane	76	7.780	7.780	(0.921)	1345027	200.000	194
65 Tetrachloroethene	164	7.787	7.787	(0.922)	696944	200.000	198
66 2-Hexanone	43	7.833	7.833	(0.927)	690844	200.000	208(A)
68 Dibromochloromethane	129	7.971	7.971	(0.944)	689964	200.000	207(A)
69 1,2-Dibromoethane(EDB)	107	8.070	8.070	(0.956)	785820	200.000	216(A)
70 CHLOROBENZENE-d5	82	8.446	8.446	(1.000)	327139	50.0000	
71 Chlorobenzene ++	112	8.465	8.465	(1.002)	2282371	200.000	207(A)
72 1,1,1,2-Tetrachloroethane	133	8.525	8.525	(1.009)	624111	200.000	208(A)
73 Ethylbenzene +	106	8.544	8.544	(1.012)	1255825	200.000	210(A)
74 p,m-Xylene	106	8.637	8.637	(1.023)	3294445	400.000	416(A)
76 o-Xylene	106	8.960	8.960	(1.061)	1580060	200.000	209(A)
77 Styrene	104	8.966	8.966	(1.062)	2933307	200.000	199
78 Bromoform ++	173	9.118	9.118	(1.080)	613992	200.000	220(A)
79 Isopropylbenzene	105	9.243	9.243	(1.094)	4083115	200.000	208(A)
81 Bromofluorobenzene	174	9.375	9.375	(0.914)	1052591	200.000	214(A)
84 1,1,2,2-Tetrachloroethane++	83	9.447	9.447	(0.921)	1183463	200.000	203(A)
85 trans-1,4-Dichloro-2-Butene	53	9.487	9.487	(0.925)	245560	200.000	183

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86	1,2,3-Trichloropropane	75	9.493	9.493	(0.925)	1312692	200.000	191
87	Bromobenzene	77	9.500	9.500	(0.926)	2290693	200.000	192
75	Total 1,2-Dichloroethene	61				1936027	400.000	384
88	n-Propylbenzene	91	9.572	9.572	(0.933)	5086759	200.000	203(A)
89	2-Chlorotoluene	91	9.658	9.658	(0.942)	2417378	200.000	176
90	1,3,5-Trimethylbenzene	105	9.717	9.717	(0.947)	1825491	200.000	169
91	4-Chlorotoluene	91	9.737	9.737	(0.949)	3177429	200.000	198
92	tert-butylbenzene	91	9.955	9.955	(0.970)	1990648	200.000	193
93	1,2,4-Trimethylbenzene	105	9.981	9.981	(0.973)	1593579	200.000	158
96	sec-Butylbenzene	105	10.113	10.113	(0.986)	4376334	200.000	203(A)
97	p-Isopropyltoluene	119	10.212	10.212	(0.996)	2395833	200.000	183
98	1,3-Dichlorobenzene	146	10.218	10.218	(0.996)	1682954	200.000	197
99	1,4-DICHLOROBENZENE-D4	152	10.258	10.258	(1.000)	291043	50.0000	
100	1,4-Dichlorobenzene	146	10.277	10.277	(1.002)	1820480	200.000	202(A)
101	n-Butylbenzene	91	10.495	10.495	(1.023)	2126830	200.000	173
102	1,2-Dichlorobenzene	146	10.541	10.541	(1.028)	1674968	200.000	205(A)
103	1,2-Dibromo-3-Chloropropane	157	11.055	11.055	(1.078)	230897	200.000	214(A)
105	1,2,4-Trichlorobenzene	180	11.609	11.609	(1.132)	766512	200.000	167
106	Hexachlorobutadiene	225	11.707	11.707	(1.141)	633079	200.000	200(A)
107	Napthalene	128	11.780	11.780	(1.148)	1424703	200.000	161
108	1,2,3-Trichlorobenzene	180	11.945	11.945	(1.164)	783354	200.000	174
109	TOTAL XYLENE	106				4874505	600.000	625
40	Cyclohexane	56	5.408	5.408	(1.000)	1501435	200.000	185

QC Flag Legend

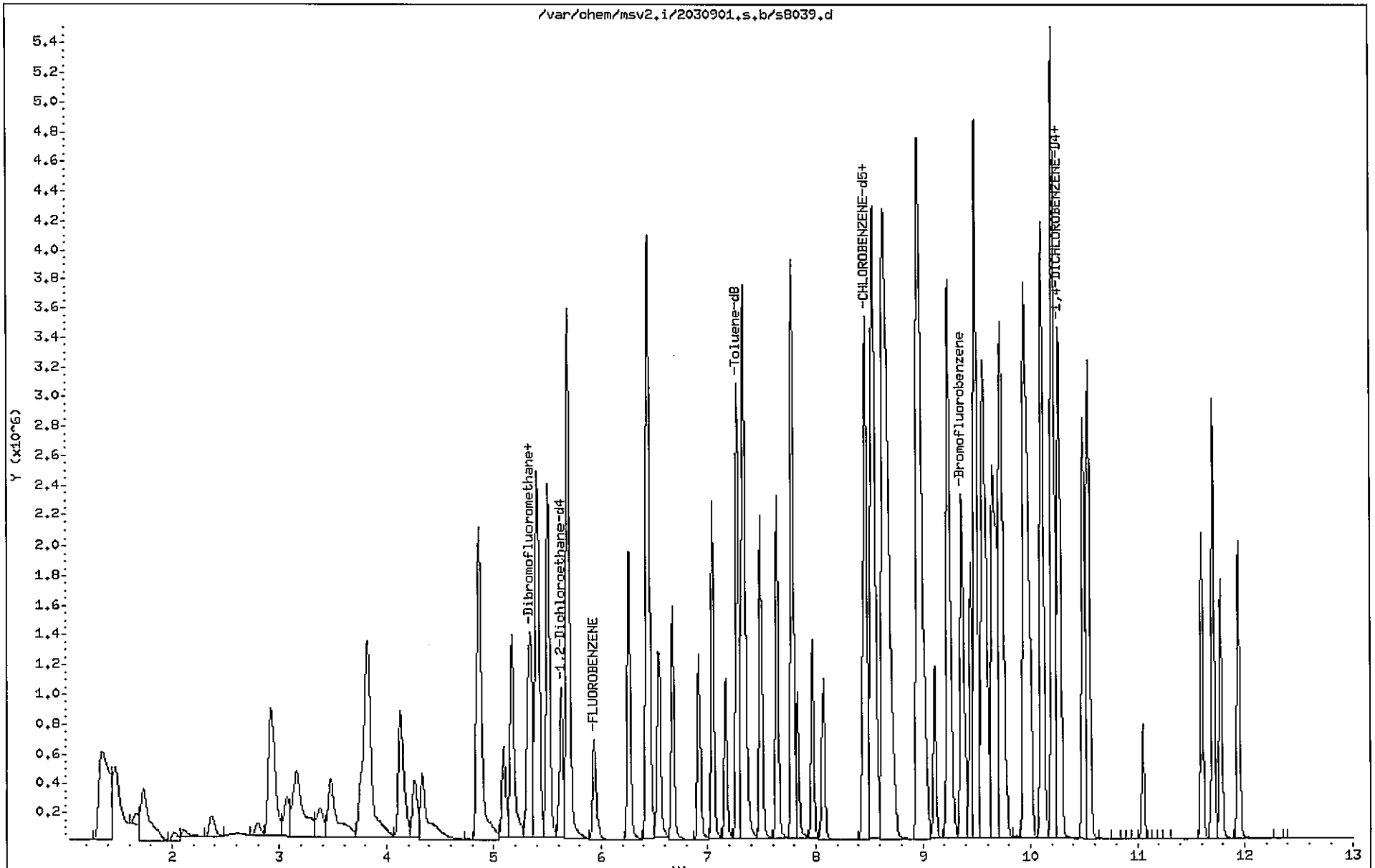
A - Target compound detected but, quantitated amount exceeded maximum amount.
I - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030901.s.b/s8039.d
Date : 01-SEP-2003 15:19
Client ID: V2STD200
Sample Info: 1205*V2STD200*5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000170

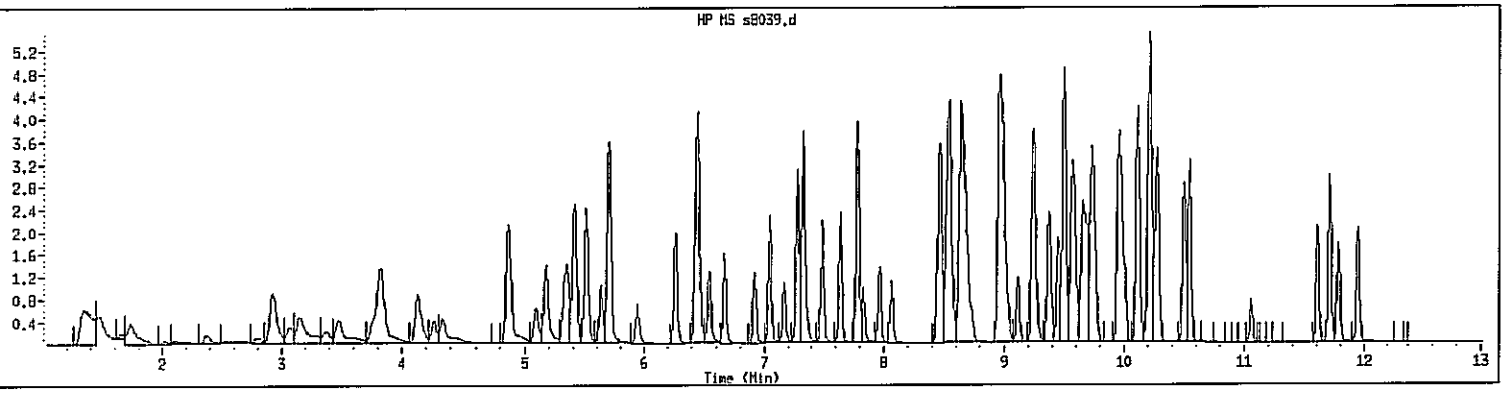


Data file : /var/chem/msv2.i/2030901.s.b/s8039.d
Report Date: 09/10/2003 09:59

MANUAL INTEGRATION GRAPHIC REPORT

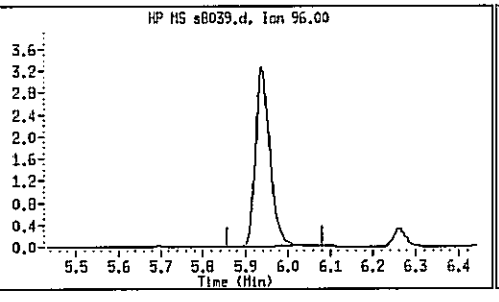
Lab ID : 1205
Injection Date: 01-SEP-2003 15:19
Operator : RJO
Sample Info : 1205*V2STD200*5-1-8
Misc Info : MSV~3672~*1*RJO
Method : /var/chem/msv2.i/2030901.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

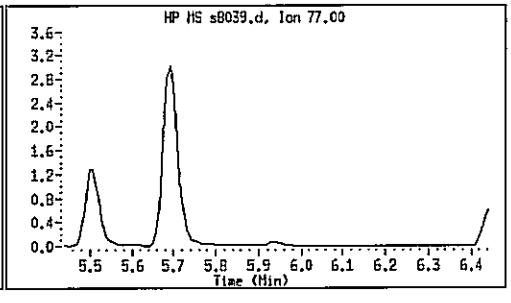
SampleType : CALIB_5
Instrument : msv2.i
Compound Sublist: 8260B



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 47 FLUOROBENZENE			CAS#: 462-06-6				
.935	1.000	96	786314	50	50	80-120	100
.940	1.001	77	0			0- 0	0





Data File: /var/chem/msv2.i/2030902.s.b/s8052.d
Report Date: 12-Sep-2003 09:11

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: ch2-ICV.spk
Sublist File: 8260B.sub
Method File: /var/chem/msv2.i/2030902.s.b/8260Bw2.m
Misc Info: MSV~3649~*1*RJO

Client SDG: 2030902.s
Fraction: VOA

Operator: RJO
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	40.8	81.66	80-120
2 Chloromethane ++	50.0	48.3	96.53	80-120
3 Vinyl Chloride +	50.0	49.7	99.32	80-120
5 Bromomethane	50.0	52.4	104.80	80-120
6 Chloroethane	50.0	55.8	111.69	80-120
7 Trichlorofluoromet	50.0	43.9	87.75	80-120
9 Acrolein	250	287	114.60	80-120
10 1,1-Dichloroethene	50.0	50.6	101.22	80-120
11 1,1,2Trichlotriflu	50.0	44.0	87.99	80-120
12 Acetone	50.0	45.8	91.59	80-120
13 Methyl Iodide	50.0	50.9	101.88	80-120
14 Carbon Disulfide	50.0	47.9	95.71	80-120
18 Methylene Chloride	50.0	50.1	100.15	80-120
20 Acrylonitrile	250	269	107.74	80-120
19 2-Chloropropene	50.0	0.00	*	80-120
21 trans-1,2-Dichloro	50.0	49.3	98.66	80-120
22 MTBE	50.0	51.9	103.80	80-120
24 1,1-Dichloroethane	50.0	47.5	95.01	80-120
25 Vinyl Acetate	50.0	47.3	94.56	80-120
31 cis-1,2-Dichloroet	50.0	49.5	98.90	80-120
30 2,2-Dichloropropan	50.0	46.3	92.50	80-120
32 2-Butanone	50.0	46.1	92.29	80-120
36 Bromochloromethane	50.0	49.7	99.31	80-120
37 Chloroform +	50.0	45.5	91.01	80-120
39 1,1,1-Trichloroeth	50.0	45.3	90.62	80-120
42 1,1-Dichloropropen	50.0	46.7	93.42	80-120
43 Carbon Tetrachlori	50.0	44.1	88.18	80-120
46 1,2-Dichloroethane	50.0	49.8	99.64	80-120
45 Benzene	50.0	49.6	99.27	80-120
48 Trichloroethene	50.0	48.3	96.68	80-120
50 1,2-Dichloropropan	50.0	50.5	100.91	80-120
51 Dibromomethane	50.0	50.1	100.15	80-120
54 Bromodichlorometha	50.0	47.9	95.73	80-120

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	55	2-Chloroethyl viny	50.0	50.8	101.51	80-120
	56	cis-1,3-Dichloropr	50.0	51.1	102.25	80-120
	57	4-methyl-2-pentano	50.0	47.0	93.97	80-120
	59	Toluene +	50.0	46.7	93.49	80-120
	60	trans-1,3-Dichloro	50.0	49.4	98.86	80-120
	62	1,1,2-Trichloroeth	50.0	48.2	96.43	80-120
	64	1,3-Dichloropropan	50.0	49.3	98.57	80-120
	65	Tetrachloroethene	50.0	45.2	90.46	80-120
	66	2-Hexanone	50.0	46.1	92.12	80-120
	68	Dibromochlorometha	50.0	47.2	94.33	80-120
	69	1,2-Dibromoethane(	50.0	47.9	95.74	80-120
	71	Chlorobenzene ++	50.0	47.7	95.43	80-120
	72	1,1,1,2-Tetrachlor	50.0	48.5	97.07	80-120
	73	Ethylbenzene +	50.0	46.4	92.74	80-120
	74	p,m-Xylene	100	95.0	94.99	80-120
M	75	Total 1,2-Dichloro	100	98.8	98.78	80-120
	76	o-Xylene	50.0	48.5	96.98	80-120
	77	Styrene	50.0	49.3	98.53	80-120
	78	Bromoform ++	50.0	48.4	96.74	80-120
	79	Isopropylbenzene	50.0	46.4	92.71	80-120
	84	1,1,2,2-Tetrachlor	50.0	46.9	93.78	80-120
	85	trans-1,4-Dichloro	50.0	48.9	97.76	80-120
	86	1,2,3-Trichloropro	50.0	48.1	96.26	80-120
	87	Bromobenzene	50.0	48.2	96.35	80-120
	88	n-Propylbenzene	50.0	45.9	91.77	80-120
	89	2-Chlorotoluene	50.0	51.5	103.00	80-120
	90	1,3,5-Trimethylben	50.0	49.7	99.39	80-120
	91	4-Chlorotoluene	50.0	48.5	96.92	80-120
	92	tert-butylbenzene	50.0	46.6	93.29	80-120
	93	1,2,4-Trimethylben	50.0	50.4	100.74	80-120
	96	sec-Butylbenzene	50.0	45.9	91.72	80-120
	97	p-Isopropyltoluene	50.0	49.4	98.81	80-120
	98	1,3-Dichlorobenzen	50.0	49.3	98.53	80-120
	100	1,4-Dichlorobenzen	50.0	49.5	98.95	80-120
	102	1,2-Dichlorobenzen	50.0	49.1	98.23	80-120
	101	n-Butylbenzene	50.0	49.4	98.71	80-120
	103	1,2-Dibromo-3-Chlo	50.0	47.4	94.78	80-120
	105	1,2,4-Trichloroben	50.0	51.8	103.69	80-120
	106	Hexachlorobutadien	50.0	48.5	96.91	80-120
	107	Napthalene	50.0	50.0	99.99	80-120
	108	1,2,3-Trichloroben	50.0	52.1	104.28	80-120
M	109	TOTAL XYLENE	150	143	95.65	80-120

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: ch2-ICV.spk
Sublist File: 8260B.sub
Method File: /var/chem/msv2.i/2030902.s.b/8260Bw2.m
Misc Info: MSV~3649~*1*RJO

Client SDG: 2030902.s
Fraction: VOA

Operator: RJO
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 38 Dibromofluorometha	50.0	52.7	105.41	70-130
$ 44 1,2-Dichloroethane	50.0	50.7	101.40	76-128
$ 58 Toluene-d8	50.0	51.2	102.48	83-112
$ 81 Bromofluorobenzene	50.0	48.8	97.64	78-115

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030902.s.b/s8052.d
Lab Smp Id: ICV
Inj Date : 02-SEP-2003 14:27
Operator : RJO Inst ID: msv2.i
Smp Info : ICV
Misc Info : MSV~3649~*1*RJO
Comment :
Method : /var/chem/msv2.i/2030902.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 09:42 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.473	1.477	(0.248)	164323	40.8321	40.8
23 Hexane	57	4.129	4.132	(0.696)	241091	47.7309	47.7
2 Chloromethane ++	50	1.664	1.720	(0.280)	235483	48.2672	48.3
3 Vinyl Chloride +	62	1.730	1.734	(0.292)	187882	49.6621	49.7
5 Bromomethane	94	2.027	2.030	(0.342)	73885	52.3996	52.4
6 Chloroethane	64	2.119	2.116	(0.357)	75549	55.8458	55.8
7 Trichlorofluoromethane	101	2.376	2.373	(0.400)	164249	43.8769	43.9
10 1,1-Dichloroethene +	96	2.916	2.913	(0.491)	135386	50.6092	50.6
11 1,1,2Trichlotrifluoroethane	101	2.923	2.926	(0.493)	151411	43.9963	44.0
12 Acetone	43	2.969	2.966	(0.500)	57588	45.7927	45.8
13 Methyl Iodide	142	3.068	3.071	(0.517)	259488	50.9403	50.9
14 Carbon Disulfide	76	3.153	3.157	(0.531)	557481	47.8562	47.9
18 Methylene Chloride	49	3.476	3.473	(0.586)	212689	50.0764	50.1
20 Acrylonitrile	53	3.760	3.756	(0.634)	290748	269.344	269(A)
21 trans-1,2-Dichloroethene	61	3.806	3.803	(0.641)	212324	49.3286	49.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
15	Methyl Acetate	43	3.371	3.368	(0.568)	114888	51.9881	52.0
9	Acrolein	56	2.791	2.788	(0.470)	93340	286.511	287(A)
22	MTBE	73	3.819	3.822	(0.644)	421778	51.8995	51.9
24	1,1-Dichloroethane ++	63	4.260	4.257	(0.718)	299948	47.5075	47.5
25	Vinyl Acetate	43	4.129	4.125	(0.696)	151735	47.2788	47.3
30	2,2-Dichloropropane	77	4.853	4.857	(0.818)	253344	46.2512	46.3
31	cis-1,2-Dichloroethene	61	4.853	4.857	(0.818)	332556	49.4507	49.5
32	2-Butanone	43	4.880	4.877	(0.822)	103969	46.1444	46.1
36	Bromochloromethane	128	5.084	5.088	(0.857)	97269	49.6560	49.7
37	Chloroform +	83	5.170	5.167	(0.871)	351970	45.5036	45.5
38	Dibromofluoromethane	111	5.315	5.312	(0.896)	206441	52.7075	52.7
39	1,1,1-Trichloroethane	97	5.341	5.345	(0.900)	240635	45.3081	45.3
42	1,1-Dichloropropene	75	5.499	5.496	(0.927)	261753	46.7107	46.7
43	Carbon Tetrachloride	117	5.506	5.503	(0.928)	164019	44.0899	44.1
44	1,2-Dichloroethane-d4	67	5.618	5.621	(0.947)	117549	50.7015	50.7
45	Benzene	78	5.684	5.687	(0.958)	917373	49.6351	49.6
46	1,2-Dichloroethane	62	5.690	5.687	(0.959)	265200	49.8209	49.8
47	FLUOROBENZENE	96	5.934	5.931	(1.000)	860873	50.0000	
48	Trichloroethene	130	6.257	6.254	(1.054)	181938	48.3388	48.3
49	Methyl Cyclohexane	83	6.435	6.432	(1.084)	386055	45.5777	45.6
50	1,2-Dichloropropane +	63	6.441	6.438	(1.085)	259155	50.4538	50.5
51	Dibromomethane	93	6.540	6.537	(1.102)	136345	50.0743	50.1
54	Bromodichloromethane	83	6.672	6.669	(1.124)	301584	47.8656	47.9
55	2-Chloroethyl vinyl ether	63	6.916	6.913	(1.165)	154789	50.7550	50.8
56	cis-1,3-Dichloropropene	75	7.041	7.045	(1.187)	393878	51.1236	51.1
57	4-methyl-2-pentanone	43	7.160	7.157	(1.207)	213499	46.9871	47.0
58	Toluene-d8	98	7.272	7.269	(0.862)	775819	51.2406	51.2
59	Toluene +	91	7.331	7.328	(0.869)	914437	46.7430	46.7
60	trans-1,3-Dichloropropene	75	7.489	7.486	(0.888)	339940	49.4281	49.4
62	1,1,2-Trichloroethane	97	7.641	7.638	(0.906)	204620	48.2149	48.2
64	1,3-Dichloropropane	76	7.779	7.776	(0.922)	383629	49.2859	49.3
65	Tetrachloroethene	164	7.786	7.783	(0.923)	168951	45.2291	45.2
66	2-Hexanone	43	7.832	7.829	(0.928)	171654	46.0610	46.1
68	Dibromochloromethane	129	7.970	7.967	(0.945)	176068	47.1645	47.2
69	1,2-Dibromoethane(EDB)	107	8.069	8.066	(0.956)	195071	47.8681	47.9
70	CHLOROBENZENE-d5	82	8.438	8.435	(1.000)	367000	50.0000	
71	Chlorobenzene ++	112	8.464	8.461	(1.003)	590405	47.7137	47.7
72	1,1,1,2-Tetrachloroethane	133	8.517	8.514	(1.009)	163553	48.5363	48.5
73	Ethylbenzene +	106	8.543	8.540	(1.012)	311738	46.3717	46.4
74	p,m-Xylene	106	8.636	8.633	(1.023)	843314	94.9864	95.0
76	o-Xylene	106	8.952	8.949	(1.061)	411100	48.4913	48.5
77	Styrene	104	8.959	8.956	(1.062)	762261	49.2665	49.3
78	Bromoform ++	173	9.110	9.114	(1.080)	151621	48.3675	48.4
79	Isopropylbenzene	105	9.235	9.232	(1.094)	1021226	46.3552	46.4
81	Bromofluorobenzene	174	9.367	9.364	(0.914)	270853	48.8218	48.8
84	1,1,2,2-Tetrachloroethane++	83	9.446	9.443	(0.922)	308189	46.8908	46.9
85	trans-1,4-Dichloro-2-Butene	53	9.486	9.489	(0.925)	73969	48.8819	48.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
86	1,2,3-Trichloropropane	75	9.492	9.489	(0.926)	372858	48.1324	48.1
87	Bromobenzene	77	9.492	9.496	(0.926)	650894	48.1756	48.2
75	Total 1,2-Dichloroethene	61				544880	98.7793	98.8
88	n-Propylbenzene	91	9.565	9.562	(0.933)	1297854	45.8861	45.9
89	2-Chlorotoluene	91	9.644	9.647	(0.941)	800472	51.5022	51.5(M)
90	1,3,5-Trimethylbenzene	105	9.690	9.687	(0.945)	607238	49.6928	49.7
91	4-Chlorotoluene	91	9.729	9.726	(0.949)	880027	48.4592	48.5
92	tert-butylbenzene	91	9.947	9.944	(0.970)	543624	46.6465	46.6
93	1,2,4-Trimethylbenzene	105	9.980	9.977	(0.974)	575624	50.3693	50.4
96	sec-Butylbenzene	105	10.105	10.109	(0.986)	1116899	45.8604	45.9
97	p-Isopropyltoluene	119	10.204	10.207	(0.995)	729561	49.4062	49.4
98	1,3-Dichlorobenzene	146	10.211	10.207	(0.996)	476587	49.2629	49.3
99	1,4-DICHLOROBENZENE-D4	152	10.250	10.254	(1.000)	328818	50.0000	
100	1,4-Dichlorobenzene	146	10.270	10.273	(1.002)	504297	49.4768	49.5
101	n-Butylbenzene	91	10.500	10.497	(1.024)	687347	49.3553	49.4
102	1,2-Dichlorobenzene	146	10.547	10.544	(1.029)	453733	49.1158	49.1
103	1,2-Dibromo-3-Chloropropane	157	11.067	11.064	(1.080)	57864	47.3885	47.4
105	1,2,4-Trichlorobenzene	180	11.634	11.624	(1.135)	268893	51.8437	51.8
106	Hexachlorobutadiene	225	11.733	11.723	(1.145)	173061	48.4554	48.5
107	Napthalene	128	11.805	11.796	(1.152)	499164	49.9963	50.0
108	1,2,3-Trichlorobenzene	180	11.970	11.960	(1.168)	264731	52.1419	52.1
109	TOTAL XYLENE	106				1254414	143.478	143
40	Cyclohexane	56	5.400	5.404	(0.910)	392602	44.1518	44.2

QC Flag Legend

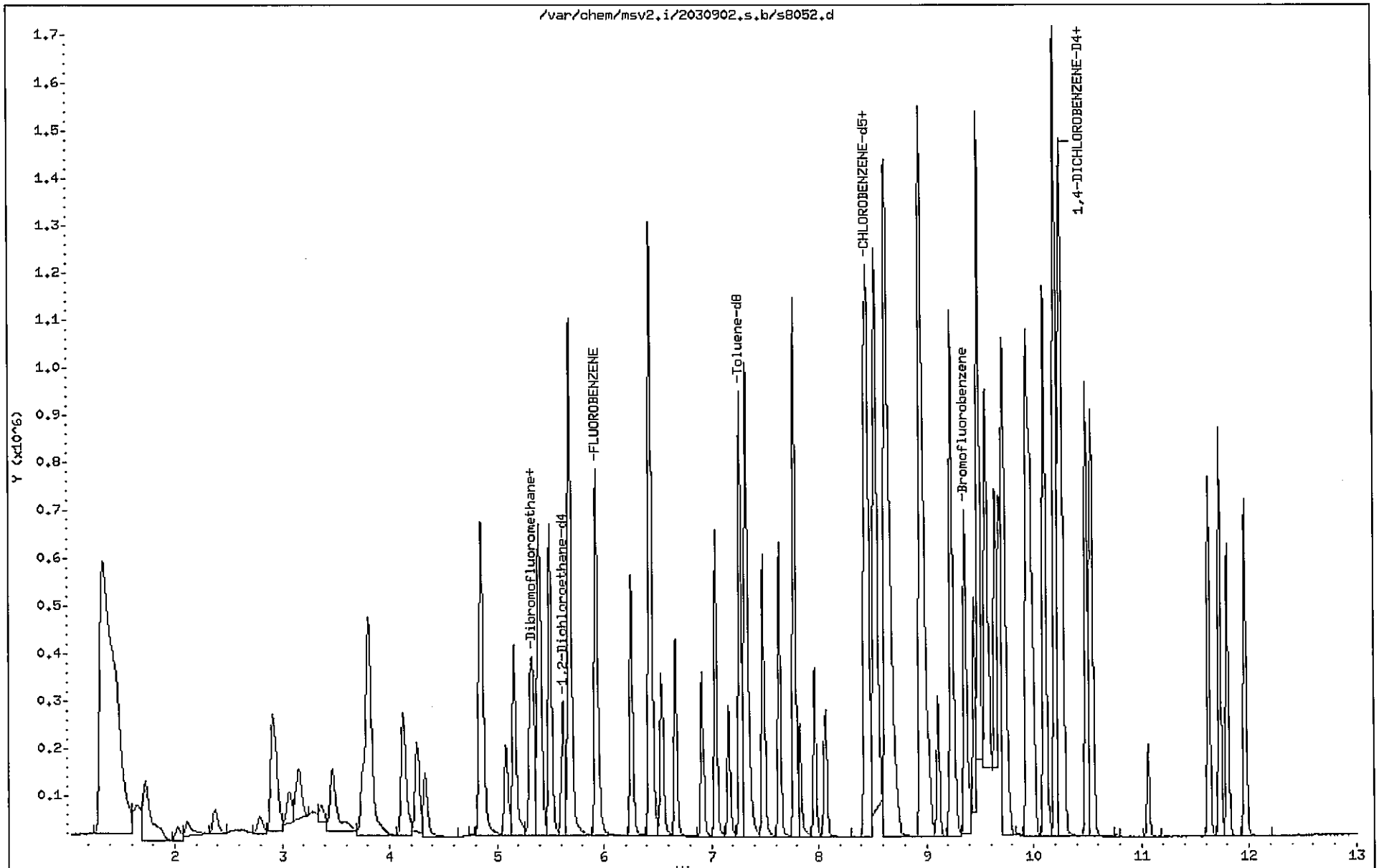
M - Target compound detected but, quantitated amount exceeded maximum amount.
I - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030902.s.b/s8052.d
Date : 02-SEP-2003 14:27
Client ID:
Sample Info: ICV
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000178

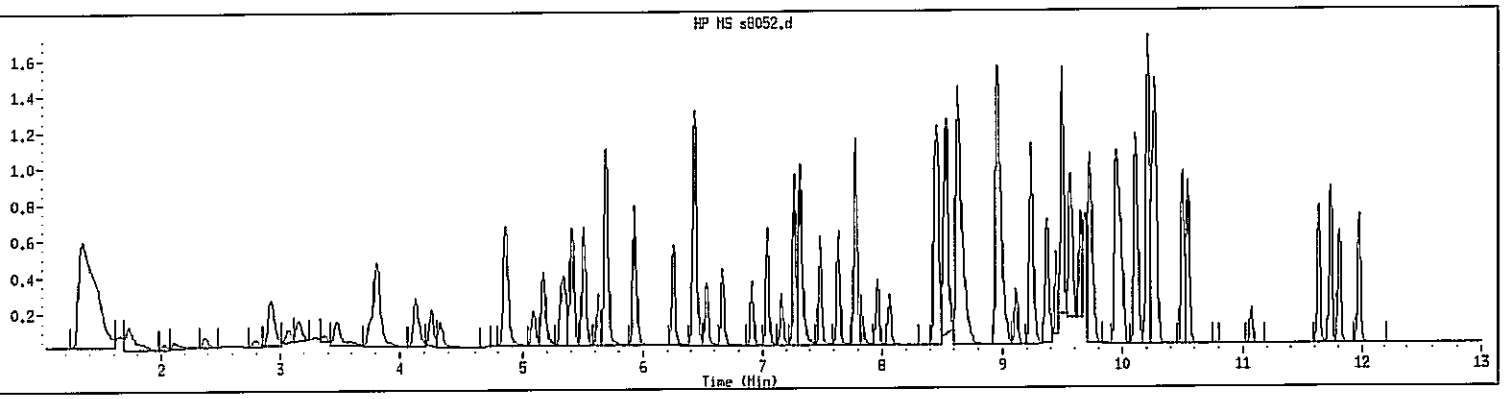


Data file : /var/chem/msv2.i/2030902.s.b/s8052.d
Report Date: 09/12/2003 09:11

MANUAL INTEGRATION GRAPHIC REPORT

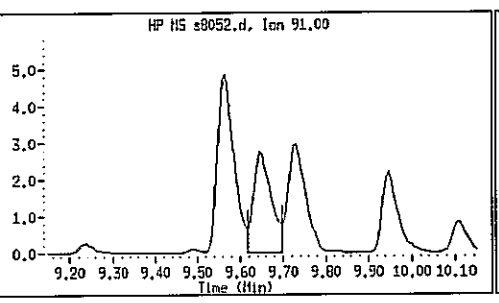
Lab ID : ICV
Injection Date: 02-SEP-2003 14:27
Operator : RJO
Sample Info : ICV
Misc Info : MSV~3649~*1*RJO
Method : /var/chem/msv2.i/2030902.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

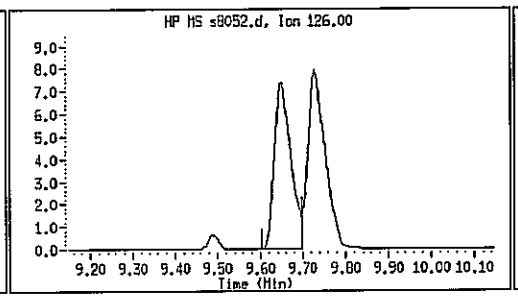
SampleType : LCS
Instrument : msv2.i
Compound Sublist: 8260B

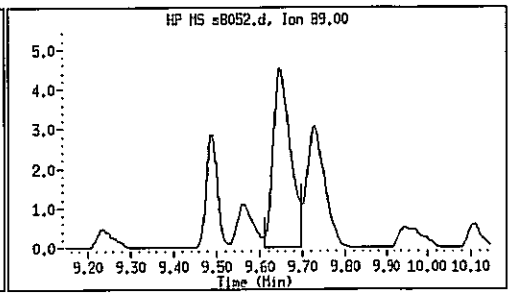


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 2-Chlorotoluene			CAS#: 95-49-8				
.644	0.941	91	800472	52	52	80-120	100
.644	0.941	126	201541			24- 36	25
.644	0.941	89	129273			16- 24	16







Data File: /var/chem/msv2.i/2030910.s.b/s8272.d

Date : 10-SEP-2003 08:12

Client ID: V2BFB01

Instrument: msv2.i

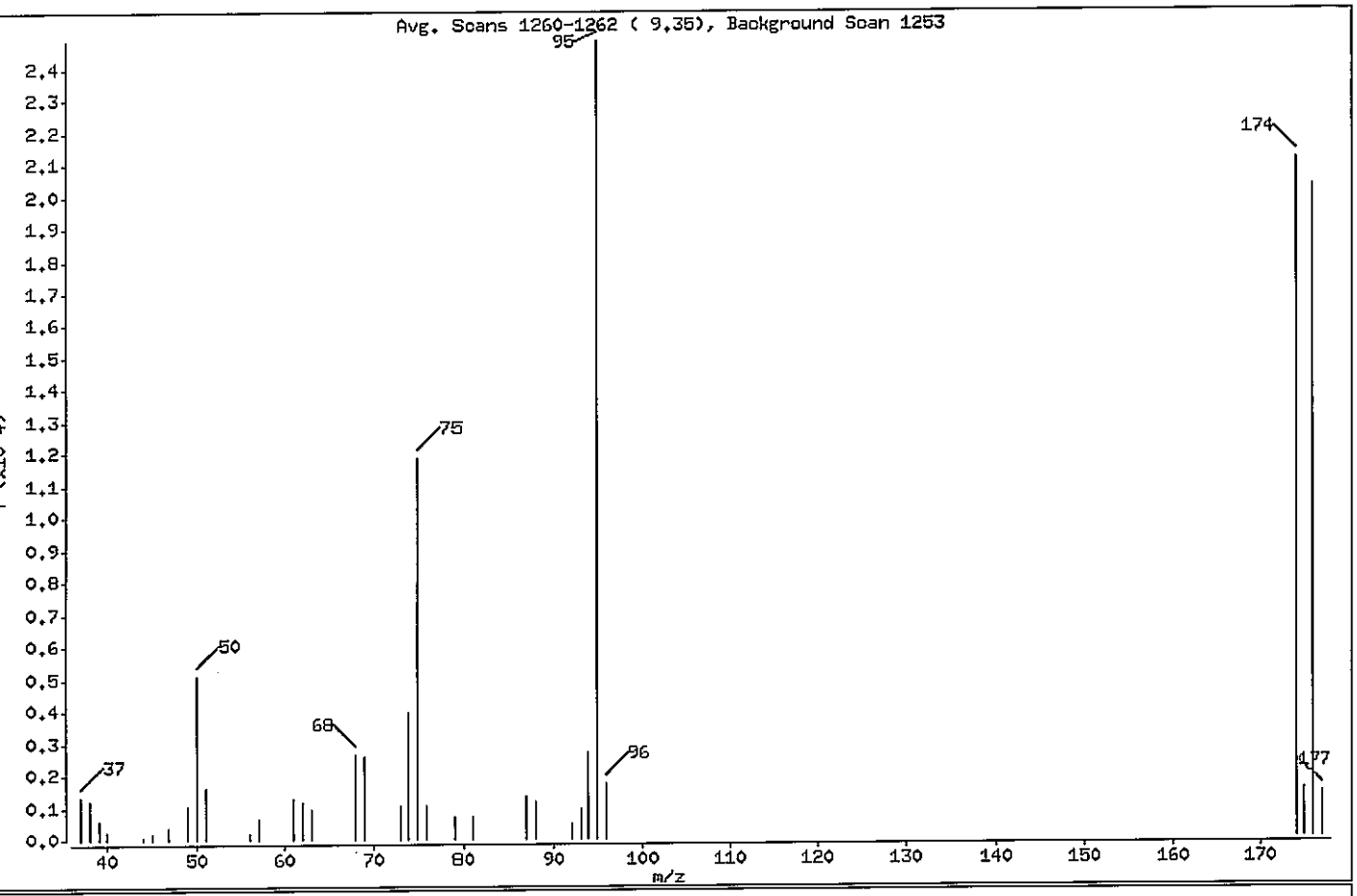
Sample Info: 1000*V2BFB01*5-1-8

Operator: HJL

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.52
75	30.00 - 60.00% of mass 95	47.60
96	5.00 - 9.00% of mass 95	6.99
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	85.08
175	5.00 - 9.00% of mass 174	6.10 (7.17)
176	95.00 - 101.00% of mass 174	81.63 (95.94)
177	5.00 - 9.00% of mass 176	5.51 (6.76)

Data File: /var/chem/msv2.i/2030910.s.b/s8272.d

Date : 10-SEP-2003 08:12

Client ID: V2BFB01

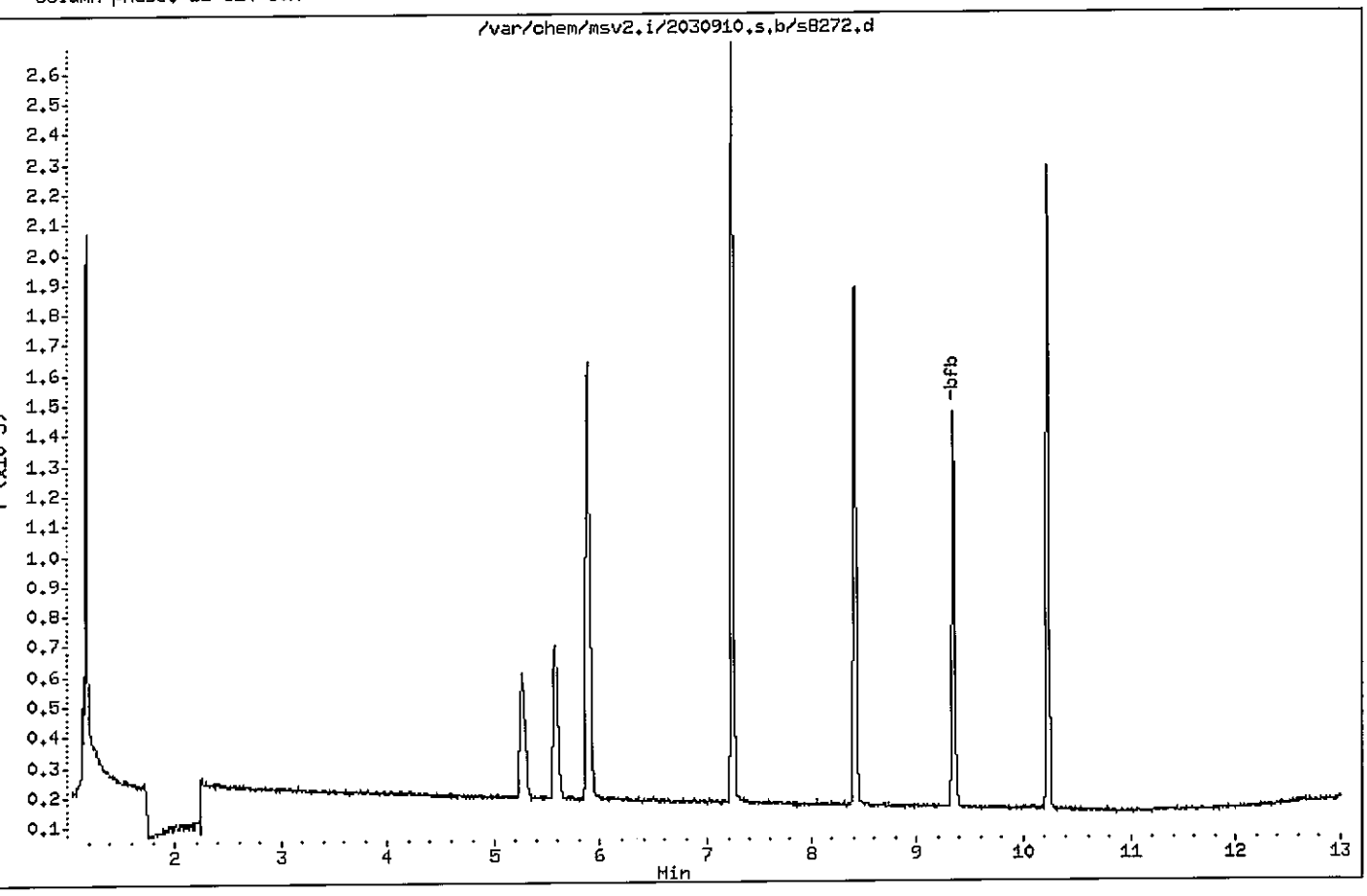
Instrument: msv2.i

Sample Info: 1000MV2BFB01M5-1-B

Operator: HJL

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv2.i/2030910.s.b/s8272.d

Date : 10-SEP-2003 08:12

Client ID: V2BFB01

Instrument: msv2.i

Sample Info: 1000*V2BFB01*5-1-8

Operator: HJL

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s8272.d
Spectrum: Avg. Scans 1260-1262 (9.35), Background Scan 1253
Location of Maximum: 95.00
Number of points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1314	51.00	1624	74.00	3974	94.00	2665
38.00	1208	56.00	170	75.00	11825	95.00	24840
39.00	544	57.00	650	76.00	1045	96.00	1737
40.00	223	61.00	1255	79.00	682	174.00	21136
44.00	63	62.00	1170	81.00	698	175.00	1516
45.00	145	63.00	912	87.00	1340	176.00	20280
47.00	352	68.00	2629	88.00	1164	177.00	1370
49.00	1037	69.00	2548	92.00	462		
50.00	5098	73.00	1029	93.00	919		

ata File: /var/chem/msv2.i/2030910.s.b/s8274.d
eport Date: 10-Sep-2003 14:43

Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv2.i/2030910.s.b/s8274.d
ab Smp Id: 1400 Client Smp ID: V2STD050
nj Date : 10-SEP-2003 09:22
perator : HJL Inst ID: msv2.i
mp Info : 1400*V2STD050*5-1-8
isc Info : MSV~3670~*1*RSP
omment :
ethod : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
eth Date : 10-Sep-2003 14:43 rsp Quant Type: ISTD
al Date : 27-AUG-2003 12:26 Cal File: s7796.d
ls bottle: 3 Continuing Calibration Sample
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260B.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.470	1.470	(0.248)	246156	50.0000	45.2
23 Hexane	57	4.119	4.119	(0.695)	361392	50.0000	52.9
2 Chloromethane ++	50	1.714	1.714	(0.289)	335877	50.0000	50.9
3 Vinyl Chloride +	62	1.727	1.727	(0.292)	277028	50.0000	54.2
5 Bromomethane	94	2.017	2.017	(0.340)	120760	50.0000	63.4
6 Chloroethane	64	2.116	2.116	(0.357)	120513	50.0000	65.9
7 Trichlorofluoromethane	101	2.367	2.367	(0.399)	262966	50.0000	52.8
10 1,1-Dichloroethene +	96	2.907	2.907	(0.491)	207054	50.0000	57.3
11 1,1,2Trichlotrifluoroethane	101	2.920	2.920	(0.493)	241977	50.0000	52.0
12 Acetone	43	2.960	2.960	(0.500)	89838	50.0000	52.8
13 Methyl Iodide	142	3.065	3.065	(0.517)	376505	50.0000	54.7
14 Carbon Disulfide	76	3.151	3.151	(0.532)	825878	50.0000	52.4
18 Methylene Chloride	49	3.467	3.467	(0.585)	316122	50.0000	55.4
20 Acrylonitrile	53	3.750	3.750	(0.633)	428508	250.000	294(A)
21 trans-1,2-Dichloroethene	61	3.796	3.796	(0.641)	310634	50.0000	53.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15	Methyl Acetate	43	3.362	3.362	(0.567)	170127	50.0000	56.9
9	Acrolein	56	2.788	2.788	(0.471)	137584	250.000	312(A)
22	MTBE	73	3.810	3.810	(0.643)	574009	50.0000	52.2
24	1,1-Dichloroethane ++	63	4.251	4.251	(0.718)	426493	50.0000	50.0
25	Vinyl Acetate	43	4.119	4.119	(0.695)	229892	50.0000	53.0
30	2,2-Dichloropropane	77	4.844	4.844	(0.818)	353694	50.0000	47.8
31	cis-1,2-Dichloroethene	61	4.851	4.851	(0.819)	450649	50.0000	49.6
32	2-Butanone	43	4.871	4.871	(0.822)	149962	50.0000	49.2
36	Bromochloromethane	128	5.075	5.075	(0.857)	132051	50.0000	49.9
37	Chloroform +	83	5.160	5.160	(0.871)	457001	50.0000	43.7
38	Dibromofluoromethane	111	5.305	5.305	(0.895)	287749	50.0000	54.3
39	1,1,1-Trichloroethane	97	5.332	5.332	(0.900)	337449	50.0000	47.0
42	1,1-Dichloropropene	75	5.490	5.490	(0.927)	358811	50.0000	47.4
43	Carbon Tetrachloride	117	5.497	5.497	(0.928)	239854	50.0000	47.7
44	1,2-Dichloroethane-d4	67	5.615	5.615	(0.948)	165327	50.0000	52.7
45	Benzene	78	5.674	5.674	(0.958)	1216783	50.0000	48.7
46	1,2-Dichloroethane	62	5.681	5.681	(0.959)	361440	50.0000	50.2
47	FLUOROBENZENE	96	5.925	5.925	(1.000)	1163822	50.0000	
48	Trichloroethene	130	6.248	6.248	(1.054)	241666	50.0000	47.5
49	Methyl Cyclohexane	83	6.426	6.426	(1.085)	540103	50.0000	47.2
50	1,2-Dichloropropane +	63	6.432	6.432	(1.086)	346962	50.0000	50.0
51	Dibromomethane	93	6.531	6.531	(1.102)	180194	50.0000	49.0
54	Bromodichloromethane	83	6.663	6.663	(1.125)	388359	50.0000	45.6
55	2-Chloroethyl vinyl ether	63	6.907	6.907	(1.166)	201487	50.0000	49.1
56	cis-1,3-Dichloropropene	75	7.032	7.032	(1.187)	504471	50.0000	48.4
57	4-methyl-2-pentanone	43	7.150	7.150	(1.207)	290719	50.0000	47.3
58	Toluene-d8	98	7.262	7.262	(0.862)	1082813	50.0000	52.0
59	Toluene +	91	7.322	7.322	(0.869)	1241526	50.0000	46.2
60	trans-1,3-Dichloropropene	75	7.480	7.480	(0.887)	440335	50.0000	46.6
62	1,1,2-Trichloroethane	97	7.631	7.631	(0.905)	270096	50.0000	46.3
64	1,3-Dichloropropane	76	7.770	7.770	(0.922)	505142	50.0000	47.2
65	Tetrachloroethene	164	7.776	7.776	(0.923)	233145	50.0000	45.4
66	2-Hexanone	43	7.823	7.823	(0.928)	226024	50.0000	44.1
68	Dibromochloromethane	129	7.961	7.961	(0.944)	236361	50.0000	46.1
69	1,2-Dibromoethane(EDB)	107	8.060	8.060	(0.956)	257720	50.0000	46.0
70	CHLOROBENZENE-d5	82	8.429	8.429	(1.000)	504414	50.0000	
71	Chlorobenzene ++	112	8.455	8.455	(1.003)	794198	50.0000	46.7
72	1,1,1,2-Tetrachloroethane	133	8.508	8.508	(1.009)	220271	50.0000	47.6
73	Ethylbenzene +	106	8.534	8.534	(1.012)	416562	50.0000	45.1
74	p,m-Xylene	106	8.626	8.626	(1.023)	1124679	100.000	92.2
76	o-Xylene	106	8.943	8.943	(1.061)	541176	50.0000	46.4
77	Styrene	104	8.949	8.949	(1.062)	995788	50.0000	46.8
78	Bromoform ++	173	9.101	9.101	(1.080)	194534	50.0000	45.2
79	Isopropylbenzene	105	9.226	9.226	(1.095)	1392218	50.0000	46.0
81	Bromofluorobenzene	174	9.358	9.358	(0.913)	368251	50.0000	48.8
84	1,1,2,2-Tetrachloroethane++	83	9.437	9.437	(0.921)	412814	50.0000	46.2
85	trans-1,4-Dichloro-2-Butene	53	9.476	9.476	(0.925)	97516	50.0000	47.4

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
ompounds								
86	1,2,3-Trichloropropane	75	9.483	9.483	(0.925)	488019	50.0000	46.3
87	Bromobenzene	77	9.483	9.483	(0.925)	852864	50.0000	46.4
75	Total 1,2-Dichloroethene	61				761283	100.000	103
88	n-Propylbenzene	91	9.556	9.556	(0.932)	1709339	50.0000	44.5
89	2-Chlorotoluene	91	9.641	9.641	(0.941)	681343	50.0000	32.2
90	1,3,5-Trimethylbenzene	105	9.681	9.681	(0.945)	737910	50.0000	44.4
91	4-Chlorotoluene	91	9.720	9.720	(0.949)	1140141	50.0000	46.2
92	tert-butylbenzene	91	9.938	9.938	(0.970)	713340	50.0000	45.0
93	1,2,4-Trimethylbenzene	105	9.964	9.964	(0.972)	693759	50.0000	44.7
96	sec-Butylbenzene	105	10.102	10.102	(0.986)	1499592	50.0000	45.3
97	p-Isopropyltoluene	119	10.201	10.201	(0.995)	916413	50.0000	45.7
98	1,3-Dichlorobenzene	146	10.201	10.201	(0.995)	620888	50.0000	47.2
99	1,4-DICHLOROBENZENE-D4	152	10.247	10.247	(1.000)	446965	50.0000	
100	1,4-Dichlorobenzene	146	10.261	10.261	(1.001)	665435	50.0000	48.0
101	n-Butylbenzene	91	10.491	10.491	(1.024)	842917	50.0000	44.5
102	1,2-Dichlorobenzene	146	10.537	10.537	(1.028)	592495	50.0000	47.2
103	1,2-Dibromo-3-Chloropropane	157	11.058	11.058	(1.079)	75572	50.0000	45.5
105	1,2,4-Trichlorobenzene	180	11.618	11.618	(1.134)	354798	50.0000	50.3
106	Hexachlorobutadiene	225	11.717	11.717	(1.143)	234978	50.0000	48.4
107	Napthalene	128	11.789	11.789	(1.150)	700375	50.0000	51.6
108	1,2,3-Trichlorobenzene	180	11.954	11.954	(1.167)	356724	50.0000	51.7
109	TOTAL XYLENE	106				1665855	150.000	139
40	Cyclohexane	56	5.391	5.391	(0.910)	561266	50.0000	46.7

C Flag Legend

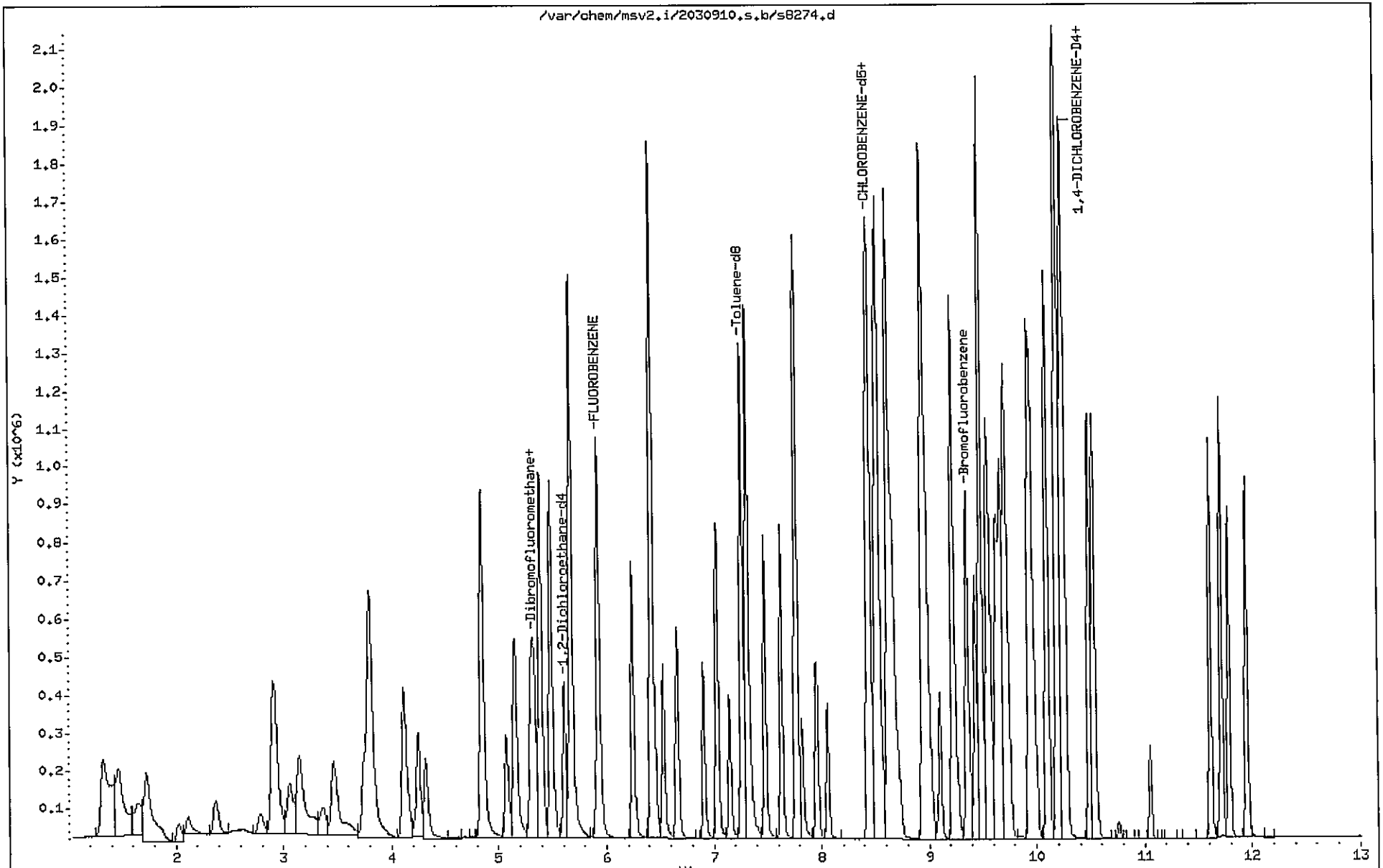
- Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/msv2.i/2030910.s.b/s8274.d
Date : 10-SEP-2003 09:22
Client ID: V2STD050
Sample Info: 1400XV2STD050X5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000186



Data File: /var/chem/msv2.i/2030911.s.b/s8292.d

Date : 11-SEP-2003 07:20

Client ID: V2BFB01

Instrument: msv2.i

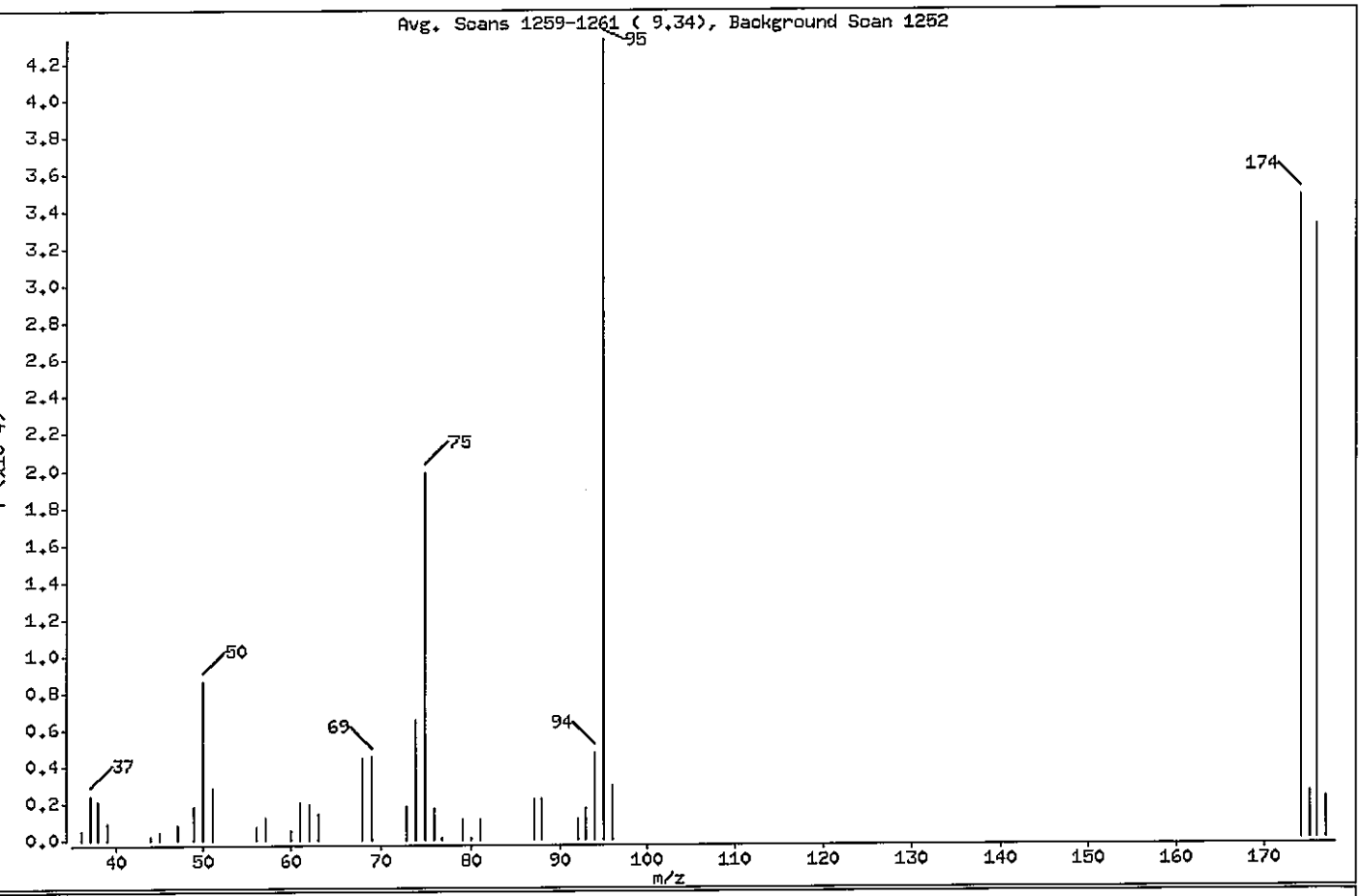
Sample Info: 1000XV2BFB01X5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.85
75	30.00 - 60.00% of mass 95	45.93
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	80.11
175	5.00 - 9.00% of mass 174	5.67 (7.08)
176	95.00 - 101.00% of mass 174	76.49 (95.49)
177	5.00 - 9.00% of mass 176	5.15 (6.74)

Data File: /var/chem/msv2.i/2030911.s.b/s8292.d

Date : 11-SEP-2003 07:20

Client ID: V2BFB01

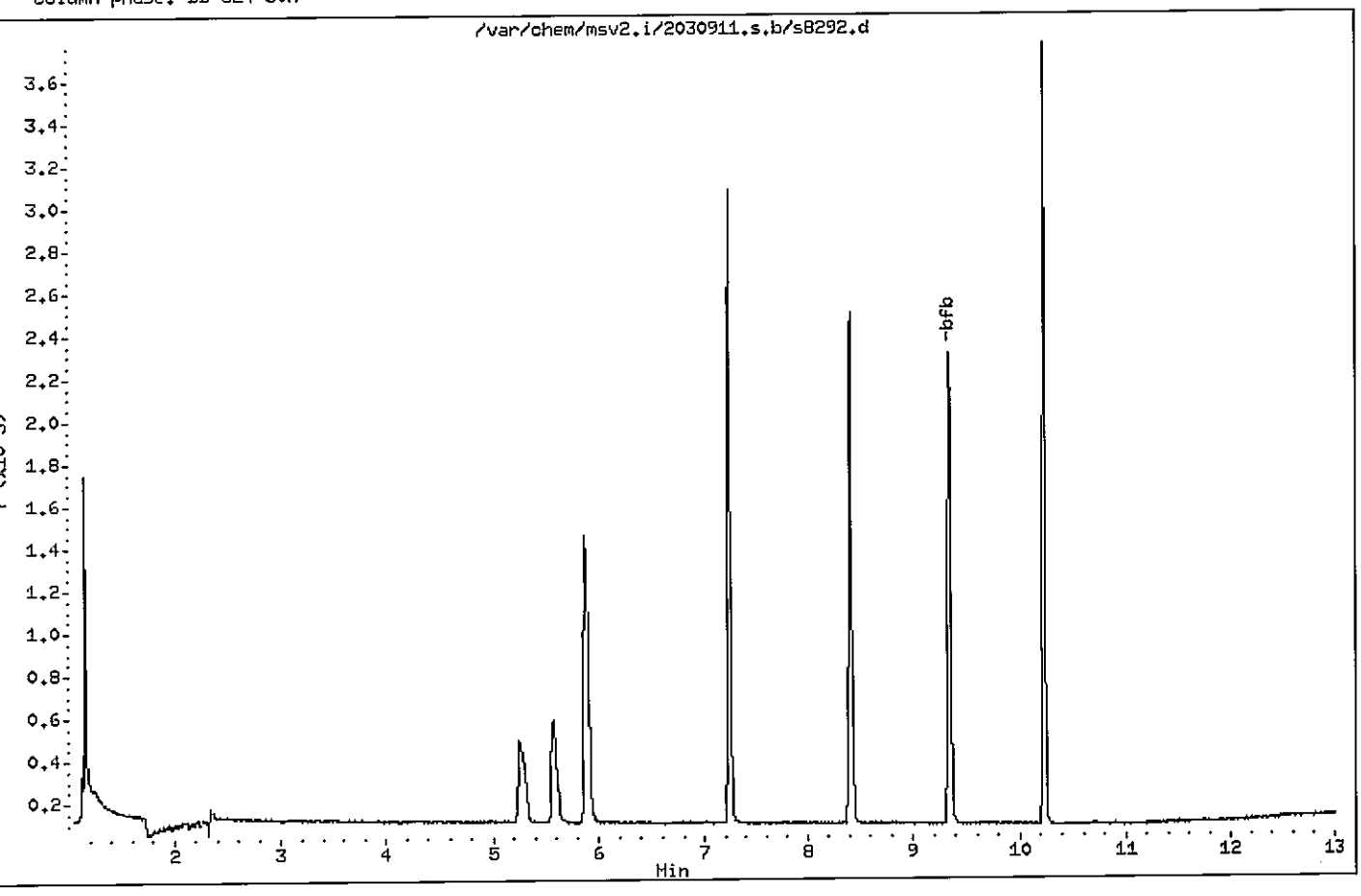
Instrument: msv2.i

Sample Info: 1000WV2BFB01W5-1-8

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv2.i/2030911.s.b/s8292.d

Date : 11-SEP-2003 07:20

Client ID: V2BFB01

Instrument: msv2.i

Sample Info: 1000*V2BFB01*5-1-B

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s8292.d
Spectrum: Avg. Scans 1259-1261 (9.34), Background Scan 1252
Location of Maximum: 95.00
Number of points: 37

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36.00	500	56.00	669	75.00	19888	94.00	4640
37.00	2348	57.00	1206	76.00	1734	95.00	43296
38.00	2082	60.00	455	77.00	139	96.00	2883
39.00	938	61.00	2041	79.00	1125	174.00	34688
44.00	170	62.00	1925	80.00	143	175.00	2457
45.00	427	63.00	1438	81.00	1098	176.00	33120
47.00	790	68.00	4350	87.00	2153	177.00	2232
49.00	1795	69.00	4462	88.00	2213		
50.00	8596	73.00	1772	92.00	1073		
51.00	2756	74.00	6533	93.00	1652		

Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv2.i/2030911.s.b/s8294.d
ab Smp Id: 1400 Client Smp ID: V2STD050
nj Date : 11-SEP-2003 08:20
perator : RJO Inst ID: msv2.i
mp Info : 1400*V2STD050*5-1-8
isc Info : MSV~3677~*1*RSP
omment :
ethod : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
eth Date : 11-Sep-2003 08:44 hjl Quant Type: ISTD
al Date : 27-AUG-2003 12:26 Cal File: s7796.d
ls bottle: 3 Continuing Calibration Sample
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260B.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
pnd Variable		Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.473	1.473	(0.248)	142378	50.0000	26.2
23 Hexane	57	4.122	4.122	(0.695)	328887	50.0000	48.1
2 Chloromethane ++	50	1.658	1.658	(0.280)	263805	50.0000	40.0
3 Vinyl Chloride +	62	1.730	1.730	(0.292)	231669	50.0000	45.3
5 Bromomethane	94	2.027	2.027	(0.342)	99584	50.0000	52.2
6 Chloroethane	64	2.112	2.112	(0.356)	95977	50.0000	52.4
7 Trichlorofluoromethane	101	2.369	2.369	(0.400)	239145	50.0000	47.6
10 1,1-Dichloroethene +	96	2.910	2.910	(0.491)	192855	50.0000	53.3
11 1,1,2Trichlotrifluoroethane	101	2.923	2.923	(0.493)	221489	50.0000	47.6
12 Acetone	43	2.962	2.962	(0.500)	95796	50.0000	56.3
13 Methyl Iodide	142	3.068	3.068	(0.518)	382056	50.0000	55.4
14 Carbon Disulfide	76	3.153	3.153	(0.532)	758299	50.0000	48.1
18 Methylene Chloride	49	3.470	3.470	(0.585)	326636	50.0000	57.3
20 Acrylonitrile	53	3.753	3.753	(0.633)	429299	250.000	294(A)
21 trans-1,2-Dichloroethene	61	3.799	3.799	(0.641)	299462	50.0000	51.4

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
ompounds								
15	Methyl Acetate	43	3.371	3.371	(0.569)	166147	50.0000	55.6
9	Acrolein	56	2.791	2.791	(0.471)	136042	250.000	309(A)
22	MTBE	73	3.819	3.819	(0.644)	552377	50.0000	50.2
24	1,1-Dichloroethane ++	63	4.254	4.254	(0.718)	413306	50.0000	48.4
25	Vinyl Acetate	43	4.122	4.122	(0.695)	201108	50.0000	46.3
30	2,2-Dichloropropane	77	4.847	4.847	(0.818)	341430	50.0000	46.1
31	cis-1,2-Dichloroethene	61	4.853	4.853	(0.819)	436028	50.0000	47.9
32	2-Butanone	43	4.873	4.873	(0.822)	163056	50.0000	53.5
36	Bromochloromethane	128	5.077	5.077	(0.857)	127229	50.0000	48.1
37	Chloroform +	83	5.157	5.157	(0.870)	447316	50.0000	42.8
38	Dibromofluoromethane	111	5.308	5.308	(0.896)	283815	50.0000	53.6
39	1,1,1-Trichloroethane	97	5.334	5.334	(0.900)	328049	50.0000	45.7
42	1,1-Dichloropropene	75	5.493	5.493	(0.927)	346370	50.0000	45.7
43	Carbon Tetrachloride	117	5.499	5.499	(0.928)	230064	50.0000	45.7
44	1,2-Dichloroethane-d4	67	5.611	5.611	(0.947)	160130	50.0000	51.1
45	Benzene	78	5.677	5.677	(0.958)	1164367	50.0000	46.6
46	1,2-Dichloroethane	62	5.684	5.684	(0.959)	349640	50.0000	48.6
47	FLUOROBENZENE	96	5.927	5.927	(1.000)	1164474	50.0000	
48	Trichloroethene	130	6.250	6.250	(1.054)	238700	50.0000	46.9
49	Methyl Cyclohexane	83	6.422	6.422	(1.083)	498170	50.0000	43.5
50	1,2-Dichloropropane +	63	6.435	6.435	(1.086)	336375	50.0000	48.4
51	Dibromomethane	93	6.534	6.534	(1.102)	175239	50.0000	47.6
54	Bromodichloromethane	83	6.665	6.665	(1.125)	374920	50.0000	44.0
55	2-Chloroethyl vinyl ether	63	6.909	6.909	(1.166)	198072	50.0000	48.3
56	cis-1,3-Dichloropropene	75	7.034	7.034	(1.187)	489957	50.0000	47.0
57	4-methyl-2-pentanone	43	7.153	7.153	(1.207)	304692	50.0000	49.6
58	Toluene-d8	98	7.265	7.265	(0.862)	1098070	50.0000	52.5
59	Toluene +	91	7.318	7.318	(0.868)	1214937	50.0000	44.9
60	trans-1,3-Dichloropropene	75	7.483	7.483	(0.887)	427325	50.0000	44.9
62	1,1,2-Trichloroethane	97	7.634	7.634	(0.905)	264094	50.0000	45.0
64	1,3-Dichloropropane	76	7.766	7.766	(0.921)	489155	50.0000	45.5
65	Tetrachloroethene	164	7.772	7.772	(0.922)	228123	50.0000	44.2
66	2-Hexanone	43	7.825	7.825	(0.928)	244387	50.0000	47.4
68	Dibromochloromethane	129	7.964	7.964	(0.944)	228622	50.0000	44.3
69	1,2-Dibromoethane(EDB)	107	8.062	8.062	(0.956)	254678	50.0000	45.2
70	CHLOROBENZENE-d5	82	8.431	8.431	(1.000)	507372	50.0000	
71	Chlorobenzene ++	112	8.458	8.458	(1.003)	776348	50.0000	45.4
72	1,1,1,2-Tetrachloroethane	133	8.511	8.511	(1.009)	213052	50.0000	45.7
73	Ethylbenzene +	106	8.530	8.530	(1.012)	402684	50.0000	43.3
74	p,m-Xylene	106	8.629	8.629	(1.023)	1091165	100.000	88.9
76	o-Xylene	106	8.945	8.945	(1.061)	521645	50.0000	44.5
77	Styrene	104	8.952	8.952	(1.062)	957929	50.0000	44.8
78	Bromoform ++	173	9.104	9.104	(1.080)	190811	50.0000	44.0
79	Isopropylbenzene	105	9.229	9.229	(1.095)	1354929	50.0000	44.5
81	Bromofluorobenzene	174	9.361	9.361	(0.913)	363884	50.0000	50.2
84	1,1,2,2-Tetrachloroethane++	83	9.440	9.440	(0.921)	406777	50.0000	47.4
85	trans-1,4-Dichloro-2-Butene	53	9.479	9.479	(0.925)	98025	50.0000	49.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86 1,2,3-Trichloropropane	75	9.486	9.486	(0.925)	488832	50.0000	48.3
87 Bromobenzene	77	9.486	9.486	(0.925)	832345	50.0000	47.1
75 Total 1,2-Dichloroethene	61				735490	100.000	99.4
88 n-Propylbenzene	91	9.558	9.558	(0.932)	1644702	50.0000	44.5
89 2-Chlorotoluene	91	9.644	9.644	(0.941)	685770	50.0000	33.8
90 1,3,5-Trimethylbenzene	105	9.677	9.677	(0.944)	722836	50.0000	45.3
91 4-Chlorotoluene	91	9.716	9.716	(0.948)	1091091	50.0000	46.0
92 tert-butylbenzene	91	9.940	9.940	(0.970)	682744	50.0000	44.8
93 1,2,4-Trimethylbenzene	105	9.967	9.967	(0.972)	693388	50.0000	46.4
96 sec-Butylbenzene	105	10.099	10.099	(0.985)	1425095	50.0000	44.8
97 p-Isopropyltoluene	119	10.197	10.197	(0.995)	884904	50.0000	45.8
98 1,3-Dichlorobenzene	146	10.204	10.204	(0.996)	593860	50.0000	47.0
99 1,4-DICHLOROBENZENE-D4	152	10.250	10.250	(1.000)	429774	50.0000	
100 1,4-Dichlorobenzene	146	10.263	10.263	(1.001)	619311	50.0000	46.5
101 n-Butylbenzene	91	10.487	10.487	(1.023)	834617	50.0000	45.9
102 1,2-Dichlorobenzene	146	10.533	10.533	(1.028)	550540	50.0000	45.6
103 1,2-Dibromo-3-Chloropropane	157	11.054	11.054	(1.078)	75841	50.0000	47.5
105 1,2,4-Trichlorobenzene	180	11.607	11.607	(1.132)	342115	50.0000	50.5
106 Hexachlorobutadiene	225	11.713	11.713	(1.143)	218189	50.0000	46.7
107 Napthalene	128	11.785	11.785	(1.150)	658765	50.0000	50.5
108 1,2,3-Trichlorobenzene	180	11.950	11.950	(1.166)	334587	50.0000	50.4
109 TOTAL XYLENE	106				1612810	150.000	133
40 Cyclohexane	56	5.394	5.394	(0.910)	524174	50.0000	43.6

C Flag Legend

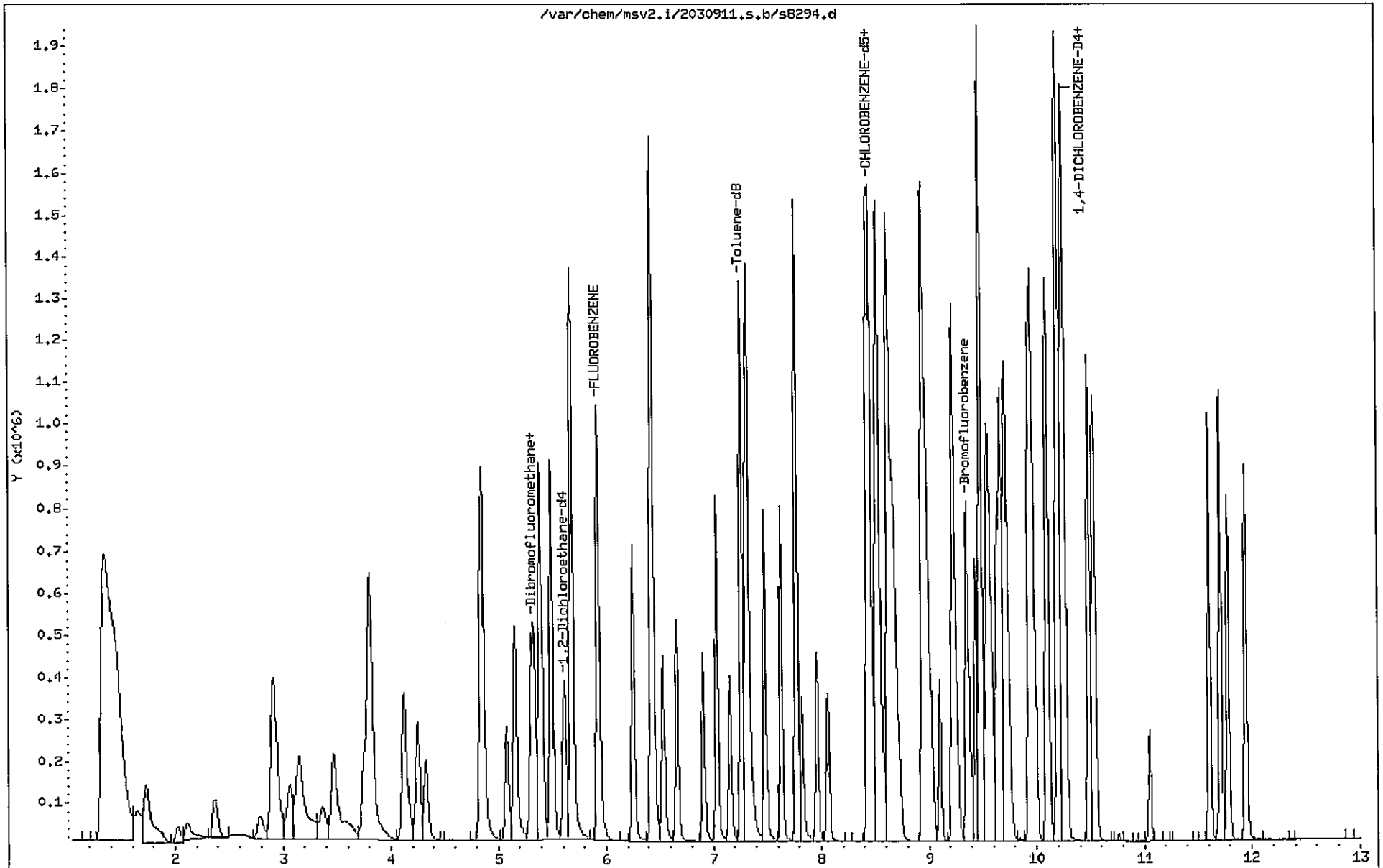
. - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/msv2.i/2030911.s.b/s8294.d
Date : 11-SEP-2003 08:20
Client ID: V2STD050
Sample Info: 1400*V2STD050*5-1-8
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000193



Data File: /var/chem/msv4.i/2030906.s.b/s6163.d

Date : 06-SEP-2003 07:34

Client ID: V4BFB01

Instrument: msv4.i

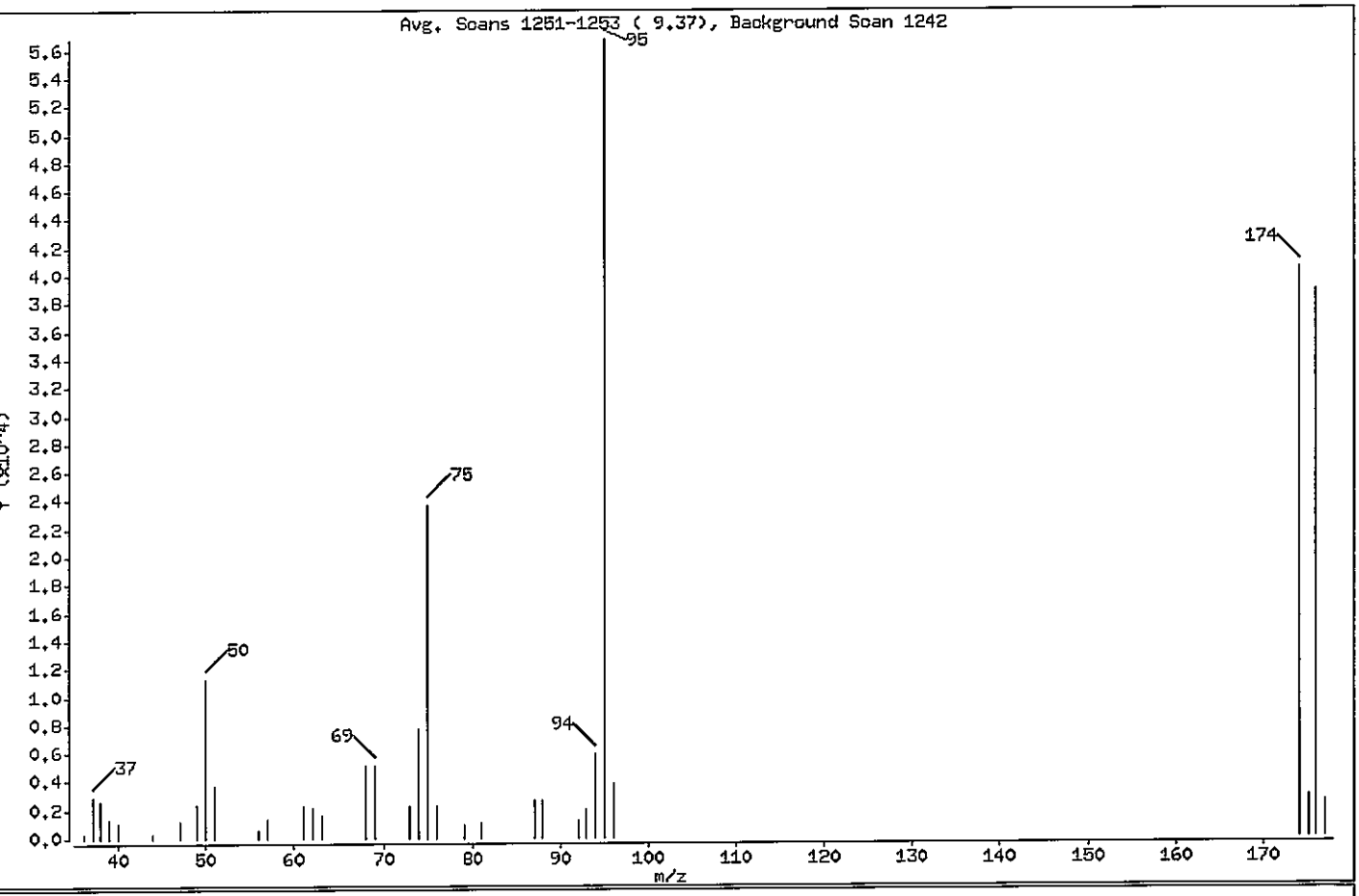
Sample Info: 1000XBFB

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.74
75	30.00 - 60.00% of mass 95	41.63
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	71.18
175	5.00 - 9.00% of mass 174	5.15 (7.24)
176	95.00 - 101.00% of mass 174	68.33 (95.99)
177	5.00 - 9.00% of mass 176	4.48 (6.55)

Data File: /var/chem/msv4.i/2030906.s.b/s6163.d

Date : 06-SEP-2003 07:34

Client ID: V4BFB01

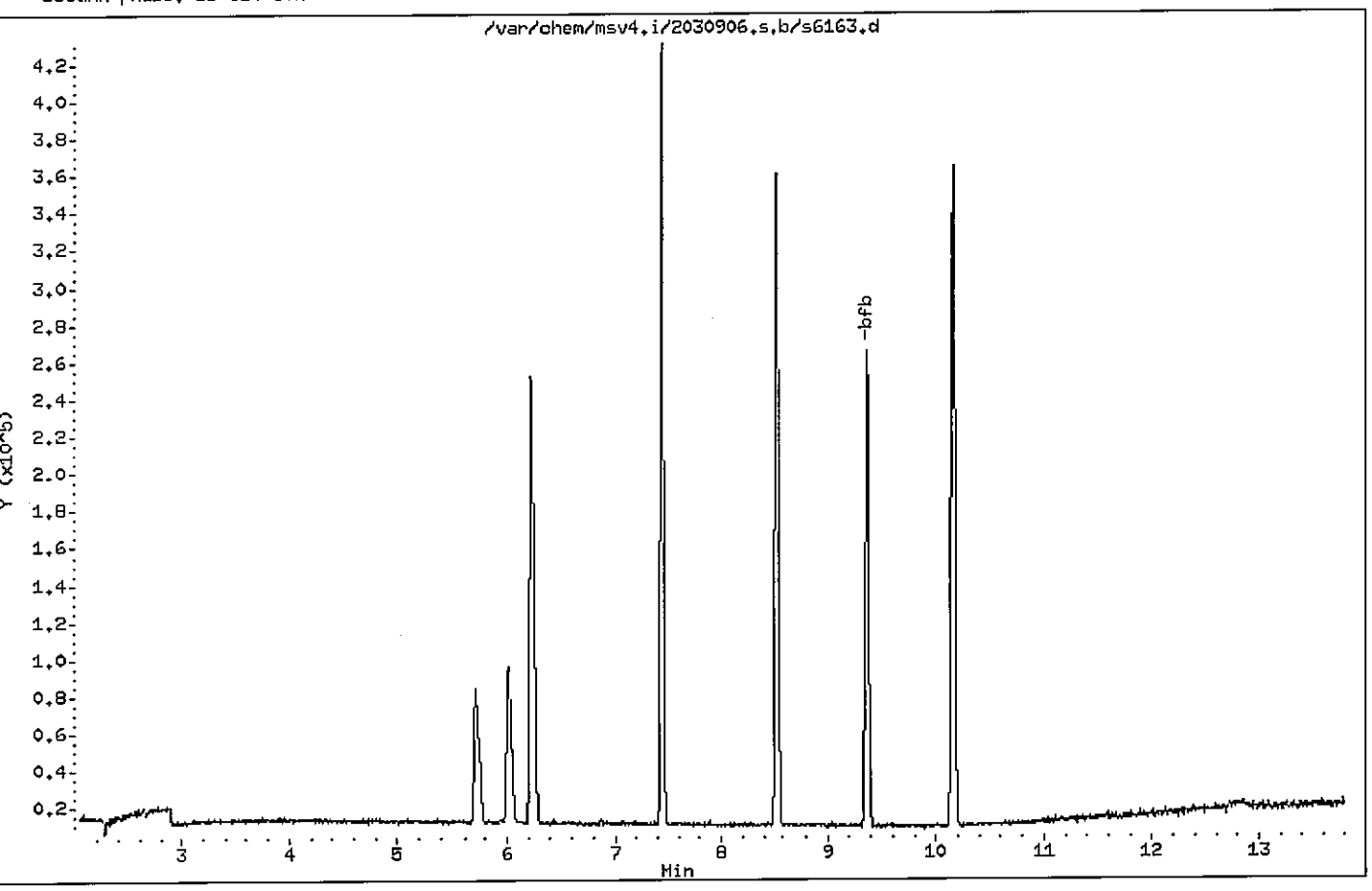
Instrument: msv4.i

Sample Info: 1000XBFB

Operator: RJD

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv4.i/2030906.s.b/s6163.d

Date : 06-SEP-2003 07:34

Client ID: V4BFB01

Instrument: msv4.i

Sample Info: 1000XBFB

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6163.d
Spectrum: Avg. Scans 1251-1253 (9.37), Background Scan 1242
Location of Maximum: 95.00
Number of points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	253	51.00	3709	74.00	7703	94.00	5912
37.00	2875	56.00	557	75.00	23616	95.00	56736
38.00	2554	57.00	1313	76.00	2167	96.00	3838
39.00	1271	61.00	2241	79.00	929	174.00	40384
40.00	1100	62.00	2096	81.00	1010	175.00	2924
44.00	318	63.00	1614	87.00	2609	176.00	38768
47.00	1182	68.00	5138	88.00	2560	177.00	2539
49.00	2407	69.00	5158	92.00	1207		
50.00	11201	73.00	2164	93.00	2002		

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Data file : /var/chem/msv4.i/2030906.s.b/s6165.d
Lab Smp Id: 1206 Client Smp ID: V4STD002
Inj Date : 06-SEP-2003 08:35
Operator : RJO Inst ID: msv4.i
Smp Info : 1206*V4STD002*5-1-8
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:27 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 08:35 Cal File: s6165.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
3 Vinyl Chloride +	62	2.632	2.632	(0.413)	14184	2.00000	2.00	3468
16 MTBE	73	4.583	4.583	(0.719)	38319	2.00000		2678(a)
24 Chloroform +	83	5.754	5.754	(0.902)	31453	2.00000	2.00	8172
25 Dibromofluoromethane	111	5.877	5.877	(0.922)	16151	2.00000		4352(a)
32 1,2-Dichloroethane	62	6.229	6.229	(0.977)	18883	2.00000	2.00	5726
33 FLUOROBENZENE	96	6.376	6.376	(1.000)	1451680	50.0000		9662
35 1,2-Dichloropropane +	63	6.845	6.845	(1.074)	16923	2.00000	2.00	7759
127 Methyl cyclohexane	83	6.740	6.740	(1.057)	24108	2.00000		8790(a)
50 Chlorobenzene-d5	82	8.586	8.586	(1.000)	562502	50.0000		8585
52 1,1,1,2-Tetrachloroethane	133	8.651	8.651	(1.008)	12097	2.00000	2.00	7892
72 1,3-Dichlorobenzene	146	10.146	10.146	(0.995)	19407	2.00000	2.00	
73 1,4-DICHLOROBENZENE-D4	152	10.193	10.193	(1.000)	311376	50.0000		9609
97 Cyclohexane	56	5.860	5.860	(0.919)	29300	2.00000		4716(a)

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
98 Methyl Acetate	43	4.278	4.278	(0.671)	73895	2.00000		2474(a)

C Flag Legend

- Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

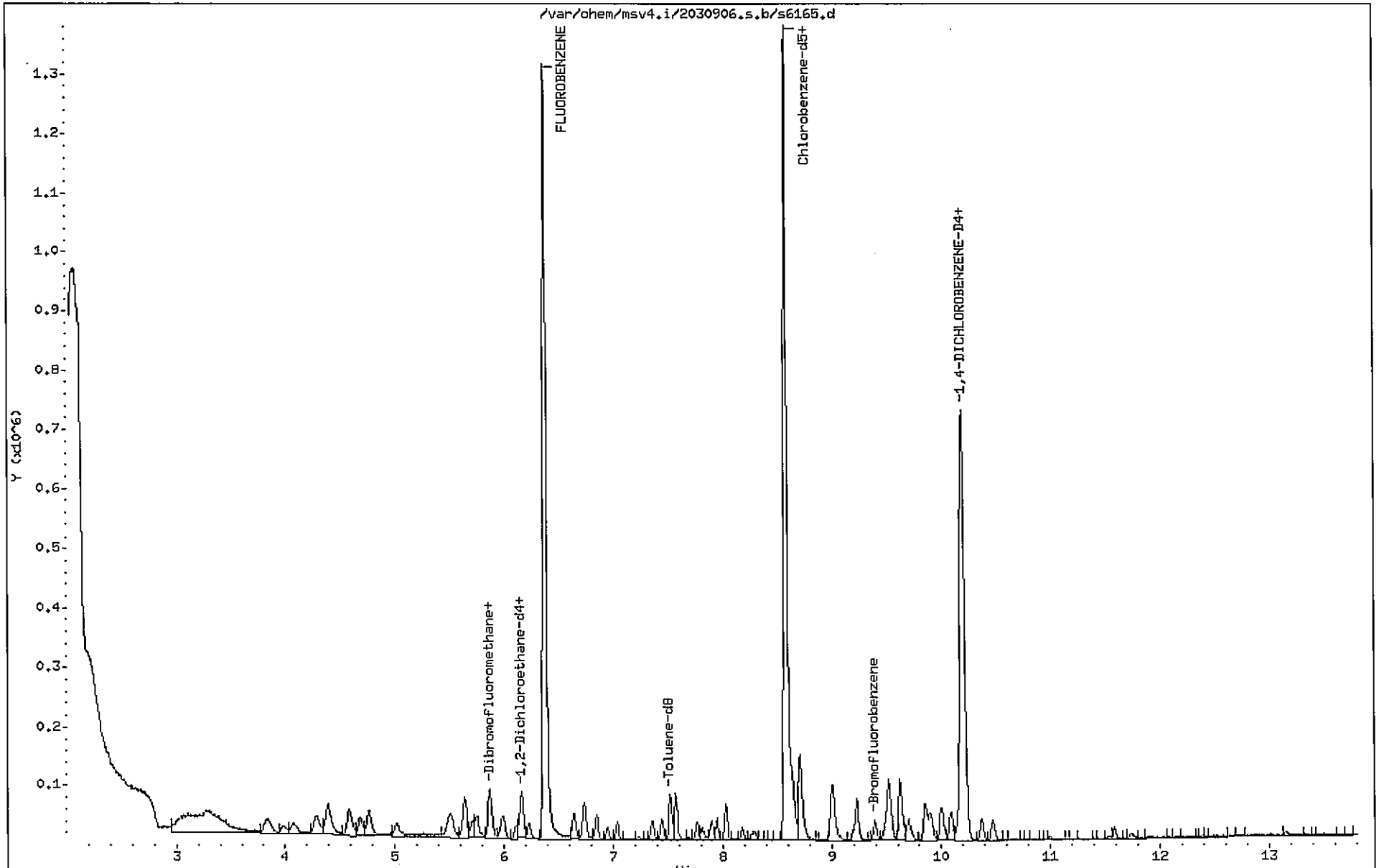
Data File: /var/chem/msv4.i/2030906.s.b/s6165.d
Date : 06-SEP-2003 08:35
Client ID: V4STD002
Sample Info: 1206*V4STD002*5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

000199



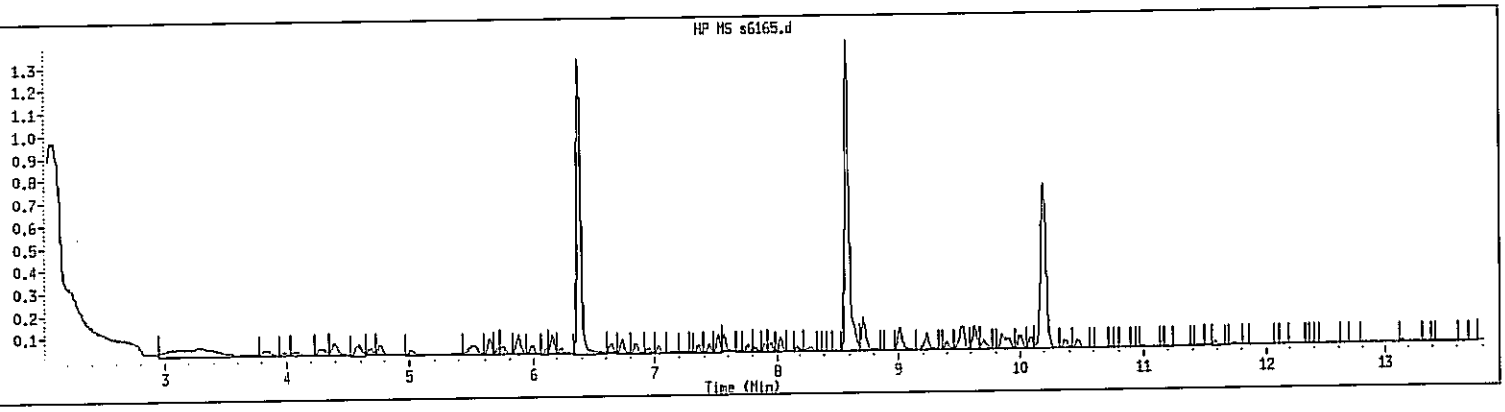
ata file : /var/chem/msv4.i/2030906.s.b/s6165.d
eport Date: 09/11/2003 08:27

MANUAL INTEGRATION GRAPHIC REPORT

ab ID : 1206
njection Date: 06-SEP-2003 08:35
perator : RJO
ample Info : 1206*V4STD002*5-1-8
isc Info : MSV~3674~*1*RJO
ethod : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
ilution : 1.0
atrix : SOIL
ntegrator : HP RTE

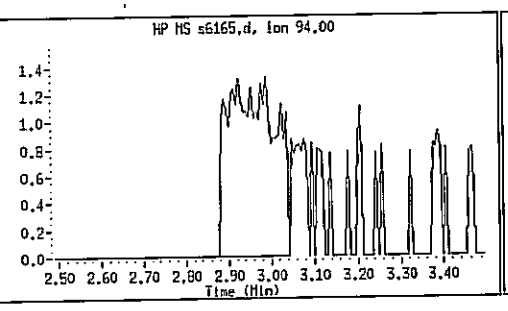
SampleType : CALIB_6
Instrument : msv4.i

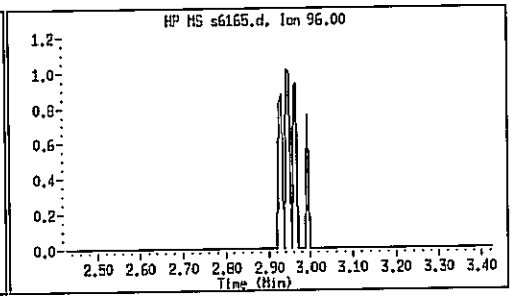
Compound Sublist: 8260b



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
4 Bromomethane			CAS#: 74-83-9				
2.989	0.469	94	10212	0	0	80-120	100
2.925	0.459	96	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030906.s.b/s6166.d
Lab Smp Id: 1201 Client Smp ID: V4STD005
Inj Date : 06-SEP-2003 09:03
Operator : RJO Inst ID: msv4.i
Smp Info : 1201*V4STD005*5-1-8
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:27 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 09:03 Cal File: s6166.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.298	2.298	(0.360)	30084	5.00000	5.00	1058
2 Chloromethane ++	50	2.480	2.480	(0.389)	47462	5.00000	5.00	5100
3 Vinyl Chloride +	62	2.638	2.638	(0.414)	37197	5.00000	5.16	3468
4 Bromomethane	94	2.925	2.925	(0.459)	19644	5.00000	5.00	4481
5 Chloroethane	64	3.042	3.042	(0.477)	17953	5.00000	5.00	0(M)
6 Trichlorofluoromethane	101	3.276	3.276	(0.514)	40214	5.00000	5.00	7133
7 Acrolein	56	3.821	3.821	(0.599)	24009	25.0000	25.0	1838
9 1,1,2Trichlotrifluoroethane	101	3.809	3.809	(0.597)	31102	5.00000	5.00	2644
8 1,1-Dichloroethene +	96	3.850	3.850	(0.604)	25986	5.00000	5.00	8170
10 Acetone	43	3.979	3.979	(0.624)	43649	5.00000	5.00	4444
11 Methyl Iodide	142	4.032	4.032	(0.632)	9287	5.00000	5.00	5425
12 Carbon Disulfide	76	4.067	4.067	(0.638)	104256	5.00000	5.00	7781
13 Methylene Chloride	49	4.390	4.390	(0.688)	72899	5.00000	5.00	8116

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.677	4.677	(0.733)	100104	25.0000	25.0	6835
15 trans-1,2-Dichloroethene	61	3.850	3.850	(0.604)	41898	5.00000	5.00	8124
16 MTBE	73	4.571	4.571	(0.717)	103792	5.00000	5.00	3691
17 Hexane	57	4.759	4.759	(0.746)	60403	5.00000	5.00	3567
19 Vinyl Acetate	43	4.759	4.759	(0.746)	46740	5.00000	5.00	
18 1,1-Dichloroethane ++	63	5.005	5.005	(0.785)	66140	5.00000	5.00	5740
22 2-Butanone	43	5.521	5.521	(0.866)	49035	5.00000	5.00	
29 Total 1,2-Dichloroethene	61				99174	10.0000	10.0	0
21 cis-1,2-Dichloroethene	61	5.503	5.503	(0.863)	57276	5.00000	5.00	8179
20 2,2-Dichloropropane	77	5.480	5.480	(0.859)	41194	5.00000	5.00	7768
23 Bromochloromethane	128	5.708	5.708	(0.895)	17438	5.00000	5.00	9298
24 Chloroform +	83	5.744	5.744	(0.901)	63058	5.00000	4.49	8665
25 Dibromofluoromethane	111	5.879	5.879	(0.922)	35578	5.00000	5.00	4756
26 1,1,1-Trichloroethane	97	5.867	5.867	(0.920)	48683	5.00000	5.00	8266
27 1,1-Dichloropropene	75	5.990	5.990	(0.939)	43364	5.00000	5.00	6604
28 Carbon Tetrachloride	117	5.967	5.967	(0.936)	37166	5.00000	5.00	8666
30 1,2-Dichloroethane-d4	67	6.166	6.166	(0.967)	20173	5.00000	5.00	7494
32 1,2-Dichloroethane	62	6.225	6.225	(0.976)	48822	5.00000	5.13	6062
31 Benzene	78	6.154	6.154	(0.965)	139339	5.00000	5.00	9020
33 FLUOROBENZENE	96	6.377	6.377	(1.000)	1426127	50.0000		9593
34 Trichloroethene	130	6.642	6.642	(1.041)	35582	5.00000	5.00	9028
35 1,2-Dichloropropane +	63	6.847	6.847	(1.074)	43355	5.00000	5.11	8567
38 2-Chloroethyl vinyl ether	63	7.228	7.228	(1.133)	8548	5.00000	5.00	5995
36 Dibromomethane	93	6.947	6.947	(1.089)	23644	5.00000	5.00	8597
37 Bromodichloromethane	83	7.035	7.035	(1.103)	46298	5.00000	5.00	9208
127 Methyl cyclohexane	83	6.735	6.735	(1.056)	62335	5.00000	5.00	9189
39 cis-1,3-Dichloropropene	75	7.357	7.357	(1.154)	58252	5.00000	5.00	
40 4-methyl-2-pentanone	43	7.439	7.439	(1.166)	79760	5.00000	5.00	
41 Toluene-d8	98	7.521	7.521	(0.876)	129274	5.00000	5.00	8424
42 Toluene +	91	7.568	7.568	(0.882)	164549	5.00000	5.00	8995
43 trans-1,3-Dichloropropene	75	7.761	7.761	(0.904)	47601	5.00000	5.00	
44 1,1,2-Trichloroethane	97	7.896	7.896	(0.920)	37108	5.00000	5.00	8315
45 1,3-Dichloropropane	76	8.031	8.031	(0.936)	61155	5.00000	5.00	8482
47 2-Hexanone	43	8.026	8.026	(0.935)	63631	5.00000	5.00	6348
46 Tetrachloroethene	164	7.949	7.949	(0.926)	22758	5.00000	5.00	5479
48 Dibromochloromethane	129	8.184	8.184	(0.954)	35310	5.00000	5.00	8461
49 1,2-Dibromoethane(EDB)	107	8.289	8.289	(0.966)	34986	5.00000	5.00	4984
50 Chlorobenzene-d5	82	8.582	8.582	(1.000)	559138	50.0000		8679
51 Chlorobenzene ++	112	8.606	8.606	(1.003)	100492	5.00000	5.00	7565
52 1,1,1,2-Tetrachloroethane	133	8.653	8.653	(1.008)	31151	5.00000	5.09	8892
53 Ethylbenzene +	106	8.636	8.636	(1.006)	53389	5.00000	5.00	9372
54 p,m-Xylene	106	8.712	8.712	(1.015)	139395	10.0000	10.0	9220
55 o-Xylene	106	8.999	8.999	(1.049)	68537	5.00000	5.00	
56 Styrene	104	9.017	9.017	(1.051)	113271	5.00000	5.00	8993
57 Bromoform ++	173	9.199	9.199	(1.072)	22253	5.00000	5.00	7472
58 Isopropylbenzene	105	9.234	9.234	(1.076)	177955	5.00000	5.00	9261
59 Bromofluorobenzene	174	9.392	9.392	(1.094)	32849	5.00000	5.00	8374

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.480	9.480	(0.931)	55963	5.00000	5.00	9229
61	trans-1,4-Dichloro-2-Butene	53	9.516	9.516	(0.934)	4954	5.00000	5.00	0(M)
62	1,2,3-Trichloropropane	75	9.533	9.533	(0.936)	55341	5.00000	5.00	7841
63	Bromobenzene	77	9.516	9.516	(0.934)	91178	5.00000	5.00	7334
64	n-Propylbenzene	91	9.510	9.510	(0.934)	201739	5.00000	5.00	7731
65	2-Chlorotoluene	91	9.622	9.622	(0.945)	125291	5.00000	5.00	9066
66	1,3,5-Trimethylbenzene	105	9.628	9.628	(0.945)	143107	5.00000	5.00	
67	4-Chlorotoluene	91	9.698	9.698	(0.952)	117161	5.00000	5.00	8787
76	TOTAL XYLENE	106				207932	15.0000	15.0	0
68	tert-butylbenzene	91	9.851	9.851	(0.967)	91243	5.00000	5.00	8980
69	1,2,4-Trimethylbenzene	105	9.898	9.898	(0.972)	138348	5.00000	5.00	
70	sec-Butylbenzene	105	9.997	9.997	(0.982)	191626	5.00000	5.00	
71	p-Isopropyltoluene	119	10.080	10.080	(0.990)	134867	5.00000	5.00	9135
72	1,3-Dichlorobenzene	146	10.139	10.139	(0.995)	52174	5.00000	4.99	(M)
73	1,4-DICHLOROBENZENE-D4	152	10.186	10.186	(1.000)	336168	50.0000		9587
74	1,4-Dichlorobenzene	146	10.203	10.203	(1.002)	59753	5.00000	5.00	
75	n-Butylbenzene	91	10.368	10.368	(1.018)	105411	5.00000	5.00	9241
77	1,2-Dichlorobenzene	146	10.473	10.473	(1.028)	54197	5.00000	5.00	
78	1,2-Dibromo-3-Chloropropane	157	10.995	10.995	(1.079)	6748	5.00000	5.00	5184
79	1,2,4-Trichlorobenzene	180	11.551	11.551	(1.134)	7214	5.00000	5.00	(M)
80	Hexachlorobutadiene	225	11.592	11.592	(1.138)	15216	5.00000	5.00	9372
81	Napthalene	128	11.750	11.750	(1.154)	30113	5.00000	5.00	7404
82	1,2,3-Trichlorobenzene	180	11.914	11.914	(1.170)	6291	5.00000	5.00	(M)
97	Cyclohexane	56	5.861	5.861	(0.919)	72773	5.00000	5.00	5042
98	Methyl Acetate	43	4.266	4.266	(0.669)	115484	5.00000	5.00	2261(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

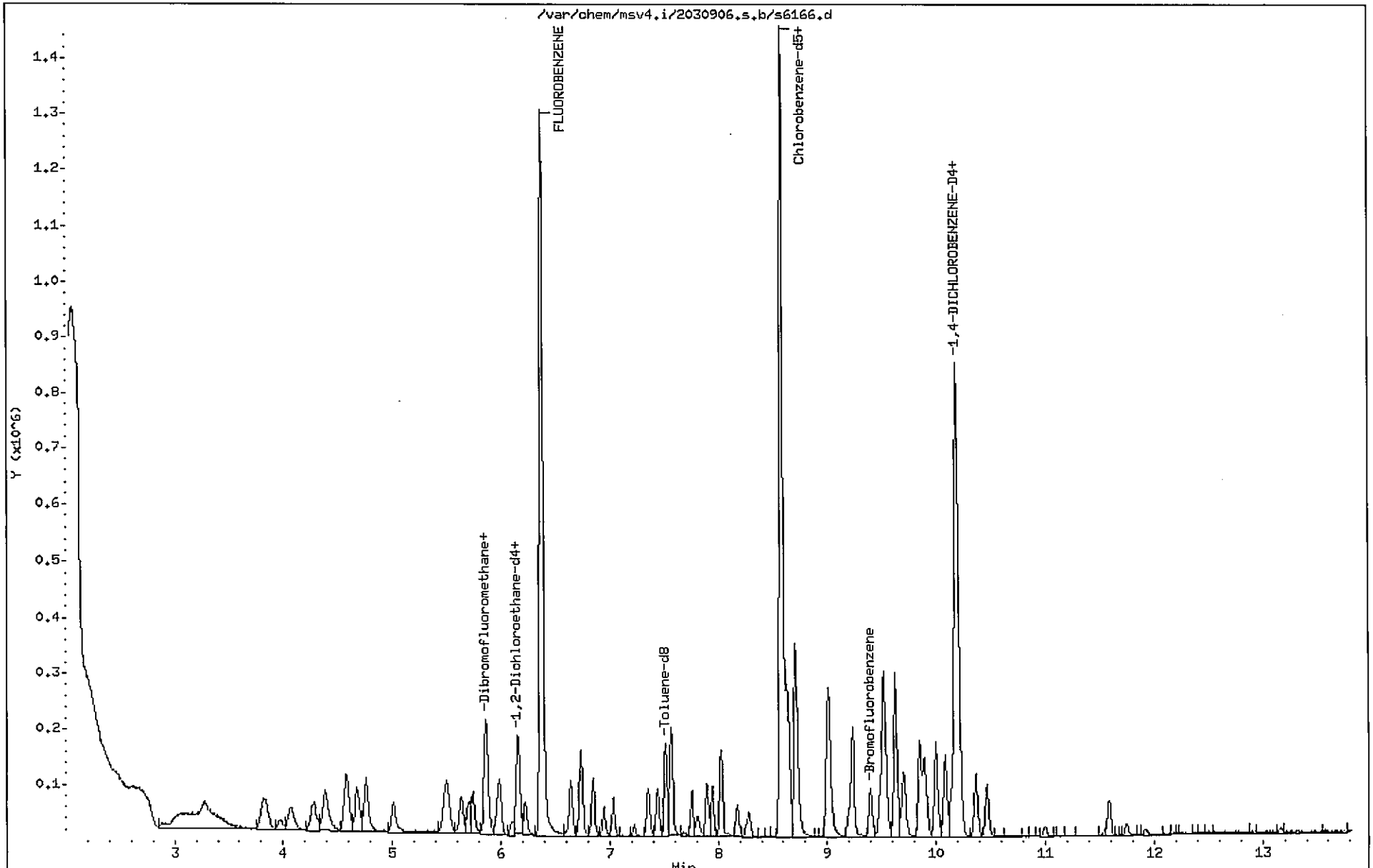
Data File: /var/chem/msv4.i/2030906.s.b/s6166.d
Date : 06-SEP-2003 09:03
Client ID: V4STD005
Sample Info: 1201*V4STD005*5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

000204

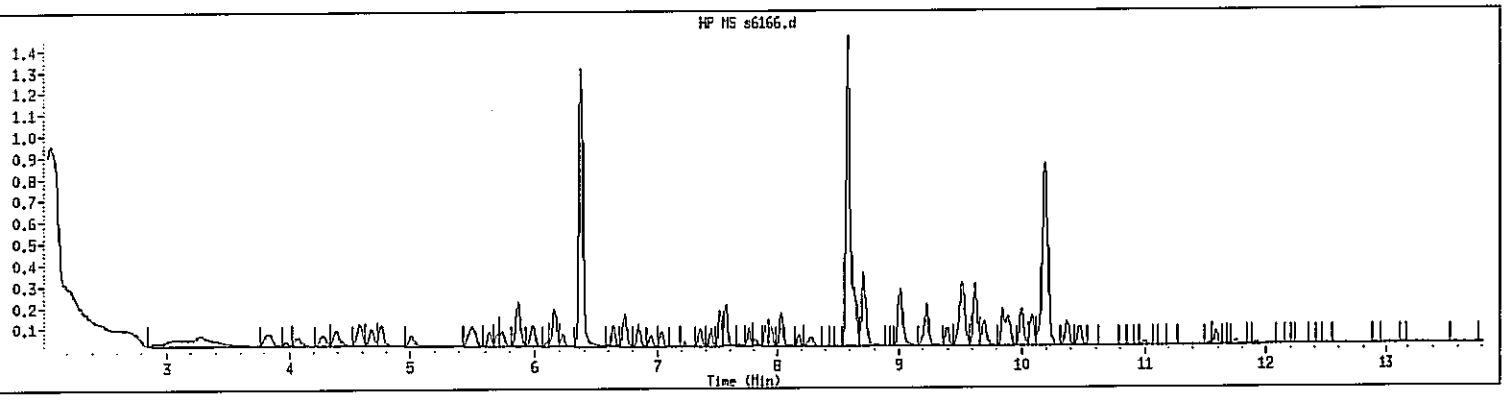


Data file : /var/chem/msv4.i/2030906.s.b/s6166.d
Report Date: 09/11/2003 08:27

MANUAL INTEGRATION GRAPHIC REPORT

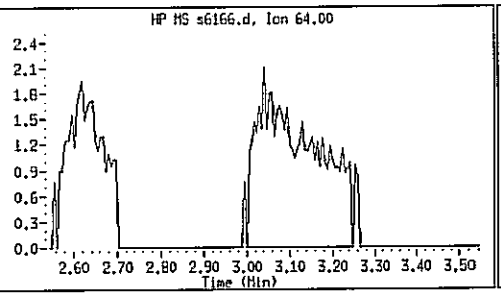
Lab ID : 1201
Injection Date: 06-SEP-2003 09:03
Operator : RJO
Sample Info : 1201*V4STD005*5-1-8
Misc Info : MSV~3674~*1*RJO
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

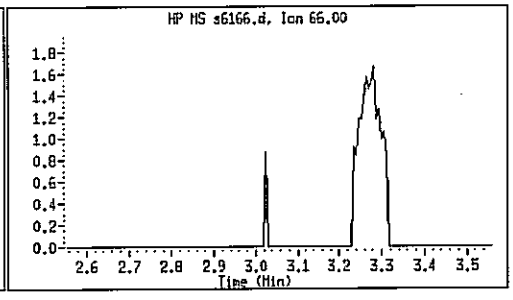
SampleType : CALIB_1
Instrument : msv4.i
Compound Sublist: 8260b



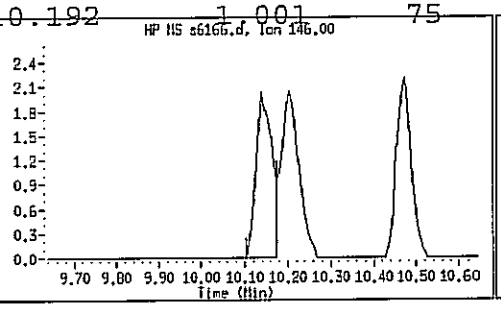
CONCENTRATIONS

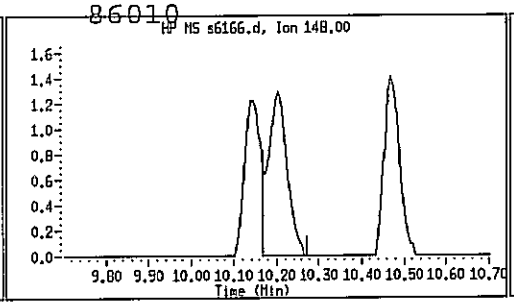
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
5 Chloroethane			CAS#: 75-00-3				
3.042	0.477	64	17953	5	5	80-120	100
3.056	0.479	66	0			0- 0	0

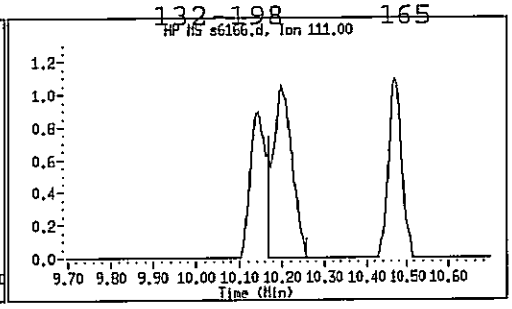




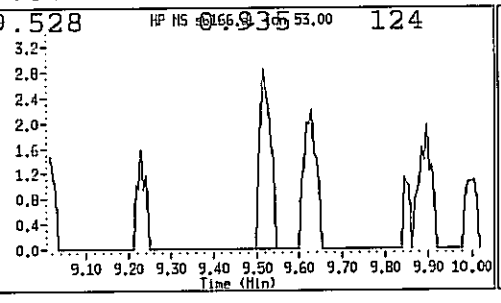
				CONCENTRATIONS			
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
72 1,3-Dichlorobenzene				CAS#: 541-73-1			
10.139	0.995	146	52174	5	5	80-120	100
10.203	1.002	148	41162			63- 95	79
10.198	1.001	111	33286			51- 77	64
10.192	1.001	75	86010			132-198	165

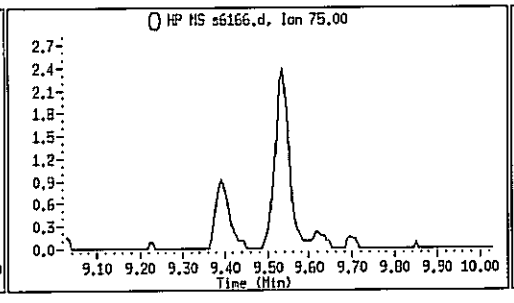


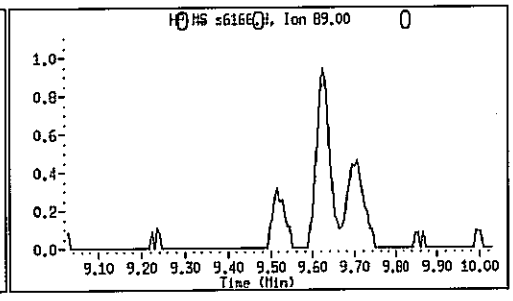




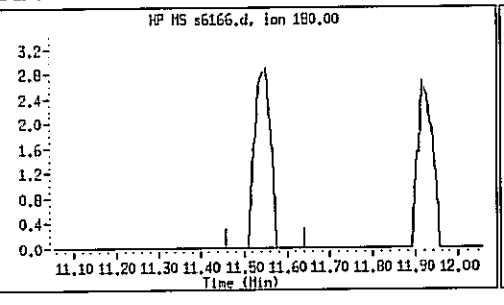
61 trans-1,4-Dichloro-2-Butene				CAS#: 764-41-0			
9.516	0.934	53	4954	5	5	80-120	100
9.528	0.935	75	0			0- 0	0
9.528	0.935	89	0			0- 0	0
9.528	0.935	124	0			0- 0	0

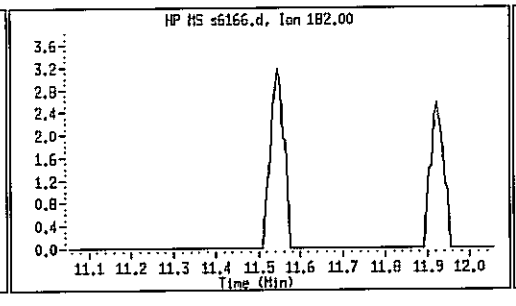


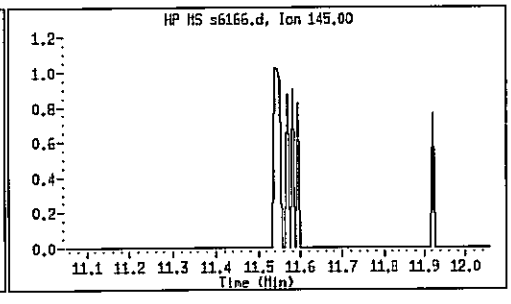




79 1,2,4-Trichlorobenzene				CAS#: 120-82-1			
11.551	1.134	180	7214	5	5	80-120	100
11.554	1.134	182	0			0- 0	0
11.554	1.134	145	0			0- 0	0

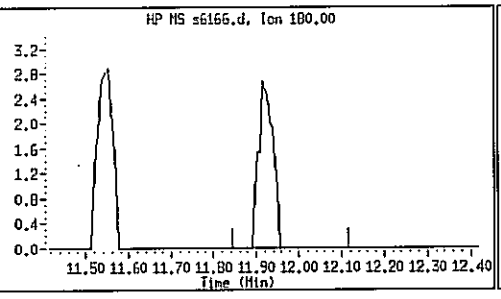


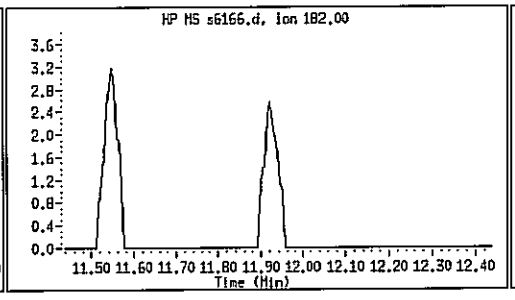


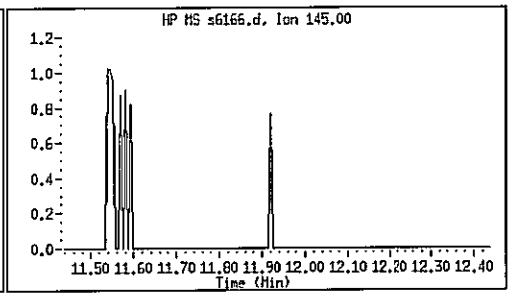


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
82 1,2,3-Trichlorobenzene				CAS#: 87-61-6			
11.914	1.170	180	6291	5	5	80-120	100
11.938	1.172	182	0			0- 0	0
11.938	1.172	145	0			0- 0	0







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030906.s.b/s6167.d
Lab Smp Id: 1202 Client Smp ID: V4STD020
Inj Date : 06-SEP-2003 09:32
Operator : RJO Inst ID: msv4.i
Smp Info : 1202*V4STD020*5-1-8
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:27 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 09:32 Cal File: s6167.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.310	2.310	(0.362)	117255	20.0000	20.5	950
2 Chloromethane ++	50	2.480	2.480	(0.389)	169793	20.0000	19.6	6101
3 Vinyl Chloride +	62	2.632	2.632	(0.413)	146665	20.0000	21.2	4015
4 Bromomethane	94	2.902	2.902	(0.455)	60169	20.0000	18.1	5561
5 Chloroethane	64	3.048	3.048	(0.478)	78056	20.0000	21.6	3472
6 Trichlorofluoromethane	101	3.271	3.271	(0.513)	158286	20.0000	20.6	7918
7 Acrolein	56	3.810	3.810	(0.598)	94769	100.000	103	2191
9 1,1,2Trichlotrifluoroethane	101	3.810	3.810	(0.598)	116339	20.0000	20.1	4273
8 1,1-Dichloroethene +	96	3.846	3.846	(0.603)	101602	20.0000	20.5	8657
10 Acetone	43	3.969	3.969	(0.622)	116527	20.0000	20.0	6493
11 Methyl Iodide	142	4.045	4.045	(0.634)	73859	20.0000	27.3	8701
12 Carbon Disulfide	76	4.069	4.069	(0.638)	406943	20.0000	20.5	8781
13 Methylene Chloride	49	4.379	4.379	(0.687)	214923	20.0000	20.0	8894

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.673	4.673	(0.733)	371727	100.000	99.9	6875
15 trans-1,2-Dichloroethene	61	3.846	3.846	(0.603)	165092	20.0000	20.6	8518
16 MTBE	73	4.567	4.567	(0.716)	395633	20.0000	20.2	4120
17 Hexane	57	4.755	4.755	(0.746)	210131	20.0000	19.3	3505(H)
19 Vinyl Acetate	43	4.755	4.755	(0.746)	138811	20.0000	17.8	
18 1,1-Dichloroethane ++	63	5.002	5.002	(0.784)	245144	20.0000	20.0	6039
22 2-Butanone	43	5.518	5.518	(0.865)	153605	20.0000	18.3	
29 Total 1,2-Dichloroethene	61				384141	40.0000	40.8	0
21 cis-1,2-Dichloroethene	61	5.500	5.500	(0.863)	219049	20.0000	20.3	8234
20 2,2-Dichloropropane	77	5.476	5.476	(0.859)	162676	20.0000	20.6	8647
23 Bromochloromethane	128	5.699	5.699	(0.894)	69543	20.0000	20.7	9396
24 Chloroform +	83	5.747	5.747	(0.901)	223238	20.0000	18.0	8855
25 Dibromofluoromethane	111	5.876	5.876	(0.922)	136993	20.0000	20.4	4956
26 1,1,1-Trichloroethane	97	5.864	5.864	(0.920)	190402	20.0000	20.5	8822
27 1,1-Dichloropropene	75	5.988	5.988	(0.939)	170134	20.0000	20.5	6789
28 Carbon Tetrachloride	117	5.970	5.970	(0.936)	146800	20.0000	20.6	9073
30 1,2-Dichloroethane-d4	67	6.164	6.164	(0.967)	75750	20.0000	20.1	7667
32 1,2-Dichloroethane	62	6.223	6.223	(0.976)	178801	20.0000	20.1	6411
31 Benzene	78	6.152	6.152	(0.965)	544286	20.0000	20.5	9106
33 FLUOROBENZENE	96	6.376	6.376	(1.000)	1325504	50.0000		9651
34 Trichloroethene	130	6.640	6.640	(1.041)	135131	20.0000	20.2	9089
35 1,2-Dichloropropane +	63	6.845	6.845	(1.074)	164082	20.0000	20.5	8685
38 2-Chloroethyl vinyl ether	63	7.227	7.227	(1.133)	35538	20.0000	21.1	6764
36 Dibromomethane	93	6.945	6.945	(1.089)	92306	20.0000	20.5	9021
37 Bromodichloromethane	83	7.033	7.033	(1.103)	191165	20.0000	20.6	9417
127 Methyl cyclohexane	83	6.734	6.734	(1.056)	237817	20.0000	20.3	9284
39 cis-1,3-Dichloropropene	75	7.350	7.350	(1.153)	226412	20.0000	20.4	
40 4-methyl-2-pentanone	43	7.438	7.438	(1.167)	278354	20.0000	19.4	
41 Toluene-d8	98	7.514	7.514	(0.876)	459269	20.0000	19.2	8637
42 Toluene +	91	7.567	7.567	(0.882)	593332	20.0000	19.4	9062
43 trans-1,3-Dichloropropene	75	7.755	7.755	(0.904)	198634	20.0000	20.8	
44 1,1,2-Trichloroethane	97	7.896	7.896	(0.920)	140362	20.0000	19.8	8280
45 1,3-Dichloropropane	76	8.025	8.025	(0.935)	240991	20.0000	20.3	8632
47 2-Hexanone	43	8.025	8.025	(0.935)	235248	20.0000	19.6	6600
46 Tetrachloroethene	164	7.943	7.943	(0.925)	88227	20.0000	20.1	5618
48 Dibromochloromethane	129	8.178	8.178	(0.953)	143258	20.0000	20.5	9075
49 1,2-Dibromoethane(EDB)	107	8.284	8.284	(0.965)	140495	20.0000	20.4	5533
50 Chlorobenzene-d5	82	8.583	8.583	(1.000)	537058	50.0000		8713
51 Chlorobenzene ++	112	8.600	8.600	(1.002)	398162	20.0000	20.3	8616
52 1,1,1,2-Tetrachloroethane	133	8.654	8.654	(1.008)	122205	20.0000	20.5	9299
53 Ethylbenzene +	106	8.630	8.630	(1.006)	204249	20.0000	20.0	9389
54 p,m-Xylene	106	8.713	8.713	(1.015)	538696	40.0000	40.1	9268
55 o-Xylene	106	9.000	9.000	(1.049)	265457	20.0000	20.1	
56 Styrene	104	9.012	9.012	(1.050)	457232	20.0000	20.5	9010
57 Bromoform ++	173	9.194	9.194	(1.071)	91307	20.0000	20.7	7629
58 Isopropylbenzene	105	9.229	9.229	(1.075)	690589	20.0000	20.1	9395
59 Bromofluorobenzene	174	9.394	9.394	(1.095)	130544	20.0000	20.3	8607

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60 1,1,2,2-Tetrachloroethane++	83	9.482	9.482	(0.931)	218167	20.0000	19.0	9404
61 trans-1,4-Dichloro-2-Butene	53	9.518	9.518	(0.935)	39828	20.0000	20.0	4417
62 1,2,3-Trichloropropane	75	9.529	9.529	(0.936)	236690	20.0000	19.9	7673
63 Bromobenzene	77	9.512	9.512	(0.934)	357233	20.0000	19.0	7426
64 n-Propylbenzene	91	9.512	9.512	(0.934)	818261	20.0000	19.4	7729
65 2-Chlorotoluene	91	9.618	9.618	(0.944)	517854	20.0000	19.6	8994
66 1,3,5-Trimethylbenzene	105	9.624	9.624	(0.945)	567526	20.0000	19.2	
67 4-Chlorotoluene	91	9.695	9.695	(0.952)	481647	20.0000	19.5	8792
76 TOTAL XYLENE	106				804153	60.0000	60.2	0
68 tert-butylbenzene	91	9.847	9.847	(0.967)	364789	20.0000	19.2	8973
69 1,2,4-Trimethylbenzene	105	9.889	9.889	(0.971)	558395	20.0000	19.3	
70 sec-Butylbenzene	105	9.995	9.995	(0.981)	758772	20.0000	19.1	
71 p-Isopropyltoluene	119	10.077	10.077	(0.990)	563647	20.0000	19.7	9226
72 1,3-Dichlorobenzene	146	10.136	10.136	(0.995)	222322	20.0000	19.8	
73 1,4-DICHLOROBENZENE-D4	152	10.183	10.183	(1.000)	362489	50.0000		9261
74 1,4-Dichlorobenzene	146	10.195	10.195	(1.001)	271450	20.0000	20.5	
75 n-Butylbenzene	91	10.354	10.354	(1.017)	502277	20.0000	21.0	9264
77 1,2-Dichlorobenzene	146	10.466	10.466	(1.028)	237577	20.0000	20.2	
78 1,2-Dibromo-3-Chloropropane	157	10.993	10.993	(1.079)	34137	20.0000	21.6	5734
79 1,2,4-Trichlorobenzene	180	11.544	11.544	(1.134)	78417	20.0000	20.0	
80 Hexachlorobutadiene	225	11.585	11.585	(1.138)	69843	20.0000	20.6	9364
81 Napthalene	128	11.743	11.743	(1.153)	162027	20.0000	20.0	9112
82 1,2,3-Trichlorobenzene	180	11.925	11.925	(1.171)	75683	20.0000	29.4	
97 Cyclohexane	56	5.858	5.858	(0.919)	275551	20.0000	20.2	4927
98 Methyl Acetate	43	4.256	4.256	(0.668)	196317	20.0000	20.0	1471

QC Flag Legend

H - Operator selected an alternate compound hit.

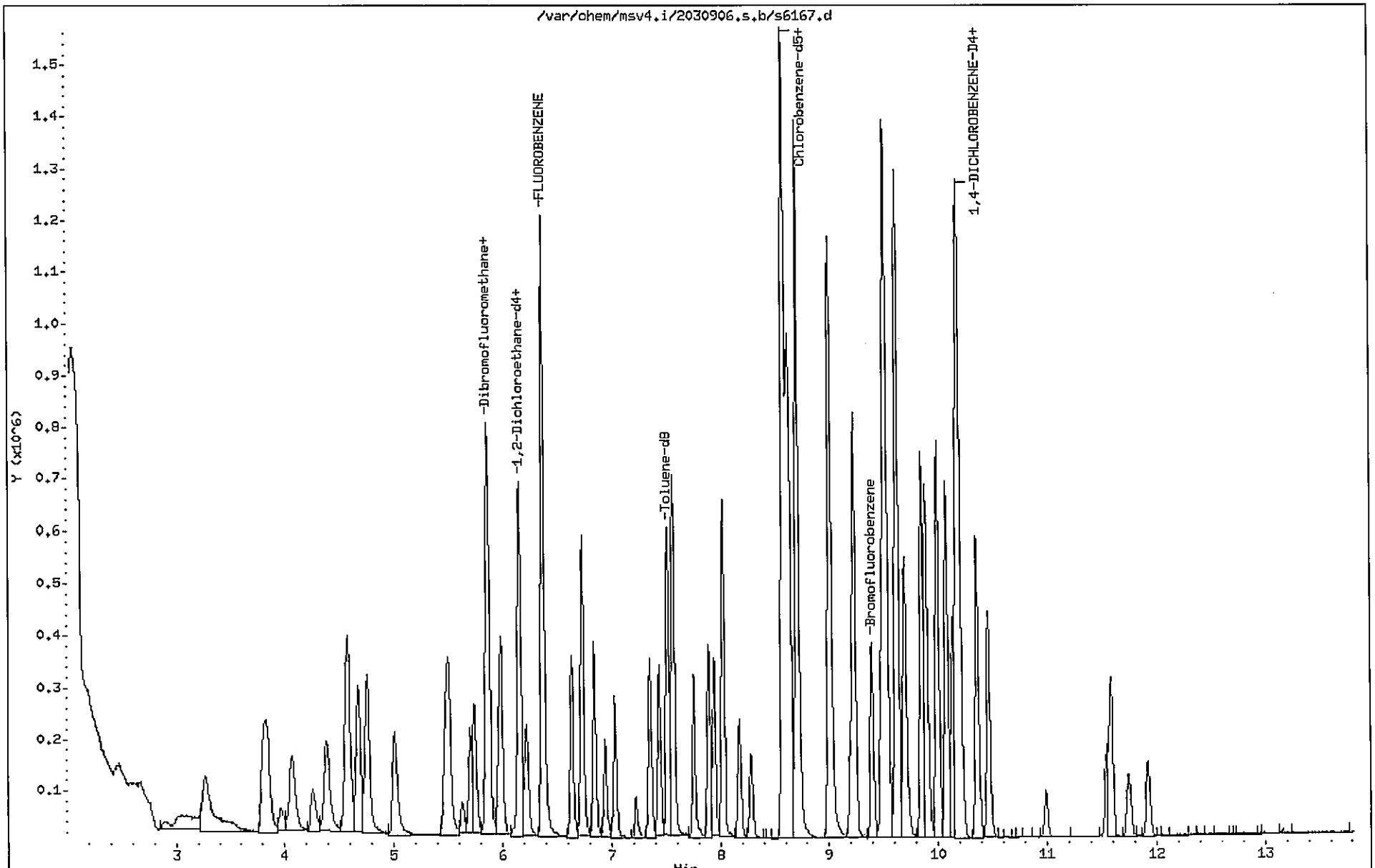
Data File: /var/chem/msv4.i/2030906.s.b/s6167.d
Date : 06-SEP-2003 09:32
Client ID: V4STD020
Sample Info: 1202MV4STD020M5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

000211



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030906.s.b/s6168.d
Lab Smp Id: 1203 Client Smp ID: V4STD050
Inj Date : 06-SEP-2003 10:00
Operator : RJO Inst ID: msv4.i
Smp Info : 1203*V4STD050*5-1-8
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:27 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:00 Cal File: s6168.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.286	2.286	(0.359)	300143	50.0000	51.2	1007
2 Chloromethane ++	50	2.468	2.468	(0.388)	463143	50.0000	51.9	6175
3 Vinyl Chloride +	62	2.609	2.609	(0.410)	371278	50.0000	52.3	4322
4 Bromomethane	94	2.926	2.926	(0.459)	138370	50.0000	43.7	0(M)
5 Chloroethane	64	3.020	3.020	(0.474)	185538	50.0000	50.5	3692
6 Trichlorofluoromethane	101	3.254	3.254	(0.511)	407459	50.0000	51.6	7963
7 Acrolein	56	3.806	3.806	(0.598)	230636	250.000	249	2259(A)
9 1,1,2Trichlotrifluoroethane	101	3.794	3.794	(0.596)	294789	50.0000	50.2	4391
8 1,1-Dichloroethene +	96	3.835	3.835	(0.602)	260994	50.0000	51.4	8700
10 Acetone	43	3.959	3.959	(0.622)	259427	50.0000	49.8	6529
11 Methyl Iodide	142	4.035	4.035	(0.634)	250196	50.0000	71.6	0(M)
12 Carbon Disulfide	76	4.058	4.058	(0.637)	1040993	50.0000	51.2	8775
13 Methylene Chloride	49	4.375	4.375	(0.687)	505504	50.0000	49.9	9355

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14	Acrylonitrile	53	4.669	4.669	(0.733)	906242	250.000	244	6875(A)
15	trans-1,2-Dichloroethene	61	3.835	3.835	(0.602)	425391	50.0000	51.6	8661
16	MTBE	73	4.557	4.557	(0.716)	1030226	50.0000	51.4	4145
17	Hexane	57	4.752	4.752	(0.746)	491589	50.0000	46.4	4362(M)
19	Vinyl Acetate	43	4.752	4.752	(0.746)	337303	50.0000	44.9	
18	1,1-Dichloroethane ++	63	4.992	4.992	(0.784)	626244	50.0000	50.3	6098
22	2-Butanone	43	5.515	5.515	(0.866)	359753	50.0000	44.7	
29	Total 1,2-Dichloroethene	61				996457	100.000	103	0
21	cis-1,2-Dichloroethene	61	5.491	5.491	(0.862)	571066	50.0000	51.5	8218
20	2,2-Dichloropropane	77	5.467	5.467	(0.859)	428539	50.0000	52.4	8887
23	Bromochloromethane	128	5.697	5.697	(0.895)	178908	50.0000	51.8	9379
24	Chloroform +	83	5.738	5.738	(0.901)	560762	50.0000	45.9	8922
25	Dibromofluoromethane	111	5.874	5.874	(0.922)	349409	50.0000	50.9	4866
26	1,1,1-Trichloroethane	97	5.862	5.862	(0.920)	487565	50.0000	51.3	8819
27	1,1-Dichloropropene	75	5.986	5.986	(0.940)	434928	50.0000	51.3	6746
28	Carbon Tetrachloride	117	5.968	5.968	(0.937)	383747	50.0000	52.1	9103
30	1,2-Dichloroethane-d4	67	6.162	6.162	(0.968)	197059	50.0000	51.1	7847
32	1,2-Dichloroethane	62	6.215	6.215	(0.976)	467684	50.0000	51.6	6411
31	Benzene	78	6.150	6.150	(0.966)	1356730	50.0000	50.4	0(M)
33	FLUOROBENZENE	96	6.368	6.368	(1.000)	1339767	50.0000		9674
34	Trichloroethene	130	6.632	6.632	(1.042)	358753	50.0000	52.0	9071
35	1,2-Dichloropropane +	63	6.844	6.844	(1.075)	424037	50.0000	51.8	8682
38	2-Chloroethyl vinyl ether	63	7.220	7.220	(1.134)	114207	50.0000	60.3	6792
36	Dibromomethane	93	6.938	6.938	(1.090)	235270	50.0000	51.1	9060
37	Bromodichloromethane	83	7.032	7.032	(1.104)	499619	50.0000	52.2	9512
127	Methyl cyclohexane	83	6.732	6.732	(1.057)	615736	50.0000	51.2	9357
39	cis-1,3-Dichloropropene	75	7.349	7.349	(1.154)	601507	50.0000	52.4	
40	4-methyl-2-pentanone	43	7.438	7.438	(1.168)	698898	50.0000	48.7	
41	Toluene-d8	98	7.514	7.514	(0.876)	1210624	50.0000	51.2	8497
42	Toluene +	91	7.561	7.561	(0.881)	1555387	50.0000	51.3	9033
43	trans-1,3-Dichloropropene	75	7.755	7.755	(0.904)	545724	50.0000	55.4	
44	1,1,2-Trichloroethane	97	7.896	7.896	(0.921)	363374	50.0000	51.7	8294
45	1,3-Dichloropropane	76	8.026	8.026	(0.936)	634383	50.0000	52.9	8638
47	2-Hexanone	43	8.026	8.026	(0.936)	582935	50.0000	49.8	6622
46	Tetrachloroethene	164	7.944	7.944	(0.926)	227883	50.0000	52.0	5473
48	Dibromochloromethane	129	8.179	8.179	(0.953)	379613	50.0000	53.7	9034
49	1,2-Dibromoethane(EDB)	107	8.285	8.285	(0.966)	381321	50.0000	54.3	5533
50	Chlorobenzene-d5	82	8.578	8.578	(1.000)	524991	50.0000		8730
51	Chlorobenzene ++	112	8.602	8.602	(1.003)	1054925	50.0000	53.3	9135
52	1,1,1,2-Tetrachloroethane	133	8.649	8.649	(1.008)	325697	50.0000	54.3	9363
53	Ethylbenzene +	106	8.631	8.631	(1.006)	548611	50.0000	53.1	9394
54	p,m-Xylene	106	8.708	8.708	(1.015)	1405451	100.000	105	9266
55	o-Xylene	106	8.996	8.996	(1.049)	690768	50.0000	52.3	
56	Styrene	104	9.014	9.014	(1.051)	1224031	50.0000	53.9	9138
57	Bromoform ++	173	9.196	9.196	(1.072)	247125	50.0000	54.6	8191
58	Isopropylbenzene	105	9.231	9.231	(1.076)	1798653	50.0000	52.3	9305
59	Bromofluorobenzene	174	9.396	9.396	(1.095)	340598	50.0000	52.8	8705

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.479	9.479	(0.931)	572630	50.0000	48.3	9433
61	trans-1,4-Dichloro-2-Butene	53	9.520	9.520	(0.935)	131133	50.0000	50.4	4766
62	1,2,3-Trichloropropane	75	9.532	9.532	(0.936)	640801	50.0000	50.9	7857
63	Bromobenzene	77	9.514	9.514	(0.934)	970436	50.0000	49.5	7382
64	n-Propylbenzene	91	9.514	9.514	(0.934)	2179959	50.0000	49.4	7620
65	2-Chlorotoluene	91	9.621	9.621	(0.945)	1331932	50.0000	48.6	8975
66	1,3,5-Trimethylbenzene	105	9.621	9.621	(0.945)	1455189	50.0000	47.8	
67	4-Chlorotoluene	91	9.698	9.698	(0.952)	1223717	50.0000	48.1	8820
76	TOTAL XYLENE	106				2096219	150.000	157	0
68	tert-butylbenzene	91	9.851	9.851	(0.968)	937508	50.0000	48.0	8881
69	1,2,4-Trimethylbenzene	105	9.892	9.892	(0.972)	1450984	50.0000	48.5	
70	sec-Butylbenzene	105	9.998	9.998	(0.982)	1940557	50.0000	47.7	
71	p-Isopropyltoluene	119	10.081	10.081	(0.990)	1484500	50.0000	49.6	9254
72	1,3-Dichlorobenzene	146	10.140	10.140	(0.996)	601045	50.0000	50.7	
73	1,4-DICHLOROBENZENE-D4	152	10.181	10.181	(1.000)	380828	50.0000		8895
74	1,4-Dichlorobenzene	146	10.199	10.199	(1.002)	666274	50.0000	48.6	
75	n-Butylbenzene	91	10.358	10.358	(1.017)	1396753	50.0000	53.6	9151
77	1,2-Dichlorobenzene	146	10.464	10.464	(1.028)	633640	50.0000	50.8	
78	1,2-Dibromo-3-Chloropropane	157	10.997	10.997	(1.080)	91215	50.0000	53.2	5734
79	1,2,4-Trichlorobenzene	180	11.548	11.548	(1.134)	309330	50.0000	50.6	
80	Hexachlorobutadiene	225	11.596	11.596	(1.139)	190204	50.0000	52.3	9439
81	Napthalene	128	11.755	11.755	(1.155)	677510	50.0000	50.7	9410
82	1,2,3-Trichlorobenzene	180	11.931	11.931	(1.172)	296645	50.0000	78.5	
97	Cyclohexane	56	5.856	5.856	(0.920)	689815	50.0000	50.0	4881
98	Methyl Acetate	43	4.252	4.252	(0.668)	468813	50.0000	50.6	1505

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

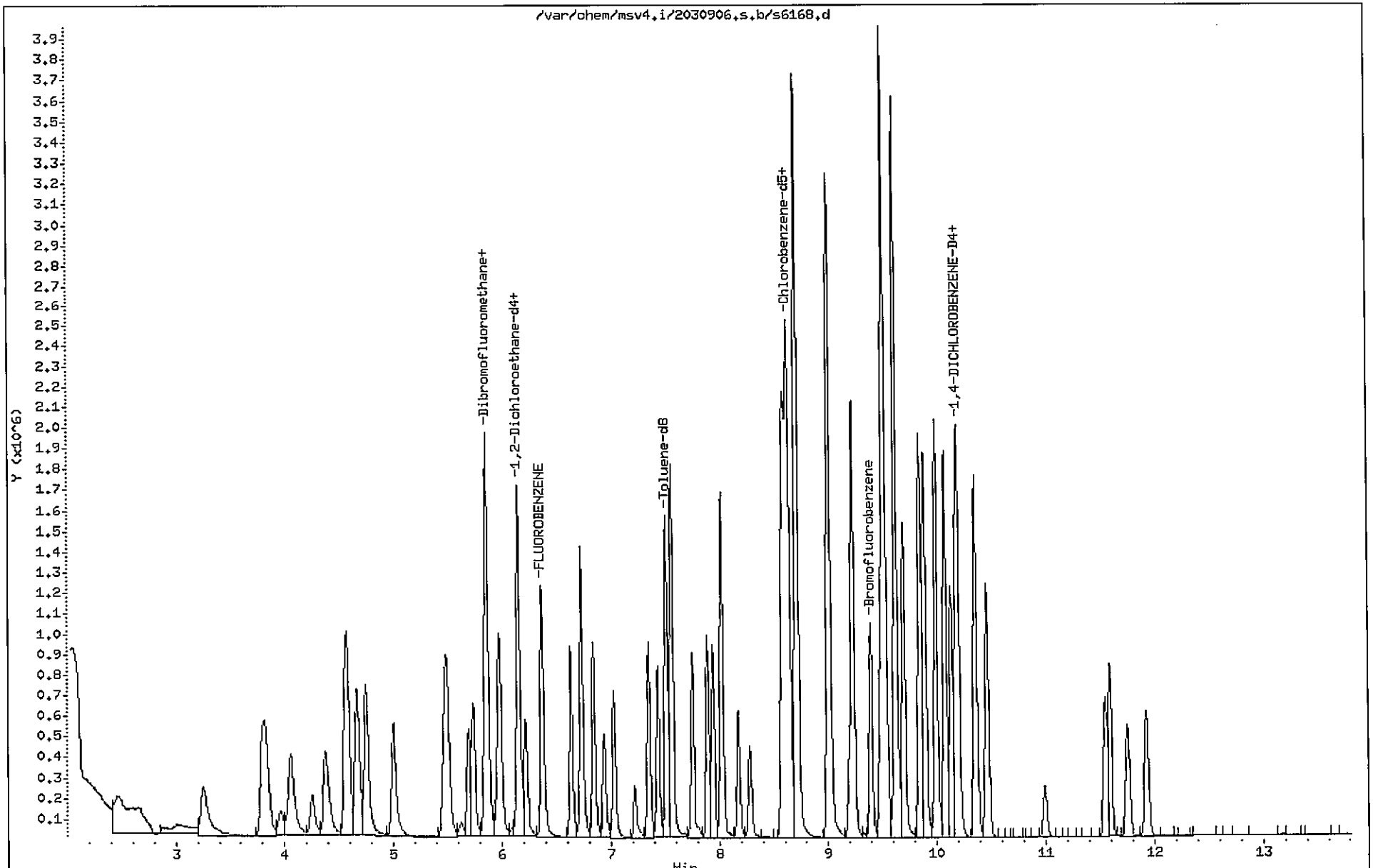
Data File: /var/chem/msv4.i/2030906.s.b/s6168.d
Date : 06-SEP-2003 10:00
Client ID: V4STD050
Sample Info: 1203*V4STD050*5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

000215

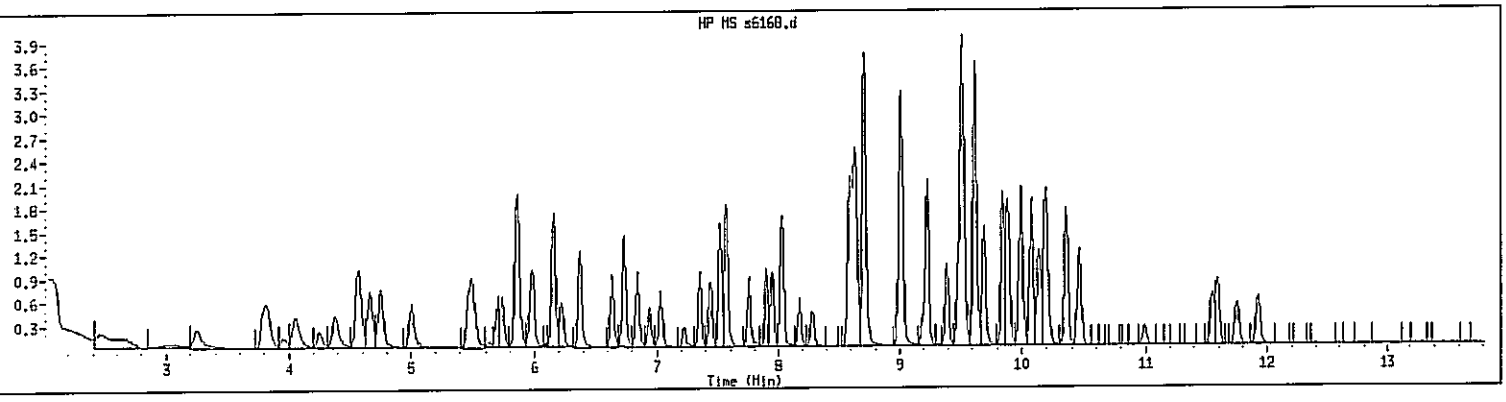


Data file : /var/chem/msv4.i/2030906.s.b/s6168.d
Report Date: 09/11/2003 08:27

MANUAL INTEGRATION GRAPHIC REPORT

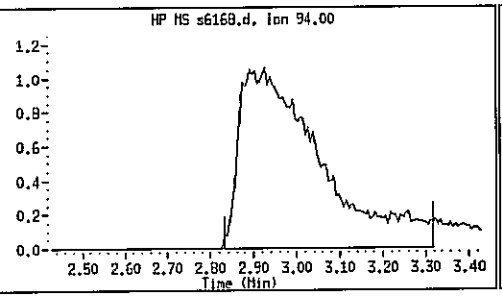
Lab ID : 1203
Injection Date: 06-SEP-2003 10:00
Operator : RJO
Sample Info : 1203*V4STD050*5-1-8
Misc Info : MSV~3674~*1*RJO
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

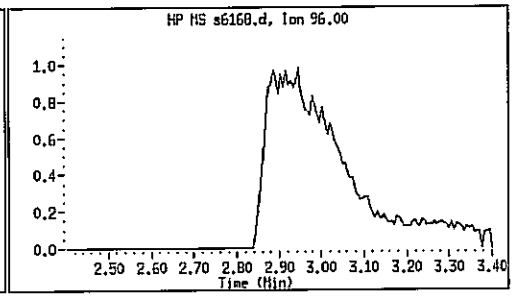
SampleType : CALIB_3
Instrument : msv4.i
Compound Sublist: 8260b



CONCENTRATIONS

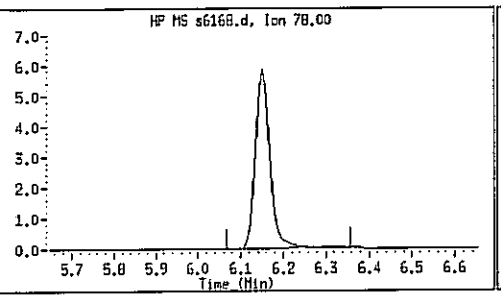
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
4 Bromomethane			CAS#: 74-83-9				
2.926	0.459	94	138370	44	44	80-120	100
2.902	0.456	96	0			0- 0	0

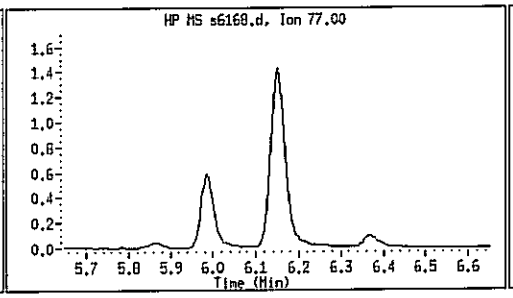


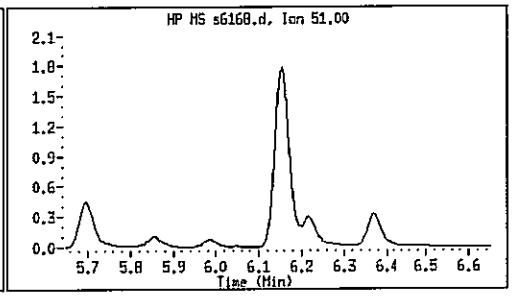


CONCENTRATIONS

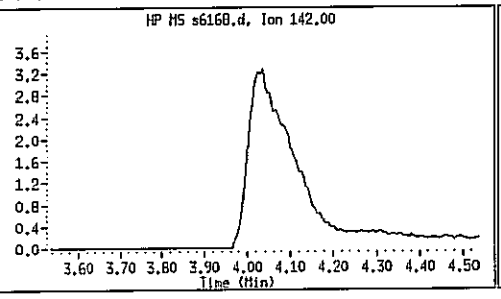
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
31 Benzene			CAS#: 71-43-2				
5.150	0.966	78	1356730	50	50	80-120	100
5.152	0.966	77	0			0- 0	0
5.152	0.966	51	0			0- 0	0

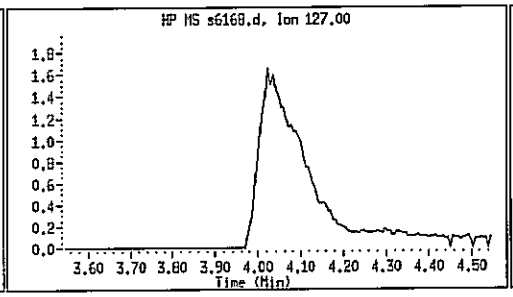


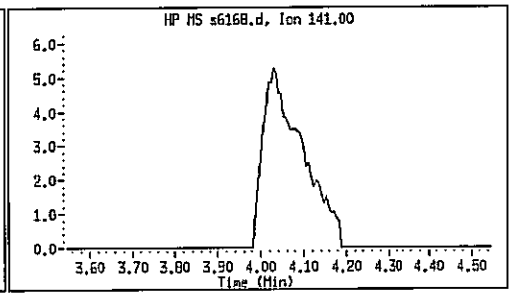




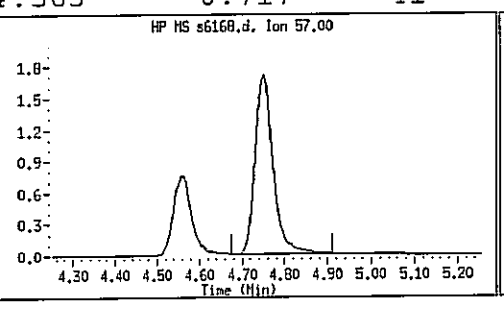
11 Methyl Iodide			CAS#: 74-88-4				
4.035	0.634	142	250196	72	72	80-120	100
4.045	0.635	127	0			0- 0	0
4.045	0.635	141	0			0- 0	0

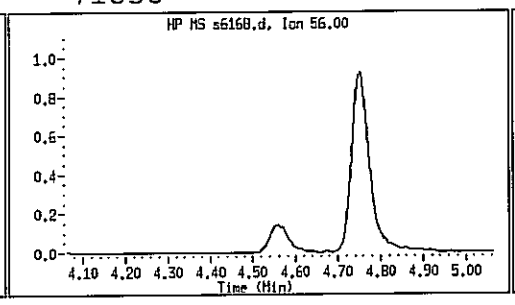


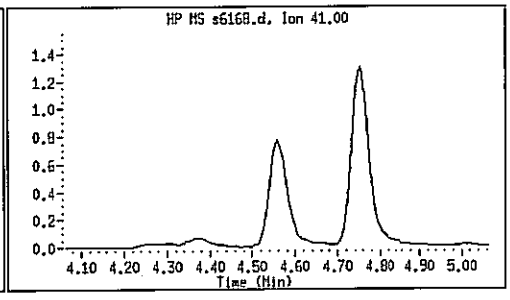




17 Hexane			CAS#: 110-54-3				
4.752	0.746	57	491589	46	46	80-120	100
4.563	0.717	56	12996			6- 9	3
4.563	0.717	41	71856			34- 51	15







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030906.s.b/s6169.d
Lab Smp Id: 1204 Client Smp ID: V4STD100
Inj Date : 06-SEP-2003 10:28
Operator : RJO Inst ID: msv4.i
Smp Info : 1204*V4STD100*5-1-8
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:27 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:28 Cal File: s6169.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.286	2.286	(0.359)	556355	100.000	99.8	1038
2 Chloromethane ++	50	2.468	2.468	(0.387)	848121	100.000	99.9	6237
3 Vinyl Chloride +	62	2.603	2.603	(0.409)	682508	100.000	101	4483
4 Bromomethane	94	2.879	2.879	(0.452)	203175	100.000	73.4	0(M)
5 Chloroethane	64	2.997	2.997	(0.470)	312240	100.000	91.7	3982
6 Trichlorofluoromethane	101	3.249	3.249	(0.510)	755055	100.000	100	7956
7 Acrolein	56	3.800	3.800	(0.596)	417449	500.000	479	2239(A)
9 1,1,2Trichlotrifluoroethane	101	3.789	3.789	(0.595)	557356	100.000	99.8	4361
8 1,1-Dichloroethene +	96	3.824	3.824	(0.600)	488701	100.000	101	8695
10 Acetone	43	3.960	3.960	(0.621)	474534	100.000	99.9	6529
11 Methyl Iodide	142	4.024	4.024	(0.632)	539653	100.000	140	0(M)
12 Carbon Disulfide	76	4.054	4.054	(0.636)	1863427	100.000	97.2	0(M)
13 Methylene Chloride	49	4.371	4.371	(0.686)	905481	100.000	99.3	9405

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.665	4.665	(0.732)	1668936	500.000	479	6875(A)
15 trans-1,2-Dichloroethene	61	3.830	3.830	(0.601)	778844	100.000	99.5	8622
16 MTBE	73	4.559	4.559	(0.716)	1865477	100.000	98.4	0(M)
17 Hexane	57	4.747	4.747	(0.745)	975222	100.000	97.5	3292(H)
19 Vinyl Acetate	43	4.747	4.747	(0.745)	631246	100.000	90.9	
18 1,1-Dichloroethane ++	63	4.994	4.994	(0.784)	1150762	100.000	97.9	6075
22 2-Butanone	43	5.511	5.511	(0.865)	661606	100.000	89.4	
29 Total 1,2-Dichloroethene	61				1841245	200.000	200	0
21 cis-1,2-Dichloroethene	61	5.493	5.493	(0.862)	1062401	100.000	101	8195
20 2,2-Dichloropropane	77	5.464	5.464	(0.858)	807322	100.000	103	8919
23 Bromochloromethane	128	5.693	5.693	(0.894)	335241	100.000	101	9433
24 Chloroform +	83	5.740	5.740	(0.901)	1031555	100.000	90.8	8829
25 Dibromofluoromethane	111	5.870	5.870	(0.921)	637189	100.000	98.1	4818
26 1,1,1-Trichloroethane	97	5.858	5.858	(0.919)	897276	100.000	99.4	8806
27 1,1-Dichloropropene	75	5.983	5.983	(0.939)	796628	100.000	99.0	6747
28 Carbon Tetrachloride	117	5.965	5.965	(0.936)	721408	100.000	102	9054
30 1,2-Dichloroethane-d4	67	6.159	6.159	(0.967)	360322	100.000	98.7	7831
32 1,2-Dichloroethane	62	6.218	6.218	(0.976)	854157	100.000	99.2	6408
31 Benzene	78	6.148	6.148	(0.965)	2474680	100.000	97.4	0(M)
33 FLUOROBENZENE	96	6.371	6.371	(1.000)	1274879	50.0000		9667
34 Trichloroethene	130	6.636	6.636	(1.042)	669091	100.000	101	9038
35 1,2-Dichloropropane +	63	6.842	6.842	(1.074)	770576	100.000	99.2	8681
38 2-Chloroethyl vinyl ether	63	7.225	7.225	(1.134)	255276	100.000	128	6804
36 Dibromomethane	93	6.936	6.936	(1.089)	429573	100.000	98.5	8959
37 Bromodichloromethane	83	7.031	7.031	(1.103)	920601	100.000	101	9572
127 Methyl cyclohexane	83	6.730	6.730	(1.056)	1151914	100.000	101	9357
39 cis-1,3-Dichloropropene	75	7.348	7.348	(1.153)	1103680	100.000	101	
40 4-methyl-2-pentanone	43	7.436	7.436	(1.167)	1283855	100.000	95.5	
41 Toluene-d8	98	7.513	7.513	(0.876)	2227890	100.000	98.6	8402
42 Toluene +	91	7.560	7.560	(0.881)	2833779	100.000	97.9	0(M)
43 trans-1,3-Dichloropropene	75	7.754	7.754	(0.904)	979346	100.000	103	
44 1,1,2-Trichloroethane	97	7.896	7.896	(0.920)	671322	100.000	99.5	8266
45 1,3-Dichloropropane	76	8.025	8.025	(0.936)	1160346	100.000	101	8627
47 2-Hexanone	43	8.025	8.025	(0.936)	1110917	100.000	99.1	6783
46 Tetrachloroethene	164	7.943	7.943	(0.926)	424758	100.000	101	5455
48 Dibromochloromethane	129	8.178	8.178	(0.953)	720011	100.000	104	9099
49 1,2-Dibromoethane(EDB)	107	8.284	8.284	(0.966)	702709	100.000	103	5533
50 Chlorobenzene-d5	82	8.578	8.578	(1.000)	504263	50.0000		8703
51 Chlorobenzene ++	112	8.601	8.601	(1.003)	1948829	100.000	102	9274
52 1,1,1,2-Tetrachloroethane	133	8.649	8.649	(1.008)	611043	100.000	105	9381
53 Ethylbenzene +	106	8.631	8.631	(1.006)	1043348	100.000	104	9397
54 p,m-Xylene	106	8.714	8.714	(1.016)	2571625	200.000	199	9179
55 o-Xylene	106	9.002	9.002	(1.049)	1276043	100.000	100	
56 Styrene	104	9.014	9.014	(1.051)	2290576	100.000	104	9192
57 Bromoform ++	173	9.196	9.196	(1.072)	459833	100.000	104	8132
58 Isopropylbenzene	105	9.232	9.232	(1.076)	3276096	100.000	99.4	9266
59 Bromofluorobenzene	174	9.391	9.391	(1.095)	628789	100.000	101	8537

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.479	9.479	(0.931)	1029457	100.000	91.4	9435
61	trans-1,4-Dichloro-2-Butene	53	9.521	9.521	(0.935)	263225	100.000	99.9	4923
62	1,2,3-Trichloropropane	75	9.533	9.533	(0.936)	1211163	100.000	98.9	7873
63	Bromobenzene	77	9.515	9.515	(0.934)	1799323	100.000	95.4	7521
64	n-Propylbenzene	91	9.509	9.509	(0.934)	4014086	100.000	94.9	7781
65	2-Chlorotoluene	91	9.621	9.621	(0.945)	2406140	100.000	92.3	9071
66	1,3,5-Trimethylbenzene	105	9.621	9.621	(0.945)	2682926	100.000	92.5	
67	4-Chlorotoluene	91	9.698	9.698	(0.952)	2301494	100.000	94.4	8810
76	TOTAL XYLENE	106				3847668	300.000	300	0
68	tert-butylbenzene	91	9.846	9.846	(0.967)	1717899	100.000	92.4	8852
69	1,2,4-Trimethylbenzene	105	9.887	9.887	(0.971)	2646247	100.000	92.8	
70	sec-Butylbenzene	105	9.993	9.993	(0.981)	3577169	100.000	92.4	
71	p-Isopropyltoluene	119	10.076	10.076	(0.990)	2764019	100.000	95.9	9251
72	1,3-Dichlorobenzene	146	10.135	10.135	(0.995)	1186942	100.000	102	
73	1,4-DICHLOROBENZENE-D4	152	10.182	10.182	(1.000)	371703	50.0000		8081
74	1,4-Dichlorobenzene	146	10.200	10.200	(1.002)	1187985	100.000	91.4	
75	n-Butylbenzene	91	10.353	10.353	(1.017)	2633648	100.000	103	9171
77	1,2-Dichlorobenzene	146	10.465	10.465	(1.028)	1174533	100.000	97.3	
78	1,2-Dibromo-3-Chloropropane	157	10.993	10.993	(1.080)	172024	100.000	102	5734
79	1,2,4-Trichlorobenzene	180	11.544	11.544	(1.134)	666489	100.000	101	
80	Hexachlorobutadiene	225	11.592	11.592	(1.138)	363770	100.000	102	9404
81	Napthalene	128	11.751	11.751	(1.154)	1600021	100.000	102	9461
82	1,2,3-Trichlorobenzene	180	11.927	11.927	(1.171)	635307	100.000	146	
97	Cyclohexane	56	5.852	5.852	(0.919)	1218460	100.000	94.5	4861
98	Methyl Acetate	43	4.247	4.247	(0.667)	795154	100.000	99.2	1405

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
I - Operator selected an alternate compound hit.

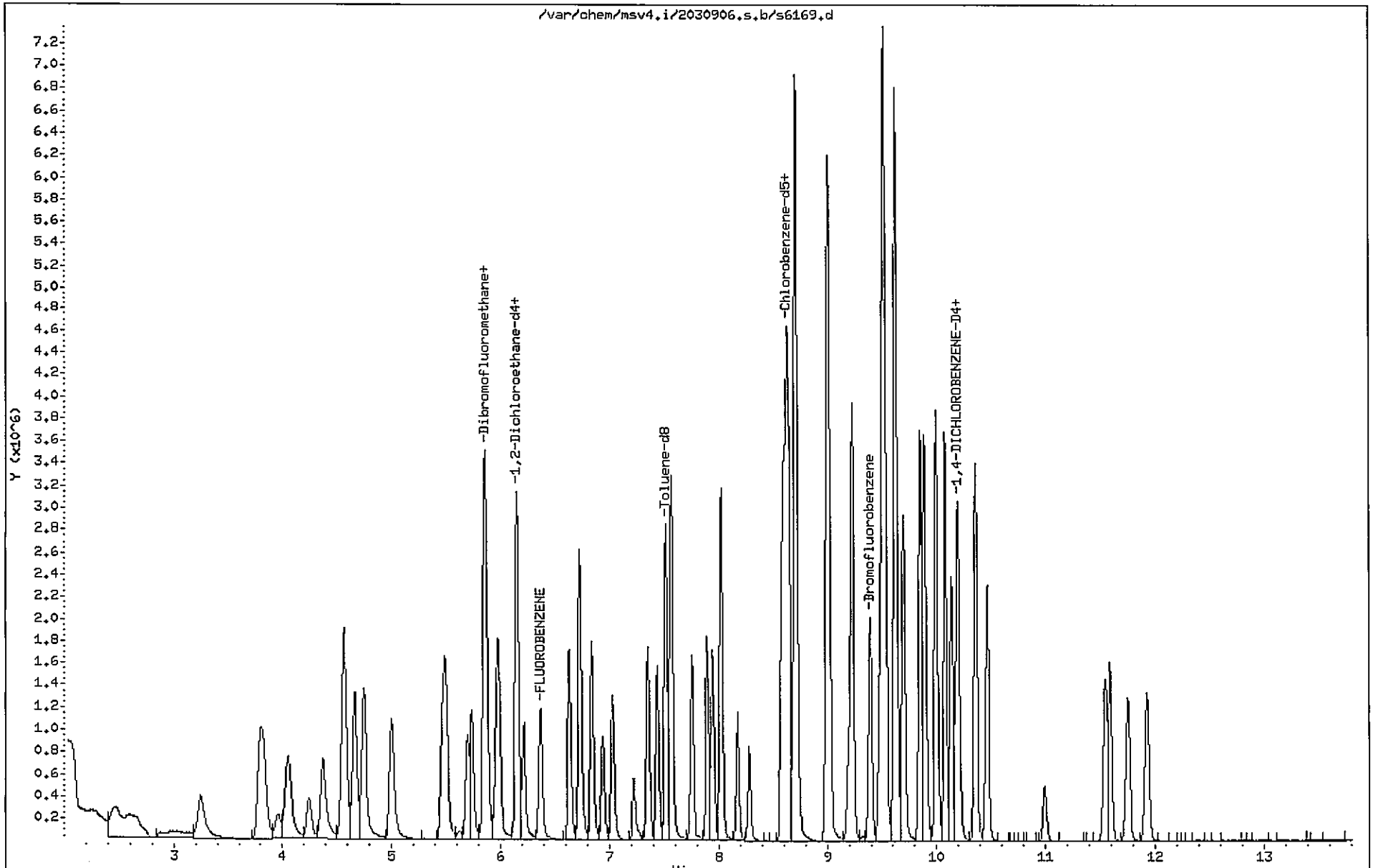
Data File: /var/chem/msv4.i/2030906.s.b/s6169.d
Date : 06-SEP-2003 10:28
Client ID: V4STD100
Sample Info: 1204*V4STD100*5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

000221

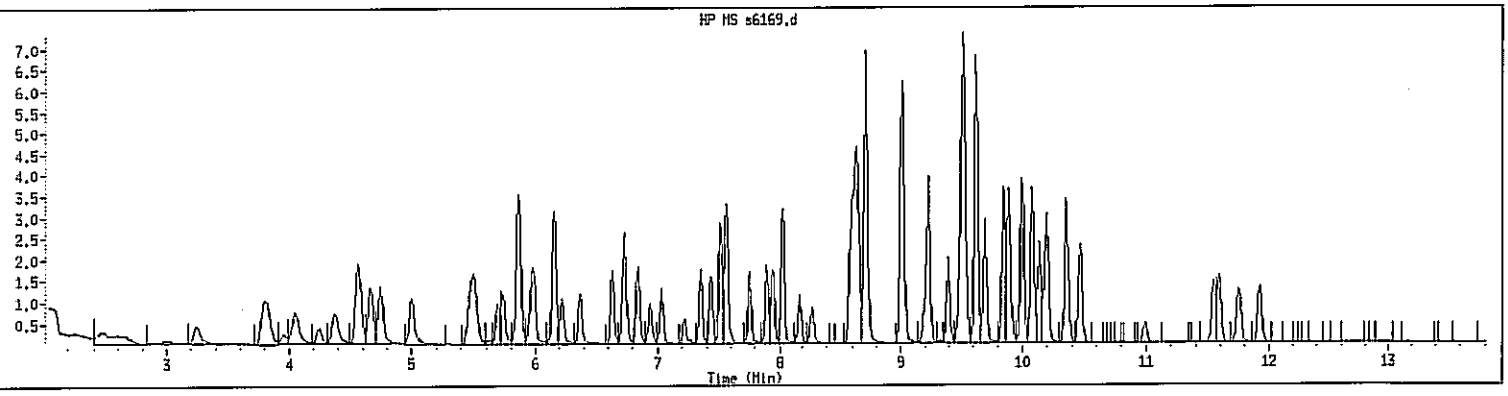


Data file : /var/chem/msv4.i/2030906.s.b/s6169.d
Report Date: 09/11/2003 08:28

MANUAL INTEGRATION GRAPHIC REPORT

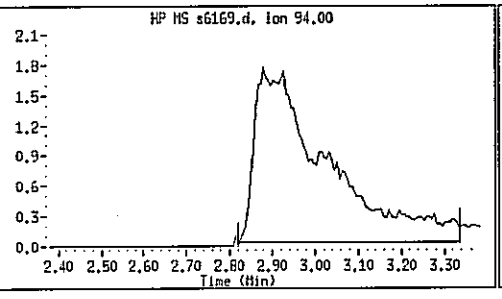
Lab ID : 1204
Injection Date: 06-SEP-2003 10:28
Operator : RJO
Sample Info : 1204*V4STD100*5-1-8
Misc Info : MSV~3674~*1*RJO
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

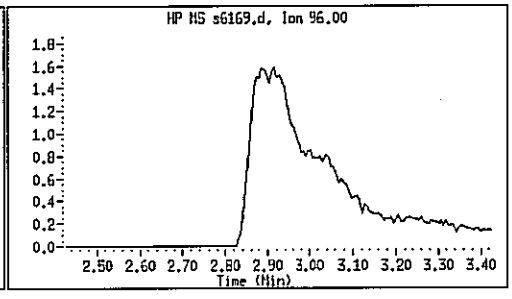
SampleType : CALIB_4
Instrument : msv4.i
Compound Sublist: 8260b



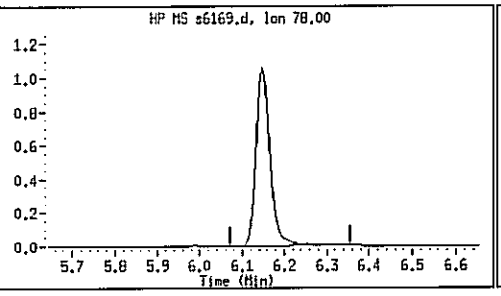
CONCENTRATIONS

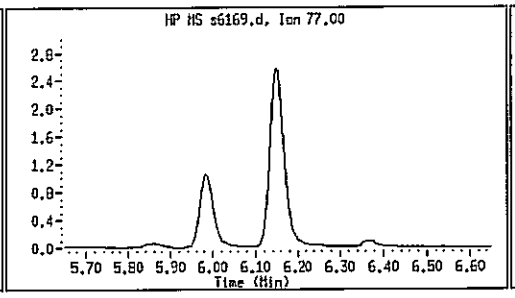
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
4 Bromomethane			CAS#: 74-83-9				
2.879	0.452	94	203175	73	73	80-120	100
2.926	0.459	96	0			0- 0	0

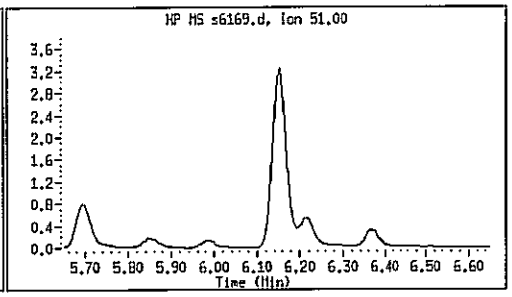




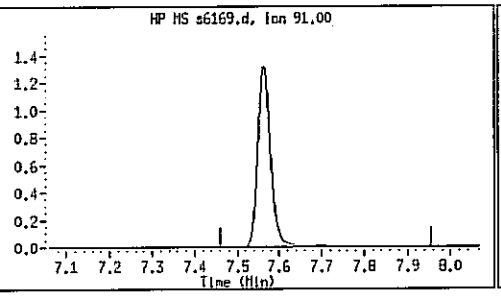
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
31 Benzene			CAS#: 71-43-2				
5.148	0.965	78	2474680	97	97	80-120	100
5.150	0.965	77	0			0- 0	0
5.150	0.965	51	0			0- 0	0

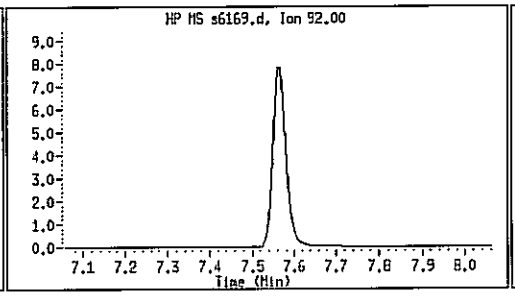


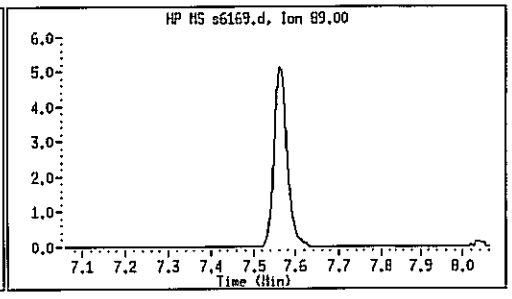




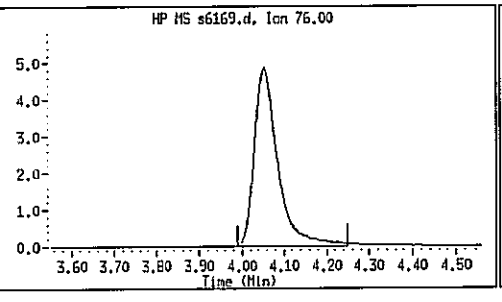
42 Toluene +			CAS#: 108-88-3				
7.560	0.881	91	2833779	98	98	80-120	100
7.561	0.882	92	0			0- 0	0
7.561	0.882	89	0			0- 0	0

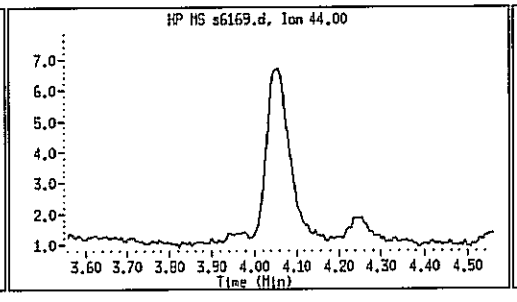


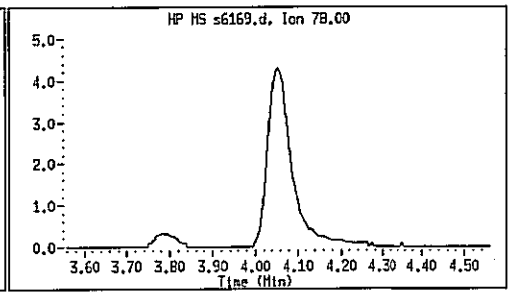




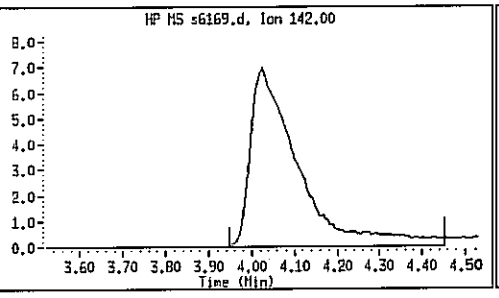
12 Carbon Disulfide			CAS#: 75-15-0				
4.054	0.636	76	1863427	97	97	80-120	100
4.058	0.637	44	0			0- 0	0
4.058	0.637	78	0			0- 0	0

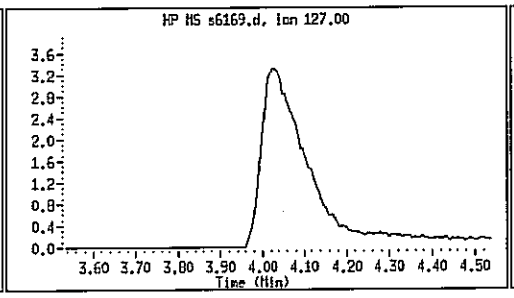


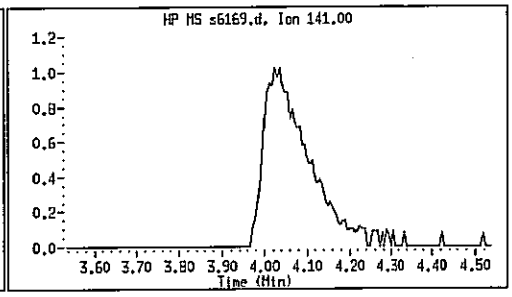




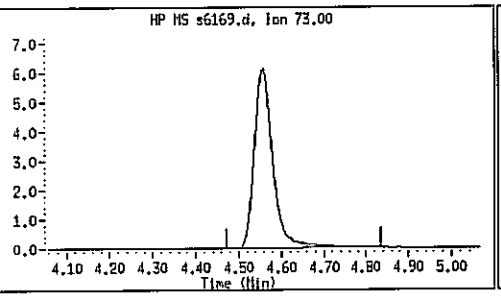
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
11 Methyl Iodide			CAS#: 74-88-4				
.024	0.632	142	539653	140	140	80-120	100
.035	0.633	127	0			0- 0	0
.035	0.633	141	0			0- 0	0

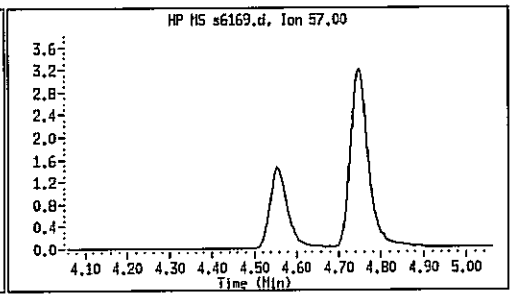






16 MTBE			CAS#: 1634-04-4				
.559	0.716	73	1865477	98	98	80-120	100
.557	0.715	57	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030906.s.b/s6170.d
Lab Smp Id: 1205 Client Smp ID: V4STD200
Inj Date : 06-SEP-2003 10:57
Operator : RJO Inst ID: msv4.i
Smp Info : 1205*V4STD200*5-1-8
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:28 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57 Cal File: s6170.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.280	2.280	(0.358)	1155210	200.000	205	1117(A)
2 Chloromethane ++	50	2.474	2.474	(0.388)	1408804	200.000	171	0(M)
3 Vinyl Chloride +	62	2.610	2.610	(0.410)	1420338	200.000	207	4517(A)
4 Bromomethane	94	2.909	2.909	(0.457)	265811	200.000	107	6955
5 Chloroethane	64	3.038	3.038	(0.477)	256959	200.000	85.8	4019
6 Trichlorofluoromethane	101	3.244	3.244	(0.509)	1507226	200.000	199	0(M)
7 Acrolein	56	3.796	3.796	(0.596)	843258	1000.00	970	2292(A)
9 1,1,2Trichlotrifluoroethane	101	3.784	3.784	(0.594)	1079136	200.000	194	0(M)
8 1,1-Dichloroethene +	96	3.826	3.826	(0.600)	935125	200.000	193	0(M)
10 Acetone	43	3.961	3.961	(0.622)	924428	200.000	200	6529
11 Methyl Iodide	142	4.044	4.044	(0.635)	878934	200.000	221	0(AM)
12 Carbon Disulfide	76	4.050	4.050	(0.636)	3844738	200.000	200	0(M)
13 Methylene Chloride	49	4.373	4.373	(0.686)	1742293	200.000	199	9399

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.662	4.662	(0.732)	3276707	1000.00	947	6875(A)
15 trans-1,2-Dichloroethene	61	3.826	3.826	(0.600)	1573613	200.000	200	0(M)
16 MTBE	73	4.556	4.556	(0.715)	3821765	200.000	200	4267(A)
17 Hexane	57	4.744	4.744	(0.745)	2022392	200.000	201	3250(AH)
19 Vinyl Acetate	43	4.744	4.744	(0.745)	1273720	200.000	186	
18 1,1-Dichloroethane ++	63	4.992	4.992	(0.783)	2305836	200.000	196	6081
22 2-Butanone	43	5.515	5.515	(0.866)	1319841	200.000	181	
29 Total 1,2-Dichloroethene	61				3719011	400.000	402	0(A)
21 cis-1,2-Dichloroethene	61	5.491	5.491	(0.862)	2145398	200.000	201	8195(A)
20 2,2-Dichloropropane	77	5.468	5.468	(0.858)	1645961	200.000	207	8651(A)
23 Bromochloromethane	128	5.698	5.698	(0.894)	683482	200.000	204	9551(A)
24 Chloroform +	83	5.739	5.739	(0.901)	2093485	200.000	186	8845
25 Dibromofluoromethane	111	5.869	5.869	(0.921)	1287726	200.000	198	4784
26 1,1,1-Trichloroethane	97	5.857	5.857	(0.919)	1827338	200.000	201	8809(A)
27 1,1-Dichloropropene	75	5.987	5.987	(0.940)	1627344	200.000	201	6714(A)
28 Carbon Tetrachloride	117	5.964	5.964	(0.936)	1523534	200.000	212	9024(A)
30 1,2-Dichloroethane-d4	67	6.159	6.159	(0.967)	710915	200.000	195	7880
32 1,2-Dichloroethane	62	6.218	6.218	(0.976)	1685918	200.000	195	6411
31 Benzene	78	6.147	6.147	(0.965)	4890214	200.000	193	0(M)
33 FLUOROBENZENE	96	6.371	6.371	(1.000)	1282486	50.0000		9708
34 Trichloroethene	130	6.636	6.636	(1.042)	1412762	200.000	210	8974(A)
35 1,2-Dichloropropane +	63	6.842	6.842	(1.074)	1562510	200.000	200	8686
38 2-Chloroethyl vinyl ether	63	7.220	7.220	(1.133)	335528	200.000	173	6835
36 Dibromomethane	93	6.937	6.937	(1.089)	868991	200.000	199	9044
37 Bromodichloromethane	83	7.031	7.031	(1.104)	1857178	200.000	202	9650(A)
127 Methyl cyclohexane	83	6.730	6.730	(1.056)	2378666	200.000	205	9384(A)
39 cis-1,3-Dichloropropene	75	7.349	7.349	(1.154)	2269463	200.000	205	(A)
40 4-methyl-2-pentanone	43	7.438	7.438	(1.167)	2541199	200.000	190	
41 Toluene-d8	98	7.515	7.515	(0.876)	4528654	200.000	201	8317(A)
42 Toluene +	91	7.562	7.562	(0.881)	5677728	200.000	197	0(M)
43 trans-1,3-Dichloropropene	75	7.756	7.756	(0.904)	2061733	200.000	213	(A)
44 1,1,2-Trichloroethane	97	7.898	7.898	(0.920)	1391612	200.000	205	8263(A)
45 1,3-Dichloropropane	76	8.022	8.022	(0.935)	2342377	200.000	203	8656(A)
47 2-Hexanone	43	8.028	8.028	(0.936)	2161145	200.000	194	6786
46 Tetrachloroethene	164	7.945	7.945	(0.926)	896069	200.000	210	5399(A)
48 Dibromochloromethane	129	8.175	8.175	(0.953)	1500571	200.000	214	9117(A)
49 1,2-Dibromoethane(EDB)	107	8.287	8.287	(0.966)	1413392	200.000	206	5533(A)
50 Chlorobenzene-d5	82	8.581	8.581	(1.000)	503564	50.0000		8178
51 Chlorobenzene ++	112	8.605	8.605	(1.003)	4035162	200.000	209	9251(A)
52 1,1,1,2-Tetrachloroethane	133	8.652	8.652	(1.008)	1272560	200.000	215	9413(A)
53 Ethylbenzene +	106	8.628	8.628	(1.006)	2047181	200.000	203	9343(A)
54 p,m-Xylene	106	8.712	8.712	(1.015)	5102588	400.000	397	9062(A)
55 o-Xylene	106	9.000	9.000	(1.049)	2555538	200.000	201	(A)
56 Styrene	104	9.018	9.018	(1.051)	4568064	200.000	206	9339(A)
57 Bromoform ++	173	9.200	9.200	(1.072)	921743	200.000	207	8232(A)
58 Isopropylbenzene	105	9.230	9.230	(1.076)	6542974	200.000	199	9195
59 Bromofluorobenzene	174	9.395	9.395	(1.095)	1243275	200.000	200	8680(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.484	9.484	(0.931)	1987501	200.000	184	9458
61	trans-1,4-Dichloro-2-Butene	53	9.525	9.525	(0.935)	499250	200.000	198	5203
62	1,2,3-Trichloropropane	75	9.537	9.537	(0.936)	2230775	200.000	189	7925
63	Bromobenzene	77	9.513	9.513	(0.934)	3265901	200.000	182	7795
64	n-Propylbenzene	91	9.513	9.513	(0.934)	7476955	200.000	185	7789
65	2-Chlorotoluene	91	9.620	9.620	(0.944)	4561863	200.000	183	9113
66	1,3,5-Trimethylbenzene	105	9.626	9.626	(0.945)	5121271	200.000	185	
67	4-Chlorotoluene	91	9.697	9.697	(0.952)	4464743	200.000	190	8855
76	TOTAL XYLENE	106				7658126	600.000	598	0
68	tert-butylbenzene	91	9.851	9.851	(0.967)	3390278	200.000	189	8713
69	1,2,4-Trimethylbenzene	105	9.892	9.892	(0.971)	5186058	200.000	189	
70	sec-Butylbenzene	105	9.999	9.999	(0.981)	6922072	200.000	186	
71	p-Isopropyltoluene	119	10.081	10.081	(0.990)	5566335	200.000	198	9266
72	1,3-Dichlorobenzene	146	10.141	10.141	(0.995)	2323748	200.000	204	(A)
73	1,4-DICHLOROBENZENE-D4	152	10.188	10.188	(1.000)	362563	50.0000		6750
74	1,4-Dichlorobenzene	146	10.200	10.200	(1.001)	2550555	200.000	201	(A)
75	n-Butylbenzene	91	10.359	10.359	(1.017)	5202791	200.000	206	9067(A)
77	1,2-Dichlorobenzene	146	10.466	10.466	(1.027)	2330080	200.000	198	
78	1,2-Dibromo-3-Chloropropane	157	11.000	11.000	(1.080)	362239	200.000	216	5757(A)
79	1,2,4-Trichlorobenzene	180	11.551	11.551	(1.134)	1440161	200.000	202	(A)
80	Hexachlorobutadiene	225	11.599	11.599	(1.138)	781642	200.000	219	9551(A)
81	Napthalene	128	11.758	11.758	(1.154)	3788975	200.000	204	9548(A)
82	1,2,3-Trichlorobenzene	180	11.935	11.935	(1.171)	1371174	200.000	288	(A)
97	Cyclohexane	56	5.851	5.851	(0.918)	2323996	200.000	183	4829
98	Methyl Acetate	43	4.244	4.244	(0.666)	1595800	200.000	201	1517(AH)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

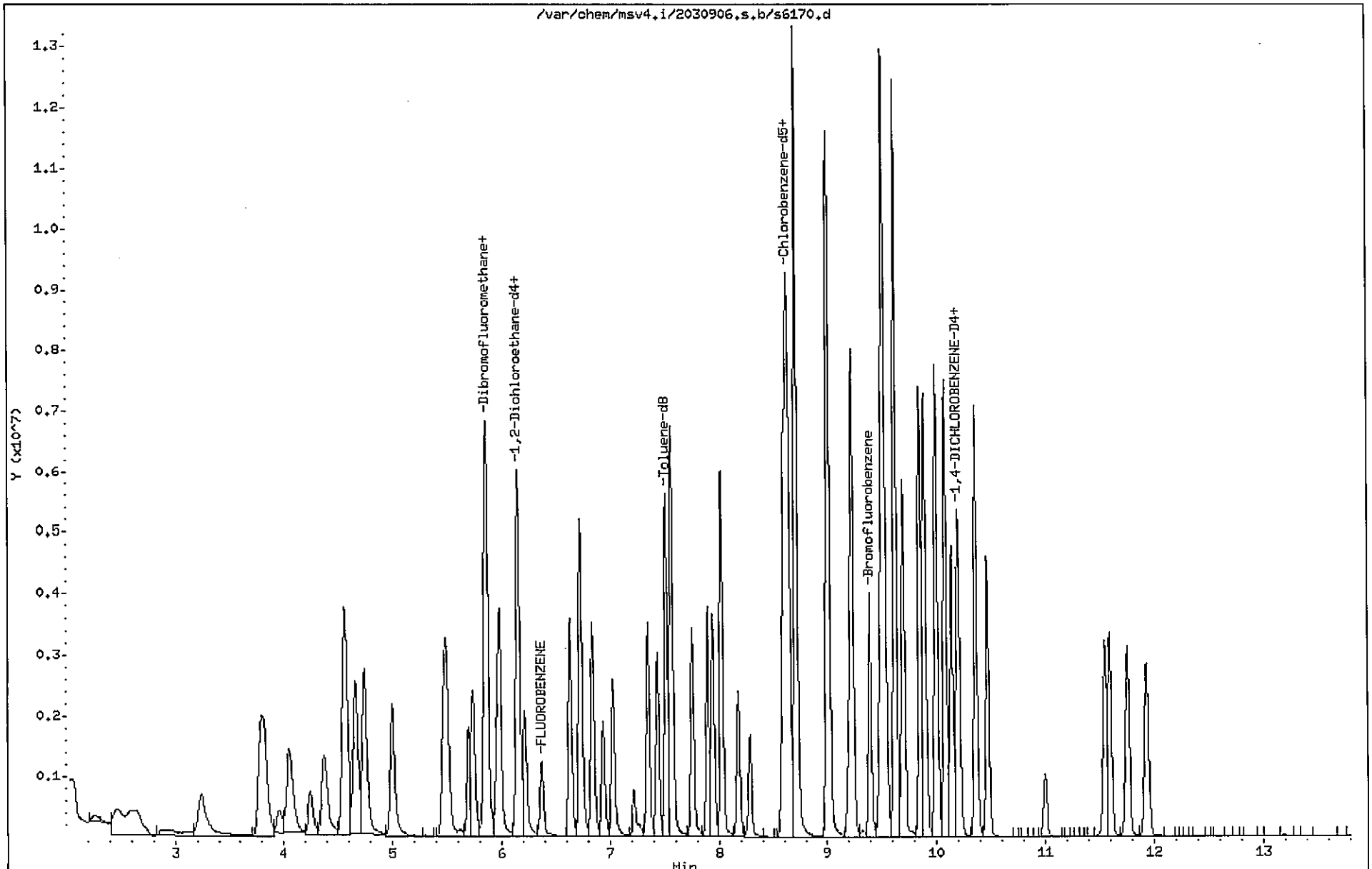
Data File: /var/chem/msv4.i/2030906.s.b/s6170.d
Date : 06-SEP-2003 10:57
Client ID: V4STD200
Sample Info: 1205WV4STD200W5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

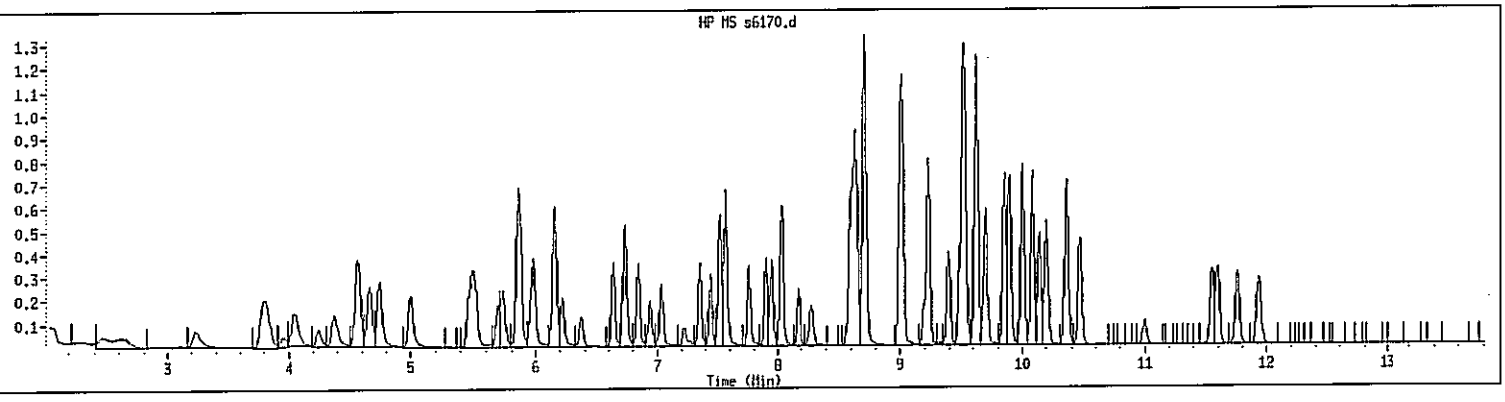
000228



Data file : /var/chem/msv4.i/2030906.s.b/s6170.d
Report Date: 09/11/2003 08:28

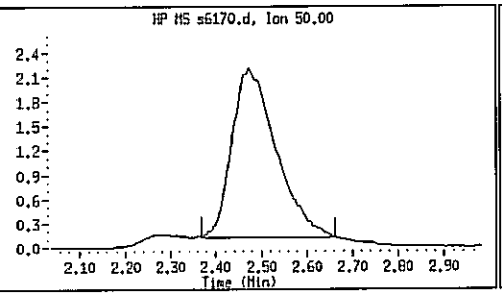
MANUAL INTEGRATION GRAPHIC REPORT

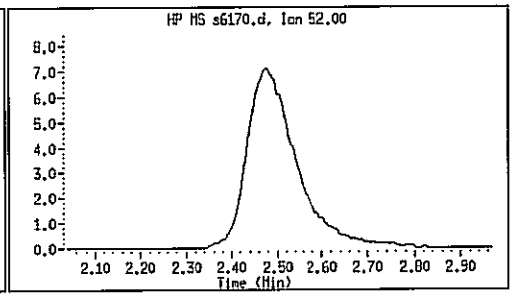
Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 06-SEP-2003 10:57	Instrument	: msv4.i
Operator	: RJO		
Sample Info	: 1205*V4STD200*5-1-8		
Misc Info	: MSV~3674~*1*RJO		
Method	: /var/chem/msv4.i/2030906.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



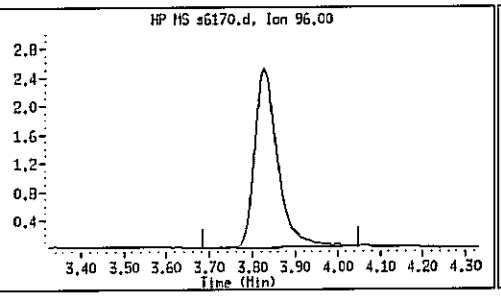
CONCENTRATIONS

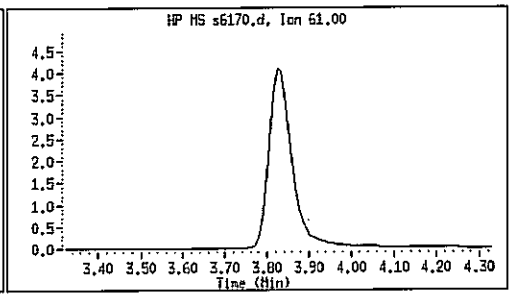
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
2 Chloromethane ++			CAS#: 74-87-3				
2.474	0.388	50	1408804	171	171	80-120	100
2.468	0.387	52	0			0- 0	0



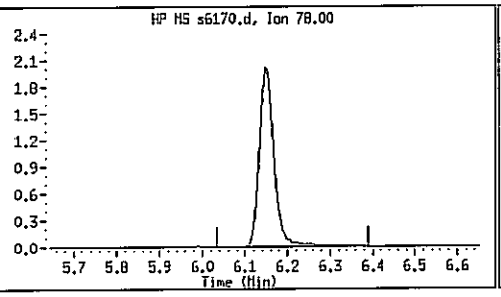


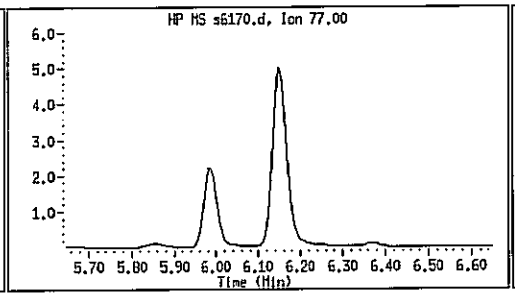
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
8 1,1-Dichloroethene +				CAS#: 75-35-4			
.826	0.600	96	935125	193	193	80-120	100
.824	0.600	61	0			0- 0	0

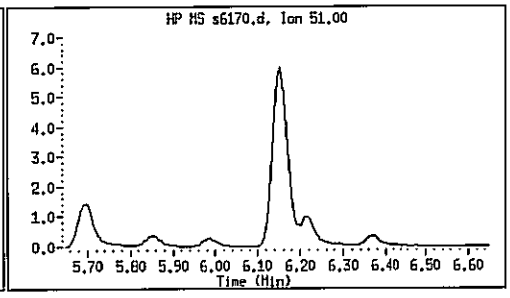




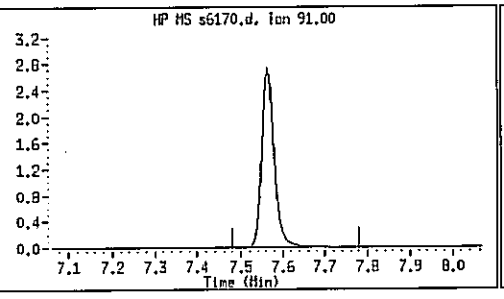
31 Benzene			CAS#: 71-43-2				
.147	0.965	78	4890214	193	193	80-120	100
.148	0.965	77	0			0- 0	0
.148	0.965	51	0			0- 0	0

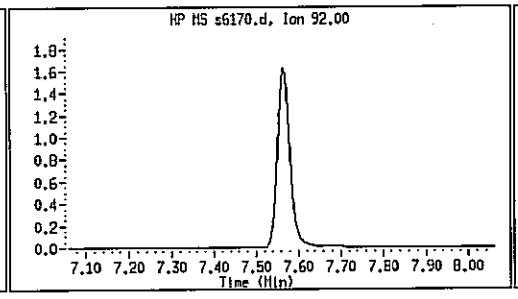


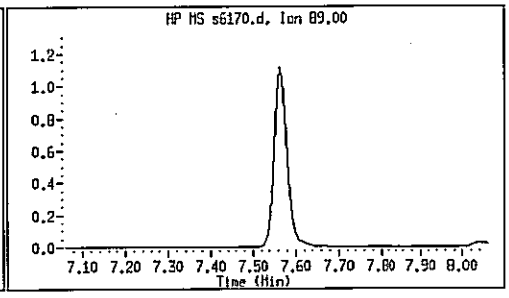




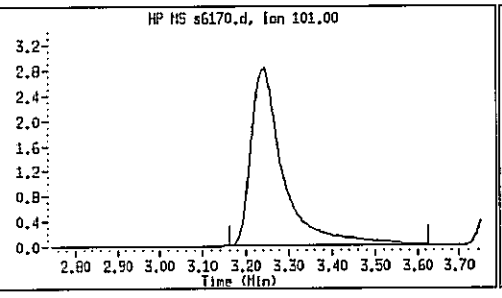
42 Toluene +			CAS#: 108-88-3				
.562	0.881	91	5677728	197	197	80-120	100
.560	0.881	92	0			0- 0	0
.560	0.881	89	0			0- 0	0

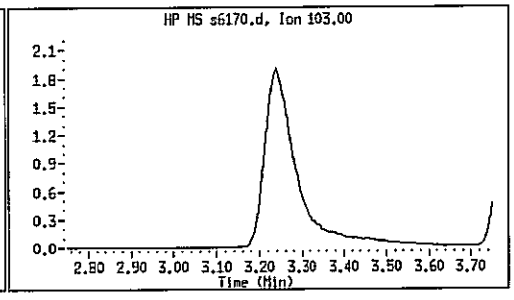




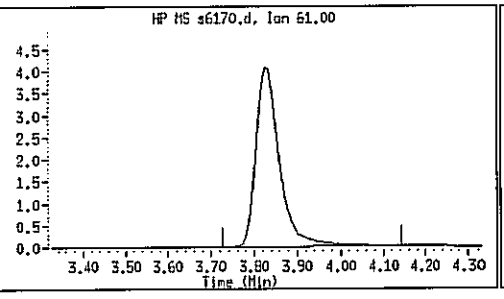


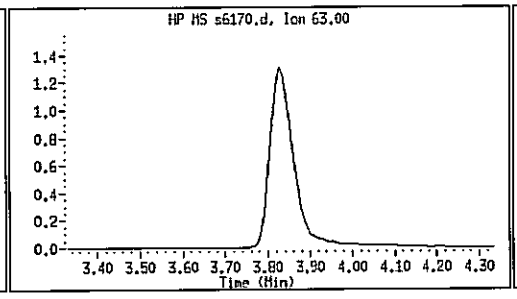
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
6 Trichlorofluoromethane				CAS#: 75-69-4			
3.244	0.509	101	1507226	199	199	80-120	100
3.249	0.510	103	0			0- 0	0

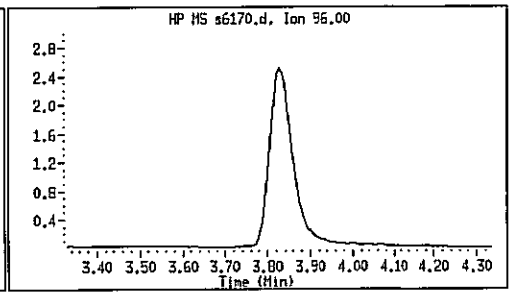




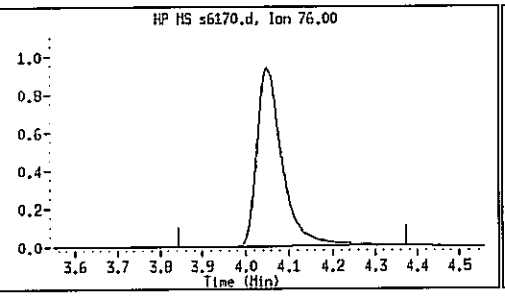
15 trans-1,2-Dichloroethene				CAS#: 156-60-5			
3.826	0.600	61	1573613	200	200	80-120	100
3.830	0.601	63	0			0- 0	0
3.830	0.601	96	0			0- 0	0

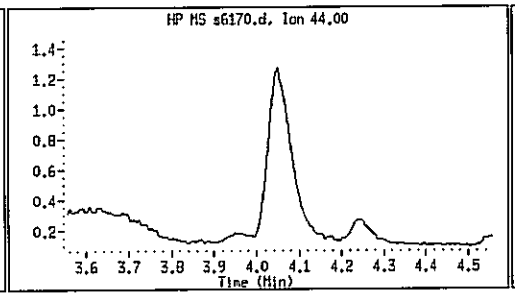


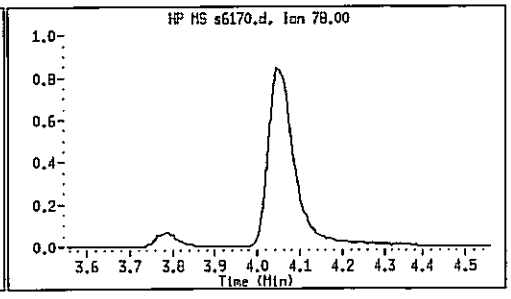




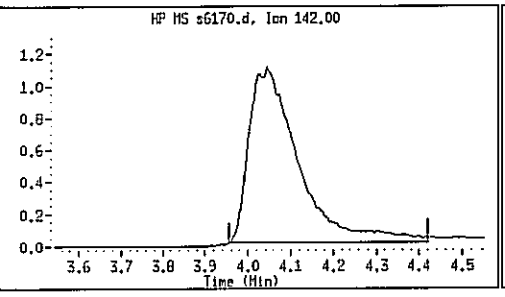
12 Carbon Disulfide				CAS#: 75-15-0			
4.050	0.636	76	3844738	200	200	80-120	100
4.054	0.636	44	0			0- 0	0
4.054	0.636	78	0			0- 0	0

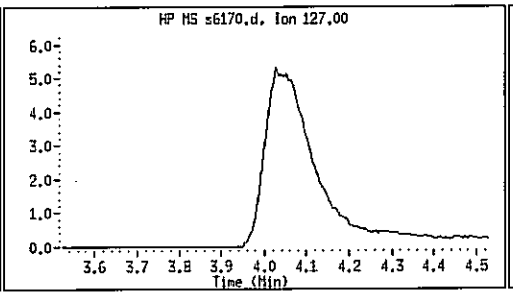


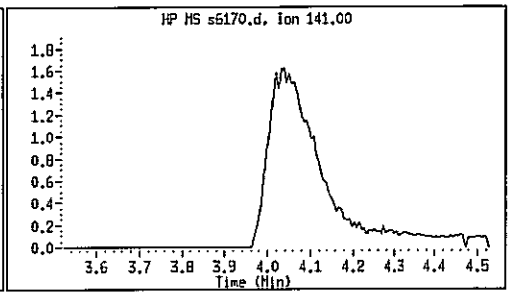




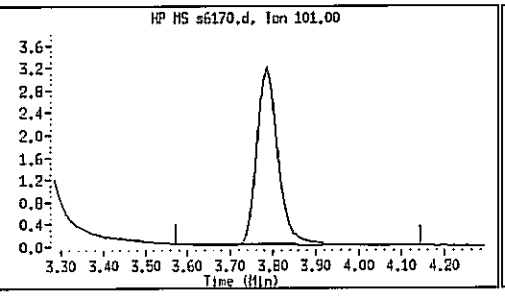
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
11 Methyl Iodide			CAS#: 74-88-4				
4.044	0.635	142	878934	221	221	80-120	100
4.024	0.632	127	0			0- 0	0
4.024	0.632	141	0			0- 0	0

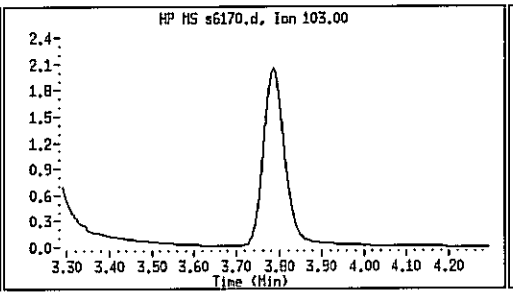


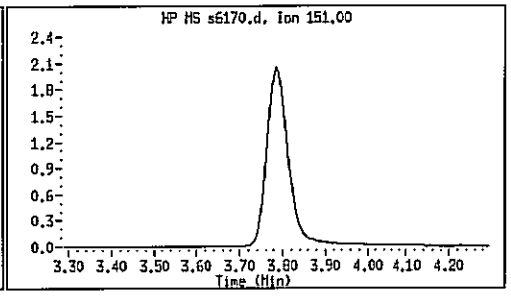




9 1,1,2Trichlotrifluoroethane				CAS#: 76-13-1			
3.784	0.594	101	1079136	194	194	80-120	100
3.789	0.595	103	0			0- 0	0
3.789	0.595	151	0			0- 0	0







Data File: /var/chem/msv4.i/2030906.s.b/s6173.d
Report Date: 12-Sep-2003 08:48

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Misc Info: MSV~3674~*1*RJO

Client SDG: 2030906.s
Fraction: VOA
Client Smp ID: V4STD050
Operator: RJO
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	21.8	43.64*	80-120
	2 Chloromethane ++	50.0	36.4	72.86*	80-120
	3 Vinyl Chloride +	50.0	35.7	71.39*	80-120
	4 Bromomethane	50.0	43.4	86.70	80-120
	5 Chloroethane	50.0	48.3	96.60	80-120
	6 Trichlorofluoromet	50.0	39.7	79.35*	80-120
	7 Acrolein	250	286	114.48	80-120
	8 1,1-Dichloroethene	50.0	44.6	89.15	80-120
	9 1,1,2Trichlotriflu	50.0	39.9	79.71*	80-120
	10 Acetone	50.0	75.6	151.11*	80-120
	11 Methyl Iodide	50.0	44.3	88.59	80-120
	12 Carbon Disulfide	50.0	39.4	78.72*	80-120
	13 Methylene Chloride	50.0	47.9	95.71	80-120
	14 Acrylonitrile	250	274	109.61	80-120
	15 trans-1,2-Dichloro	50.0	44.8	89.59	80-120
	16 MTBE	50.0	48.0	96.08	80-120
	17 Hexane	50.0	37.4	74.77*	80-120
	18 1,1-Dichloroethane	50.0	47.2	94.40	80-120
	19 Vinyl Acetate	50.0	36.3	72.68*	80-120
	21 cis-1,2-Dichloroet	50.0	48.4	96.88	80-120
	20 2,2-Dichloropropan	50.0	46.0	91.91	80-120
	22 2-Butanone	50.0	62.8	125.65*	80-120
	23 Bromochloromethane	50.0	46.3	92.58	80-120
	24 Chloroform +	50.0	45.0	89.95	80-120
	26 1,1,1-Trichloroeth	50.0	43.0	85.92	80-120
	27 1,1-Dichloropropen	50.0	44.3	88.52	80-120
	28 Carbon Tetrachlori	50.0	43.7	87.39	80-120
M	29 Total 1,2-Dichloro	100	93.8	93.79	80-120
	31 Benzene	50.0	47.7	95.34	80-120
	32 1,2-Dichloroethane	50.0	48.5	97.00	80-120
	34 Trichloroethene	50.0	44.6	89.15	80-120
	35 1,2-Dichloropropan	50.0	48.8	97.54	80-120
	36 Dibromomethane	50.0	48.3	96.58	80-120

	SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	37	Bromodichlorometha	50.0	47.2	94.48	80-120
	127	Methyl cyclohexane	50.0	37.4	74.89*	80-120
	38	2-Chloroethyl viny	50.0	55.9	111.88	80-120
	39	cis-1,3-Dichloropr	50.0	51.5	103.07	80-120
	40	4-methyl-2-pentano	50.0	47.8	95.61	80-120
	42	Toluene +	50.0	46.2	92.45	80-120
	43	trans-1,3-Dichloro	50.0	52.5	105.05	80-120
	44	1,1,2-Trichloroeth	50.0	47.0	94.06	80-120
	45	1,3-Dichloropropan	50.0	48.2	96.49	80-120
	46	Tetrachloroethene	50.0	40.8	81.62	80-120
	47	2-Hexanone	50.0	55.3	110.68	80-120
	48	Dibromochlorometha	50.0	47.2	94.46	80-120
	49	1,2-Dibromoethane(	50.0	48.4	96.71	80-120
	51	Chlorobenzene ++	50.0	48.0	95.91	80-120
	52	1,1,1,2-Tetrachlor	50.0	47.6	95.22	80-120
	53	Ethylbenzene +	50.0	46.2	92.46	80-120
	54	p,m-Xylene	100	92.2	92.17	80-120
	55	o-Xylene	50.0	48.3	96.69	80-120
	56	Styrene	50.0	48.0	95.99	80-120
	57	Bromoform ++	50.0	50.5	100.95	80-120
	58	Isopropylbenzene	50.0	43.7	87.41	80-120
M	76	TOTAL XYLENE	150	141	93.68	80-120
	60	1,1,2,2-Tetrachlor	50.0	45.2	90.43	80-120
	61	trans-1,4-Dichloro	50.0	57.0	114.00	80-120
	63	Bromobenzene	50.0	47.3	94.58	80-120
	62	1,2,3-Trichloropro	50.0	51.2	102.37	80-120
	64	n-Propylbenzene	50.0	45.2	90.33	80-120
	65	2-Chlorotoluene	50.0	49.9	99.73	80-120
	66	1,3,5-Trimethylben	50.0	44.9	89.87	80-120
	67	4-Chlorotoluene	50.0	49.1	98.12	80-120
	68	tert-butylbenzene	50.0	43.8	87.59	80-120
	71	p-Isopropyltoluene	50.0	45.6	91.29	80-120
	69	1,2,4-Trimethylben	50.0	46.9	93.70	80-120
	70	sec-Butylbenzene	50.0	44.7	89.36	80-120
	72	1,3-Dichlorobenzen	50.0	47.9	95.76	80-120
	74	1,4-Dichlorobenzen	50.0	48.7	97.46	80-120
	75	n-Butylbenzene	50.0	47.9	95.72	80-120
	77	1,2-Dichlorobenzen	50.0	47.5	94.97	80-120
	78	1,2-Dibromo-3-Chlo	50.0	49.9	99.75	80-120
	79	1,2,4-Trichloroben	50.0	44.6	89.18	80-120
	80	Hexachlorobutadien	50.0	43.7	87.31	80-120
	82	1,2,3-Trichloroben	50.0	54.2	108.41	80-120
	97	Cyclohexane	50.0	36.7	73.35*	80-120
	98	Methyl Acetate	50.0	70.2	140.34*	80-120

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Misc Info: MSV~3674~*1*RJO

Client SDG: 2030906.s
Fraction: VOA
Client Smp ID: V4STD050
Operator: RJO
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.0	47.0	93.95	70-130
$ 30 1,2-Dichloroethane	50.0	48.7	97.50	60-140
$ 41 Toluene-d8	50.0	44.5	89.01	65-128
$ 59 Bromofluorobenzene	50.0	46.9	93.86	73-138

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030906.s.b/s6173.d
Lab Smp Id: ICV
Client Smp ID: V4STD050
Inj Date : 06-SEP-2003 12:22
Operator : RJO
Inst ID: msv4.i
Smp Info : ICV*V4STD050
Misc Info : MSV~3674~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030906.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 08:31 rsp
Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57
Cal File: s6170.d
Als bottle: 6
QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	2.286	2.280	(0.359)	120114	21.8180	21.8	986(R)
2 Chloromethane ++	50	2.468	2.474	(0.387)	292954	36.4317	36.4	6101(R)
3 Vinyl Chloride +	62	2.603	2.610	(0.408)	238801	35.6946	35.7	4212(R)
4 Bromomethane	94	2.885	2.909	(0.453)	105490	43.3503	43.4	0(M)
5 Chloroethane	64	3.014	3.038	(0.473)	141263	48.2985	48.3	3528
6 Trichlorofluoromethane	101	3.254	3.244	(0.511)	292922	39.6739	39.7	7930(R)
7 Acrolein	56	3.805	3.796	(0.597)	242853	286.206	286	2271(A)
9 1,1,2Trichlotrifluoroethane	101	3.799	3.784	(0.596)	216802	39.8528	39.9	4323(R)
8 1,1-Dichloroethene +	96	3.835	3.826	(0.602)	210369	44.5734	44.6	8676
10 Acetone	43	3.958	3.961	(0.621)	354234	75.5534	75.6	6529(R)
11 Methyl Iodide	142	4.029	4.044	(0.632)	171693	44.2944	44.3	0(M)
12 Carbon Disulfide	76	4.052	4.050	(0.636)	740226	39.3620	39.4	8756(R)
13 Methylene Chloride	49	4.375	4.373	(0.686)	438705	47.8546	47.9	9317

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
14 Acrylonitrile	53	4.669	4.662	(0.733)	925488	274.019	274	6875(A)
15 trans-1,2-Dichloroethene	61	3.835	3.826	(0.602)	344272	44.7970	44.8	8669
16 MTBE	73	4.557	4.556	(0.715)	894736	48.0425	48.0	4057
17 Hexane	57	4.751	4.744	(0.746)	367550	37.3859	37.4	3385(RH)
19 Vinyl Acetate	43	4.751	4.744	(0.746)	243297	36.3389	36.3	(R)
18 1,1-Dichloroethane ++	63	4.998	4.992	(0.784)	542220	47.1992	47.2	6112
22 2-Butanone	43	5.514	5.515	(0.865)	446295	62.8227	62.8	(R)
29 Total 1,2-Dichloroethene	61				847777	93.7852	93.8	0
21 cis-1,2-Dichloroethene	61	5.496	5.491	(0.862)	503505	48.4421	48.4	8216
20 2,2-Dichloropropane	77	5.467	5.468	(0.858)	357351	45.9560	46.0	8979
23 Bromochloromethane	128	5.696	5.698	(0.894)	151047	46.2908	46.3	9445
24 Chloroform +	83	5.743	5.739	(0.901)	494690	44.9756	45.0	8896
25 Dibromofluoromethane	111	5.872	5.869	(0.922)	298624	46.9774	47.0	4896
26 1,1,1-Trichloroethane	97	5.867	5.857	(0.921)	381259	42.9589	43.0	8808
27 1,1-Dichloropropene	75	5.990	5.987	(0.940)	349989	44.2617	44.3	6714
28 Carbon Tetrachloride	117	5.967	5.964	(0.936)	307146	43.6970	43.7	9076
30 1,2-Dichloroethane-d4	67	6.161	6.159	(0.967)	173615	48.7476	48.7	7734
32 1,2-Dichloroethane	62	6.220	6.218	(0.976)	408274	48.5005	48.5	6411
31 Benzene	78	6.149	6.147	(0.965)	1179067	47.6679	47.7	9042
33 FLUOROBENZENE	96	6.373	6.371	(1.000)	1251750	50.0000		9613
34 Trichloroethene	130	6.637	6.636	(1.041)	292361	44.5746	44.6	9060
35 1,2-Dichloropropane +	63	6.843	6.842	(1.074)	372030	48.7701	48.8	8677
38 2-Chloroethyl vinyl ether	63	7.225	7.220	(1.134)	105796	55.9379	55.9	6762
36 Dibromomethane	93	6.943	6.937	(1.089)	206332	48.2897	48.3	9087
37 Bromodichloromethane	83	7.031	7.031	(1.103)	424635	47.2413	47.2	9461
127 Methyl cyclohexane	83	6.731	6.730	(1.056)	423829	37.4434	37.4	9314(R)
39 cis-1,3-Dichloropropene	75	7.354	7.349	(1.154)	557301	51.5367	51.5	
40 4-methyl-2-pentanone	43	7.436	7.438	(1.167)	623467	47.8034	47.8	
41 Toluene-d8	98	7.519	7.515	(0.876)	996177	44.5068	44.5	8575
42 Toluene +	91	7.566	7.562	(0.882)	1319106	46.2256	46.2	9055
43 trans-1,3-Dichloropropene	75	7.754	7.756	(0.903)	504319	52.5259	52.5	
44 1,1,2-Trichloroethane	97	7.895	7.898	(0.920)	315954	47.0291	47.0	8289
45 1,3-Dichloropropane	76	8.025	8.022	(0.935)	552534	48.2469	48.2	8623
47 2-Hexanone	43	8.025	8.028	(0.935)	609553	55.3424	55.3	7006
46 Tetrachloroethene	164	7.948	7.945	(0.926)	172524	40.8116	40.8	5503
48 Dibromochloromethane	129	8.178	8.175	(0.953)	328093	47.2275	47.2	9064
49 1,2-Dibromoethane(EDB)	107	8.289	8.287	(0.966)	328622	48.3574	48.4	5533
50 Chlorobenzene-d5	82	8.582	8.581	(1.000)	499020	50.0000		8771
51 Chlorobenzene ++	112	8.606	8.605	(1.003)	918544	47.9559	48.0	9113
52 1,1,1,2-Tetrachloroethane	133	8.654	8.652	(1.008)	278899	47.6104	47.6	9337
53 Ethylbenzene +	106	8.630	8.628	(1.006)	461544	46.2313	46.2	9354
54 p,m-Xylene	106	8.713	8.712	(1.015)	1173902	92.1729	92.2	9273
55 o-Xylene	106	9.001	9.000	(1.049)	609009	48.3429	48.3	
56 Styrene	104	9.018	9.018	(1.051)	1056150	47.9928	48.0	9201
57 Bromoform ++	173	9.200	9.200	(1.072)	222396	50.4764	50.5	8196
58 Isopropylbenzene	105	9.230	9.230	(1.075)	1423781	43.7060	43.7	9369
59 Bromofluorobenzene	174	9.395	9.395	(1.095)	288966	46.9313	46.9	8560

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.489	9.484	(0.932)	477414	45.2137	45.2	9417
61	trans-1,4-Dichloro-2-Butene	53	9.524	9.525	(0.935)	136575	56.9987	57.0	5058
62	1,2,3-Trichloropropane	75	9.536	9.537	(0.936)	591443	51.1864	51.2	7948
63	Bromobenzene	77	9.518	9.513	(0.935)	833289	47.2885	47.3	7308
64	n-Propylbenzene	91	9.513	9.513	(0.934)	1792771	45.1658	45.2	7601
65	2-Chlorotoluene	91	9.625	9.620	(0.945)	1217661	49.8666	49.9	9022
66	1,3,5-Trimethylbenzene	105	9.625	9.626	(0.945)	1222079	44.9355	44.9	
67	4-Chlorotoluene	91	9.702	9.697	(0.953)	1129422	49.0617	49.1	8819
76	TOTAL XYLENE	106				1782911	140.516	141	0
68	tert-butylbenzene	91	9.849	9.851	(0.967)	768250	43.7961	43.8	8932
69	1,2,4-Trimethylbenzene	105	9.896	9.892	(0.972)	1259521	46.8516	46.9	
70	sec-Butylbenzene	105	9.996	9.999	(0.981)	1626710	44.6783	44.7	
71	p-Isopropyltoluene	119	10.085	10.081	(0.990)	1255769	45.6469	45.6	9241
72	1,3-Dichlorobenzene	146	10.144	10.141	(0.996)	534299	47.8790	47.9	
73	1,4-DICHLOROBENZENE-D4	152	10.185	10.188	(1.000)	355368	50.0000		8922
74	1,4-Dichlorobenzene	146	10.203	10.200	(1.002)	606497	48.7294	48.7	
75	n-Butylbenzene	91	10.362	10.359	(1.017)	1183548	47.8584	47.9	9231
77	1,2-Dichlorobenzene	146	10.474	10.466	(1.028)	546830	47.4861	47.5	
78	1,2-Dibromo-3-Chloropropane	157	11.002	11.000	(1.080)	82020	49.8770	49.9	5727
79	1,2,4-Trichlorobenzene	180	11.558	11.551	(1.135)	262759	44.5894	44.6	
80	Hexachlorobutadiene	225	11.606	11.599	(1.139)	152787	43.6564	43.7	9417
81	Napthalene	128	11.764	11.758	(1.155)	574682	41.9734	42.0	9357
82	1,2,3-Trichlorobenzene	180	11.941	11.935	(1.172)	253361	54.2069	54.2	
97	Cyclohexane	56	5.855	5.851	(0.919)	454638	36.6757	36.7	4894(R)
98	Methyl Acetate	43	4.252	4.244	(0.667)	576358	70.1690	70.2	1490(R)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

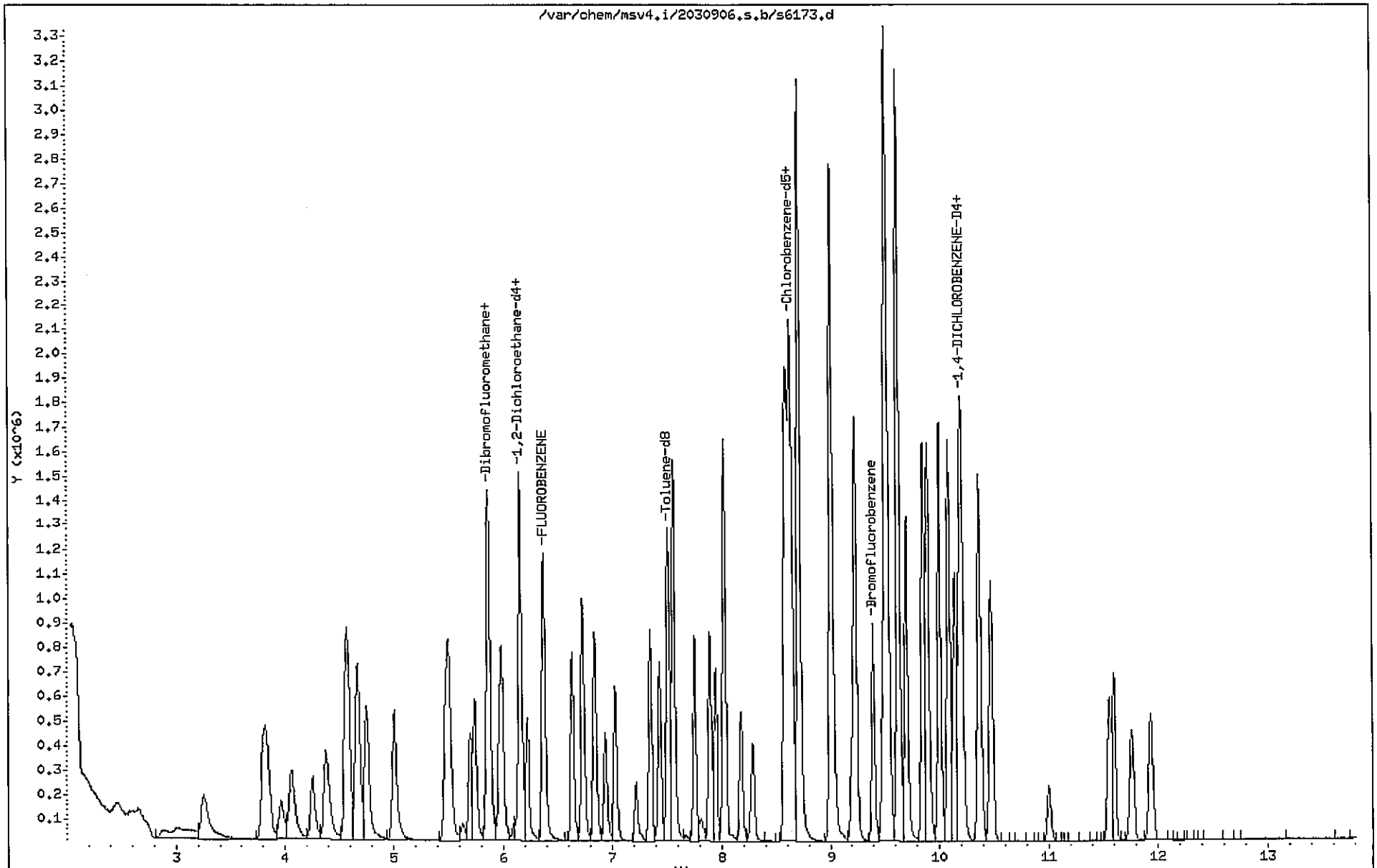
Data File: /var/chem/msv4.i/2030906.s.b/s6173.d
Date : 06-SEP-2003 12:22
Client ID: V4STD050
Sample Info: ICV*V4STD050

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

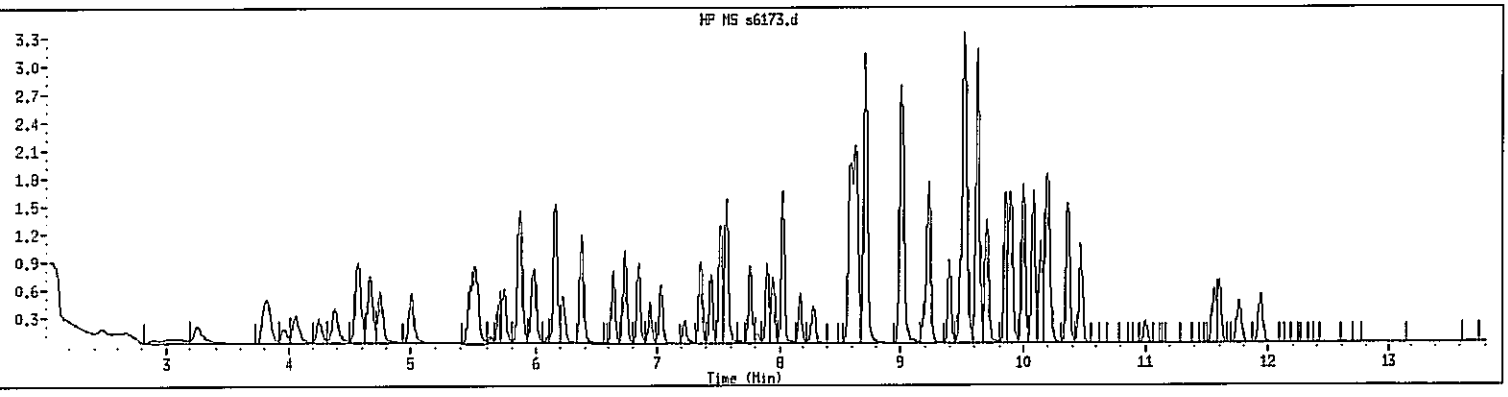
000239



Data file : /var/chem/msv4.i/2030906.s.b/s6173.d
Report Date: 09/12/2003 08:48

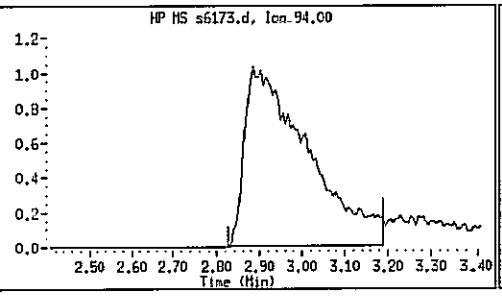
MANUAL INTEGRATION GRAPHIC REPORT

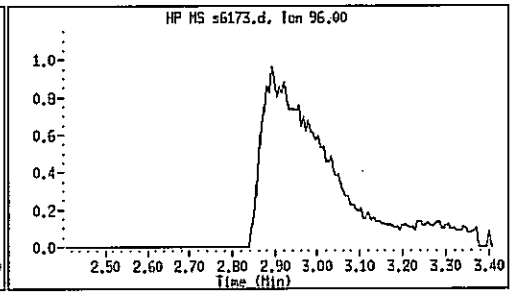
Lab ID	: ICV	SampleType	: LCS
Injection Date	: 06-SEP-2003 12:22	Instrument	: msv4.i
Operator	: RJO		
Sample Info	: ICV*V4STD050		
Misc Info	: MSV~3674~*1*RJO		
Method	: /var/chem/msv4.i/2030906.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



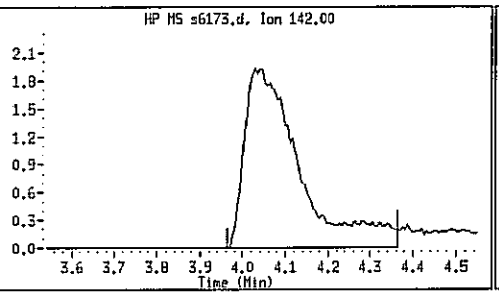
CONCENTRATIONS

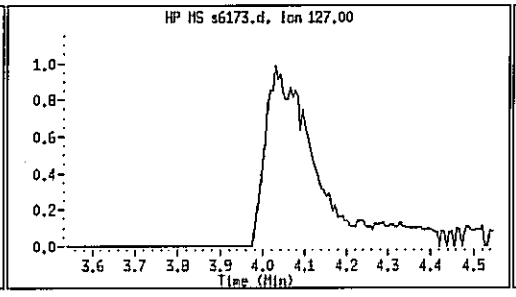
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
4 Bromomethane			CAS#: 74-83-9				
2.885	0.453	94	105490	43	43	80-120	100
2.909	0.456	96	0			72-108	0

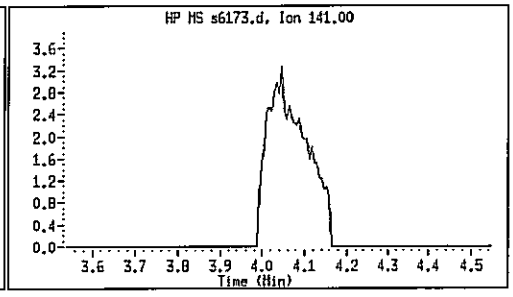




RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
11 Methyl Iodide			CAS#: 74-88-4				
.029	0.632	142	171693	44	44	80-120	100
.044	0.635	127	0			0- 0	0
.044	0.635	141	0			0- 0	0







Data File: /var/chem/msv4.i/2030911.s.b/s6271.d

Date : 11-SEP-2003 07:42

Client ID: BFB01

Instrument: msv4.i

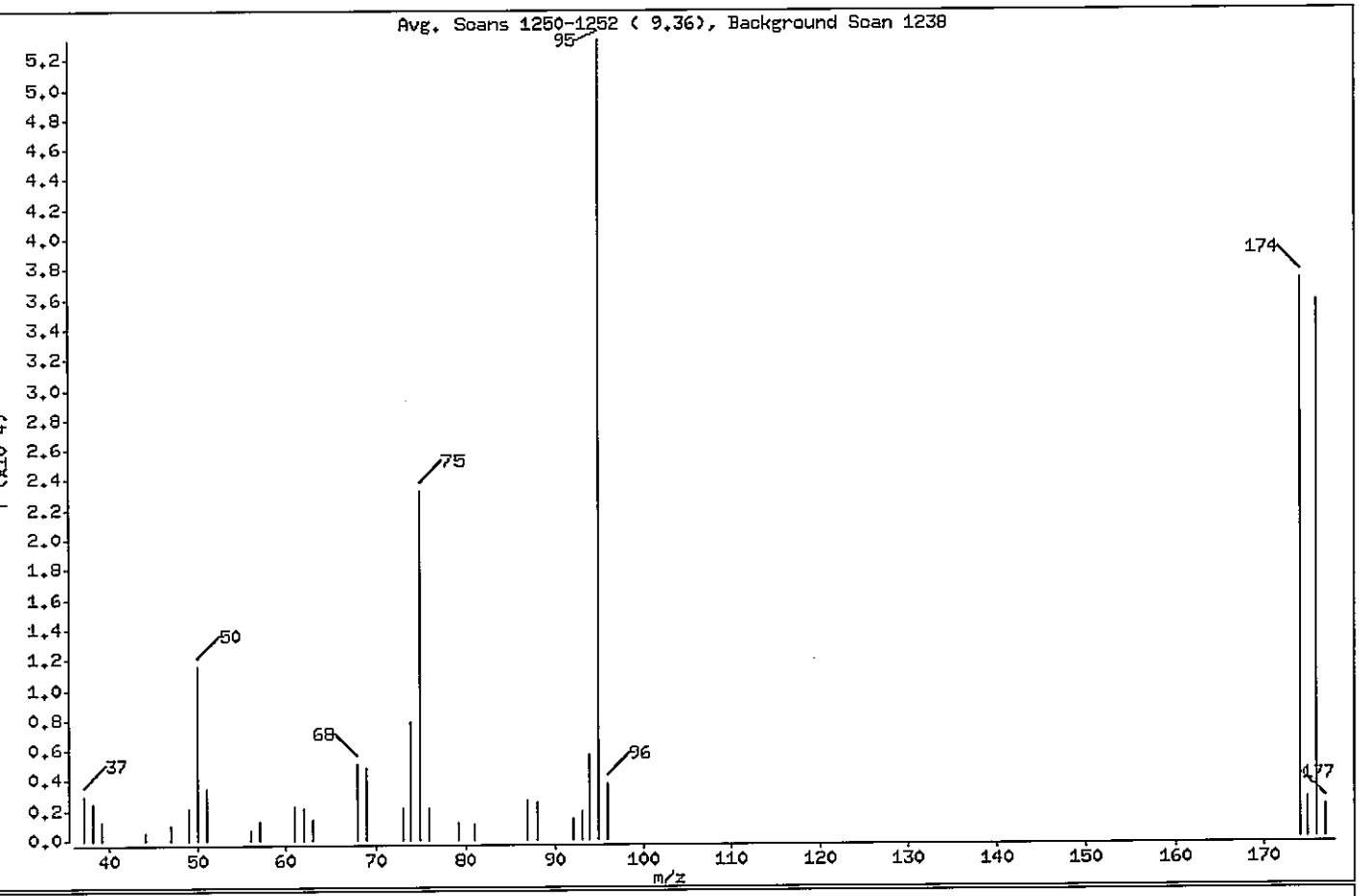
Sample Info: 1000*BFB01

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.65
75	30.00 - 60.00% of mass 95	43.57
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	69.91
175	5.00 - 9.00% of mass 174	4.88 (6.98)
176	95.00 - 101.00% of mass 174	67.12 (96.01)
177	5.00 - 9.00% of mass 176	3.95 (5.89)

Data File: /var/chem/msv4.i/2030911.s.b/s6271.d

Date : 11-SEP-2003 07:42

Client ID: BFB01

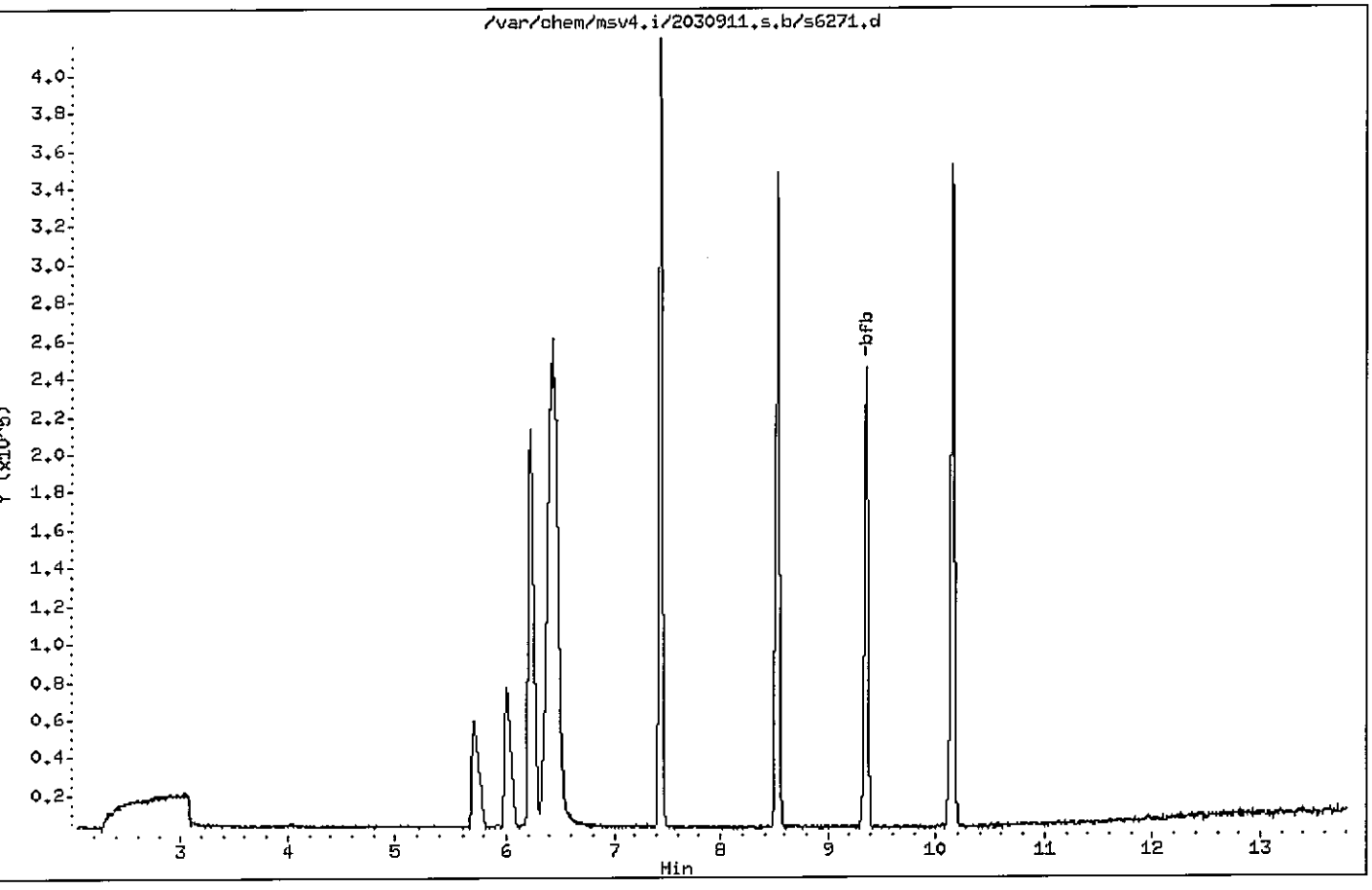
Instrument: msv4.i

Sample Info: 1000*BFB01

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv4.i/2030911.s.b/s6271.d

Date : 11-SEP-2003 07:42

Client ID: BFB01

Instrument: msv4.i

Sample Info: 1000*BFB01

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6271.d
Spectrum: Avg. Scans 1250-1252 (9.36), Background Scan 1238
Location of Maximum: 95.00
Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2913	57.00	1193	76.00	2097	96.00	3728
38.00	2437	61.00	2216	79.00	1051	174.00	37224
39.00	1228	62.00	2079	81.00	995	175.00	2597
44.00	532	63.00	1405	87.00	2637	176.00	35744
47.00	957	68.00	5044	88.00	2412	177.00	2105
49.00	2141	69.00	4804	92.00	1392		
50.00	11529	73.00	2070	93.00	1893		
51.00	3398	74.00	7907	94.00	5643		
56.00	567	75.00	23200	95.00	53256		

ata File: /var/chem/msv4.i/2030911.s.b/s6273.d
eport Date: 11-Sep-2003 09:40

Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv4.i/2030911.s.b/s6273.d
ab Smp Id: 1400 Client Smp ID: V4STD050
nj Date : 11-SEP-2003 08:46
perator : RSP Inst ID: msv4.i
mp Info : 1400*V4STD050*5-1-8
isc Info : MSV~3676~*1*RJO
omment :
ethod : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
eth Date : 11-Sep-2003 09:40 hjl Quant Type: ISTD
al Date : 06-SEP-2003 10:57 Cal File: s6170.d
ls bottle: 3 Continuing Calibration Sample
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.304	2.304	(0.362)	149472	50.0000	25.6	1092
2 Chloromethane ++	50	2.486	2.486	(0.390)	356777	50.0000	41.8	6101
3 Vinyl Chloride +	62	2.615	2.615	(0.411)	289200	50.0000	40.7	4273
4 Bromomethane	94	2.896	2.896	(0.455)	120785	50.0000	46.8	0(M)
5 Chloroethane	64	3.061	3.061	(0.481)	183098	50.0000	59.0	3651
6 Trichlorofluoromethane	101	3.272	3.272	(0.514)	341072	50.0000	43.5	7961
7 Acrolein	56	3.805	3.805	(0.598)	169598	250.000	188	2291
9 1,1,2Trichlotrifluoroethane	101	3.805	3.805	(0.598)	255833	50.0000	44.3	4508
8 1,1-Dichloroethene +	96	3.841	3.841	(0.603)	228041	50.0000	45.5	8736
10 Acetone	43	3.964	3.964	(0.623)	174516	50.0000	32.6	6493
11 Methyl Iodide	142	4.035	4.035	(0.634)	185242	50.0000	45.0	9203
12 Carbon Disulfide	76	4.064	4.064	(0.638)	916495	50.0000	45.9	8809
13 Methylene Chloride	49	4.381	4.381	(0.688)	495971	50.0000	51.3	9204

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
14 Acrylonitrile	53	4.669	4.669	(0.733)	665099	250.000	186	6875
15 trans-1,2-Dichloroethene	61	3.847	3.847	(0.604)	381580	50.0000	46.8	8661
16 MTBE	73	4.563	4.563	(0.717)	862407	50.0000	43.6	4376
17 Hexane	57	4.751	4.751	(0.746)	472486	50.0000	45.3	3397(H)
19 Vinyl Acetate	43	4.751	4.751	(0.746)	325295	50.0000	45.8	
18 1,1-Dichloroethane ++	63	4.998	4.998	(0.785)	585376	50.0000	48.0	6104
22 2-Butanone	43	5.514	5.514	(0.866)	245334	50.0000	32.5	
29 Total 1,2-Dichloroethene	61				911211	100.000	95.0	0
21 cis-1,2-Dichloroethene	61	5.496	5.496	(0.863)	529631	50.0000	48.0	8217
20 2,2-Dichloropropane	77	5.467	5.467	(0.859)	394635	50.0000	47.8	9068
23 Bromochloromethane	128	5.696	5.696	(0.895)	155264	50.0000	44.8	9331
24 Chloroform +	83	5.737	5.737	(0.901)	512171	50.0000	43.9	8897
25 Dibromofluoromethane	111	5.873	5.873	(0.922)	329256	50.0000	48.8	4989
26 1,1,1-Trichloroethane	97	5.861	5.861	(0.920)	439483	50.0000	46.7	8824
27 1,1-Dichloropropene	75	5.985	5.985	(0.940)	389597	50.0000	46.4	6800
28 Carbon Tetrachloride	117	5.961	5.961	(0.936)	339052	50.0000	45.5	9084
30 1,2-Dichloroethane-d4	67	6.161	6.161	(0.968)	176750	50.0000	46.8	7640
32 1,2-Dichloroethane	62	6.214	6.214	(0.976)	398765	50.0000	44.6	6411
31 Benzene	78	6.150	6.150	(0.966)	1266084	50.0000	48.2	9004
33 FLUOROBENZENE	96	6.367	6.367	(1.000)	1328324	50.0000		9675
34 Trichloroethene	130	6.631	6.631	(1.041)	310034	50.0000	44.5	9079
35 1,2-Dichloropropane +	63	6.837	6.837	(1.074)	377880	50.0000	46.7	8673
38 2-Chloroethyl vinyl ether	63	7.219	7.219	(1.134)	103291	50.0000	51.5	6808
36 Dibromomethane	93	6.937	6.937	(1.090)	191106	50.0000	42.1	8949
37 Bromodichloromethane	83	7.031	7.031	(1.104)	438590	50.0000	46.0	9467
127 Methyl cyclohexane	83	6.731	6.731	(1.057)	534488	50.0000	44.5	9268
39 cis-1,3-Dichloropropene	75	7.348	7.348	(1.154)	530667	50.0000	46.2	
40 4-methyl-2-pentanone	43	7.431	7.431	(1.167)	481608	50.0000	34.8	
41 Toluene-d8	98	7.513	7.513	(0.876)	1178198	50.0000	51.7	8504
42 Toluene +	91	7.560	7.560	(0.881)	1408991	50.0000	48.5	9115
43 trans-1,3-Dichloropropene	75	7.754	7.754	(0.904)	461712	50.0000	47.2	
44 1,1,2-Trichloroethane	97	7.889	7.889	(0.920)	295404	50.0000	43.2	8285
45 1,3-Dichloropropane	76	8.019	8.019	(0.935)	508397	50.0000	43.6	8635
47 2-Hexanone	43	8.019	8.019	(0.935)	380254	50.0000	33.9	6133
46 Tetrachloroethene	164	7.943	7.943	(0.926)	200941	50.0000	46.7	5446
48 Dibromochloromethane	129	8.172	8.172	(0.953)	309515	50.0000	43.8	9077
49 1,2-Dibromoethane(EDB)	107	8.284	8.284	(0.966)	295058	50.0000	42.7	5533
50 Chlorobenzene-d5	82	8.577	8.577	(1.000)	507951	50.0000		8723
51 Chlorobenzene ++	112	8.594	8.594	(1.002)	921215	50.0000	47.2	8942
52 1,1,1,2-Tetrachloroethane	133	8.648	8.648	(1.008)	283851	50.0000	47.6	9325
53 Ethylbenzene +	106	8.624	8.624	(1.006)	489649	50.0000	48.2	9385
54 p,m-Xylene	106	8.707	8.707	(1.015)	1273826	100.000	98.3	9263
55 o-Xylene	106	8.995	8.995	(1.049)	621847	50.0000	48.5	
56 Styrene	104	9.012	9.012	(1.051)	1082698	50.0000	48.3	9183
57 Bromoform ++	173	9.189	9.189	(1.071)	190351	50.0000	42.4	7934
58 Isopropylbenzene	105	9.224	9.224	(1.075)	1625862	50.0000	49.0	9403
59 Bromofluorobenzene	174	9.389	9.389	(1.095)	294329	50.0000	47.0	8527

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
60	1,1,2,2-Tetrachloroethane++	83	9.477	9.477	(0.931)	430646	50.0000	39.6	9394
61	trans-1,4-Dichloro-2-Butene	53	9.619	9.619	(0.945)	55157	50.0000	23.7	4430
62	1,2,3-Trichloropropane	75	9.531	9.531	(0.936)	478754	50.0000	40.2	7861
63	Bromobenzene	77	9.513	9.513	(0.934)	823392	50.0000	45.3	7371
64	n-Propylbenzene	91	9.507	9.507	(0.934)	1989833	50.0000	48.6	7704
65	2-Chlorotoluene	91	9.619	9.619	(0.945)	1231766	50.0000	48.9	8954
66	1,3,5-Trimethylbenzene	105	9.619	9.619	(0.945)	1348686	50.0000	48.1	
67	4-Chlorotoluene	91	9.696	9.696	(0.952)	1137907	50.0000	48.0	8778
76	TOTAL XYLENE	106				1895673	150.000	147	0
68	tert-butylbenzene	91	9.843	9.843	(0.967)	869284	50.0000	48.1	8964
69	1,2,4-Trimethylbenzene	105	9.885	9.885	(0.971)	1328820	50.0000	48.0	
70	sec-Butylbenzene	105	9.991	9.991	(0.981)	1797960	50.0000	47.9	
71	p-Isopropyltoluene	119	10.079	10.079	(0.990)	1361336	50.0000	48.0	9232
72	1,3-Dichlorobenzene	146	10.138	10.138	(0.996)	537167	50.0000	46.7	
73	1,4-DICHLOROBENZENE-D4	152	10.180	10.180	(1.000)	366244	50.0000		8892
74	1,4-Dichlorobenzene	146	10.198	10.198	(1.002)	602157	50.0000	46.9	
75	n-Butylbenzene	91	10.357	10.357	(1.017)	1287409	50.0000	50.5	9209
77	1,2-Dichlorobenzene	146	10.463	10.463	(1.028)	562422	50.0000	47.4	
78	1,2-Dibromo-3-Chloropropane	157	10.990	10.990	(1.080)	62724	50.0000	37.0	5735
79	1,2,4-Trichlorobenzene	180	11.547	11.547	(1.134)	268346	50.0000	44.3	
80	Hexachlorobutadiene	225	11.594	11.594	(1.139)	180100	50.0000	49.9	9323
81	Napthalene	128	11.759	11.759	(1.155)	494051	50.0000	37.0	9419
82	1,2,3-Trichlorobenzene	180	11.929	11.929	(1.172)	252147	50.0000	52.3	
97	Cyclohexane	56	5.855	5.855	(0.920)	597773	50.0000	45.4	4923
98	Methyl Acetate	43	4.252	4.252	(0.668)	369441	50.0000	39.8	1885

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

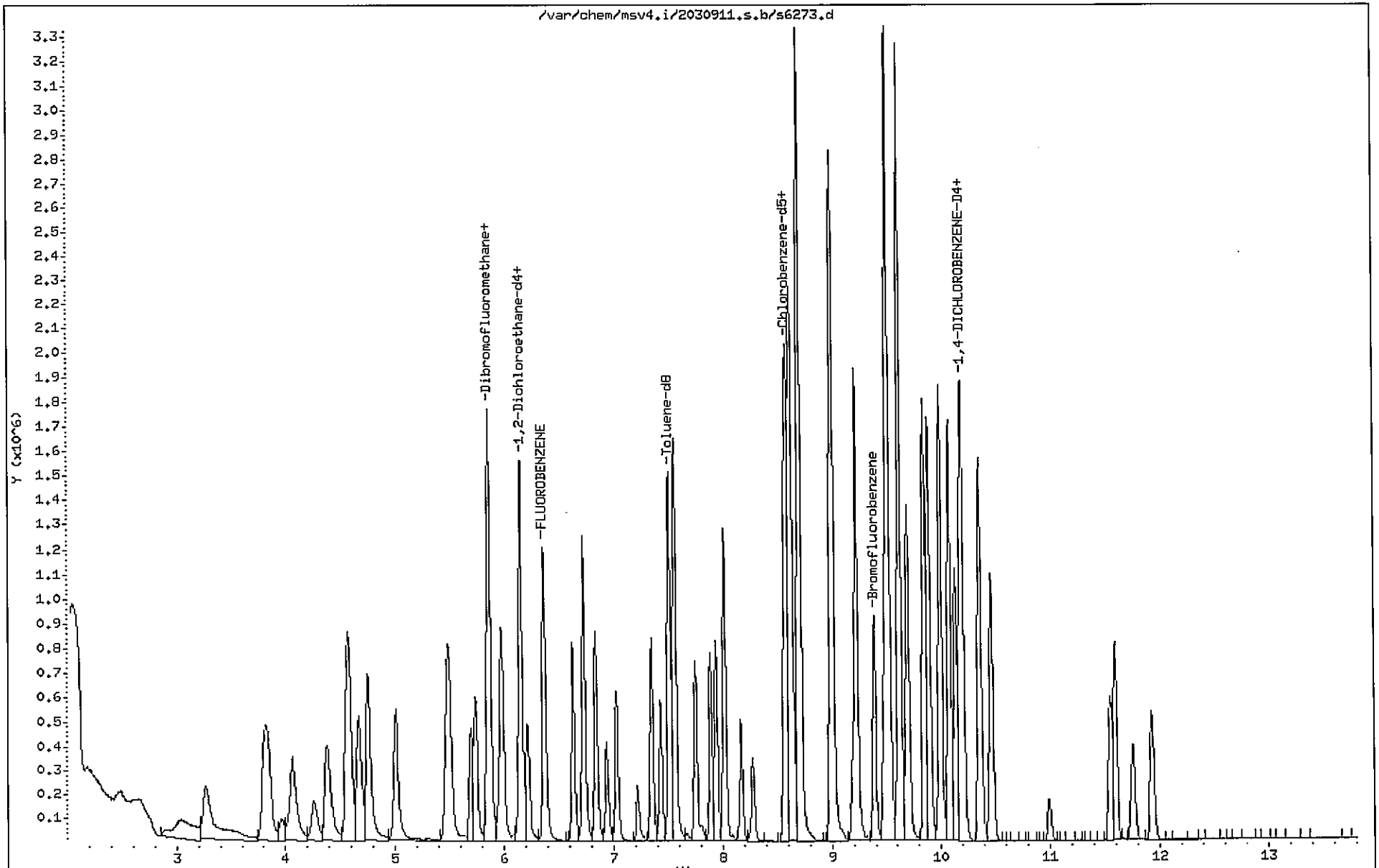
Data File: /var/chem/msv4.i/2030911.s.b/s6273.d
Date : 11-SEP-2003 08:46
Client ID: V4STD050
Sample Info: 1400XV4STD050X5-1-8

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RSP
Column diameter: 0.53

000248

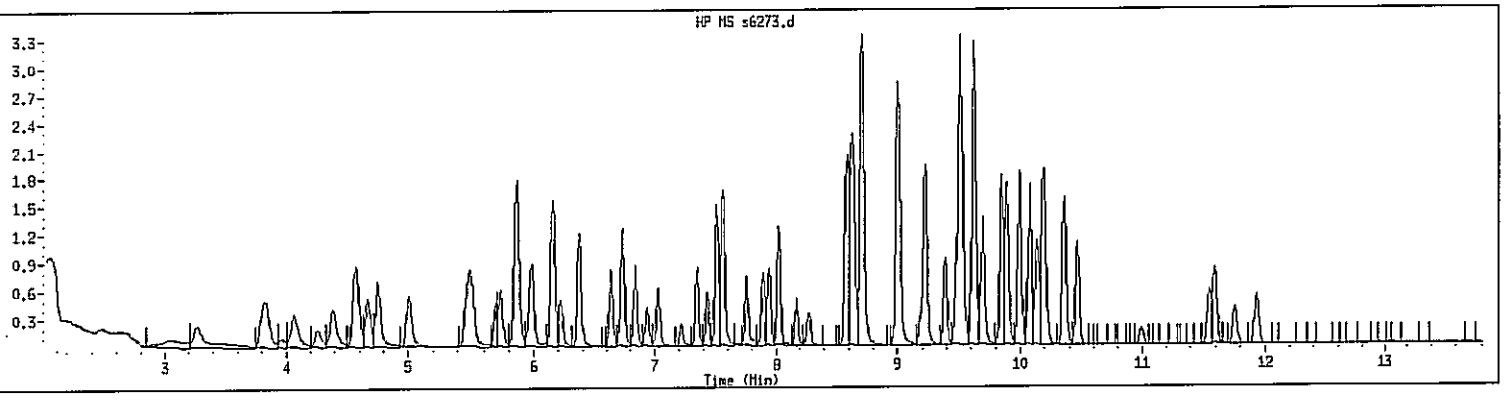


Data file : /var/chem/msv4.i/2030911.s.b/s6273.d
Report Date: 09/11/2003 09:40

MANUAL INTEGRATION GRAPHIC REPORT

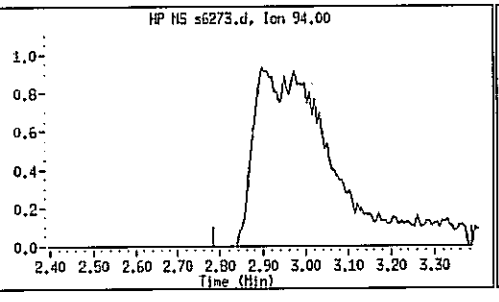
Lab ID : 1400
Injection Date: 11-SEP-2003 08:46
Operator : RSP
Sample Info : 1400*V4STD050*5-1-8
Misc Info : MSV~3676~*1*RJO
Method : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

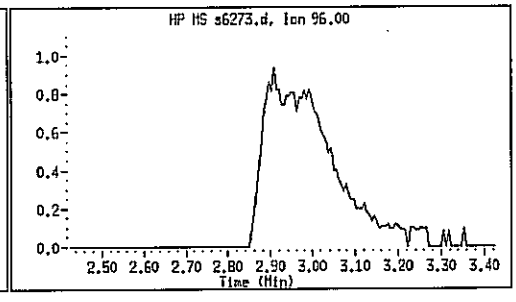
SampleType : CCALIB_3
Instrument : msv4.i
Compound Sublist: 8260b



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
4 Bromomethane			CAS#: 74-83-9				
.896	0.455	94	120785	47	47	80-120	100
.926	0.460	96	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030911.s.b/s6120.d
Lab Smp Id: 118486 Client Smp ID: MB for HBN 262311[M
Inj Date : 11-SEP-2003 11:20
Operator : RSP Inst ID: msv0.i
Smp Info : 118486*MB for HBN 262311[MSV/3678]
Misc Info : MSV~3678~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030911.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 14:24 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
25 Dibromofluoromethane	111	5.975	5.975	(0.918)	244075	52.8863	52.9	1494
30 1,2-Dichloroethane-d4	67	6.253	6.253	(0.960)	120787	50.4304	50.4	9646
33 FLUOROBENZENE	96	6.511	6.512	(1.000)	918913	50.0000		9580
41 Toluene-d8	98	7.690	7.690	(0.880)	963582	44.9512	45.0	8272
50 Chlorobenzene-d5	82	8.742	8.743	(1.000)	447329	50.0000		8283
59 Bromofluorobenzene	174	9.543	9.544	(1.092)	300620	47.5576	47.6	9074
73 1,4-DICHLOROBENZENE-D4	152	10.318	10.319	(1.000)	409559	50.0000		9378

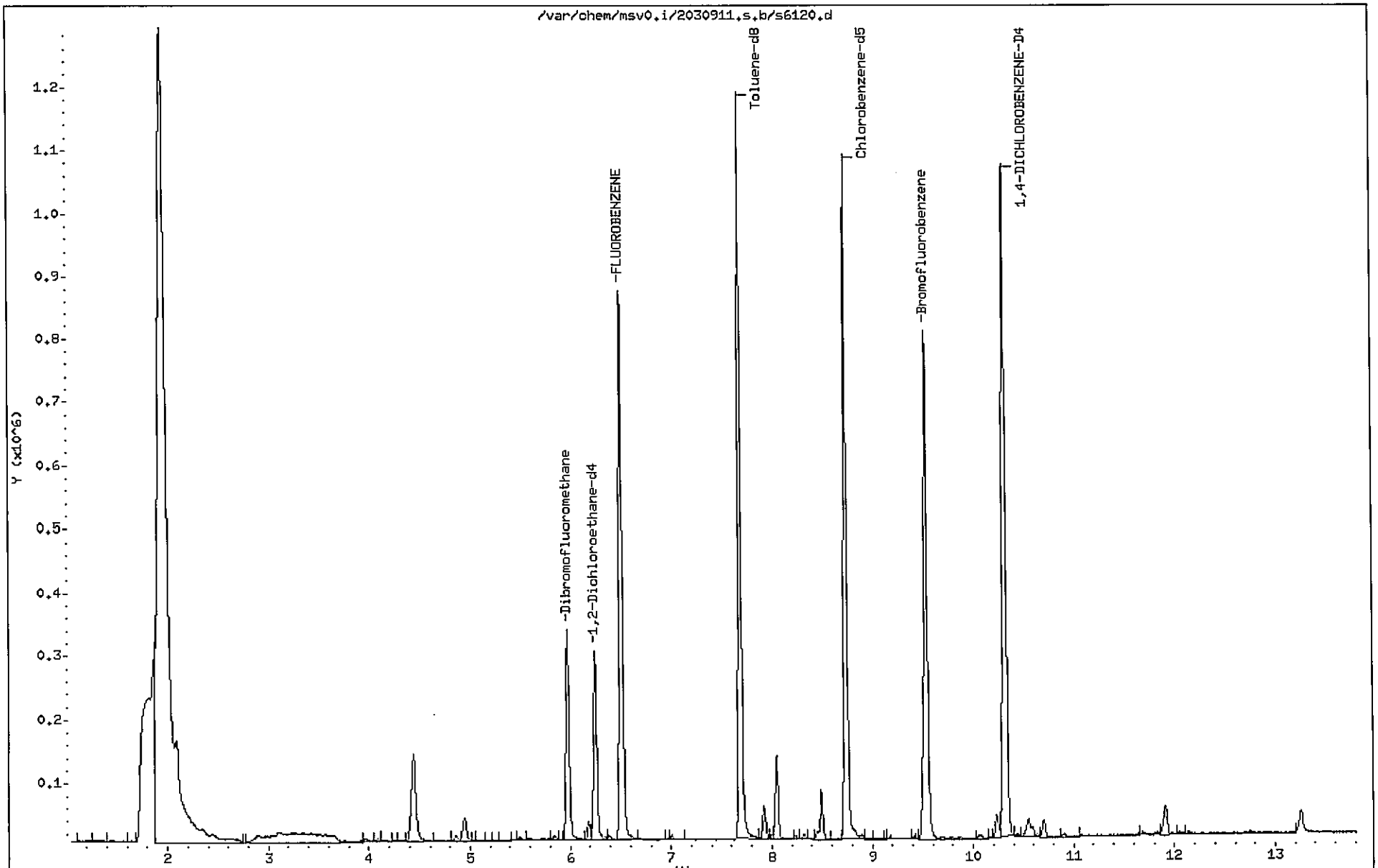
Data File: /var/chem/msv0.i/2030911.s.b/s6120.d
Date : 11-SEP-2003 11:20
Client ID: MB for HBN 262311[M
Sample Info: 118486*MB for HBN 262311[MSV/3678]

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000251



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030910.s.b/s8277.d
Lab Smp Id: 118233 Client Smp ID: MB for HBN 262245[M
Inj Date : 10-SEP-2003 10:37
Operator : HJL Inst ID: msv2.i
Smp Info : 118233*MB for HBN 262245[MSV/3670]
Misc Info : MSV~3670~*1*RSP
Comment :
Method : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 14:43 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

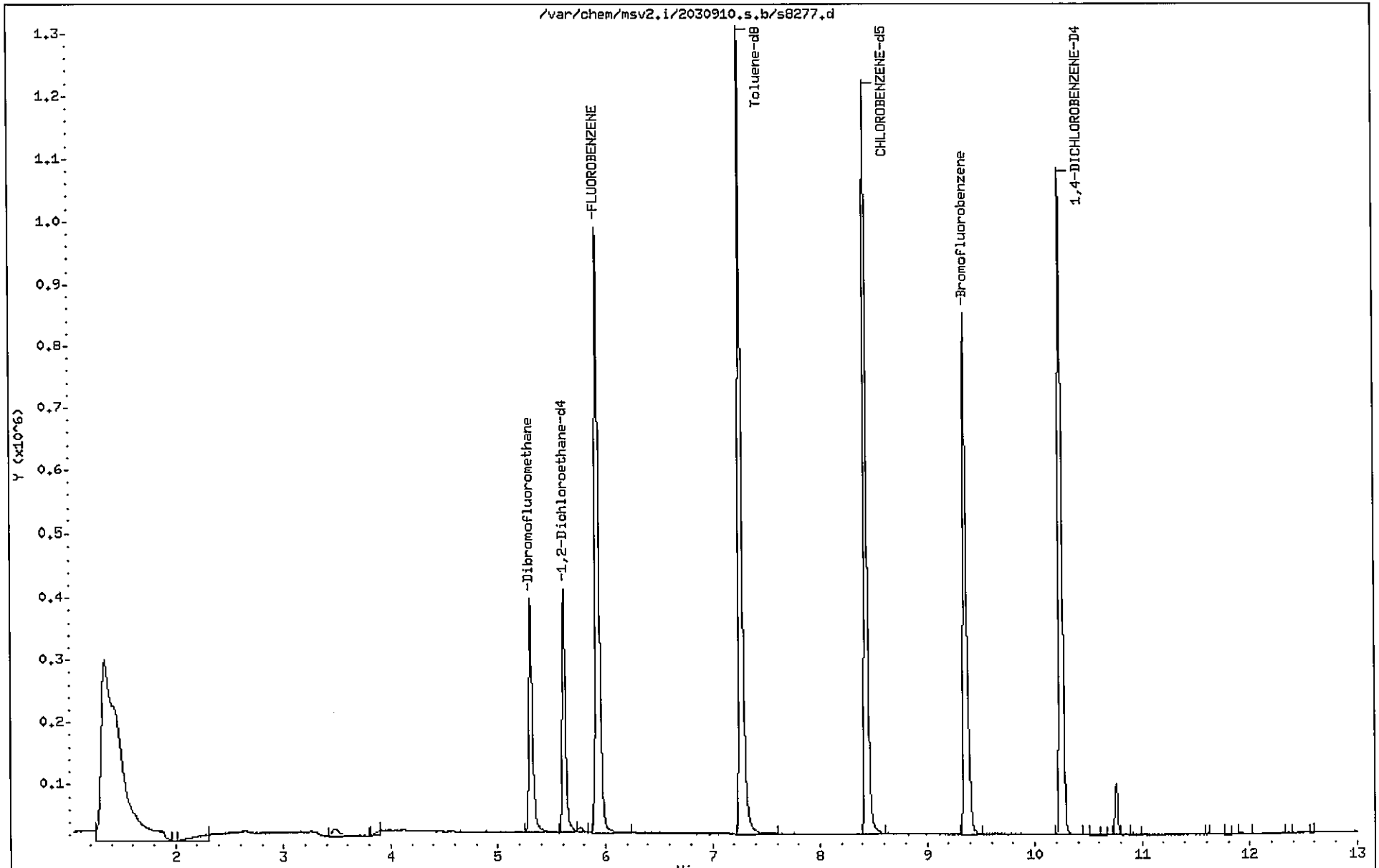
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
38 Dibromofluoromethane	111	5.306	5.305	(0.895)	284106	54.1307	54.1
44 1,2-Dichloroethane-d4	67	5.615	5.615	(0.948)	161448	51.9663	52.0
47 FLUOROBENZENE	96	5.925	5.925	(1.000)	1153591	50.0000	
58 Toluene-d8	98	7.263	7.262	(0.862)	1067449	53.8806	53.9
70 CHLOROBENZENE-d5	82	8.429	8.429	(1.000)	480214	50.0000	
81 Bromofluorobenzene	174	9.358	9.358	(0.914)	329004	49.3932	49.4
99 1,4-DICHLOROBENZENE-D4	152	10.241	10.247	(1.000)	394793	50.0000	

Data File: /var/chem/msv2.i/2030910.s.b/s8277.d
Date : 10-SEP-2003 10:37
Client ID: MB for HBN 262245[M
Sample Info: 118233*MB for HBN 262245[MSV/3670]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000253



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030911.s.b/s8298.d
Lab Smp Id: 118442 Client Smp ID: MB for HBN 262301[M
Inj Date : 11-SEP-2003 09:57
Operator : HJL Inst ID: msv2.i
Smp Info : 118442*MB for HBN 262301[MSV/3677]
Misc Info : MSV~3677~*50*RSP
Comment :
Method : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
Meth Date : 11-Sep-2003 08:56 hjl Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Vials bottle: 6 QC Sample: BLANK
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

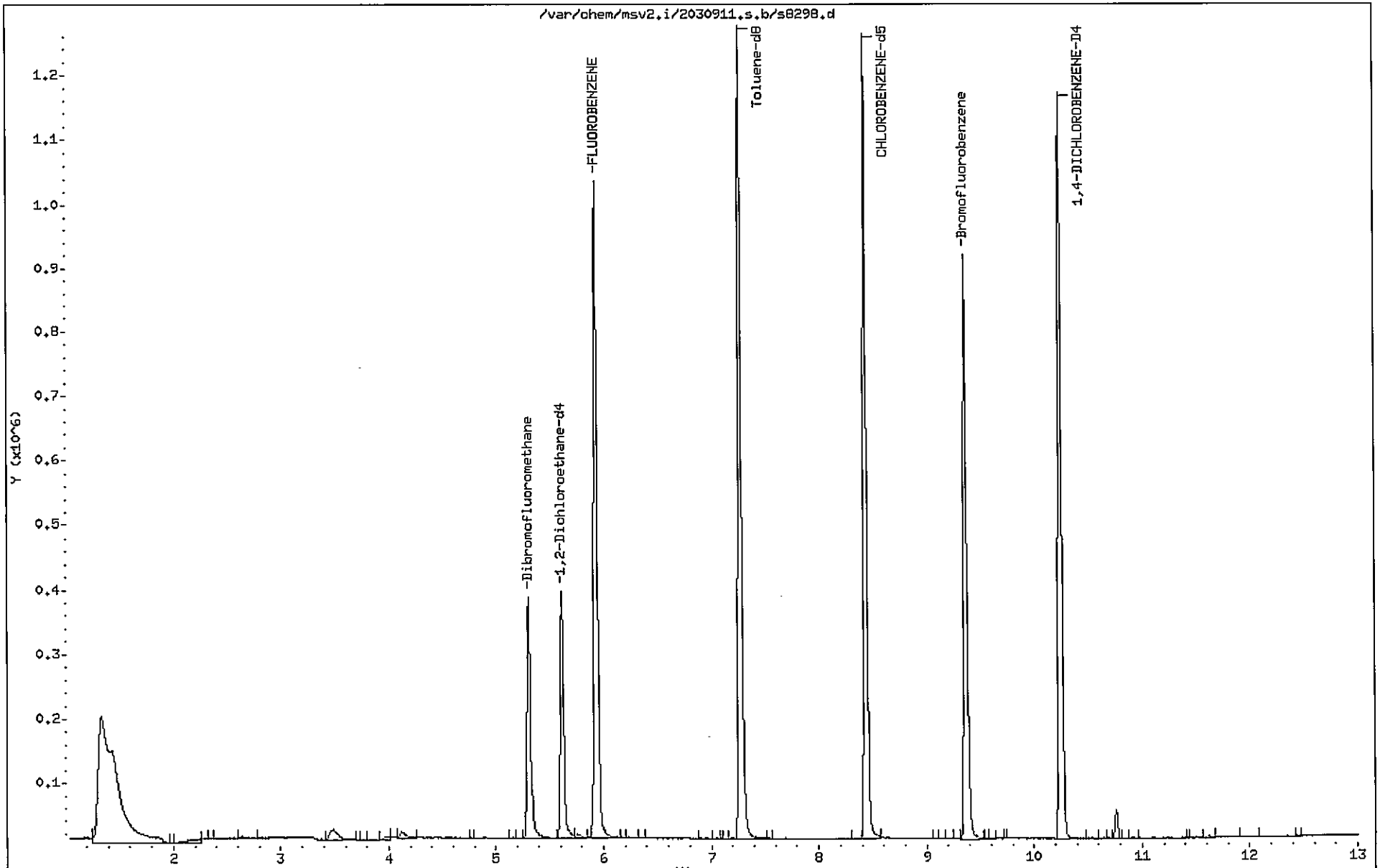
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
18 Methylene Chloride	49	3.473	3.470	(0.586)	23624	1.16586	58.3
38 Dibromofluoromethane	111	5.311	5.308	(0.896)	286002	55.3396	2770
44 1,2-Dichloroethane-d4	67	5.614	5.611	(0.947)	164830	53.8802	2690
47 FLUOROBENZENE	96	5.930	5.927	(1.000)	1135922	50.0000	
58 Toluene-d8	98	7.268	7.265	(0.862)	1035243	52.5518	2630
70 CHLOROBENZENE-d5	82	8.434	8.431	(1.000)	477502	50.0000	
81 Bromofluorobenzene	174	9.363	9.361	(0.914)	337917	48.1565	2410
99 1,4-DICHLOROBENZENE-D4	152	10.246	10.250	(1.000)	415902	50.0000	

Data File: /var/chem/msv2.i/2030911.s.b/s8298.d
Date : 11-SEP-2003 09:57
Client ID: MB for HBN 262301IM
Sample Info: 118442*MB for HBN 262301[MSV/3677]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000255



Data File: /var/chem/msv2.i/2030911.s.b/s8298.d

Date : 11-SEP-2003 09:57

Client ID: MB for HBN 262301[M

Instrument: msv2.i

Sample Info: 118442*MB for HBN 262301[MSV/3677]

Purge Volume: 5.0

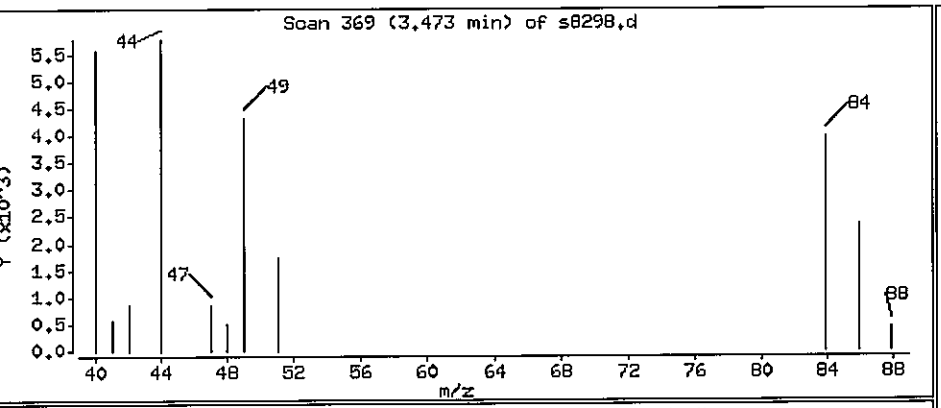
Operator: HJL

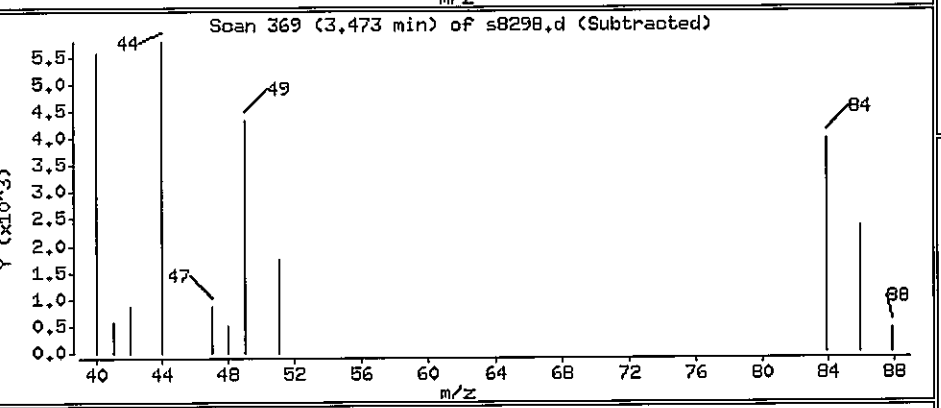
Column phase: DB-624-30M

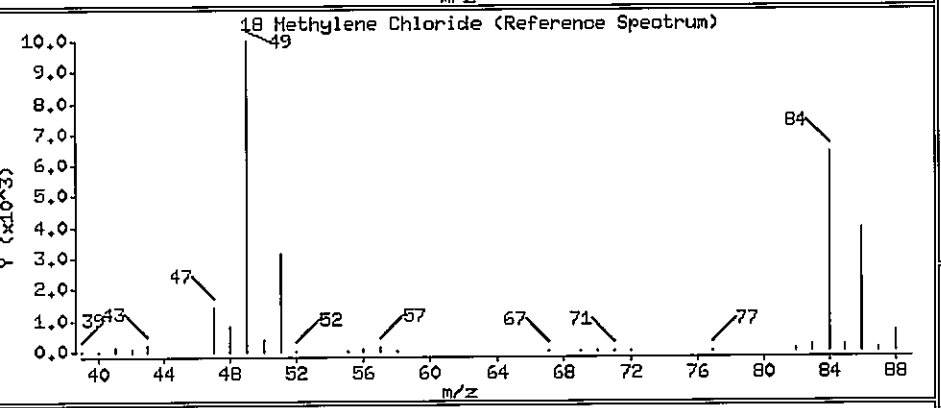
Column diameter: 0.53

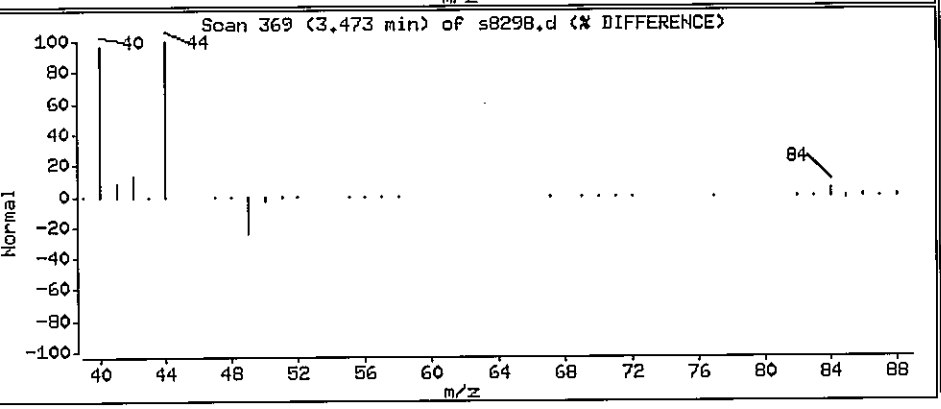
18 Methylene Chloride

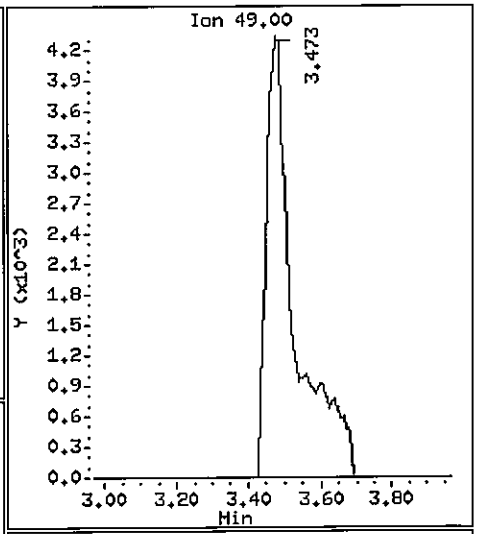
Concentration: 58.3 UG/KG

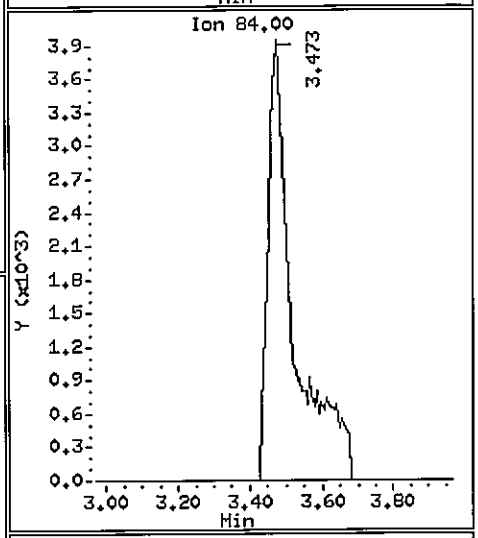


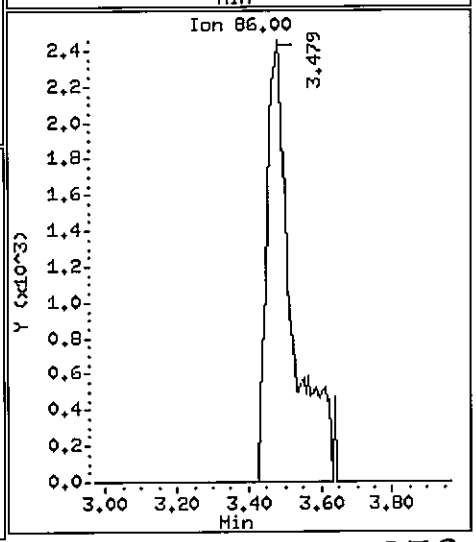












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv4.i/2030911.s.b/s6277.d
Lab Smp Id: 118436 Client Smp ID: MB for HBN 262300
Inj Date : 11-SEP-2003 10:48
Operator : HJL Inst ID: msv4.i
Smp Info : 118436*MB for HBN 262300[MSV/3676]
Misc Info : MSV~3676~*1*RJO
Comment :
Method : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
Meth Date : 11-Sep-2003 14:05 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57 Cal File: s6170.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
17 Hexane	57	4.752	4.751	(0.746)	41744	4.31452	4.31	3456(a)
25 Dibromofluoromethane	111	5.877	5.873	(0.923)	308628	49.3341	49.3	972
30 1,2-Dichloroethane-d4	67	6.158	6.161	(0.967)	177621	50.6766	50.7	9593
33 FLUOROBENZENE	96	6.369	6.367	(1.000)	1231886	50.0000		9644
41 Toluene-d8	98	7.512	7.513	(0.876)	1086866	51.6772	51.7	8549
50 Chlorobenzene-d5	82	8.579	8.577	(1.000)	468905	50.0000		8673
59 Bromofluorobenzene	174	9.393	9.389	(1.095)	247376	42.7569	42.8	8526
73 1,4-DICHLOROBENZENE-D4	152	10.196	10.180	(1.000)	233687	50.0000		9642

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

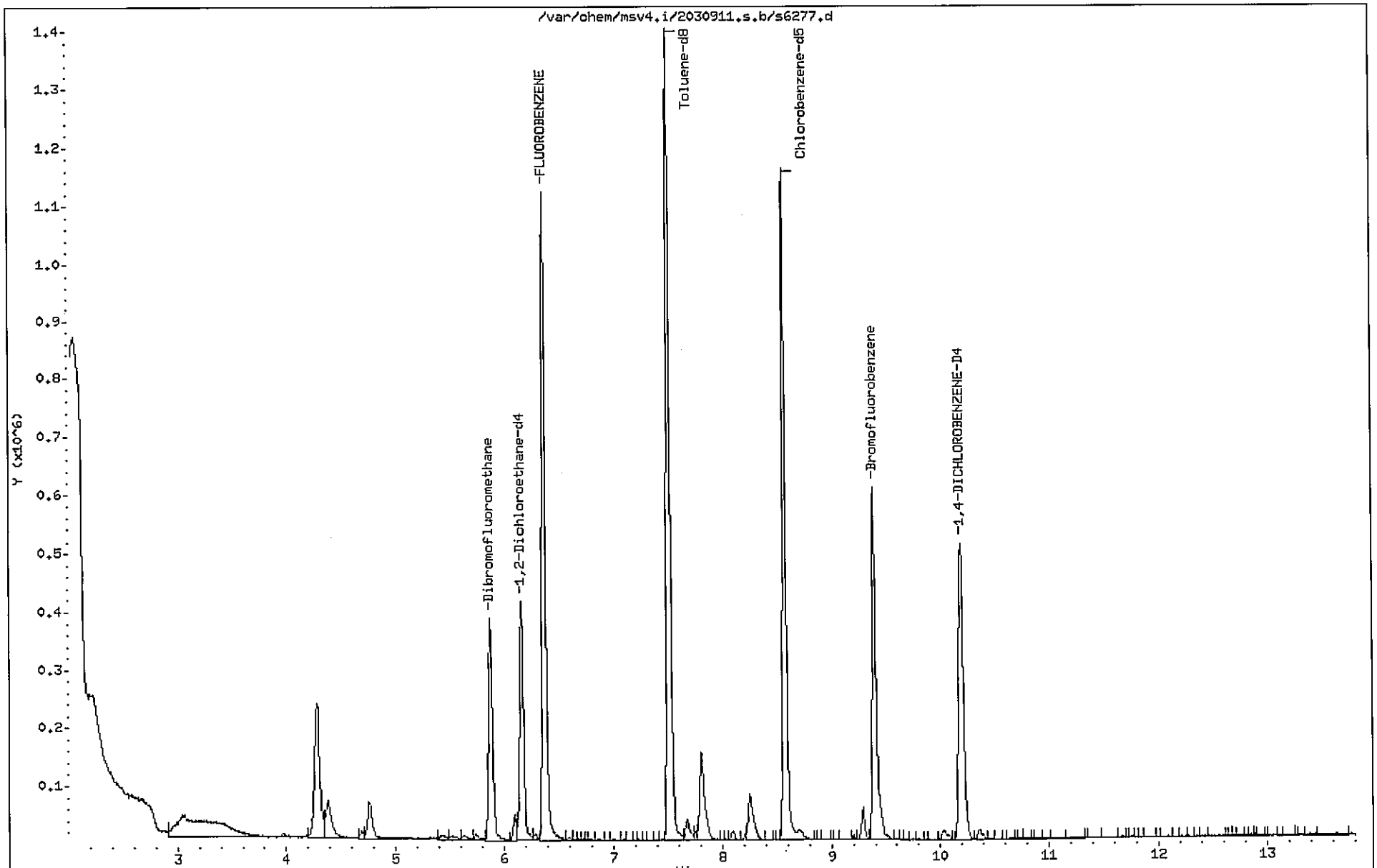
Data File: /var/chem/msv4.i/2030911.s.b/s6277.d
Date : 11-SEP-2003 10:48
Client ID: MB for HBN 262300
Sample Info: 118436*MB for HBN 262300[MSV/3676]

Column phase: DB-624-30M

Instrument: msv4.i

Operator: HJL
Column diameter: 0.53

000258



Data File: /var/chem/msv4.i/2030911.s.b/s6277.d

Date : 11-SEP-2003 10:48

Client ID: MB for HBN 262300

Instrument: msv4.i

Sample Info: 118436*MB for HBN 262300[MSV/3676]

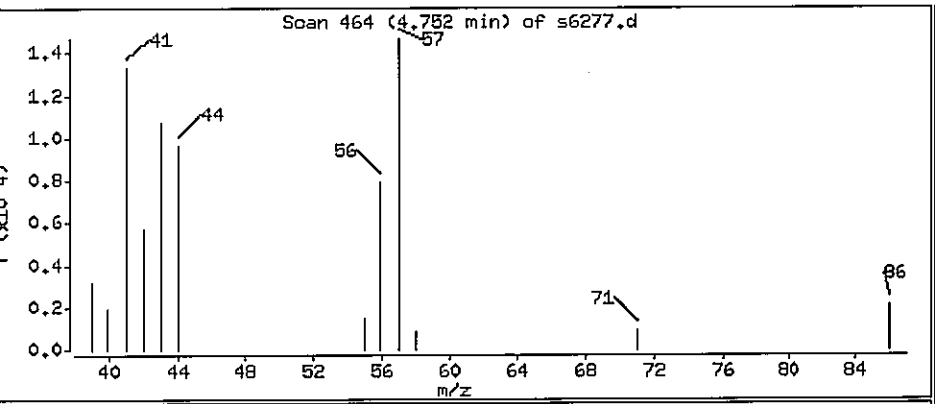
Operator: HJL

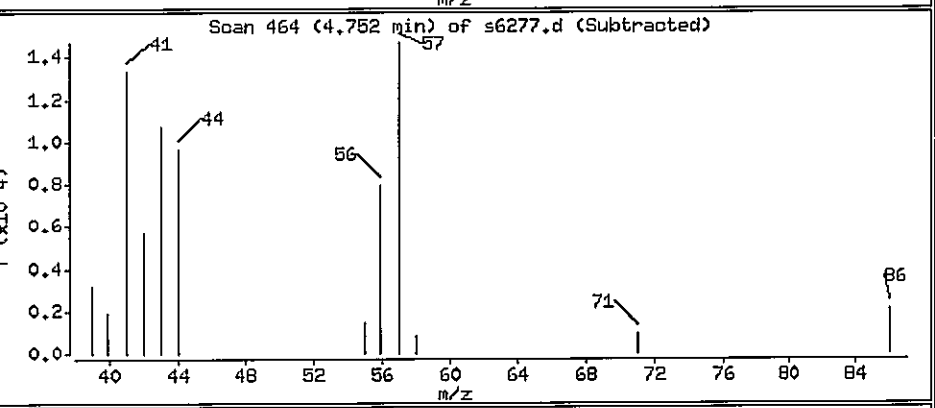
Column phase: DB-624-30M

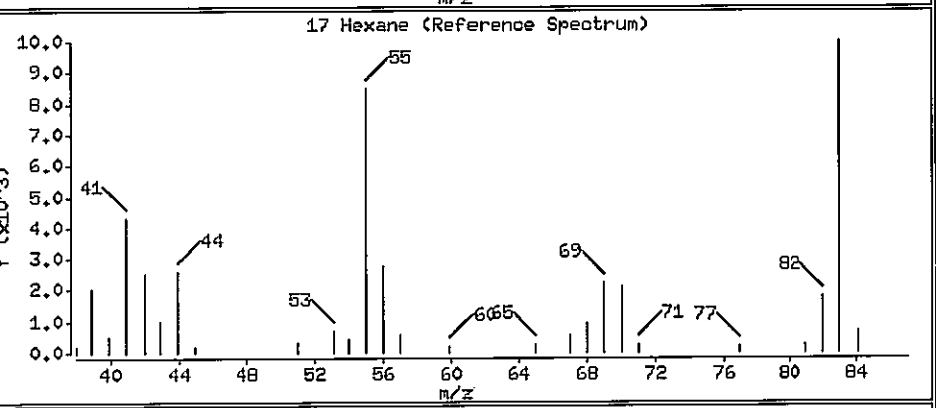
Column diameter: 0.53

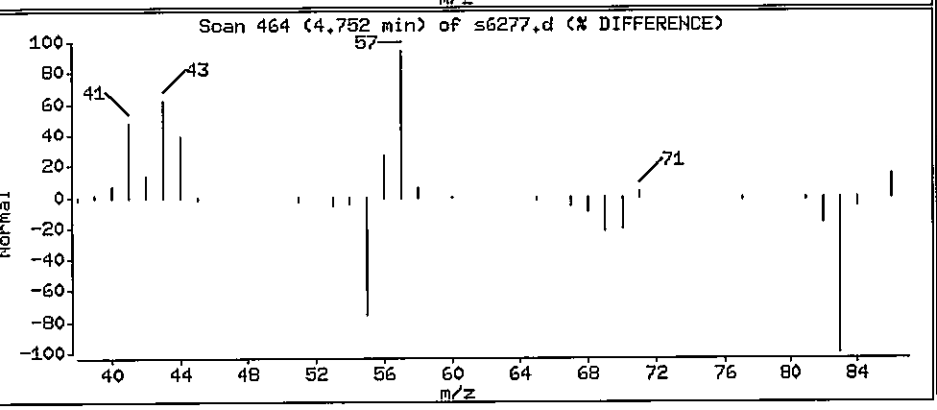
17 Hexane

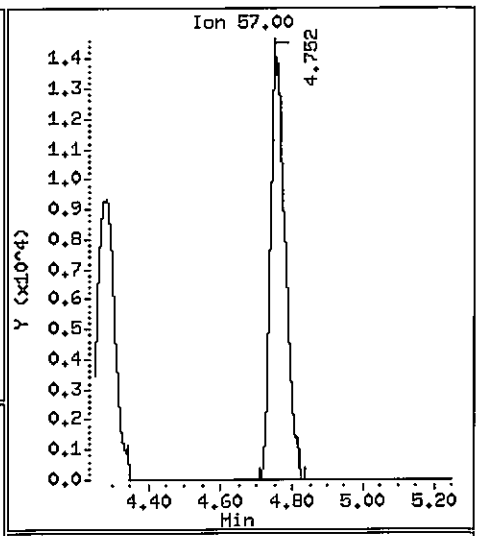
Concentration: 4.31 ug/Kg

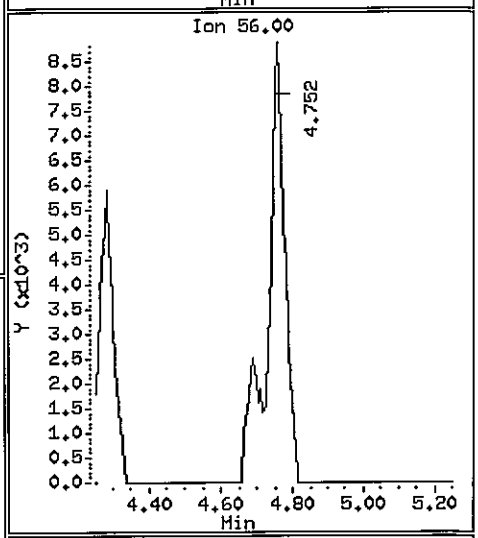


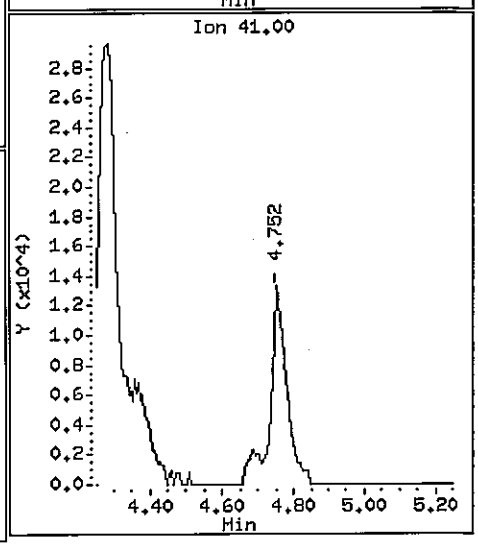












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030911.s.b/s6117.d
Lab Smp Id: 118484 Client Smp ID: LCS for HBN 262311
Inj Date : 11-SEP-2003 10:16
Operator : RSP Inst ID: msv0.i
Smp Info : 118484*LCS for HBN 262311[MSV/3678]
Misc Info : MSV~3678~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030911.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 12:33 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
2 Chloromethane ++	50	2.353	2.340	(0.361)	132583	21.5438	21.5	6163
1 Dichlorodifluoromethane	85	2.135	2.129	(0.328)	69696	19.2305	19.2	2620
3 Vinyl Chloride +	62	2.479	2.473	(0.381)	113306	26.7575	26.8	4474
4 Bromomethane	94	2.876	2.857	(0.442)	47736	18.0974	18.1	6699
5 Chloroethane	64	3.009	2.996	(0.462)	59221	23.1438	23.1	3990
6 Trichlorofluoromethane	101	3.327	3.320	(0.511)	121825	29.9330	29.9	7951
7 Acrolein	56	3.797	3.797	(0.583)	50609	140.118	140	3497
9 1,1,2Trichlotrifluoroethane	101	3.916	3.916	(0.601)	104054	31.9476	31.9	808
8 1,1-Dichloroethene +	96	3.916	3.910	(0.601)	92465	29.8761	29.9	8621
10 Acetone	43	3.962	3.963	(0.608)	44704	22.6871	22.7	6290
11 Methyl Iodide	142	4.088	4.082	(0.628)	62099	18.4616	18.5	8841
12 Carbon Disulfide	76	4.161	4.155	(0.639)	407125	31.8639	31.9	8782
13 Methylene Chloride	49	4.426	4.419	(0.680)	194637	39.8419	39.8	9192(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
14 Acrylonitrile	53	4.651	4.651	(0.714)	239974	172.820	173	6875
15 trans-1,2-Dichloroethene	61	4.691	4.684	(0.720)	184931	35.6823	35.7	8849(R)
16 MTBE	73	4.684	4.684	(0.719)	326216	31.6559	31.7	3690
17 Hexane	57	4.942	4.942	(0.759)	228764	39.4877	39.5	2964(H)
19 Vinyl Acetate	43	4.942	4.942	(0.759)	152385	39.8420	39.8	
18 1,1-Dichloroethane ++	63	5.081	5.075	(0.780)	243991	33.0658	33.1	6050(R)
22 2-Butanone	43	5.578	5.585	(0.857)	78195	25.9147	25.9	
29 Total 1,2-Dichloroethene	61				397506	63.9711	64.0	0
21 cis-1,2-Dichloroethene	61	5.584	5.585	(0.858)	212575	29.3411	29.3	8182
20 2,2-Dichloropropane	77	5.584	5.585	(0.858)	155015	28.3798	28.4	6613
23 Bromochloromethane	128	5.790	5.790	(0.889)	66000	28.8895	28.9	9514
24 Chloroform +	83	5.843	5.843	(0.897)	223993	28.0515	28.1	8701
25 Dibromofluoromethane	111	5.975	5.975	(0.918)	247073	51.6376	51.6	1393(H)
26 1,1,1-Trichloroethane	97	6.008	6.008	(0.923)	170577	29.1082	29.1	8792
27 1,1-Dichloropropene	75	6.134	6.134	(0.942)	180756	30.3713	30.4	6698
28 Carbon Tetrachloride	117	6.147	6.147	(0.944)	134337	29.6859	29.7	8955
30 1,2-Dichloroethane-d4	67	6.246	6.253	(0.959)	122038	49.1460	49.1	9636
32 1,2-Dichloroethane	62	6.306	6.306	(0.968)	155424	28.7486	28.7	6406
31 Benzene	78	6.306	6.306	(0.968)	610759	29.4099	29.4	8343
33 FLUOROBENZENE	96	6.511	6.512	(1.000)	952695	50.0000		9577
34 Trichloroethene	130	6.796	6.796	(1.044)	159528	29.8558	29.9	8766
35 1,2-Dichloropropane +	63	6.961	6.962	(1.069)	164146	29.2419	29.2	7960
38 2-Chloroethyl vinyl ether	63	7.346	7.346	(1.128)	35726	14.2167	14.2	6768
36 Dibromomethane	93	7.054	7.061	(1.083)	76421	26.7546	26.8	9186
37 Bromodichloromethane	83	7.160	7.160	(1.100)	180306	28.8049	28.8	9750
127 Methyl cyclohexane	83	6.948	6.949	(1.067)	279679	33.0688	33.1	4002
39 cis-1,3-Dichloropropene	75	7.478	7.478	(1.148)	217245	27.4336	27.4	
40 4-methyl-2-pentanone	43	7.564	7.571	(1.162)	153054	26.0559	26.1	
41 Toluene-d8	98	7.690	7.690	(0.880)	963626	43.8043	43.8	8241
42 Toluene +	91	7.736	7.737	(0.885)	631754	23.8876	23.9	8824
43 trans-1,3-Dichloropropene	75	7.869	7.869	(0.900)	175870	21.3252	21.3	
44 1,1,2-Trichloroethane	97	8.014	8.015	(0.917)	125640	22.6834	22.7	8162
45 1,3-Dichloropropane	76	8.140	8.140	(0.931)	217950	22.4032	22.4	8576
47 2-Hexanone	43	8.160	8.160	(0.933)	113776	21.0491	21.0	7473
46 Tetrachloroethene	164	8.147	8.147	(0.932)	112105	23.6796	23.7	9120
48 Dibromochloromethane	129	8.319	8.326	(0.952)	138643	22.8893	22.9	9075
49 1,2-Dibromoethane(EDB)	107	8.425	8.425	(0.964)	112942	20.8132	20.8	5533
50 Chlorobenzene-d5	82	8.743	8.743	(1.000)	459062	50.0000		8409
51 Chlorobenzene ++	112	8.762	8.763	(1.002)	415422	23.7761	23.8	8967
52 1,1,1,2-Tetrachloroethane	133	8.809	8.809	(1.008)	127605	23.5027	23.5	9307
53 Ethylbenzene +	106	8.815	8.816	(1.008)	215866	23.6524	23.7	9259
54 p,m-Xylene	106	8.895	8.889	(1.017)	586248	48.8499	48.8	9075
55 o-Xylene	106	9.173	9.173	(1.049)	271849	23.8078	23.8	
56 Styrene	104	9.180	9.180	(1.050)	474992	23.5385	23.5	8963
57 Bromoform ++	173	9.338	9.339	(1.068)	81122	22.4512	22.5	8473
58 Isopropylbenzene	105	9.411	9.412	(1.076)	701588	24.4574	24.5	9123
59 Bromofluorobenzene	174	9.544	9.544	(1.092)	308958	47.6275	47.6	9108

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
60 1,1,2,2-Tetrachloroethane++	83	9.603	9.604	(0.931)	173998	22.6957	22.7	9511
61 trans-1,4-Dichloro-2-Butene	53	9.630	9.630	(0.933)	33958	18.8123	18.8	7861
62 1,2,3-Trichloropropane	75	9.650	9.650	(0.935)	201276	22.8736	22.9	7312
63 Bromobenzene	77	9.663	9.663	(0.936)	361168	23.5551	23.6	8280
64 n-Propylbenzene	91	9.689	9.690	(0.939)	805645	25.0672	25.1	9229
65 2-Chlorotoluene	91	9.782	9.782	(0.948)	504547	24.6535	24.7	9185
66 1,3,5-Trimethylbenzene	105	9.795	9.796	(0.949)	573339	24.6996	24.7	
67 4-Chlorotoluene	91	9.848	9.849	(0.954)	478728	23.0915	23.1	8989
76 TOTAL XYLENE	106				858097	72.6577	72.7	0
68 tert-butylbenzene	91	10.027	10.027	(0.972)	351250	24.7536	24.8	8731
69 1,2,4-Trimethylbenzene	105	10.053	10.054	(0.974)	579903	24.5680	24.6	
70 sec-Butylbenzene	105	10.166	10.166	(0.985)	776507	25.6043	25.6	
71 p-Isopropyltoluene	119	10.245	10.246	(0.993)	614903	25.5580	25.6	9264
72 1,3-Dichlorobenzene	146	10.279	10.279	(0.996)	327357	24.3206	24.3	
73 1,4-DICHLOROBENZENE-D4	152	10.318	10.319	(1.000)	418828	50.0000		9158
74 1,4-Dichlorobenzene	146	10.332	10.332	(1.001)	330483	25.7796	25.8	
75 n-Butylbenzene	91	10.517	10.517	(1.019)	566845	25.8724	25.9	9023
77 1,2-Dichlorobenzene	146	10.590	10.590	(1.026)	287497	24.1173	24.1	
78 1,2-Dibromo-3-Chloropropane	157	11.106	11.107	(1.076)	29675	21.4239	21.4	5652
79 1,2,4-Trichlorobenzene	180	11.689	11.689	(1.133)	178804	24.2248	24.2	
80 Hexachlorobutadiene	225	11.775	11.782	(1.141)	101357	27.3449	27.3	9758
81 Napthalene	128	11.887	11.888	(1.152)	365558	20.1009	20.1	9557
82 1,2,3-Trichlorobenzene	180	12.066	12.067	(1.169)	163444	23.5562	23.6	
97 Cyclohexane	56	6.061	6.061	(0.931)	281627	31.2749	31.3	3946
98 Methyl Acetate	43	4.306	4.313	(0.661)	104370	35.8840	35.9	1179(H)

QC Flag Legend

- Spike/Surrogate failed recovery limits.
- Operator selected an alternate compound hit.

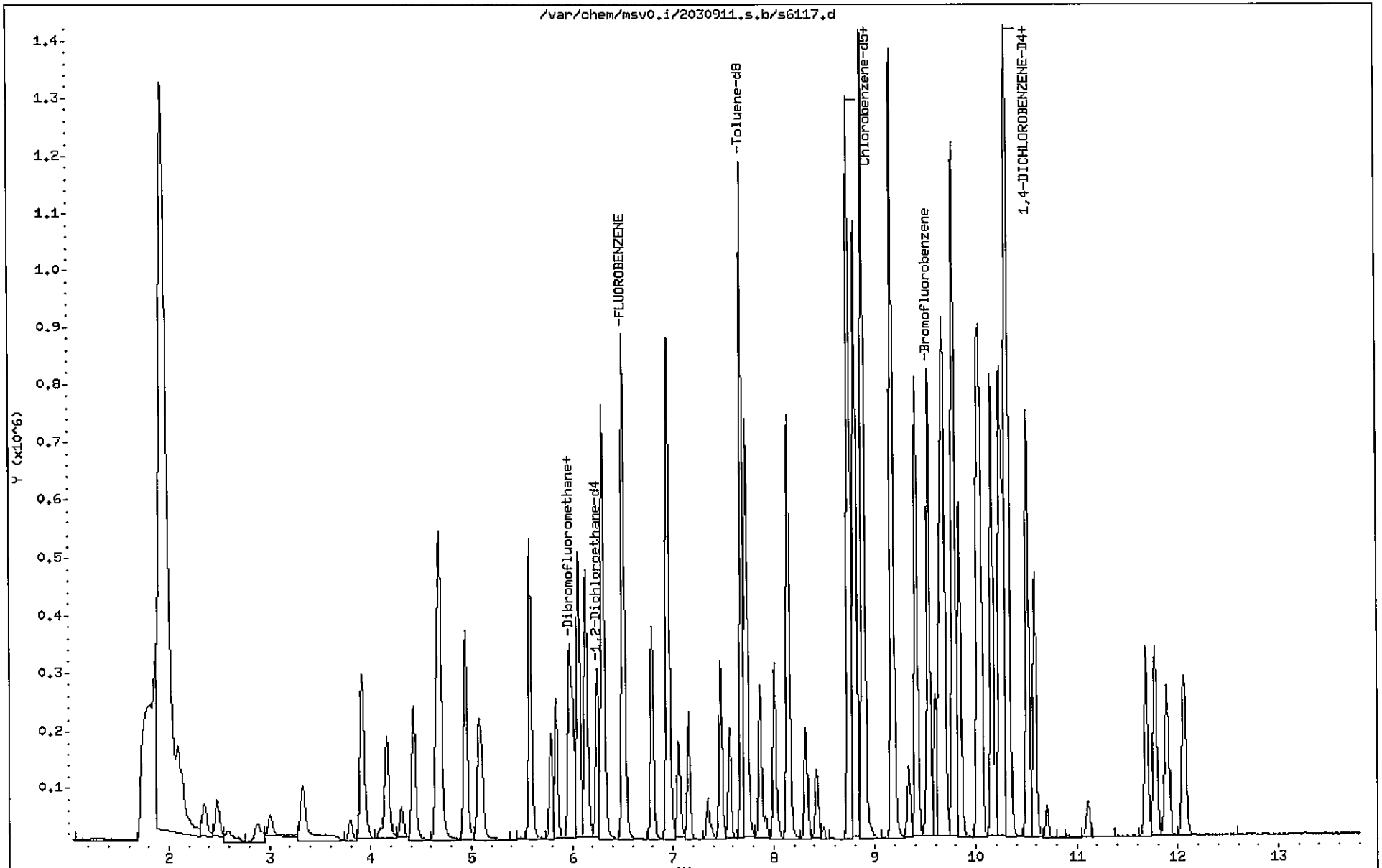
Data File: /var/chem/msv0.i/2030911.s.b/s6117.d
Date : 11-SEP-2003 10:16
Client ID: LCS for HBN 262311
Sample Info: 118484*LCS for HBN 262311[MSV/3678]

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000263



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2030911.s.b/s6118.d
Lab Smp Id: 118485 Client Smp ID: LCSD for HNB 262311
Inj Date : 11-SEP-2003 10:38
Operator : RSP Inst ID: msv0.i
Smp Info : 118485*LCSD for HNB 262311[MSV/3678]
Misc Info : MSV~3678~*1*RSP
Comment :
Method : /var/chem/msv0.i/2030911.s.b/8260Bs0.m
Meth Date : 11-Sep-2003 12:33 rsp Quant Type: ISTD
Cal Date : 09-SEP-2003 17:09 Cal File: s6068.d
Als bottle: 6 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
2 Chloromethane ++	50	2.347	2.340	(0.360)	138460	23.5926	23.6	6228
1 Dichlorodifluoromethane	85	2.135	2.129	(0.328)	66294	18.8415	18.8	2620
3 Vinyl Chloride +	62	2.479	2.473	(0.381)	112413	27.3444	27.3	4471
4 Bromomethane	94	2.883	2.857	(0.443)	57377	22.4061	22.4	6709
5 Chloroethane	64	3.009	2.996	(0.462)	62962	26.5611	26.6	3990
6 Trichlorofluoromethane	101	3.327	3.320	(0.511)	119097	30.1421	30.1	7931
7 Acrolein	56	3.804	3.797	(0.584)	53231	151.806	152	3497
9 1,1,2Trichlotrifluoroethane	101	3.923	3.916	(0.602)	100561	31.8030	31.8	1597
8 1,1-Dichloroethene +	96	3.916	3.910	(0.601)	88807	29.5565	29.6	8895
10 Acetone	43	3.969	3.963	(0.610)	45382	24.4447	24.4	6493
11 Methyl Iodide	142	4.088	4.082	(0.628)	70249	21.1048	21.1	9118
12 Carbon Disulfide	76	4.161	4.155	(0.639)	344286	27.7555	27.8	8769
13 Methylene Chloride	49	4.426	4.419	(0.680)	153541	30.4954	30.5	9079(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
14 Acrylonitrile	53	4.658	4.651	(0.715)	196164	145.515	146	6875
15 trans-1,2-Dichloroethene	61	4.691	4.684	(0.720)	145927	29.0027	29.0	8849
16 MTBE	73	4.691	4.684	(0.720)	281535	28.1410	28.1	3722
17 Hexane	57	4.949	4.942	(0.760)	168042	29.8780	29.9	3049(H)
19 Vinyl Acetate	43	4.942	4.942	(0.759)	107347	28.9100	28.9	
18 1,1-Dichloroethane ++	63	5.081	5.075	(0.780)	199755	27.8844	27.9	6057
22 2-Butanone	43	5.585	5.585	(0.858)	67287	22.4559	22.5	
29 Total 1,2-Dichloroethene	61				324696	53.8240	53.8	0
21 cis-1,2-Dichloroethene	61	5.585	5.585	(0.858)	178769	25.4164	25.4	8198
20 2,2-Dichloropropane	77	5.591	5.585	(0.859)	142666	26.9038	26.9	6866
23 Bromochloromethane	128	5.790	5.790	(0.889)	64581	29.1178	29.1	9325
24 Chloroform +	83	5.843	5.843	(0.897)	198997	25.6701	25.7	8645
25 Dibromofluoromethane	111	5.975	5.975	(0.918)	245725	52.8991	52.9	1412(H)
26 1,1,1-Trichloroethane	97	6.008	6.008	(0.923)	162016	28.4781	28.5	8826
27 1,1-Dichloropropene	75	6.141	6.134	(0.943)	171762	29.7274	29.7	6743
28 Carbon Tetrachloride	117	6.147	6.147	(0.944)	130477	29.6994	29.7	8811
30 1,2-Dichloroethane-d4	67	6.253	6.253	(0.960)	122212	50.6950	50.7	9624
32 1,2-Dichloroethane	62	6.313	6.306	(0.969)	153916	29.3252	29.3	6411
31 Benzene	78	6.306	6.306	(0.968)	595772	29.5504	29.6	8416
33 FLUOROBENZENE	96	6.511	6.512	(1.000)	924901	50.0000		9562
34 Trichloroethene	130	6.796	6.796	(1.044)	155816	30.0374	30.0	8794
35 1,2-Dichloropropane +	63	6.962	6.962	(1.069)	161941	29.7160	29.7	7841
38 2-Chloroethyl vinyl ether	63	7.346	7.346	(1.128)	71749	29.4097	29.4	6759
36 Dibromomethane	93	7.061	7.061	(1.084)	82074	29.5972	29.6	9254
37 Bromodichloromethane	83	7.160	7.160	(1.100)	179583	29.5516	29.6	9737
127 Methyl cyclohexane	83	6.955	6.949	(1.068)	266605	32.4703	32.5	4006
39 cis-1,3-Dichloropropene	75	7.485	7.478	(1.149)	224217	29.1649	29.2	
40 4-methyl-2-pentanone	43	7.571	7.571	(1.163)	162761	28.5411	28.5	
41 Toluene-d8	98	7.690	7.690	(0.880)	987698	44.4904	44.5	8258
42 Toluene +	91	7.736	7.737	(0.885)	623334	23.3550	23.4	8836
43 trans-1,3-Dichloropropene	75	7.869	7.869	(0.900)	188874	22.6938	22.7	
44 1,1,2-Trichloroethane	97	8.014	8.015	(0.917)	127447	22.8005	22.8	8165
45 1,3-Dichloropropane	76	8.140	8.140	(0.931)	224345	22.8510	22.9	8575
47 2-Hexanone	43	8.160	8.160	(0.933)	128167	23.4960	23.5	7295
46 Tetrachloroethene	164	8.147	8.147	(0.932)	114617	23.9902	24.0	9321
48 Dibromochloromethane	129	8.326	8.326	(0.952)	138657	22.6835	22.7	9013
49 1,2-Dibromoethane(EDB)	107	8.425	8.425	(0.964)	121968	22.2722	22.3	5533
50 Chlorobenzene-d5	82	8.743	8.743	(1.000)	463273	50.0000		8425
51 Chlorobenzene ++	112	8.763	8.763	(1.002)	412657	23.4031	23.4	8916
52 1,1,1,2-Tetrachloroethane	133	8.809	8.809	(1.008)	128375	23.4296	23.4	9326
53 Ethylbenzene +	106	8.816	8.816	(1.008)	217159	23.5778	23.6	9229
54 p,m-Xylene	106	8.895	8.889	(1.017)	576918	47.6355	47.6	9066
55 o-Xylene	106	9.173	9.173	(1.049)	271444	23.5563	23.6	
56 Styrene	104	9.180	9.180	(1.050)	476663	23.4066	23.4	8982
57 Bromoform ++	173	9.345	9.339	(1.069)	82935	22.7443	22.7	8487
58 Isopropylbenzene	105	9.418	9.412	(1.077)	688427	23.7804	23.8	9119
59 Bromofluorobenzene	174	9.537	9.544	(1.091)	311576	47.5944	47.6	8934

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
60 1,1,2,2-Tetrachloroethane++	83	9.603	9.604	(0.931)	175955	22.8520	22.9	9518
61 trans-1,4-Dichloro-2-Butene	53	9.637	9.630	(0.934)	42120	23.2334	23.2	7290
62 1,2,3-Trichloropropane	75	9.650	9.650	(0.935)	208138	23.5514	23.6	7370
63 Bromobenzene	77	9.663	9.663	(0.936)	366972	23.8304	23.8	8172
64 n-Propylbenzene	91	9.690	9.690	(0.939)	790113	24.4779	24.5	9168
65 2-Chlorotoluene	91	9.782	9.782	(0.948)	495100	24.0876	24.1	9213
66 1,3,5-Trimethylbenzene	105	9.795	9.796	(0.949)	559472	23.9982	24.0	
67 4-Chlorotoluene	91	9.848	9.849	(0.954)	477665	22.9409	22.9	9035
76 TOTAL XYLENE	106				848362	71.1918	71.2	0
68 tert-butylbenzene	91	10.027	10.027	(0.972)	344028	24.1401	24.1	8715
69 1,2,4-Trimethylbenzene	105	10.054	10.054	(0.974)	575820	24.2898	24.3	
70 sec-Butylbenzene	105	10.166	10.166	(0.985)	757071	24.8558	24.9	
71 p-Isopropyltoluene	119	10.246	10.246	(0.993)	598702	24.7773	24.8	9259
72 1,3-Dichlorobenzene	146	10.279	10.279	(0.996)	316885	23.4410	23.4	
73 1,4-DICHLOROBENZENE-D4	152	10.319	10.319	(1.000)	420642	50.0000		9130
74 1,4-Dichlorobenzene	146	10.332	10.332	(1.001)	326637	25.3697	25.4	
75 n-Butylbenzene	91	10.517	10.517	(1.019)	559044	25.4063	25.4	9037
77 1,2-Dichlorobenzene	146	10.590	10.590	(1.026)	288989	24.1379	24.1	
78 1,2-Dibromo-3-Chloropropane	157	11.106	11.107	(1.076)	31623	22.7318	22.7	5656
79 1,2,4-Trichlorobenzene	180	11.689	11.689	(1.133)	183958	24.8156	24.8	
80 Hexachlorobutadiene	225	11.775	11.782	(1.141)	96909	26.0321	26.0	9785
81 Napthalene	128	11.888	11.888	(1.152)	472143	25.8497	25.8	9699
82 1,2,3-Trichlorobenzene	180	12.066	12.067	(1.169)	173021	24.8290	24.8	
97 Cyclohexane	56	6.061	6.061	(0.931)	265698	30.3927	30.4	4086
98 Methyl Acetate	43	4.320	4.313	(0.663)	80266	27.3410	27.3	1179(H)

QC Flag Legend

+ - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

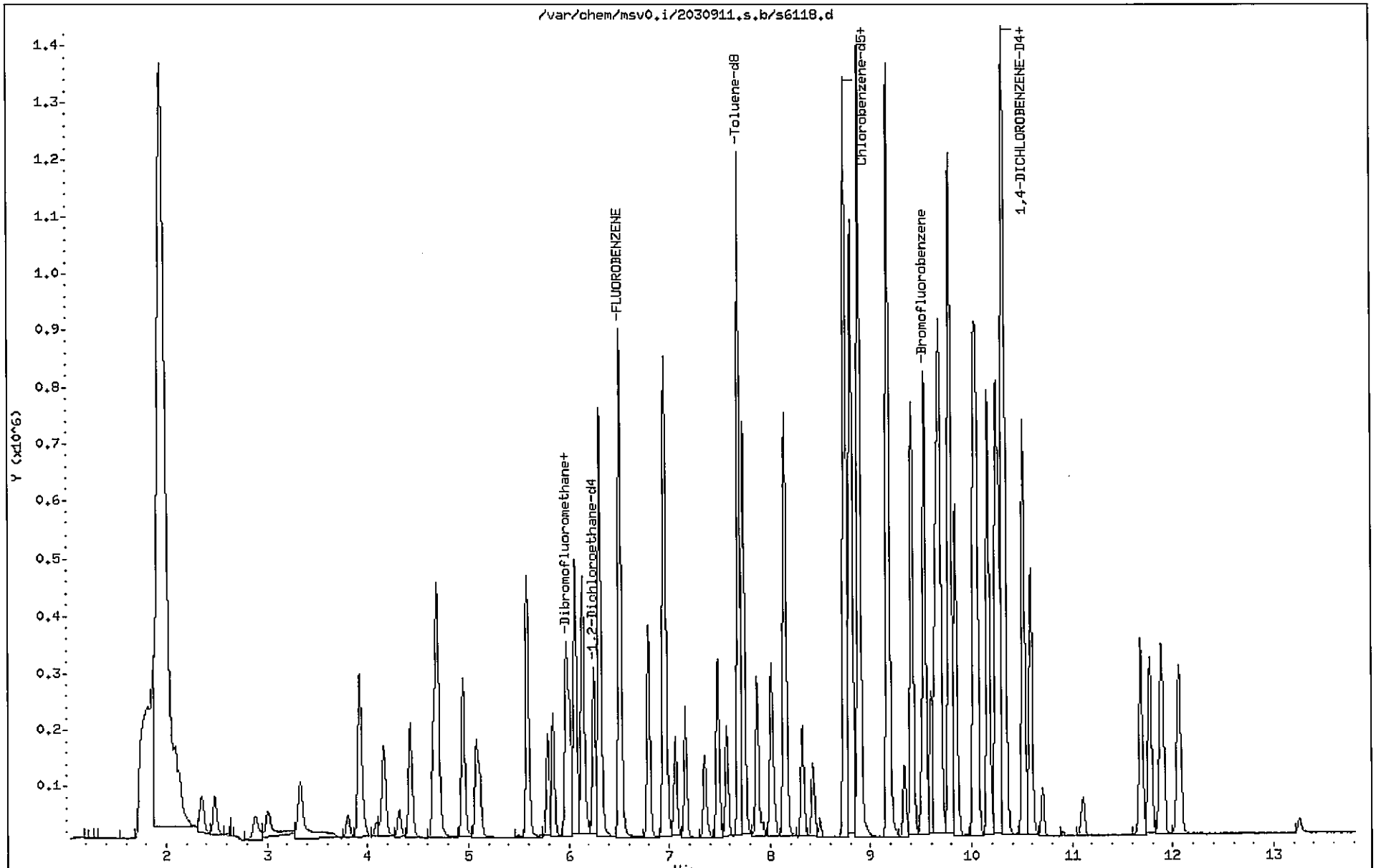
Data File: /var/chem/msv0.i/2030911.s.b/s6118.d
Date : 11-SEP-2003 10:38
Client ID: LCSD for HNB 262311
Sample Info: 118485*LCSD for HNB 262311[HSV/3678]

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000267



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030910.s.b/s8275.d
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Inj Date : 10-SEP-2003 09:55
Operator : HJL Inst ID: msv2.i
Smp Info : 118232*LCS for HBN 262245 [MSV/3670]
Misc Info : MSV~3670~*1*RSP
Comment :
Method : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
Meth Date : 10-Sep-2003 14:43 rsp Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.474	1.470	(0.249)	121008	22.0070	22.0
23 Hexane	57	4.123	4.119	(0.695)	184119	26.6785	26.7
2 Chloromethane ++	50	1.658	1.714	(0.280)	178757	26.8163	26.8(M)
3 Vinyl Chloride +	62	1.731	1.727	(0.292)	142471	27.5620	27.6
5 Bromomethane	94	2.027	2.017	(0.342)	63707	33.0676	33.1
6 Chloroethane	64	2.113	2.116	(0.356)	61178	33.0979	33.1
7 Trichlorofluoromethane	101	2.370	2.367	(0.400)	132463	23.9473	23.9
10 1,1-Dichloroethene +	96	2.910	2.907	(0.491)	107483	29.4062	29.4
11 1,1,2Trichlotrifluoroethane	101	2.917	2.920	(0.492)	120212	25.5653	25.6
12 Acetone	43	2.956	2.960	(0.499)	46933	27.3141	27.3
13 Methyl Iodide	142	3.068	3.065	(0.518)	201338	28.9277	28.9
14 Carbon Disulfide	76	3.147	3.151	(0.531)	431549	27.1133	27.1(M)
18 Methylene Chloride	49	3.470	3.467	(0.585)	173858	28.6213	28.6
20 Acrylonitrile	53	3.747	3.750	(0.632)	226644	153.666	154
21 trans-1,2-Dichloroethene	61	3.800	3.796	(0.641)	163252	27.7589	27.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
15 Methyl Acetate	43	3.371	3.362	(0.569)	97563	32.3115	32.3
9 Acrolein	56	2.785	2.788	(0.470)	70989	159.481	159
22 MTBE	73	3.813	3.810	(0.643)	297326	26.7766	26.8
24 1,1-Dichloroethane ++	63	4.248	4.251	(0.717)	224264	25.9967	26.0
25 Vinyl Acetate	43	4.123	4.119	(0.695)	118805	27.0931	27.1
30 2,2-Dichloropropane	77	4.847	4.844	(0.818)	182658	24.4059	24.4
31 cis-1,2-Dichloroethene	61	4.847	4.851	(0.818)	236845	25.7760	25.8
32 2-Butanone	43	4.867	4.871	(0.821)	84144	27.3327	27.3
36 Bromochloromethane	128	5.078	5.075	(0.857)	68502	26.1361	26.1
37 Chloroform +	83	5.157	5.160	(0.870)	240777	22.7823	22.8
38 Dibromofluoromethane	111	5.309	5.305	(0.896)	287501	53.7229	53.7
39 1,1,1-Trichloroethane	97	5.335	5.332	(0.900)	174358	24.0272	24.0
42 1,1-Dichloropropene	75	5.493	5.490	(0.927)	184322	24.0738	24.1
43 Carbon Tetrachloride	117	5.493	5.497	(0.927)	120997	23.8047	23.8
44 1,2-Dichloroethane-d4	67	5.612	5.615	(0.947)	162851	51.4086	51.4
45 Benzene	78	5.678	5.674	(0.958)	640281	25.3546	25.4
46 1,2-Dichloroethane	62	5.684	5.681	(0.959)	188980	25.9835	26.0
47 FLUOROBENZENE	96	5.928	5.925	(1.000)	1176239	50.0000	
48 Trichloroethene	130	6.251	6.248	(1.054)	126235	24.5468	24.5
49 Methyl Cyclohexane	83	6.422	6.426	(1.083)	273142	23.6013	23.6
50 1,2-Dichloropropane +	63	6.429	6.432	(1.084)	182031	25.9372	25.9
51 Dibromomethane	93	6.528	6.531	(1.101)	94026	25.2736	25.3
54 Bromodichloromethane	83	6.660	6.663	(1.123)	199656	23.1922	23.2
55 2-Chloroethyl vinyl ether	63	6.910	6.907	(1.166)	108614	28.5070	28.5
56 cis-1,3-Dichloropropene	75	7.035	7.032	(1.187)	257828	24.4925	24.5
57 4-methyl-2-pentanone	43	7.154	7.150	(1.207)	164768	26.5399	26.5
58 Toluene-d8	98	7.266	7.262	(0.862)	1094343	53.1601	53.2
59 Toluene +	91	7.318	7.322	(0.868)	651684	24.5007	24.5
60 trans-1,3-Dichloropropene	75	7.483	7.480	(0.887)	226037	24.1730	24.2
62 1,1,2-Trichloroethane	97	7.628	7.631	(0.905)	139619	24.1967	24.2
64 1,3-Dichloropropane	76	7.767	7.770	(0.921)	260922	24.6547	24.7
65 Tetrachloroethene	164	7.773	7.776	(0.922)	119519	23.5328	23.5
66 2-Hexanone	43	7.826	7.823	(0.928)	127244	25.1128	25.1
68 Dibromochloromethane	129	7.958	7.961	(0.944)	121369	23.9123	23.9
69 1,2-Dibromoethane(EDB)	107	8.056	8.060	(0.955)	135684	24.4884	24.5
70 CHLOROBENZENE-d5	82	8.432	8.429	(1.000)	498985	50.0000	
71 Chlorobenzene ++	112	8.452	8.455	(1.002)	416272	24.7428	24.7
72 1,1,1,2-Tetrachloroethane	133	8.511	8.508	(1.009)	113081	24.6818	24.7
73 Ethylbenzene +	106	8.531	8.534	(1.012)	214710	23.4906	23.5
74 p,m-Xylene	106	8.623	8.626	(1.023)	575791	47.6997	47.7
76 o-Xylene	106	8.946	8.943	(1.061)	275459	23.8975	23.9
77 Styrene	104	8.953	8.949	(1.062)	503709	23.9445	23.9
78 Bromoform ++	173	9.104	9.101	(1.080)	101383	23.7869	23.8
79 Isopropylbenzene	105	9.229	9.226	(1.095)	714865	23.8660	23.9
81 Bromofluorobenzene	174	9.361	9.358	(0.913)	361035	50.9567	51.0
84 1,1,2,2-Tetrachloroethane++	83	9.440	9.437	(0.921)	221483	26.3866	26.4
85 trans-1,4-Dichloro-2-Butene	53	9.480	9.476	(0.925)	54714	28.3119	28.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ug/L)
86	1,2,3-Trichloropropane	75	9.480	9.483	(0.925)	266121	26.8996	26.9
87	Bromobenzene	77	9.486	9.483	(0.925)	446171	25.8578	25.9
75	Total 1,2-Dichloroethene	61				400097	53.5349	53.5
88	n-Propylbenzene	91	9.559	9.556	(0.932)	872461	24.1532	24.2
89	2-Chlorotoluene	91	9.638	9.641	(0.940)	539235	27.1663	27.2(M)
90	1,3,5-Trimethylbenzene	105	9.677	9.681	(0.944)	374039	23.9676	24.0
91	4-Chlorotoluene	91	9.724	9.720	(0.949)	572076	24.6664	24.7
92	tert-butylbenzene	91	9.941	9.938	(0.970)	365320	24.5452	24.5
93	1,2,4-Trimethylbenzene	105	9.967	9.964	(0.972)	360531	24.7026	24.7
96	sec-Butylbenzene	105	10.106	10.102	(0.986)	752613	24.1974	24.2
97	p-Isopropyltoluene	119	10.198	10.201	(0.995)	448326	23.7731	23.8
98	1,3-Dichlorobenzene	146	10.205	10.201	(0.996)	315965	25.5734	25.6
99	1,4-DICHLOROBENZENE-D4	152	10.251	10.247	(1.000)	419936	50.0000	
100	1,4-Dichlorobenzene	146	10.264	10.261	(1.001)	321374	24.6887	24.7
101	n-Butylbenzene	91	10.488	10.491	(1.023)	423946	23.8364	23.8
102	1,2-Dichlorobenzene	146	10.534	10.537	(1.028)	287970	24.4085	24.4
103	1,2-Dibromo-3-Chloropropane	157	11.055	11.058	(1.078)	42330	27.1447	27.1
105	1,2,4-Trichlorobenzene	180	11.608	11.618	(1.132)	189660	28.6329	28.6
106	Hexachlorobutadiene	225	11.714	11.717	(1.143)	120197	26.3518	26.4
107	Napthalene	128	11.779	11.789	(1.149)	399902	31.3632	31.4
108	1,2,3-Trichlorobenzene	180	11.944	11.954	(1.165)	188285	29.0382	29.0
109	TOTAL XYLENE	106				851250	71.5971	71.6
40	Cyclohexane	56	5.394	5.391	(0.910)	281614	23.1790	23.2

QC Flag Legend

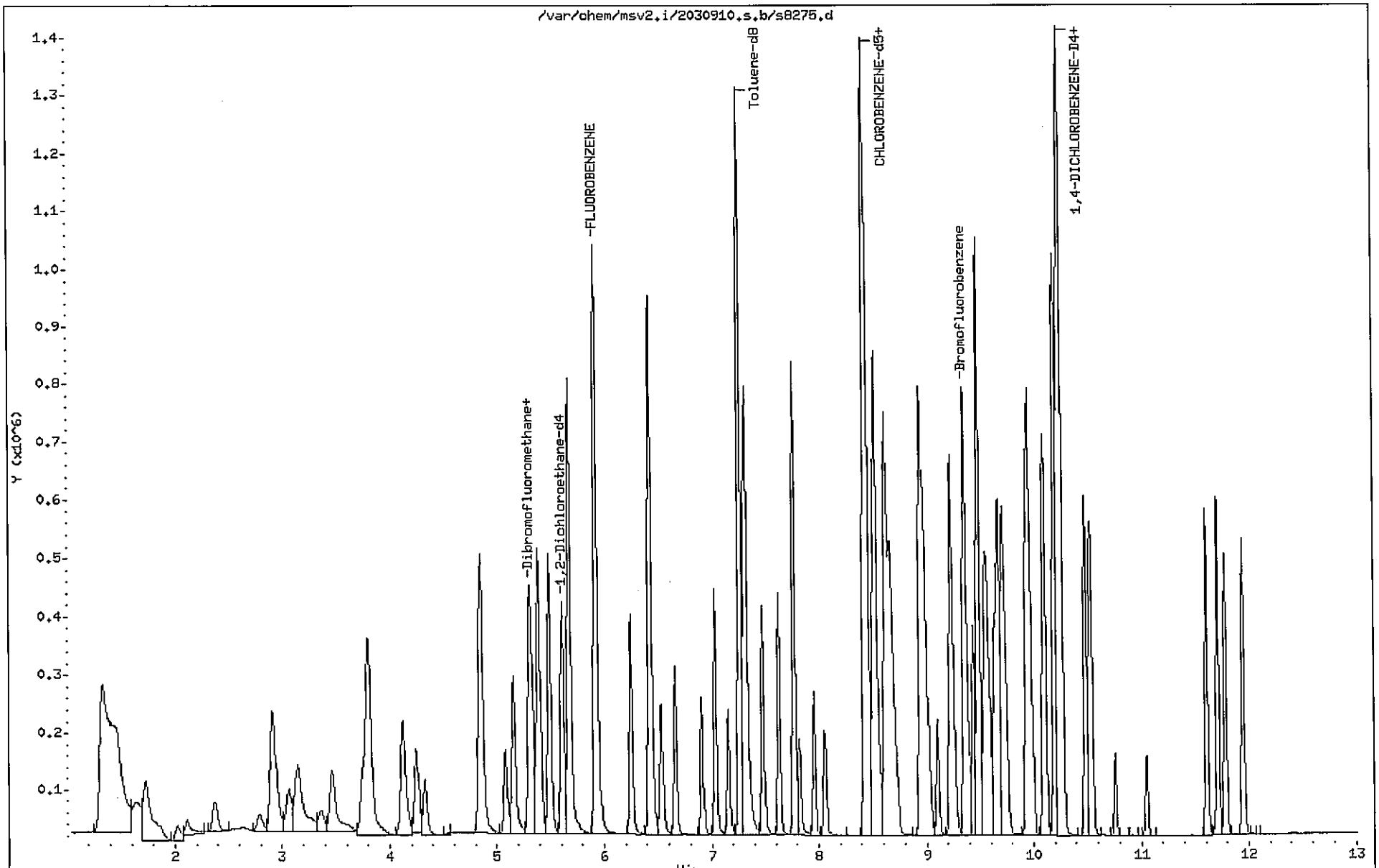
M - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030910.s.b/s8275.d
Date : 10-SEP-2003 09:55
Client ID: LCS for HBN 262245
Sample Info: 118232*LCS for HBN 262245 [MSV/3670]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000271



ata file : /var/chem/msv2.i/2030910.s.b/s8275.d
eport Date: 09/10/2003 15:28

MANUAL INTEGRATION GRAPHIC REPORT

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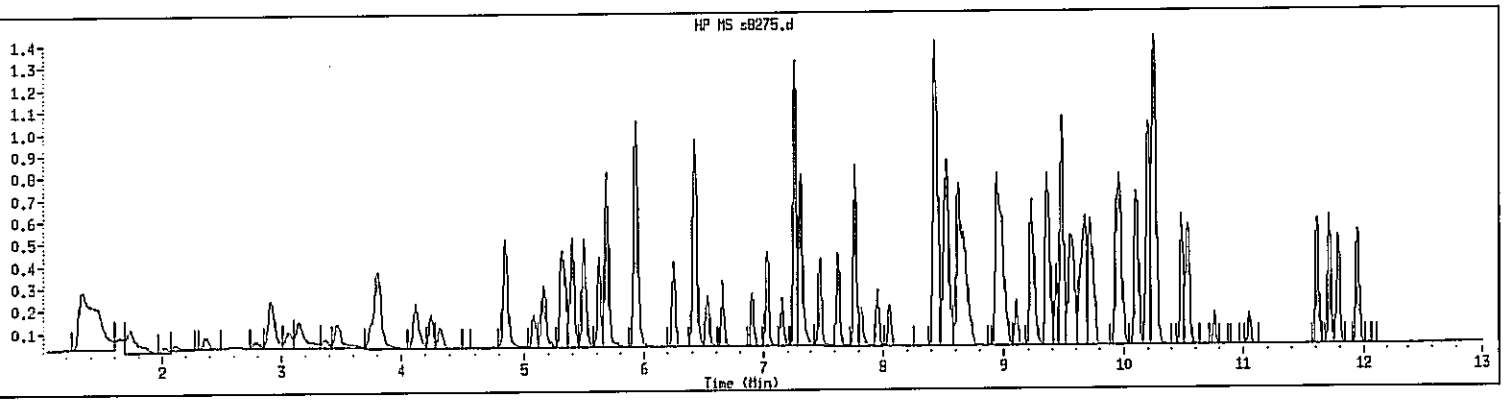
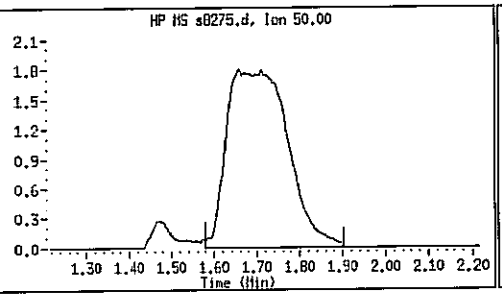
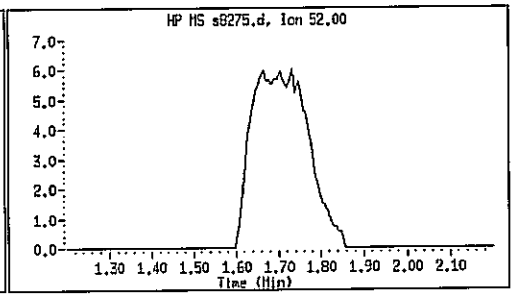
njection Date: 10-SEP-2003 09:55 Instrument : msv2.i
perator : HJL
ample Info : 118232*LCS for HBN 262245 [MSV/3670]
isc Info : MSV~3670~*1*RSP
ethod : /var/chem/msv2.i/2030910.s.b/8260Bw2.m
ilution : 1.0
atrix : WATER
ntegrator : HP RTE Compound Sublist: 8260B



CONCENTRATIONS

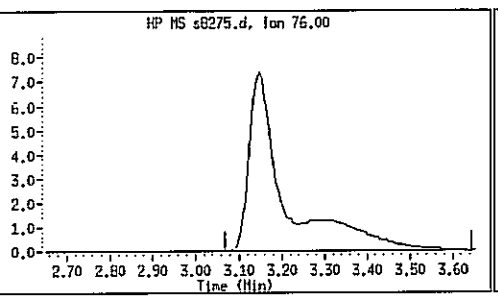
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
2 Chloromethane ++			CAS#: 74-87-3				
.658	0.280	50	178757	27	27	80-120	100
.701	0.287	52	0			26- 38	0

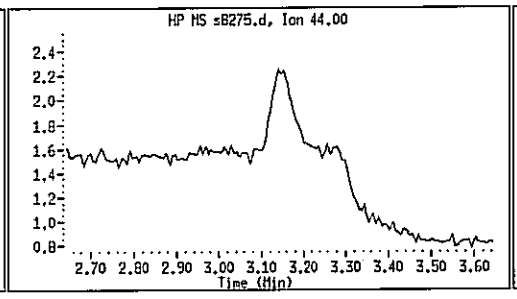


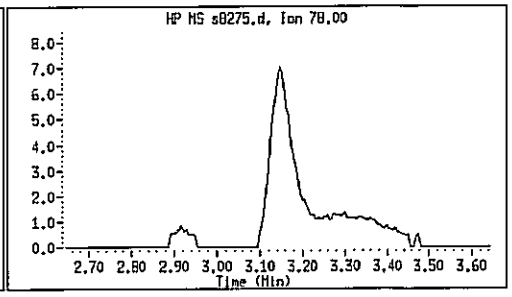


CONCENTRATIONS

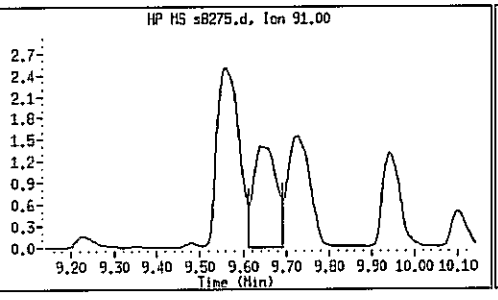
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
14 Carbon Disulfide				CAS#: 75-15-0			
.147	0.531	76	431549	27	27	80-120	100
.144	0.530	44	0			19- 28	0
.144	0.530	78	0			7- 11	0

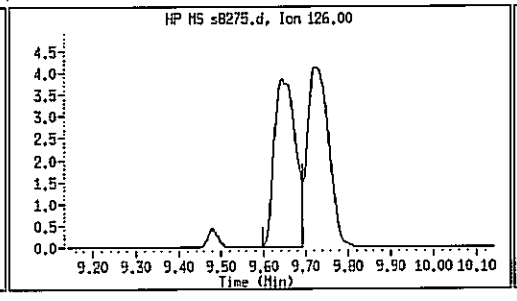


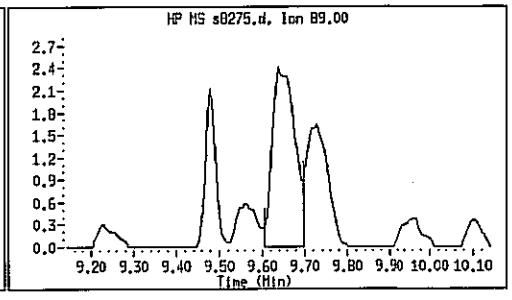




89 2-Chlorotoluene				CAS#: 95-49-8			
.638	0.940	91	539235	27	27	80-120	100
.645	0.941	126	134749			31- 46	25
.638	0.940	89	90266			20- 31	17







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030911.s.b/s8295.d
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Inj Date : 11-SEP-2003 08:54
Operator : HJL Inst ID: msv2.i
Smp Info : 118440*LCS for HBN 262301 [MSV/3677]
Misc Info : MSV~3677~*50*RSP
Comment :
Method : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
Meth Date : 11-Sep-2003 08:56 hjl Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
1 Dichlorodifluoromethane	85	1.474	1.473	(0.249)	86073	15.3099	765
23 Hexane	57	4.123	4.122	(0.695)	202058	28.6350	1430
2 Chloromethane ++	50	1.665	1.658	(0.281)	148506	21.7890	1090
3 Vinyl Chloride +	62	1.731	1.730	(0.292)	133515	25.2623	1260
5 Bromomethane	94	2.027	2.027	(0.342)	60039	30.4795	1520
6 Chloroethane	64	2.113	2.112	(0.356)	55185	29.2002	1460
7 Trichlorofluoromethane	101	2.370	2.369	(0.400)	142999	25.5503	1280
10 1,1-Dichloroethene +	96	2.910	2.910	(0.491)	111185	29.7511	1490
11 1,1,2Trichlotrifluoroethane	101	2.917	2.923	(0.492)	130365	27.1158	1360
12 Acetone	43	2.976	2.962	(0.502)	44951	25.5862	1280
13 Methyl Iodide	142	3.069	3.068	(0.518)	205434	28.8681	1440
14 Carbon Disulfide	76	3.148	3.153	(0.531)	429079	26.3662	1320
18 Methylene Chloride	49	3.471	3.470	(0.585)	192505	31.2714	1560(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
20 Acrylonitrile	53	3.754	3.753	(0.633)	231299	153.379	7670
21 trans-1,2-Dichloroethene	61	3.800	3.799	(0.641)	165762	27.5668	1380
15 Methyl Acetate	43	3.365	3.371	(0.568)	94823	30.7146	1540
9 Acrolein	56	2.785	2.791	(0.470)	72274	158.802	7940
22 MTBE	73	3.820	3.819	(0.644)	303015	26.6898	1330
24 1,1-Dichloroethane ++	63	4.255	4.254	(0.718)	226330	25.6602	1280
25 Vinyl Acetate	43	4.123	4.122	(0.695)	130051	29.0066	1450
30 2,2-Dichloropropane	77	4.848	4.847	(0.818)	189108	24.7129	1240
31 cis-1,2-Dichloroethene	61	4.848	4.853	(0.818)	239177	25.4583	1270
32 2-Butanone	43	4.874	4.873	(0.822)	82187	26.1108	1310
36 Bromochloromethane	128	5.085	5.077	(0.858)	69706	26.0169	1300
37 Chloroform +	83	5.164	5.157	(0.871)	250006	23.1362	1160
38 Dibromofluoromethane	111	5.309	5.308	(0.896)	294397	53.8036	2690
39 1,1,1-Trichloroethane	97	5.335	5.334	(0.900)	184460	24.8612	1240
42 1,1-Dichloropropene	75	5.493	5.493	(0.927)	193770	24.7522	1240
43 Carbon Tetrachloride	117	5.500	5.499	(0.928)	129348	24.8889	1240
44 1,2-Dichloroethane-d4	67	5.619	5.611	(0.948)	167494	51.7134	2590
45 Benzene	78	5.678	5.677	(0.958)	651560	25.2348	1260
46 1,2-Dichloroethane	62	5.685	5.684	(0.959)	193753	26.0549	1300
47 FLUOROBENZENE	96	5.928	5.927	(1.000)	1202644	50.0000	
48 Trichloroethene	130	6.251	6.250	(1.054)	130659	24.8493	1240
49 Methyl Cyclohexane	83	6.429	6.422	(1.084)	302332	25.5499	1280
50 1,2-Dichloropropane +	63	6.436	6.435	(1.086)	186196	25.9482	1300
51 Dibromomethane	93	6.535	6.534	(1.102)	96829	25.4556	1270
54 Bromodichloromethane	83	6.666	6.665	(1.124)	205962	23.3994	1170
55 2-Chloroethyl vinyl ether	63	6.910	6.909	(1.166)	106874	27.6233	1380
56 cis-1,3-Dichloropropene	75	7.035	7.034	(1.187)	265352	24.6538	1230
57 4-methyl-2-pentanone	43	7.154	7.153	(1.207)	168904	26.6088	1330
58 Toluene-d8	98	7.266	7.265	(0.862)	1142343	53.1497	2660
59 Toluene +	91	7.319	7.318	(0.868)	679961	24.4848	1220
60 trans-1,3-Dichloropropene	75	7.483	7.483	(0.887)	237214	24.2975	1210
62 1,1,2-Trichloroethane	97	7.635	7.634	(0.905)	144935	24.0578	1200
64 1,3-Dichloropropane	76	7.773	7.766	(0.922)	270838	24.5115	1230
65 Tetrachloroethene	164	7.773	7.772	(0.922)	128898	24.3082	1220
66 2-Hexanone	43	7.826	7.825	(0.928)	128662	24.3209	1220
68 Dibromochloromethane	129	7.958	7.964	(0.944)	126140	23.8033	1190
69 1,2-Dibromoethane(EDB)	107	8.063	8.062	(0.956)	138376	23.9202	1200
70 CHLOROBENZENE-d5	82	8.432	8.431	(1.000)	520974	50.0000	
71 Chlorobenzene ++	112	8.459	8.458	(1.003)	429808	24.4691	1220
72 1,1,1,2-Tetrachloroethane	133	8.511	8.511	(1.009)	116269	24.3065	1220
73 Ethylbenzene +	106	8.531	8.530	(1.012)	209403	21.9430	1100
74 p,m-Xylene	106	8.623	8.629	(1.023)	580887	46.0907	2300
76 o-Xylene	106	8.946	8.945	(1.061)	262407	21.8043	1090
77 Styrene	104	8.953	8.952	(1.062)	488215	22.2284	1110
78 Bromoform ++	173	9.104	9.104	(1.080)	103774	23.3202	1170
79 Isopropylbenzene	105	9.230	9.229	(1.095)	729588	23.3295	1170
81 Bromofluorobenzene	174	9.361	9.361	(0.914)	369487	58.6024	2930

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
84 1,1,2,2-Tetrachloroethane++	83	9.441	9.440	(0.922)	222691	29.8132	1490
85 trans-1,4-Dichloro-2-Butene	53	9.480	9.479	(0.925)	53624	31.1813	1560
86 1,2,3-Trichloropropane	75	9.487	9.486	(0.926)	266923	30.3191	1520
87 Bromobenzene	77	9.487	9.486	(0.926)	455948	29.6940	1480
75 Total 1,2-Dichloroethene	61				404939	53.0251	2650
88 n-Propylbenzene	91	9.553	9.558	(0.932)	826226	25.7034	1290
89 2-Chlorotoluene	91	9.638	9.644	(0.941)	472091	26.7265	1340(M)
90 1,3,5-Trimethylbenzene	105	9.678	9.677	(0.945)	325640	23.4481	1170
91 4-Chlorotoluene	91	9.717	9.716	(0.949)	508831	24.6541	1230
92 tert-butylbenzene	91	9.941	9.940	(0.970)	346412	26.1547	1310
93 1,2,4-Trimethylbenzene	105	9.968	9.967	(0.973)	316595	24.3763	1220
96 sec-Butylbenzene	105	10.106	10.099	(0.986)	692523	25.0204	1250
97 p-Isopropyltoluene	119	10.192	10.197	(0.995)	385400	22.9651	1150
98 1,3-Dichlorobenzene	146	10.205	10.204	(0.996)	277482	25.2376	1260
99 1,4-DICHLOROBENZENE-D4	152	10.244	10.250	(1.000)	373697	50.0000	
100 1,4-Dichlorobenzene	146	10.264	10.263	(1.002)	297837	25.7116	1290
101 n-Butylbenzene	91	10.488	10.487	(1.024)	363054	22.9385	1150
102 1,2-Dichlorobenzene	146	10.541	10.533	(1.029)	258728	24.6434	1230
103 1,2-Dibromo-3-Chloropropane	157	11.061	11.054	(1.080)	41081	29.6034	1480
105 1,2,4-Trichlorobenzene	180	11.615	11.607	(1.134)	189700	32.1825	1610
106 Hexachlorobutadiene	225	11.720	11.713	(1.144)	112530	27.7235	1390
107 Napthalene	128	11.786	11.785	(1.151)	386772	34.0867	1700
108 1,2,3-Trichlorobenzene	180	11.951	11.950	(1.167)	189334	32.8131	1640
109 TOTAL XYLENE	106				843294	67.8950	3390
40 Cyclohexane	56	5.395	5.394	(0.910)	309095	24.8823	1240

QC Flag Legend

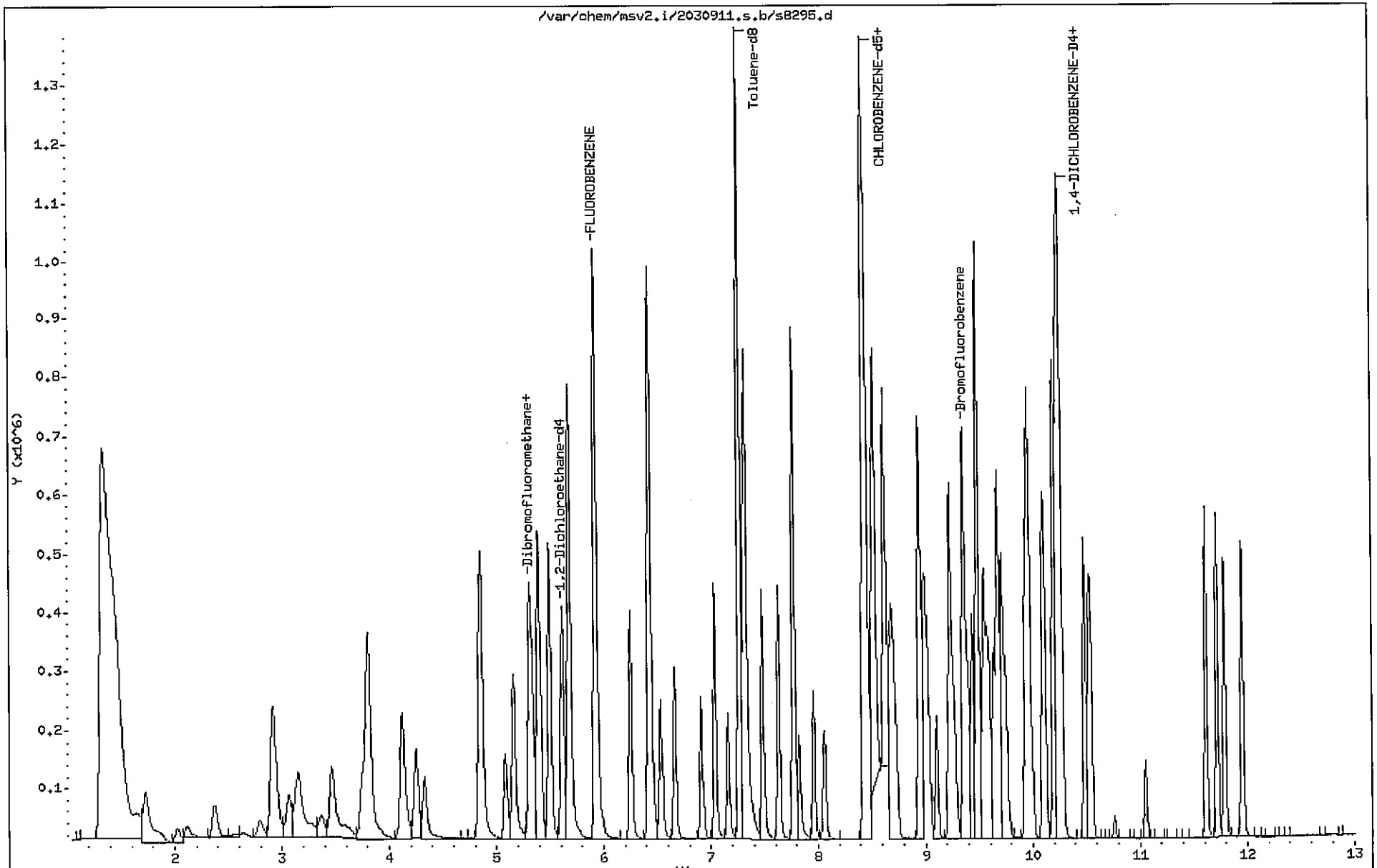
- Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030911.s.b/s8295.d
Date : 11-SEP-2003 08:54
Client ID: LCS for HBN 262301
Sample Info: 118440*LCS for HBN 262301 [MSV/3677]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000277

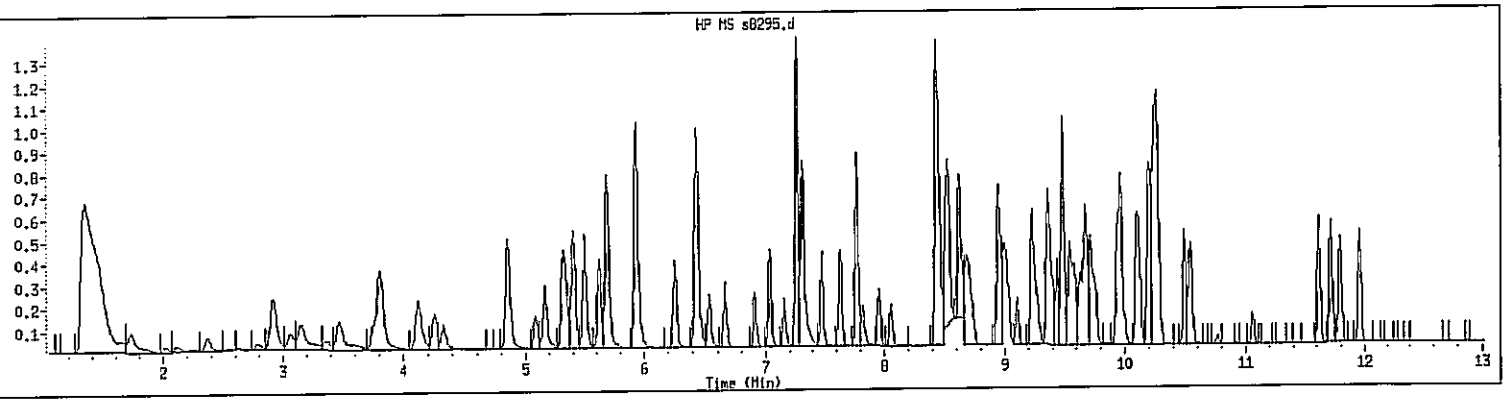


Data file : /var/chem/msv2.i/2030911.s.b/s8295.d
Report Date: 09/11/2003 09:53

MANUAL INTEGRATION GRAPHIC REPORT

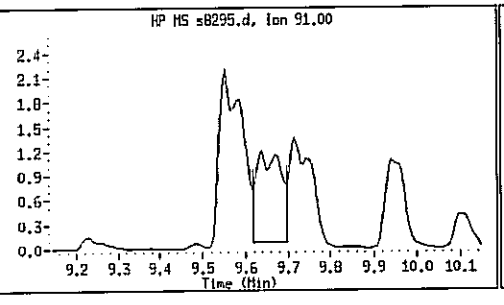
Lab ID : 118440
Injection Date: 11-SEP-2003 08:54
Operator : HJL
Sample Info : 118440*LCS for HBN 262301 [MSV/3677]
Misc Info : MSV~3677~*50*RSP
Method : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
Dilution : 50.0
Matrix : SOIL
Integrator : HP RTE

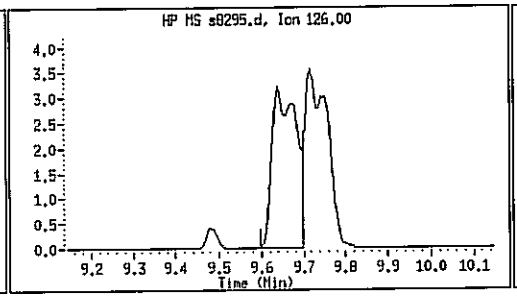
SampleType : LCS
Instrument : msv2.i
Compound Sublist: 8260B

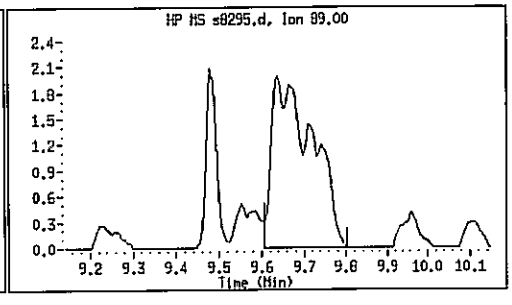


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 2-Chlorotoluene			CAS#: 95-49-8				
9.638	0.941	91	472091	27	1336	80-120	100
9.638	0.941	126	128818			30- 44	27
9.638	0.941	89	135067			20- 30	29







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2030911.s.b/s8296.d
Lab Smp Id: 118441 Client Smp ID: LCSD for HBN 262301
Inj Date : 11-SEP-2003 09:15
Operator : HJL Inst ID: msv2.i
Smp Info : 1184441*LCSD for HBN 262301 [MSV/3677]
Misc Info : MSV~3677~*50*RSP
Comment :
Method : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
Meth Date : 11-Sep-2003 08:56 hjl Quant Type: ISTD
Cal Date : 27-AUG-2003 12:26 Cal File: s7796.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260B.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
1 Dichlorodifluoromethane	85	1.473	1.473	(0.248)	83745	15.1555	758
23 Hexane	57	4.122	4.122	(0.695)	196866	28.3856	1420
2 Chloromethane ++	50	1.677	1.658	(0.283)	143827	21.4705	1070
3 Vinyl Chloride +	62	1.736	1.730	(0.293)	129182	24.8686	1240
5 Bromomethane	94	2.026	2.027	(0.342)	57929	29.9210	1500
6 Chloroethane	64	2.112	2.112	(0.356)	56290	30.3042	1520
7 Trichlorofluoromethane	101	2.375	2.369	(0.401)	138983	25.2126	1260
10 1,1-Dichloroethene +	96	2.916	2.910	(0.492)	106899	29.1030	1460
11 1,1,2Trichlotrifluoroethane	101	2.922	2.923	(0.493)	125355	26.5283	1330
12 Acetone	43	2.975	2.962	(0.502)	46785	27.0944	1350
13 Methyl Iodide	142	3.067	3.068	(0.518)	196739	28.1283	1410
14 Carbon Disulfide	76	3.153	3.153	(0.532)	414076	25.8879	1290
18 Methylene Chloride	49	3.476	3.470	(0.586)	180770	29.7286	1490

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
20 Acrylonitrile	53	3.759	3.753	(0.634)	224874	151.719	7590
21 trans-1,2-Dichloroethene	61	3.799	3.799	(0.641)	159063	26.9140	1350
15 Methyl Acetate	43	3.370	3.371	(0.569)	91092	30.0205	1500
9 Acrolein	56	2.791	2.791	(0.471)	68714	153.613	7680
22 MTBE	73	3.818	3.819	(0.644)	296859	26.6035	1330
24 1,1-Dichloroethane ++	63	4.253	4.254	(0.718)	228986	26.4140	1320
25 Vinyl Acetate	43	4.122	4.122	(0.695)	125978	28.5880	1430
30 2,2-Dichloropropane	77	4.853	4.847	(0.819)	183053	24.3387	1220
31 cis-1,2-Dichloroethene	61	4.853	4.853	(0.819)	234296	25.3736	1270
32 2-Butanone	43	4.879	4.873	(0.823)	85633	27.6799	1380
36 Bromochloromethane	128	5.084	5.077	(0.858)	68485	26.0073	1300
37 Chloroform +	83	5.163	5.157	(0.871)	245991	23.1616	1160
38 Dibromofluoromethane	111	5.308	5.308	(0.895)	286678	53.3064	2670
39 1,1,1-Trichloroethane	97	5.341	5.334	(0.901)	180010	24.6844	1230
42 1,1-Dichloropropene	75	5.499	5.493	(0.928)	190042	24.6992	1230
43 Carbon Tetrachloride	117	5.499	5.499	(0.928)	126350	24.7360	1240
44 1,2-Dichloroethane-d4	67	5.617	5.611	(0.948)	164893	51.7980	2590
45 Benzene	78	5.683	5.677	(0.959)	637035	25.1024	1260
46 1,2-Dichloroethane	62	5.690	5.684	(0.960)	192090	26.2816	1310
47 FLUOROBENZENE	96	5.927	5.927	(1.000)	1182035	50.0000	
48 Trichloroethene	130	6.257	6.250	(1.056)	128011	24.7701	1240
49 Methyl Cyclohexane	83	6.428	6.422	(1.084)	296878	25.5264	1280
50 1,2-Dichloropropane +	63	6.434	6.435	(1.086)	184252	26.1249	1310
51 Dibromomethane	93	6.533	6.534	(1.102)	95548	25.5568	1280
54 Bromodichloromethane	83	6.665	6.665	(1.125)	203406	23.5119	1180
55 2-Chloroethyl vinyl ether	63	6.915	6.909	(1.167)	73693	20.8771	1040
56 cis-1,3-Dichloropropene	75	7.041	7.034	(1.188)	261973	24.7642	1240
57 4-methyl-2-pentanone	43	7.159	7.153	(1.208)	166925	26.7555	1340
58 Toluene-d8	98	7.271	7.265	(0.862)	1129357	53.2469	2660
59 Toluene +	91	7.324	7.318	(0.869)	672515	24.5400	1230
60 trans-1,3-Dichloropropene	75	7.482	7.483	(0.887)	229118	23.7815	1190
62 1,1,2-Trichloroethane	97	7.634	7.634	(0.905)	142904	24.0374	1200
64 1,3-Dichloropropane	76	7.772	7.766	(0.922)	267322	24.5163	1230
65 Tetrachloroethene	164	7.779	7.772	(0.923)	126519	24.1781	1210
66 2-Hexanone	43	7.825	7.825	(0.928)	128072	24.5326	1230
68 Dibromochloromethane	129	7.963	7.964	(0.944)	124086	23.7283	1190
69 1,2-Dibromoethane(EDB)	107	8.062	8.062	(0.956)	136810	23.9652	1200
70 CHLOROBENZENE-d5	82	8.431	8.431	(1.000)	514111	50.0000	
71 Chlorobenzene ++	112	8.457	8.458	(1.003)	423007	24.4034	1220
72 1,1,1,2-Tetrachloroethane	133	8.510	8.511	(1.009)	115190	24.4024	1220
73 Ethylbenzene +	106	8.536	8.530	(1.012)	211583	22.4674	1120
74 p,m-Xylene	106	8.629	8.629	(1.023)	587959	47.2746	2360
76 o-Xylene	106	8.945	8.945	(1.061)	274120	23.0816	1150
77 Styrene	104	8.952	8.952	(1.062)	501570	23.1413	1160
78 Bromoform ++	173	9.110	9.104	(1.081)	102300	23.2959	1160
79 Isopropylbenzene	105	9.228	9.229	(1.095)	725717	23.5155	1180
81 Bromofluorobenzene	174	9.360	9.361	(0.914)	367055	51.5169	2580

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
84 1,1,2,2-Tetrachloroethane++	83	9.439	9.440	(0.922)	216185	25.6115	1280
85 trans-1,4-Dichloro-2-Butene	53	9.485	9.479	(0.926)	52994	27.2687	1360
86 1,2,3-Trichloropropane	75	9.485	9.486	(0.926)	260868	26.2213	1310
87 Bromobenzene	77	9.492	9.486	(0.927)	451472	26.0188	1300
75 Total 1,2-Dichloroethene	61				393359	52.2875	2610
88 n-Propylbenzene	91	9.551	9.558	(0.932)	862042	23.7313	1190
89 2-Chlorotoluene	91	9.637	9.644	(0.941)	538910	26.9982	1350(M)
90 1,3,5-Trimethylbenzene	105	9.683	9.677	(0.945)	399255	25.4404	1270
91 4-Chlorotoluene	91	9.716	9.716	(0.949)	585259	25.0938	1250
92 tert-butylbenzene	91	9.940	9.940	(0.970)	369807	24.7078	1240
93 1,2,4-Trimethylbenzene	105	9.973	9.967	(0.974)	388335	26.4589	1320
96 sec-Butylbenzene	105	10.098	10.099	(0.986)	760669	24.3197	1220
97 p-Isopropyltoluene	119	10.197	10.197	(0.995)	470164	24.7918	1240
98 1,3-Dichlorobenzene	146	10.204	10.204	(0.996)	310750	25.0108	1250
99 1,4-DICHLOROBENZENE-D4	152	10.243	10.250	(1.000)	422296	50.0000	
100 1,4-Dichlorobenzene	146	10.263	10.263	(1.002)	330875	25.2765	1260
101 n-Butylbenzene	91	10.487	10.487	(1.024)	457730	25.5921	1280
102 1,2-Dichlorobenzene	146	10.533	10.533	(1.028)	290886	24.5178	1230
103 1,2-Dibromo-3-Chloropropane	157	11.047	11.054	(1.078)	40018	25.5187	1280
105 1,2,4-Trichlorobenzene	180	11.600	11.607	(1.133)	193199	29.0041	1450
106 Hexachlorobutadiene	225	11.699	11.713	(1.142)	117353	25.5845	1280
107 Napthalene	128	11.772	11.785	(1.149)	381165	29.7266	1490
108 1,2,3-Trichlorobenzene	180	11.937	11.950	(1.165)	188087	28.8456	1440
109 TOTAL XYLENE	106				862079	70.3563	3520
40 Cyclohexane	56	5.400	5.394	(0.911)	302949	24.8127	1240

QC Flag Legend

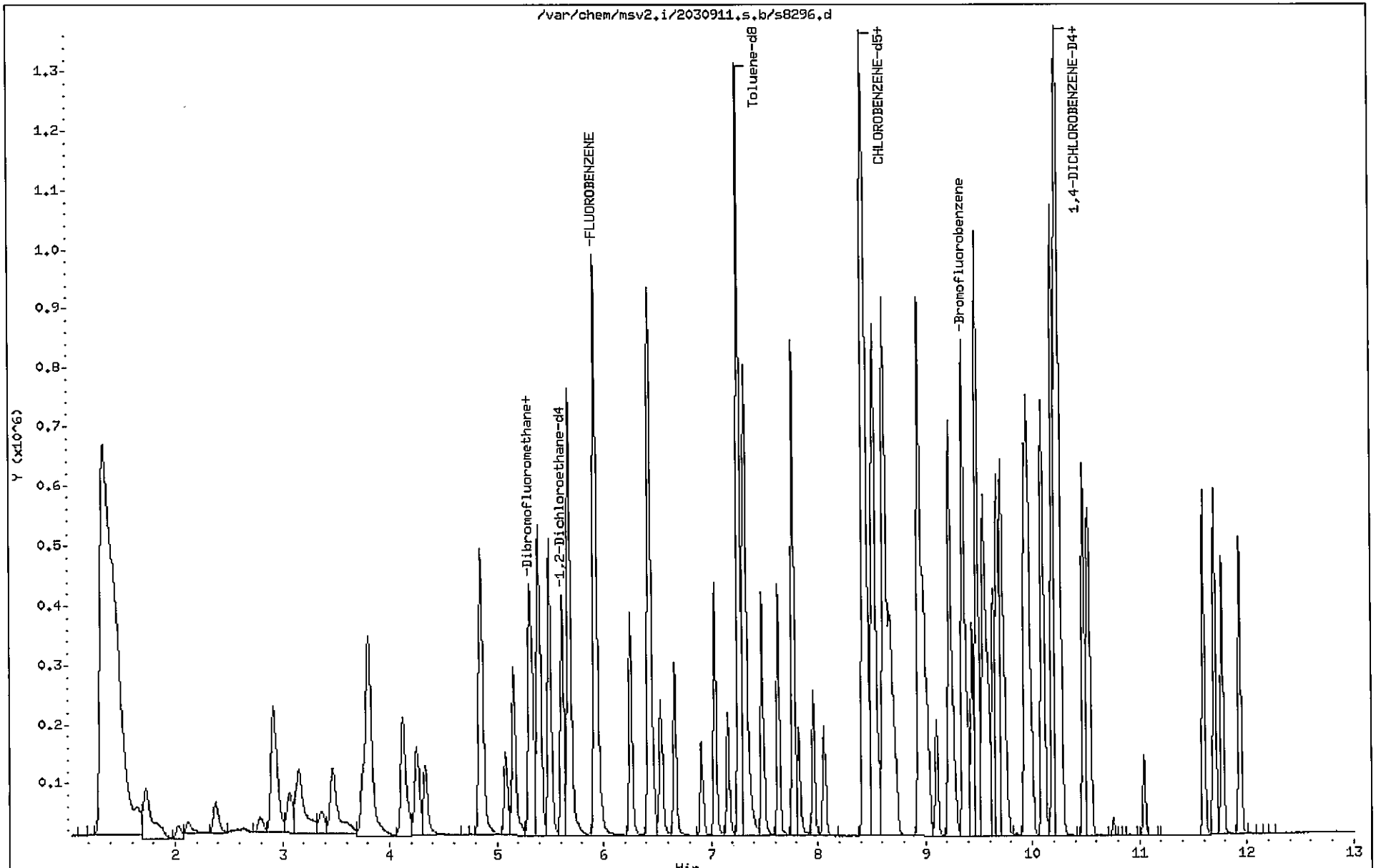
M - Compound response manually integrated.

Data File: /var/chem/msv2.i/2030911.s.b/s8296.d
Date : 11-SEP-2003 09:15
Client ID: LCSD for HBN 262301
Sample Info: 1184441*LCSD for HBN 262301 [HSV/3677]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: HJL
Column diameter: 0.53

000282



ata file : /var/chem/msv2.i/2030911.s.b/s8296.d
eport Date: 09/11/2003 09:53

MANUAL INTEGRATION GRAPHIC REPORT

ab ID : 118441 SampleType : LCSD
njection Date: 11-SEP-2003 09:15 Instrument : msv2.i
perator : HJL
ample Info : 1184441*LCSD for HBN 262301 [MSV/3677]
isc Info : MSV~3677~*50*RSP
ethod : /var/chem/msv2.i/2030911.s.b/8260Bw2.m
ilution : 50.0
atrix : SOIL
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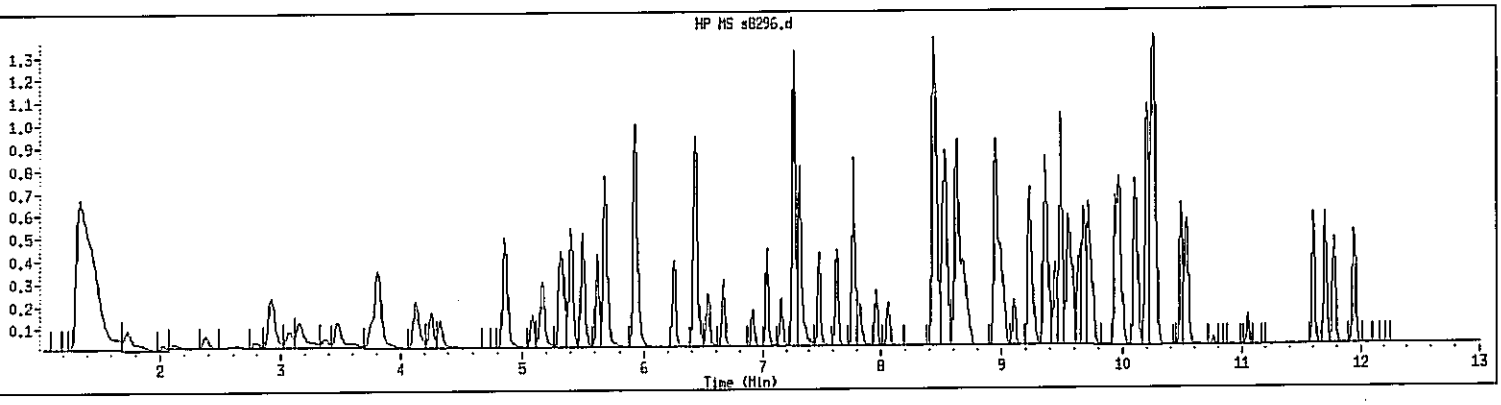
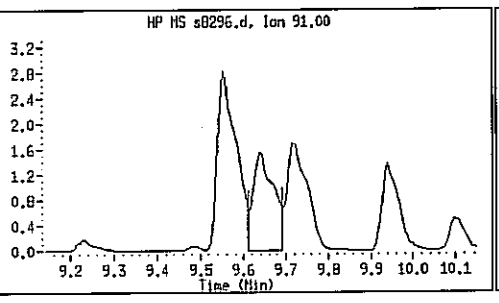
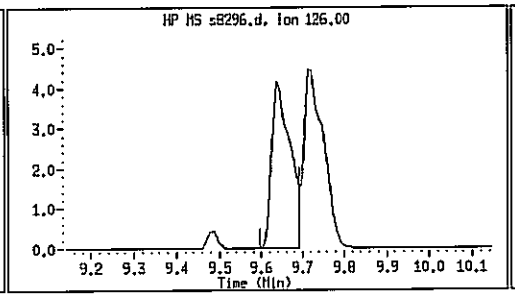
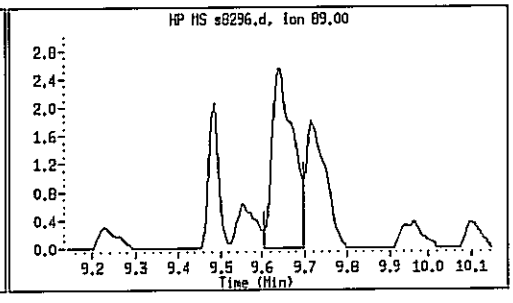


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 2-Chlorotoluene			CAS#: 95-49-8				
.637	0.941	91	538910	27	1350	80-120	100
.637	0.941	126	130834			30- 44	24
.637	0.941	89	88603			20- 30	16







Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv4.i/2030911.s.b/s6275.d
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nj Date : 11-SEP-2003 09:51
perator : HJL Inst ID: msv4.i
mp Info : 118435*LCS for HBN 262300[MSV/3676]
isc Info : MSV~3676~*1*RJO
omment :
ethod : /var/chem/msv4.i/2030911.s.b/8260Bs4.m
eth Date : 11-Sep-2003 13:48 rsp Quant Type: ISTD
al Date : 06-SEP-2003 10:57 Cal File: s6170.d
ls bottle: 5 QC Sample: LCS
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50

oncentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.00000	Weight of sample extracted (g)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	2.304	2.304	(0.362)	79465	14.5953	14.6	1250
2 Chloromethane ++	50	2.480	2.486	(0.389)	187766	23.6109	23.6	6101
3 Vinyl Chloride +	62	2.603	2.615	(0.409)	152137	22.9941	23.0	4161
4 Bromomethane	94	2.908	2.896	(0.456)	71932	29.8895	29.9	6052
5 Chloroethane	64	3.037	3.061	(0.477)	93141	32.2004	32.2	3589
6 Trichlorofluoromethane	101	3.277	3.272	(0.514)	181973	24.9215	24.9	7894
7 Acrolein	56	3.810	3.805	(0.598)	114331	136.243	136	2213
9 1,1,2Trichlotrifluoroethane	101	3.810	3.805	(0.598)	136134	25.3033	25.3	4229
8 1,1-Dichloroethene +	96	3.852	3.841	(0.605)	118791	25.4503	25.5	8707
10 Acetone	43	3.963	3.964	(0.622)	104046	19.2280	19.2	6489
11 Methyl Iodide	142	4.057	4.035	(0.637)	95887	25.0133	25.0	0(M)
12 Carbon Disulfide	76	4.069	4.064	(0.639)	459639	24.7141	24.7	8738
13 Methylene Chloride	49	4.385	4.381	(0.688)	274099	28.5413	28.5	8876
14 Acrylonitrile	53	4.673	4.669	(0.734)	469694	140.618	141	6875

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
15 trans-1,2-Dichloroethene	61	3.846	3.847	(0.604)	197680	26.0091	26.0	8669
16 MTBE	73	4.567	4.563	(0.717)	456417	24.7804	24.8	4148
17 Hexane	57	4.756	4.751	(0.747)	253031	26.0244	26.0	3480(H)
19 Vinyl Acetate	43	4.756	4.751	(0.747)	192230	29.0316	29.0	
18 1,1-Dichloroethane ++	63	5.002	4.998	(0.785)	293776	25.8577	25.9	6106
22 2-Butanone	43	5.512	5.514	(0.865)	162741	23.1636	23.2	
29 Total 1,2-Dichloroethene	61				461768	51.6526	51.7	0
21 cis-1,2-Dichloroethene	61	5.494	5.496	(0.862)	264088	25.6911	25.7	8231
20 2,2-Dichloropropane	77	5.471	5.467	(0.859)	204918	26.6467	26.6	9006
23 Bromochloromethane	128	5.700	5.696	(0.895)	75689	23.4547	23.5	9215
24 Chloroform +	83	5.741	5.737	(0.901)	257918	23.7105	23.7	8937
25 Dibromofluoromethane	111	5.876	5.873	(0.922)	312986	49.7857	49.8	5019
26 1,1,1-Trichloroethane	97	5.864	5.861	(0.921)	221546	25.2413	25.2	8816
27 1,1-Dichloropropene	75	5.988	5.985	(0.940)	201203	25.7290	25.7	6745
28 Carbon Tetrachloride	117	5.965	5.961	(0.936)	169946	24.4474	24.4	9071
30 1,2-Dichloroethane-d4	67	6.165	6.161	(0.968)	175381	49.7925	49.8	8665
32 1,2-Dichloroethane	62	6.223	6.214	(0.977)	208984	25.1028	25.1	6411
31 Benzene	78	6.153	6.150	(0.966)	634731	25.9473	25.9	8506
33 FLUOROBENZENE	96	6.370	6.367	(1.000)	1237948	50.0000		9682
34 Trichloroethene	130	6.634	6.631	(1.041)	150504	23.2023	23.2	9115
35 1,2-Dichloropropane +	63	6.840	6.837	(1.074)	191658	25.4049	25.4	8662
38 2-Chloroethyl vinyl ether	63	7.221	7.219	(1.134)	56412	30.1595	30.2	6763
36 Dibromomethane	93	6.940	6.937	(1.089)	103231	24.4294	24.4	9014
37 Bromodichloromethane	83	7.028	7.031	(1.103)	221840	24.9552	25.0	9398
127 Methyl cyclohexane	83	6.734	6.731	(1.057)	287101	25.6469	25.6	9270
39 cis-1,3-Dichloropropene	75	7.351	7.348	(1.154)	264589	24.7408	24.7	
40 4-methyl-2-pentanone	43	7.433	7.431	(1.167)	317939	24.6493	24.6	
41 Toluene-d8	98	7.515	7.513	(0.876)	1097918	50.2241	50.2	8512
42 Toluene +	91	7.562	7.560	(0.882)	705906	25.3281	25.3	9134
43 trans-1,3-Dichloropropene	75	7.750	7.754	(0.903)	247667	26.4112	26.4	
44 1,1,2-Trichloroethane	97	7.891	7.889	(0.920)	162630	24.7854	24.8	8262
45 1,3-Dichloropropane	76	8.021	8.019	(0.935)	276300	24.7026	24.7	8655
47 2-Hexanone	43	8.021	8.019	(0.935)	247992	23.0535	23.1	6446
46 Tetrachloroethene	164	7.944	7.943	(0.926)	103794	25.1396	25.1	5399
48 Dibromochloromethane	129	8.173	8.172	(0.953)	164012	24.1727	24.2	9104
49 1,2-Dibromoethane(EDB)	107	8.279	8.284	(0.965)	161568	24.3430	24.3	5533
50 Chlorobenzene-d5	82	8.578	8.577	(1.000)	487378	50.0000		8791
51 Chlorobenzene ++	112	8.596	8.594	(1.002)	456653	24.4107	24.4	8678
52 1,1,1,2-Tetrachloroethane	133	8.649	8.648	(1.008)	141077	24.6583	24.7	9272
53 Ethylbenzene +	106	8.625	8.624	(1.006)	242575	24.8783	24.9	9380
54 p,m-Xylene	106	8.708	8.707	(1.015)	616928	49.5973	49.6	9258
55 o-Xylene	106	8.996	8.995	(1.049)	297291	24.1626	24.2	
56 Styrene	104	9.013	9.012	(1.051)	525487	24.4492	24.4	9176
57 Bromoform ++	173	9.190	9.189	(1.071)	104362	24.2524	24.3	7872
58 Isopropylbenzene	105	9.225	9.224	(1.075)	785002	24.6729	24.7	9380
59 Bromofluorobenzene	174	9.390	9.389	(1.095)	259712	43.1876	43.2	8476
60 1,1,2,2-Tetrachloroethane++	83	9.478	9.477	(0.931)	236809	25.4882	25.5	9290

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
61 trans-1,4-Dichloro-2-Butene	53	9.513	9.619	(0.935)	57202	28.3415	28.3	4388
62 1,2,3-Trichloropropane	75	9.525	9.531	(0.936)	267931	26.3530	26.4	7606
63 Bromobenzene	77	9.513	9.513	(0.935)	403802	26.0432	26.0	7152
64 n-Propylbenzene	91	9.507	9.507	(0.934)	926757	26.5348	26.5	7612
65 2-Chlorotoluene	91	9.620	9.619	(0.945)	563889	26.2448	26.2	8978
66 1,3,5-Trimethylbenzene	105	9.620	9.619	(0.945)	633052	26.4543	26.5	
67 4-Chlorotoluene	91	9.691	9.696	(0.952)	542832	26.7990	26.8	8701
76 TOTAL XYLENE	106				914219	73.7599	73.8	0
68 tert-butylbenzene	91	9.843	9.843	(0.967)	413095	26.7638	26.8	9004
69 1,2,4-Trimethylbenzene	105	9.885	9.885	(0.971)	623819	26.3720	26.4	
70 sec-Butylbenzene	105	9.991	9.991	(0.981)	868113	27.0974	27.1	
71 p-Isopropyltoluene	119	10.073	10.079	(0.990)	631247	26.0775	26.1	9233
72 1,3-Dichlorobenzene	146	10.132	10.138	(0.995)	261667	26.6487	26.6	
73 1,4-DICHLOROBENZENE-D4	152	10.179	10.180	(1.000)	312689	50.0000		9118
74 1,4-Dichlorobenzene	146	10.197	10.198	(1.002)	268433	24.5112	24.5	
75 n-Butylbenzene	91	10.350	10.357	(1.017)	583526	26.8163	26.8	9266
77 1,2-Dichlorobenzene	146	10.462	10.463	(1.028)	267082	26.3587	26.4	
78 1,2-Dibromo-3-Chloropropane	157	10.989	10.990	(1.080)	37238	25.7355	25.7	5734
79 1,2,4-Trichlorobenzene	180	11.540	11.547	(1.134)	94079	23.2059	23.2	
80 Hexachlorobutadiene	225	11.587	11.594	(1.138)	80908	26.2735	26.3	9300
81 Napthalene	128	11.746	11.759	(1.154)	194300	23.6725	23.7	9269
82 1,2,3-Trichlorobenzene	180	11.922	11.929	(1.171)	88991	21.6385	21.6	
97 Cyclohexane	56	5.859	5.855	(0.920)	323996	26.4282	26.4	4949
98 Methyl Acetate	43	4.262	4.252	(0.669)	214247	22.2328	22.2	1403

C Flag Legend

- Compound response manually integrated.
- Operator selected an alternate compound hit.

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Date : 11-SEP-2003 09:51
Client ID: LCS for HBN 262300
Sample Info: 118435*LCS for HBN 262300[MSV/3676]

Column phase: DB-624-30M

Instrument: msv4.i

Operator: HJL
Column diameter: 0.53

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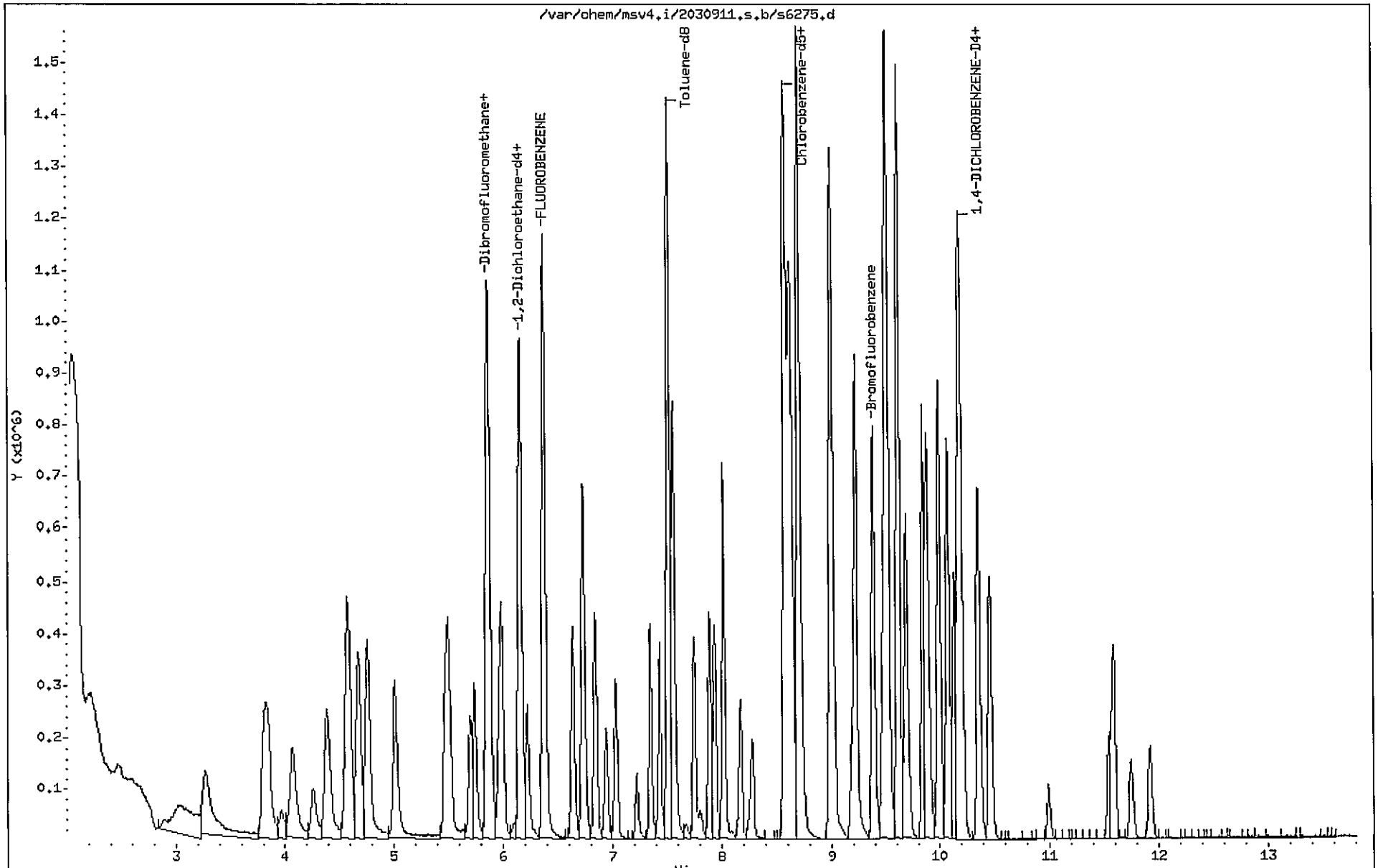

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eport Date: 09/11/2003 13:49

MANUAL INTEGRATION GRAPHIC REPORT

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njection Date: 11-SEP-2003 09:51 Instrument : msv4.i
perator : HJL
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isc Info : MSV~3676~*1*RJO
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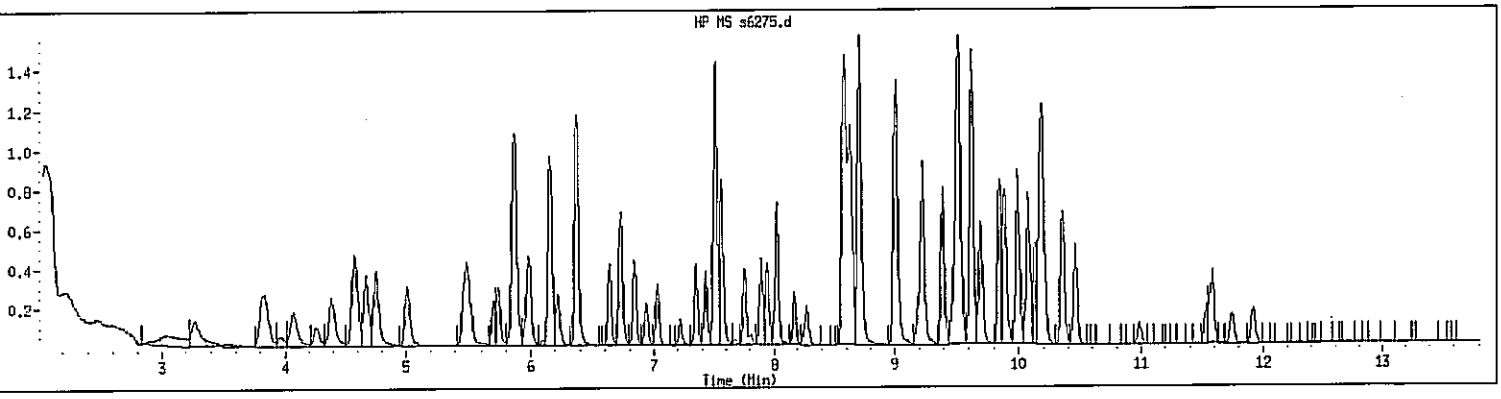
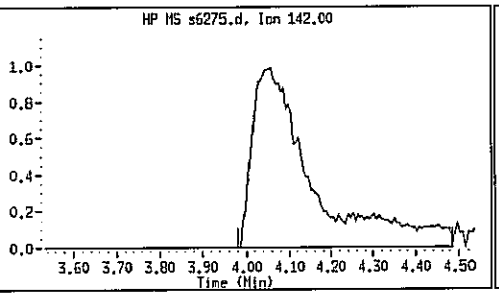
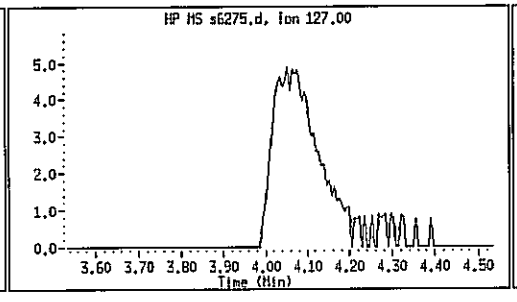
ilution : 1.0
atrix : SOIL
ntegrator : HP RTE Compound Sublist: 8260b

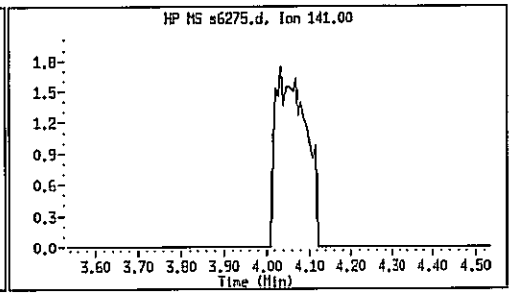


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
11 Methyl Iodide			CAS#: 74-88-4				
.057	0.637	142	95887	25	25	80-120	100
.035	0.633	127	0			0- 0	0
.035	0.633	141	0			0- 0	0







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Report Date: 11-Sep-2003 14:06

Gulf Coast Analytical Laboratories, Inc.

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Inj Date : 11-SEP-2003 12:25
Operator : RSP Inst ID: msv4.i
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Misc Info : MSV~3676~*1*RJO
Comment :
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Meth Date : 11-Sep-2003 14:05 rsp Quant Type: ISTD
Cal Date : 06-SEP-2003 10:57 Cal File: s6170.d
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	4.66000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	2.316	2.304	(0.363)	83176	13.5033	14.5	871
2 Chloromethane ++	50	2.486	2.486	(0.390)	178187	19.8051	21.3	6101
3 Vinyl Chloride +	62	2.626	2.615	(0.412)	150881	20.1568	21.6	4161
4 Bromomethane	94	2.955	2.896	(0.464)	66700	24.4979	26.3	6124
5 Chloroethane	64	3.066	3.061	(0.481)	99511	30.4087	32.6	3589
6 Trichlorofluoromethane	101	3.271	3.272	(0.513)	181701	21.9954	23.6	7847
7 Acrolein	56	3.804	3.805	(0.597)	81934	86.3019	92.6	2142
9 1,1,2Trichlotrifluoroethane	101	3.804	3.805	(0.597)	139795	22.9672	24.6	4112
8 1,1-Dichloroethene +	96	3.852	3.841	(0.605)	117471	22.2457	23.9	8636
10 Acetone	43	3.969	3.964	(0.623)	96080	14.8552	15.9	6481
11 Methyl Iodide	142	4.034	4.035	(0.633)	74026	17.0687	18.3	8703
12 Carbon Disulfide	76	4.069	4.064	(0.639)	474712	22.5613	24.2	8809
13 Methylene Chloride	49	4.385	4.381	(0.688)	261140	23.3099	25.0	9080

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
14 Acrylonitrile	53	4.667	4.669	(0.733)	367236	97.1798	104	6875
15 trans-1,2-Dichloroethene	61	3.846	3.847	(0.604)	197931	23.0187	24.7	8602
16 MTBE	73	4.561	4.563	(0.716)	497978	23.8980	25.6	4130
17 Hexane	57	4.561	4.751	(0.716)	119145	10.8315	11.6	4130
19 Vinyl Acetate	43	4.755	4.751	(0.746)	184735	24.6607	26.5	
18 1,1-Dichloroethane ++	63	5.002	4.998	(0.785)	309337	24.0665	25.8	6094
22 2-Butanone	43	5.512	5.514	(0.865)	131727	16.5726	17.8	
29 Total 1,2-Dichloroethene	61				482324	47.6884	51.2	0
21 cis-1,2-Dichloroethene	61	5.494	5.496	(0.862)	284393	24.4545	26.2	8240
20 2,2-Dichloropropane	77	5.471	5.467	(0.859)	214896	24.7000	26.5	8858
23 Bromochloromethane	128	5.700	5.696	(0.895)	84323	23.0967	24.8	9449
24 Chloroform +	83	5.741	5.737	(0.901)	272817	22.1685	23.8	8886
25 Dibromofluoromethane	111	5.876	5.873	(0.922)	345770	48.6153	52.2	4937
26 1,1,1-Trichloroethane	97	5.865	5.861	(0.921)	237188	23.8862	25.6	8809
27 1,1-Dichloropropene	75	5.988	5.985	(0.940)	218056	24.6470	26.4	6788
28 Carbon Tetrachloride	117	5.965	5.961	(0.936)	183913	23.3852	25.1	9085
30 1,2-Dichloroethane-d4	67	6.165	6.161	(0.968)	195724	49.1170	52.7	8650
32 1,2-Dichloroethane	62	6.218	6.214	(0.976)	219668	23.3229	25.0	6411
31 Benzene	78	6.153	6.150	(0.966)	696311	25.1601	27.0	8545
33 FLUOROBENZENE	96	6.371	6.367	(1.000)	1400543	50.0000		9652
34 Trichloroethene	130	6.635	6.631	(1.041)	168058	22.9007	24.6	9106
35 1,2-Dichloropropane +	63	6.841	6.837	(1.074)	214931	25.1824	27.0	8676
36 Dibromomethane	93	6.941	6.937	(1.089)	105298	22.0257	23.6	9053
37 Bromodichloromethane	83	7.029	7.031	(1.103)	248507	24.7096	26.5	9555
127 Methyl cyclohexane	83	6.735	6.731	(1.057)	335121	26.4611	28.4	9340
39 cis-1,3-Dichloropropene	75	7.352	7.348	(1.154)	288425	23.8386	25.6	
40 4-methyl-2-pentanone	43	7.434	7.431	(1.167)	323438	22.1645	23.8	
41 Toluene-d8	98	7.511	7.513	(0.876)	1270504	52.2425	56.1	8473
42 Toluene +	91	7.564	7.560	(0.882)	803728	25.9221	27.8	9072
43 trans-1,3-Dichloropropene	75	7.752	7.754	(0.904)	263489	25.2574	27.1	
44 1,1,2-Trichloroethane	97	7.893	7.889	(0.920)	181364	24.8457	26.7	8267
45 1,3-Dichloropropane	76	8.023	8.019	(0.936)	303370	24.3804	26.2	8680
47 2-Hexanone	43	8.023	8.019	(0.936)	225162	18.8148	20.2	6383
46 Tetrachloroethene	164	7.946	7.943	(0.927)	118494	25.7981	27.7	5466
48 Dibromochloromethane	129	8.176	8.172	(0.953)	179800	23.8202	25.6	9091
49 1,2-Dibromoethane(EDB)	107	8.282	8.284	(0.966)	170020	23.0263	24.7	5533
50 Chlorobenzene-d5	82	8.576	8.577	(1.000)	542201	50.0000		8663
51 Chlorobenzene ++	112	8.599	8.594	(1.003)	521230	25.0455	26.9	8955
52 1,1,1,2-Tetrachloroethane	133	8.647	8.648	(1.008)	160073	25.1496	27.0	9284
53 Ethylbenzene +	106	8.629	8.624	(1.006)	271433	25.0232	26.8	9427
54 p,m-Xylene	106	8.706	8.707	(1.015)	692493	50.0431	53.7	9302
55 o-Xylene	106	9.000	8.995	(1.050)	338248	24.7117	26.5	
56 Styrene	104	9.012	9.012	(1.051)	578186	24.1811	25.9	9187
57 Bromoform ++	173	9.195	9.189	(1.072)	109764	22.9287	24.6	8194
58 Isopropylbenzene	105	9.224	9.224	(1.076)	874207	24.6985	26.5	9421
59 Bromofluorobenzene	174	9.390	9.389	(1.095)	317430	47.4483	50.9	8484
60 1,1,2,2-Tetrachloroethane++	83	9.478	9.477	(0.931)	273152	25.1631	27.0	9316

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
61 trans-1,4-Dichloro-2-Butene	53	9.520	9.619	(0.935)	57359	24.6512	26.4	4628
62 1,2,3-Trichloropropane	75	9.532	9.531	(0.936)	283851	23.8955	25.6	8034
63 Bromobenzene	77	9.514	9.513	(0.934)	453232	25.0187	26.8	7403
64 n-Propylbenzene	91	9.508	9.507	(0.934)	1075186	26.3483	28.3	7895
65 2-Chlorotoluene	91	9.620	9.619	(0.945)	640980	25.5336	27.4	9017
66 1,3,5-Trimethylbenzene	105	9.620	9.619	(0.945)	721227	25.7957	27.7	
67 4-Chlorotoluene	91	9.692	9.696	(0.952)	614107	25.9487	27.8	8786
76 TOTAL XYLENE	106				1030741	74.7548	80.2	0
68 tert-butylbenzene	91	9.845	9.843	(0.967)	460446	25.5326	27.4	9002
69 1,2,4-Trimethylbenzene	105	9.887	9.885	(0.971)	720523	26.0706	28.0	
70 sec-Butylbenzene	105	9.993	9.991	(0.981)	959677	25.6387	27.5	
71 p-Isopropyltoluene	119	10.076	10.079	(0.990)	744058	26.3083	28.2	9218
72 1,3-Dichlorobenzene	146	10.135	10.138	(0.995)	318434	27.7565	29.8	
73 1,4-DICHLOROBENZENE-D4	152	10.183	10.180	(1.000)	365337	50.0000		9295
74 1,4-Dichlorobenzene	146	10.201	10.198	(1.002)	325239	25.4185	27.3	
75 n-Butylbenzene	91	10.355	10.357	(1.017)	710401	27.9422	30.0	9249
77 1,2-Dichlorobenzene	146	10.467	10.463	(1.028)	296332	25.0309	26.9	
78 1,2-Dibromo-3-Chloropropane	157	11.001	10.990	(1.080)	40630	24.0332	25.8	6943
79 1,2,4-Trichlorobenzene	180	11.548	11.547	(1.134)	161516	30.0925	32.3	
80 Hexachlorobutadiene	225	11.602	11.594	(1.139)	77063	21.4187	23.0	8875
81 Napthalene	128	11.757	11.759	(1.155)	464225	35.6057	38.2	8850
82 1,2,3-Trichlorobenzene	180	11.936	11.929	(1.172)	141929	29.5373	31.7	
97 Cyclohexane	56	5.853	5.855	(0.919)	359231	25.9004	27.8	4949
98 Methyl Acetate	43	4.250	4.252	(0.667)	187192	15.6590	16.8	1469

Data File: /var/chem/msv4.i/2030911.s.b/s6281.d
Date : 11-SEP-2003 12:25
Client ID: 86JT03S030908HS
Sample Info: 20309100802M86JT03S030908HS

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RSP
Column diameter: 0.53

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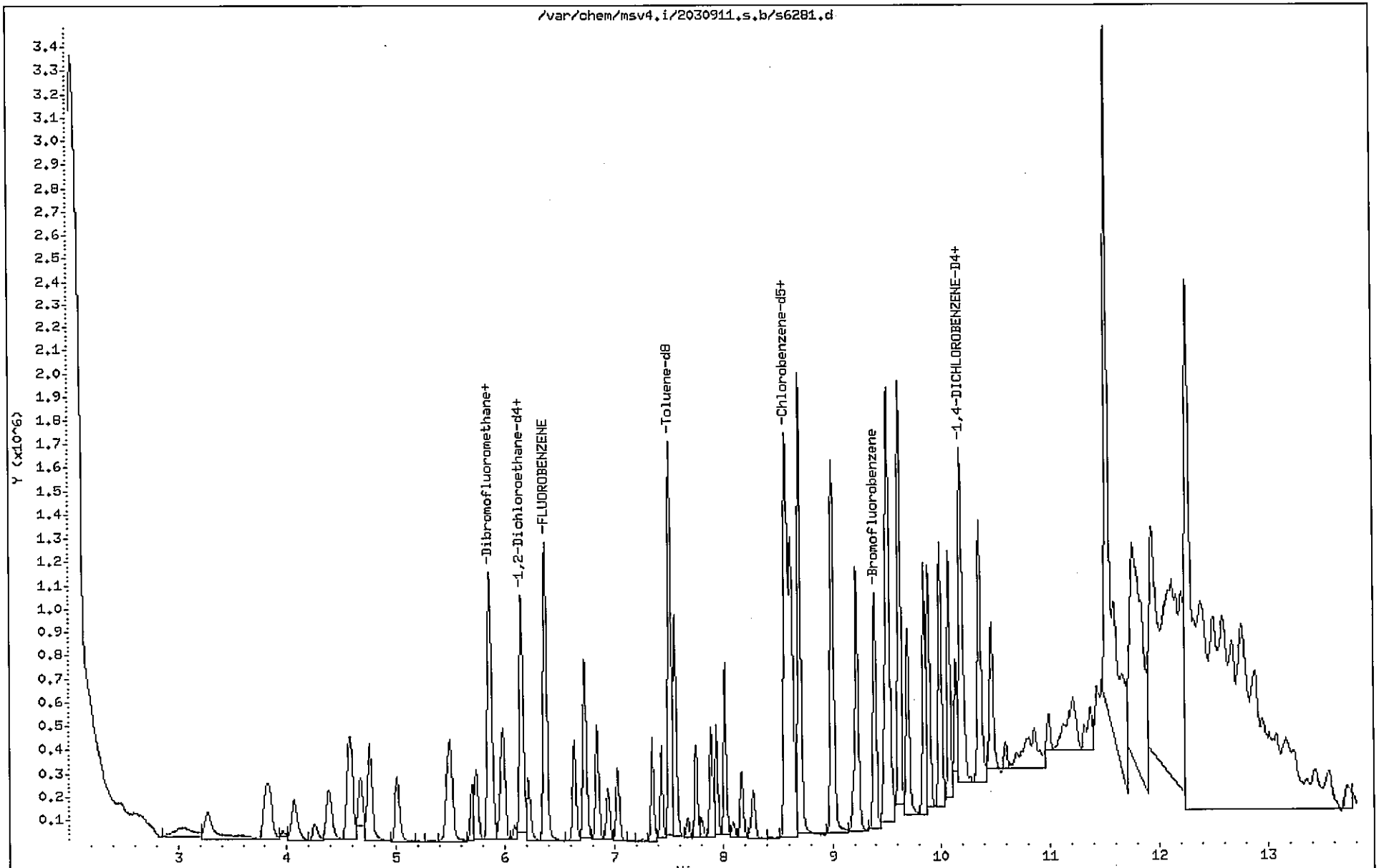

Gulf Coast Analytical Laboratories, Inc.

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ls bottle: 12 QC Sample: MSD
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * (Uf/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	4.73000	Weight of sample extracted (g)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	2.298	2.304	(0.360)	85834	13.7117	14.5	1021
2 Chloromethane ++	50	2.486	2.486	(0.390)	192346	21.0366	22.2	6101
3 Vinyl Chloride +	62	2.609	2.615	(0.409)	161577	21.2402	22.5	4161
4 Bromomethane	94	2.966	2.896	(0.465)	88763	32.0793	33.9	6505
5 Chloroethane	64	3.048	3.061	(0.478)	105768	31.8033	33.6	3589
6 Trichlorofluoromethane	101	3.283	3.272	(0.515)	189378	22.5577	23.8	7856
7 Acrolein	56	3.810	3.805	(0.598)	75395	78.1430	82.6	2302
9 1,1,2Trichlotrifluoroethane	101	3.810	3.805	(0.598)	151156	24.4362	25.8	4284
8 1,1-Dichloroethene +	96	3.852	3.841	(0.604)	128687	23.9796	25.3	8663
10 Acetone	43	3.969	3.964	(0.622)	89415	13.2185	14.0	6363(R)
11 Methyl Iodide	142	4.051	4.035	(0.635)	89450	20.2950	21.5	8656
12 Carbon Disulfide	76	4.069	4.064	(0.638)	502083	23.4802	24.8	8766
13 Methylene Chloride	49	4.385	4.381	(0.688)	270463	23.8435	25.2	8881

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
14 Acrylonitrile	53	4.673	4.669	(0.733)	346336	90.1819	95.3	6875
15 trans-1,2-Dichloroethene	61	3.857	3.847	(0.605)	207996	23.8020	25.2	8551
16 MTBE	73	4.567	4.563	(0.716)	496684	23.4543	24.8	4133
17 Hexane	57	4.761	4.751	(0.747)	290245	25.9638	27.4	3448(H)
19 Vinyl Acetate	43	4.761	4.751	(0.747)	210908	27.7038	29.3	
18 1,1-Dichloroethane ++	63	5.008	4.998	(0.785)	321769	24.6329	26.0	6057
22 2-Butanone	43	5.518	5.514	(0.865)	122575	15.1743	16.0	
29 Total 1,2-Dichloroethene	61				500443	48.6878	51.5	0
21 cis-1,2-Dichloroethene	61	5.500	5.496	(0.863)	292447	24.7445	26.2	8202
20 2,2-Dichloropropane	77	5.477	5.467	(0.859)	218318	24.6916	26.1	8858
23 Bromochloromethane	128	5.706	5.696	(0.895)	86343	23.2714	24.6	9406
24 Chloroform +	83	5.747	5.737	(0.901)	280880	22.4583	23.7	8885
25 Dibromofluoromethane	111	5.876	5.873	(0.922)	355910	49.2399	52.1	4889
26 1,1,1-Trichloroethane	97	5.870	5.861	(0.921)	243007	24.0804	25.5	8814
27 1,1-Dichloropropene	75	5.994	5.985	(0.940)	223846	24.8964	26.3	6680
28 Carbon Tetrachloride	117	5.971	5.961	(0.936)	185983	23.2698	24.6	9048
30 1,2-Dichloroethane-d4	67	6.165	6.161	(0.967)	186783	46.1228	48.8	8467
32 1,2-Dichloroethane	62	6.223	6.214	(0.976)	221395	23.1299	24.5	6411
31 Benzene	78	6.153	6.150	(0.965)	718391	25.5423	27.0	8713
33 FLUOROBENZENE	96	6.376	6.367	(1.000)	1423329	50.0000		9686
34 Trichloroethene	130	6.640	6.631	(1.041)	173255	23.2309	24.6	9030
35 1,2-Dichloropropane +	63	6.846	6.837	(1.074)	214308	24.7074	26.1	8683
36 Dibromomethane	93	6.946	6.937	(1.089)	107283	22.0816	23.3	9128
37 Bromodichloromethane	83	7.034	7.031	(1.103)	243211	23.7959	25.2	9614
127 Methyl cyclohexane	83	6.734	6.731	(1.056)	333184	25.8869	27.4	9311
39 cis-1,3-Dichloropropene	75	7.350	7.348	(1.153)	294150	23.9226	25.3	
40 4-methyl-2-pentanone	43	7.439	7.431	(1.167)	302823	20.4196	21.6	
41 Toluene-d8	98	7.515	7.513	(0.876)	1258598	50.9781	53.9	8457
42 Toluene +	91	7.562	7.560	(0.882)	805161	25.5795	27.0	9066
43 trans-1,3-Dichloropropene	75	7.756	7.754	(0.904)	263532	24.8833	26.3	
44 1,1,2-Trichloroethane	97	7.897	7.889	(0.921)	174499	23.5474	24.9	8288
45 1,3-Dichloropropane	76	8.027	8.019	(0.936)	298947	23.6652	25.0	8635
47 2-Hexanone	43	8.027	8.019	(0.936)	196262	16.1543	17.1	6133
46 Tetrachloroethene	164	7.944	7.943	(0.926)	119154	25.5534	27.0	5434
48 Dibromochloromethane	129	8.179	8.172	(0.954)	182074	23.7603	25.1	9120
49 1,2-Dibromoethane(EDB)	107	8.285	8.284	(0.966)	172343	22.9915	24.3	5533
50 Chlorobenzene-d5	82	8.578	8.577	(1.000)	550442	50.0000		8677
51 Chlorobenzene ++	112	8.602	8.594	(1.003)	515071	24.3790	25.8	8927
52 1,1,1,2-Tetrachloroethane	133	8.649	8.648	(1.008)	161458	24.9874	26.4	9340
53 Ethylbenzene +	106	8.632	8.624	(1.006)	270638	24.5764	26.0	9406
54 p,m-Xylene	106	8.708	8.707	(1.015)	700888	49.8915	52.7	9259
55 o-Xylene	106	9.002	8.995	(1.049)	339528	24.4338	25.8	
56 Styrene	104	9.014	9.012	(1.051)	572030	23.5654	24.9	9134
57 Bromoform ++	173	9.196	9.189	(1.072)	106122	21.8360	23.1	8122
58 Isopropylbenzene	105	9.231	9.224	(1.076)	880188	24.4951	25.9	9344
59 Bromofluorobenzene	174	9.396	9.389	(1.095)	302679	44.5660	47.1	8699
60 1,1,2,2-Tetrachloroethane++	83	9.484	9.477	(0.931)	254049	25.9796	27.5	9364

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
61 trans-1,4-Dichloro-2-Butene	53	9.526	9.619	(0.935)	49337	23.6421	25.0	4801
62 1,2,3-Trichloropropane	75	9.532	9.531	(0.936)	260651	24.3580	25.7	7686
63 Bromobenzene	77	9.514	9.513	(0.934)	431176	26.4214	27.9	7511
64 n-Propylbenzene	91	9.514	9.507	(0.934)	1045541	28.4424	30.1	7817
65 2-Chlorotoluene	91	9.620	9.619	(0.944)	639052	28.2593	29.9	8985
66 1,3,5-Trimethylbenzene	105	9.626	9.619	(0.945)	702162	27.8785	29.5	
67 4-Chlorotoluene	91	9.697	9.696	(0.952)	590205	27.6841	29.3	8812
76 TOTAL XYLENE	106				1040416	74.3253	78.6	0
68 tert-butylbenzene	91	9.850	9.843	(0.967)	451893	27.8169	29.4	8942
69 1,2,4-Trimethylbenzene	105	9.892	9.885	(0.971)	708253	28.4478	30.1	
70 sec-Butylbenzene	105	9.998	9.991	(0.981)	938391	27.8299	29.4	
71 p-Isopropyltoluene	119	10.080	10.079	(0.990)	705981	27.7099	29.3	9224
72 1,3-Dichlorobenzene	146	10.139	10.138	(0.995)	278527	26.9506	28.5	
73 1,4-DICHLOROBENZENE-D4	152	10.187	10.180	(1.000)	329107	50.0000		9243
74 1,4-Dichlorobenzene	146	10.204	10.198	(1.002)	320757	27.8279	29.4	
75 n-Butylbenzene	91	10.358	10.357	(1.017)	647315	28.2637	29.9	9283
77 1,2-Dichlorobenzene	146	10.470	10.463	(1.028)	277303	26.0022	27.5	
78 1,2-Dibromo-3-Chloropropane	157	10.999	10.990	(1.080)	34271	22.5034	23.8	6080
79 1,2,4-Trichlorobenzene	180	11.552	11.547	(1.134)	106070	24.2506	25.6	
80 Hexachlorobutadiene	225	11.600	11.594	(1.139)	71842	22.1657	23.4	9380
81 Napthalene	128	11.758	11.759	(1.154)	183353	22.4914	23.8	9263
82 1,2,3-Trichlorobenzene	180	11.935	11.929	(1.172)	97377	22.4964	23.8	
97 Cyclohexane	56	5.858	5.855	(0.919)	357061	25.3319	26.8	4913
98 Methyl Acetate	43	4.262	4.252	(0.668)	167753	13.0240	13.8	1476

QC Flag Legend

- Spike/Surrogate failed recovery limits.
I - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2030911.s.b/s6283.d
Date : 11-SEP-2003 13:25
Client ID: B6JT03S030908MSD
Sample Info: 20309100803*B6JT03S030908MSD

Column phase: DB-624-30M

Instrument: msv4.i

Operator: HJL
Column diameter: 0.53

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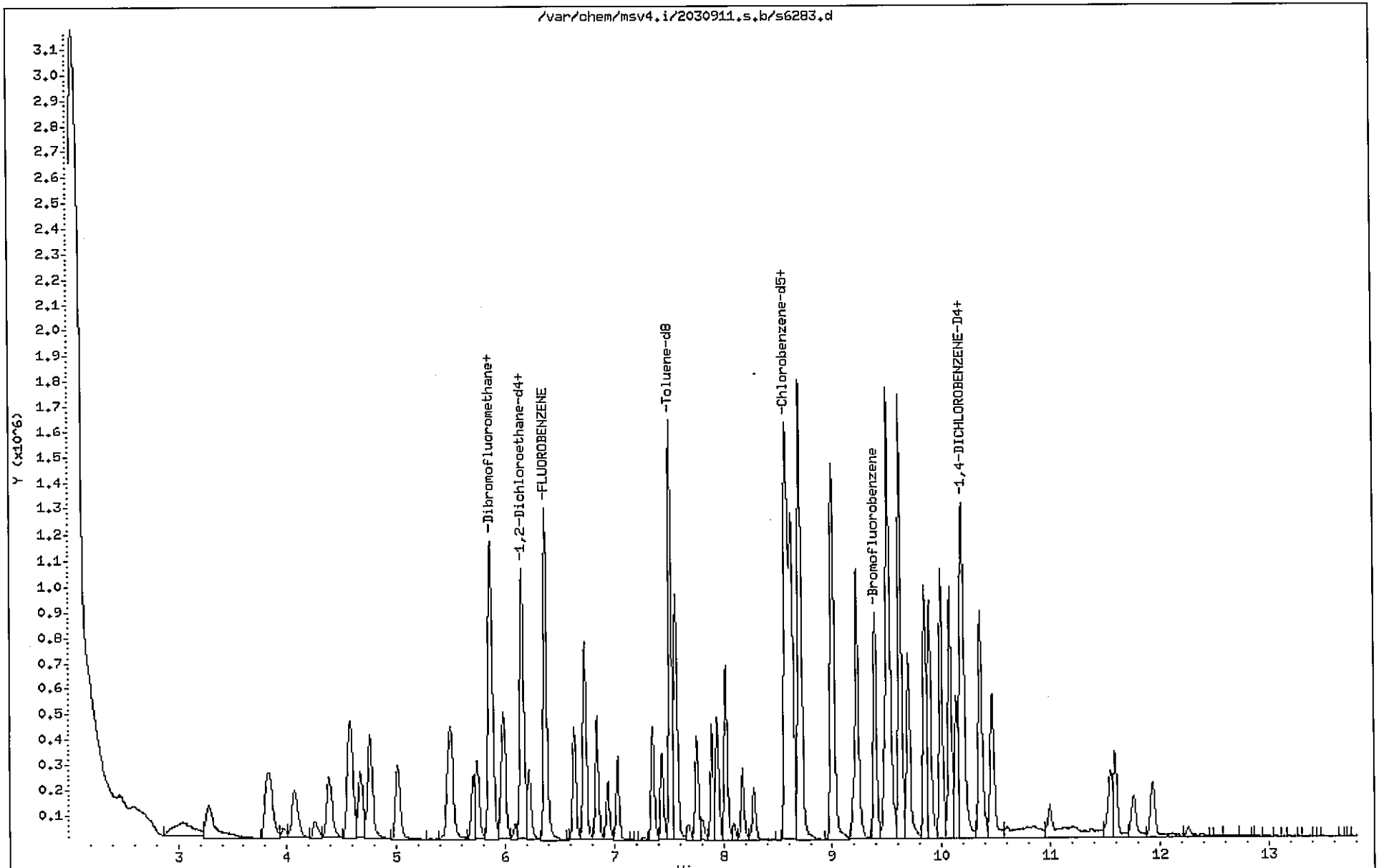

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 01-SEP-2003
Instrument: msv2.i
Analyst(s): RJO

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

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blank		s8033.d	5.00	01-SEP-2003 12:40	1.000	4
1206		s8034.d	5.00	01-SEP-2003 13:35	1.000	2
1201		s8035.d	5.00	01-SEP-2003 13:56	1.000	3
1202		s8036.d	5.00	01-SEP-2003 14:17	1.000	4
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1204		s8038.d	5.00	01-SEP-2003 14:58	1.000	6
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20308221501MSD		s8049.d	5.00	01-SEP-2003 18:55	50.000	17

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 02-SEP-2003
Instrument: msv2.i
Analyst(s): RJO

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
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ICV		s8052.d	5.00	02-SEP-2003 14:27	1.000	9
117305		s8054.d	5.00	02-SEP-2003 14:49	1.000	11
117306		s8055.d	5.00	02-SEP-2003 15:10	1.000	12
117307		s8056.d	5.00	02-SEP-2003 15:31	1.000	13
BLANK		s8057.d	5.00	02-SEP-2003 15:53	1.000	14
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20309020307		s8060.d	5.00	02-SEP-2003 17:22	1.000	17
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20309022003		s8070.d	5.00	02-SEP-2003 20:55	1.000	27
20309022004		s8071.d	5.00	02-SEP-2003 21:16	1.000	28
20309022005		s8072.d	5.00	02-SEP-2003 21:37	1.000	29

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 10-SEP-2003
Instrument: msv2.i
Analyst(s): HJL

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s8272.d	0.00	10-SEP-2003 08:12	1.000	2
1400		s8273.d	5.00	10-SEP-2003 08:45	1.000	2
1400		s8274.d	5.00	10-SEP-2003 09:22	1.000	3
118232		s8275.d	5.00	10-SEP-2003 09:55	1.000	3
118000		s8276.d	5.00	10-SEP-2003 10:16	1.000	4
118233		s8277.d	5.00	10-SEP-2003 10:37	1.000	5
20309091304		s8278.d	5.00	10-SEP-2003 11:07	40.000	6
20309091305		s8279.d	5.00	10-SEP-2003 11:28	40.000	7
20309090701		s8280.d	5.00	10-SEP-2003 11:50	40.000	8
118315		s8281.d	5.00	10-SEP-2003 12:21	40.000	6
118316		s8282.d	5.00	10-SEP-2003 12:43	40.000	7
BLANK		s8283.d	5.00	10-SEP-2003 13:04	1.000	8
20309090702		s8284.d	5.00	10-SEP-2003 13:25	40.000	10
20309100105		s8285.d	5.00	10-SEP-2003 13:46	1.000	9
20309100103		s8286.d	5.00	10-SEP-2003 14:08	1.000	10
20309100104		s8287.d	5.00	10-SEP-2003 14:29	1.000	11
20309100809		s8288.d	5.00	10-SEP-2003 15:16	1.000	12
20309100810		s8289.d	5.00	10-SEP-2003 15:37	1.000	13
20309100811		s8290.d	5.00	10-SEP-2003 15:59	1.000	14
20309100105		s8291.d	5.00	10-SEP-2003 16:41	1.000	9

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 11-SEP-2003
Instrument: msv2.i
Analyst(s): RSP

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s8292.d	0.00	11-SEP-2003 07:20	1.000	2
1000		s8292a.d	0.00	11-SEP-2003 07:20	1.000	2
1400		s8293.d	5.00	11-SEP-2003 07:49	1.000	2
1400		s8294.d	5.00	11-SEP-2003 08:20	1.000	3
1400		s8294a.d	5.00	11-SEP-2003 08:20	1.000	3
118440		s8295.d	5.00	11-SEP-2003 08:54	50.000	3
118441		s8296.d	5.00	11-SEP-2003 09:15	50.000	4
		s8297.d	5.00	11-SEP-2003 09:36	50.000	5
118442		s8298.d	5.00	11-SEP-2003 09:57	50.000	6
20309103803		s8299.d	6.28	11-SEP-2003 10:24	50.000	7
118489		s8300.d	5.00	11-SEP-2003 11:49	1.000	3
118490		s8301.d	5.00	11-SEP-2003 12:10	1.000	4
118491		s8302.d	5.00	11-SEP-2003 12:31	1.000	6
118491		s8303.d	5.00	11-SEP-2003 12:52	1.000	7
20309103808		s8304.d	5.00	11-SEP-2003 13:14	1.000	8
20309103809		s8305.d	5.00	11-SEP-2003 13:35	1.000	8
20309100807		s8306.d	5.00	11-SEP-2003 15:45	50.000	9
BLANK		s8307.d	5.00	11-SEP-2003 16:21	1.000	10
20309100808		s8308.d	5.00	11-SEP-2003 16:58	50.000	9

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 06-SEP-2003
Instrument: msv4.i
Analyst(s): RJO

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s6163.d	0.00	06-SEP-2003 07:34	1.000	2
BLANK		s6164.d	5.00	06-SEP-2003 08:07	1.000	2
1206		s6165.d	5.00	06-SEP-2003 08:35	1.000	3
1201		s6166.d	5.00	06-SEP-2003 09:03	1.000	4
1202		s6167.d	5.00	06-SEP-2003 09:32	1.000	5
1203		s6168.d	5.00	06-SEP-2003 10:00	1.000	6
1204		s6169.d	5.00	06-SEP-2003 10:28	1.000	7
1205		s6170.d	5.00	06-SEP-2003 10:57	1.000	8
BLANK		s6171.d	5.00	06-SEP-2003 11:25	1.000	9
BLANK		s6172.d	5.00	06-SEP-2003 11:53	1.000	10
ICV		s6173.d	5.00	06-SEP-2003 12:22	1.000	6
BLANK		s6174.d	5.00	06-SEP-2003 12:50	1.000	9
LCS		s6175.d	5.00	06-SEP-2003 13:18	1.000	10
BLANK		s6176.d	5.00	06-SEP-2003 13:47	1.000	11
BLANK		s6177.d	5.00	06-SEP-2003 14:15	1.000	12
MDL001		s6178.d	5.00	06-SEP-2003 14:55	1.000	14
MDL001		s6179.d	5.00	06-SEP-2003 15:23	1.000	15
MDL001		s6180.d	5.00	06-SEP-2003 15:51	1.000	16
MDL001		s6181.d	5.00	06-SEP-2003 16:20	1.000	17
MDL001		s6182.d	5.00	06-SEP-2003 16:48	1.000	18
MDL001		s6183.d	5.00	06-SEP-2003 17:16	1.000	19
MDL001		s6184.d	5.00	06-SEP-2003 17:45	1.000	20
MDL001		s6185.d	5.00	06-SEP-2003 18:13	1.000	21
MDL001		s6186.d	5.00	06-SEP-2003 18:41	1.000	22
MDL001		s6187.d	5.00	06-SEP-2003 19:10	1.000	23
MDL001		s6188.d	5.00	06-SEP-2003 19:38	1.000	24
MDL001		s6189.d	5.00	06-SEP-2003 20:06	1.000	25

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 11-SEP-2003
Instrument: msv4.i
Analyst(s): RSP

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s6271.d	0.00	11-SEP-2003 07:42	1.000	2
BLK		s6272.d	5.00	11-SEP-2003 08:17	1.000	2
1400		s6273.d	5.00	11-SEP-2003 08:46	1.000	3
BLANK		s6274.d	5.00	11-SEP-2003 09:15	1.000	4
118435		s6275.d	5.00	11-SEP-2003 09:51	1.000	5
BLANK		s6276.d	5.00	11-SEP-2003 10:19	1.000	6
118436		s6277.d	5.00	11-SEP-2003 10:48	1.000	7
20309100801		s6279.d	4.85	11-SEP-2003 11:28	1.000	9
20309100804		s6280.d	5.62	11-SEP-2003 11:57	1.000	10
20309100802		s6281.d	4.66	11-SEP-2003 12:25	1.000	11
BLK		s6282.d	5.00	11-SEP-2003 12:53	1.000	12
20309100803		s6283.d	4.73	11-SEP-2003 13:25	1.000	12
BLANK		s6284.d	5.00	11-SEP-2003 13:54	1.000	13
20309100805		s6285.d	4.80	11-SEP-2003 14:22	1.000	14
20309100806		s6286.d	5.35	11-SEP-2003 14:51	1.000	15
20309100807		s6287.d	6.09	11-SEP-2003 15:19	1.000	16
20309100808		s6288.d	5.00	11-SEP-2003 15:48	1.000	17
BLK		s6289.d	5.00	11-SEP-2003 16:16	1.000	18
BLK		s6290.d	5.00	11-SEP-2003 16:45	1.000	19
BLK		s6291.d	5.00	11-SEP-2003 17:13	1.000	20
20309100808		s6292.d	5.42	11-SEP-2003 17:41	1.000	17
BLANK		s6293.d	5.00	11-SEP-2003 18:09	1.000	18
BLANK		s6294.d	5.00	11-SEP-2003 18:38	1.000	19

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 09-SEP-2003
Instrument: msv0.i
Analyst(s): RSP

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s6061.d	0.00	09-SEP-2003 14:21	1.000	2
BLK		s6062.d	5.00	09-SEP-2003 14:59	1.000	2
1206		s6063.d	5.00	09-SEP-2003 15:20	1.000	3
1201		s6064.d	5.00	09-SEP-2003 15:42	1.000	4
1202		s6065.d	5.00	09-SEP-2003 16:04	1.000	5
1203		s6066.d	5.00	09-SEP-2003 16:26	1.000	6
1204		s6067.d	5.00	09-SEP-2003 16:47	1.000	7
1205		s6068.d	5.00	09-SEP-2003 17:09	1.000	8
BLK		s6069.d	5.00	09-SEP-2003 17:31	1.000	9
ICV		s6070.d	5.00	09-SEP-2003 18:30	1.000	10
BLK		s6071.d	5.00	09-SEP-2003 18:52	1.000	11
118234		s6072.d	5.00	09-SEP-2003 19:13	1.000	12
118235		s6073.d	5.00	09-SEP-2003 19:35	1.000	13
118236		s6074.d	5.00	09-SEP-2003 19:57	1.000	14
118236		s6075.d	5.00	09-SEP-2003 20:18	1.000	15
118236		s6076.d	5.00	09-SEP-2003 20:40	1.000	16
20309100101		s6077.d	5.78	09-SEP-2003 21:34	1.000	17
20309100102		s6078.d	6.42	09-SEP-2003 21:55	1.000	18

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 11-SEP-2003
Instrument: msv0.i
Analyst(s): RSP

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s6111.d	0.00	11-SEP-2003 07:36	1.000	2
BLANK		s6112.d	5.00	11-SEP-2003 08:09	1.000	2
1400		s6113.d	5.00	11-SEP-2003 08:31	1.000	3
BLANK		s6114.d	5.00	11-SEP-2003 08:52	1.000	4
1400		s6115.d	5.00	11-SEP-2003 09:21	1.000	3
BLANK		s6116.d	5.00	11-SEP-2003 09:42	1.000	4
118484		s6117.d	5.00	11-SEP-2003 10:16	1.000	5
118485		s6118.d	5.00	11-SEP-2003 10:38	1.000	6
BLANK		s6119.d	5.00	11-SEP-2003 10:59	1.000	7
118486		s6120.d	5.00	11-SEP-2003 11:20	1.000	8
20309103802		s6121.d	5.49	11-SEP-2003 11:55	1.000	9
20309103805		s6122.d	3.91	11-SEP-2003 12:16	1.000	10
20309103806		s6123.d	6.19	11-SEP-2003 12:54	1.000	11
20309103807		s6124.d	5.03	11-SEP-2003 13:15	1.000	12
20309100804		s6125.d	5.62	11-SEP-2003 15:14	1.000	13
BLK		s6126.d	5.00	11-SEP-2003 15:35	1.000	14
BLK		s6127.d	5.00	11-SEP-2003 15:57	1.000	15

REVISED 01/01/2000

STANDARD PREPARATION LOGBOOK

000305

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
3-2-CLP Ketone SURR-B	4-24-1	ES-5038-2 200ppm	Cambridge	PS02G463 PR-12932	0.5ml	2.0ml	50ppm	meOH 028443	RW	5-2-03	11-1-03
3-2CLP-IS	4-24-2	200488 2500ppm	Abs 2500ppm	051601 Exp - 051606	1ml	50ml	50ppm	meOH 028443	RW	5-2-03	11-1-03
8260 IS/SS MSV 2+3	4-24-3	C-440-05 Surr.	NSI 2500 ppm	C-440-05 Exp 02/05	0.5 ml	50ml	25 ppm	meOH 028443	HJL	5-3-03	11-2-03
		C-441-04 Int. STD	NSI 2500 ppm	C-441-04 Exp 02/04	0.5 ml						
Ac/Ac	4-24-4	Q-2143	NSF 050103 04 Exp-11-03	0510304 Exp-11-03	3.125ml	25ml	50ppm	Water	RW	5-6-03	11-5-03
8260 ICV	4-24-5	93017 2000 ppm	Abs 2000 ppm	110101 Exp. 11-01-04	0.625 ml	5 ml	250 ppm	meOH 027979	HJL	5-7-03	11-06-03
		30058 2000 ppm	Abs 2000 ppm	121202 Exp. 12-12-05	0.625 ml	5 ml	250 ppm	meOH 027971	HJL	5-7-03	11-6-03
		93338 2500 ppm	Abs 2500 ppm	122302 Exp. 12-23-07	0.5 ml	5 ml	250 ppm	meOH 027971	HJL	5-7-03	11-6-03
AC/AC ICV	4-24-6	93018	Abs	022503 Exp. 02-25-06	1.250 ml	10 ml	50 ppm	water	HJL	5-7-03	11-06-03
~~8260-ABS~~	~~4-24-7~~	30058		RW					RW		
~~8260 STD~~	~~Q-3393~~										
8260 STD	4-24-7	Q-3393	NSI 1000ppm	050103-03 Exp-5-04	6.250 ml	25 ml	250 ppm	meOH 027971	RW	5-7-03	11-6-03
		C-303H 5000	NCI 2000ppm	031703 Exp-03-04	3.125 ml						
		Q-2128	NSI 2000 ppm	031803-04 Exp - 1-04	3.125 ml						
3-2CLP-Ketone SURR-B	4-24-8	ES-5038-2 200ppm	Cambridge	PR - 14255	0.5ml	2.0ml	50ppm	meOH 027971	RW	5-8-03	11-7-03
CLP IS/SS 2:1	4-24-9	C-157-03 INT STD	NSI 250ppm	C-157-03 Exp-09-04	500ul	50ml	25 ppm	meOH 027971	RW	5-13-03	11-12-03
		233-04-06	200 ppm	233-04-06 Exp-08-04	6364ul						
~~CLP BFB~~	~~4-24-10~~	~~233-04-06~~ NSF	~~NSI~~ 200ppm								

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
CLP Ketone 2-1-mix	4-25-1	C-109-10	NSF 2000 ppm	C-109-10 Exp-11-03	1.0 ml	10 ml	200 ppm	water	RK	5-13-03	11-12-03 RJS-5-13
1-Bromo-2-chloroethane	4-25-2	71245	Abs 1000 ppm	012003 Exp. 01-20-08	1.25 ml	5 ml	250 ppm	028443 MeOH	HJL	5-14-03	11-13-03
3.2-CLP Ketone SURR-B	4-25-3	ES-5038-2 200 ppm	Cambridge	PR-14255	0.5 ml	2 ml	50 ppm	meOH 028443	RK	5-14-03	11-13-03
AC/AE	4-25-4	NSF Q-2143	NSF	050103-04 Exp-11-03	3.125	25 ml	water 50 ppm	water	RK	5-19-03	11-18-03
AE/AC ICV	4-25-5	93018	Abs	022503 Exp-02-25-06	0.625	5 ml	50 ppm	water	RK	5-19-03	11-18-03
8260 IS/SS	4-25-6	C-440-05 2000 ppm	NSF	C-440-05 Exp-02-05	2.0 ml	100 ml	50 ppm	meOH	RK	5-20-03	11-19-03
		C-441-04 2000 ppm	NSF IS	C-441-04 Exp-02-04	2.0 ml			028443			
8260 SS	4-25-7	C-440-05 2000 ppm	NSF	C-440-05 Exp-02-05	1.25 ml	10 ml	250 ppm	meOH 028443	RK	5-20-03	11-19-03
Dates 4/24/03 - 5/20/03 reviewed By QA/QC 5/22/03											
DUPONT STD	4-25-8	Q-3160	NSI	060203-04 EXP 12-03	1.25 ml	10 ml	250 ppm	Methanol 027971	RJO	6-5-03	11-31-03
8260 IS/SS	4-25-9	C-440-05	NSI	C-440-05 Exp 02-05	1.0 ml	100 ml	25 ppm	Methanol 027971	RJO	6-11-03	12-10-03 ~~6-11-03~~
		C441-04	NSI	C441-04 Exp 02-04	1.0 ml	100 ml					
AC/AC	4-25-10	Q-2143	NSI	050103-04	3.125 ml	25 ml	50 ppm	DeIonized H2O	RJO	6-13-03	10-31-03 ~~10-12-03~~
8260 FS SS	4-25-11	C-440-05 2500 ppm	NSI	C-440-05 → # Exp-02-05	2.0 ml	100 ml	50 ppm	meOH 033518	RJP	6-25-03	11-24-03
		C-441-04 2500 ppm	NSF	C-441-04 Exp-02-04	2.0 ml						
8260 IS	4-25-12	C-441-04 2500 ppm	NSF	C-441-04 Exp-02-04	2.0 ml	100 ml	50 ppm	meOH 033518	RK	6-25-03	11-24-03
8260 IS	4-25-13	C-440-05 2500 ppm	NSF	C-440-05 Exp-02-05	2.5 ml	25 ml	250 ppm	meOH 033518	RK	6-25-03	11-24-03
Dates 6/5/03 - 6/25/03 reviewed By QA/QC 6/25/03											

000306

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
2-CVE	5-1-1	17-04-06	NSI 1002.6 ppm	17-04-06 Exp. 02/05	2.5 ml	10 ml	250 ppm	MeOH 033518	HJL	6-29-03	11-28-03
App9-mix-1 ICV	5-1-2	93014 2500ppm	Abs	120402 Exp-120405	1.0 ml	10 ml	250 ppm	meOH 033518	RR	6-29-03	11-28-03 ~~11-28-03~~
App9-mix-2 ICV	5-1-3	93015	Abs	120402 Exp-120605	1.25 ml	5 ml	50 ppm	MeOH 033518	RR	6-29-03	11-28-03
1-3-butadiene ICV	5-1-4	93016	Abs	120602 Exp-120605	1.0 ml	10 ml	250 ppm	meOH 033518	RR	6-29-03	11-28-03
2-CVE ICV	5-1-5	82408	2000 ppm Abs	081502 Exp. 8-15-05	1.25 ml	10 ml	250 ppm	MeOH 033518	HJL	7-17-03	12-16-03
8260 IS/SS	C-440-05 SURR	C-440-05 Exp-02-05	2500 ppm NSI	RR 7-24-03							
	~~C-441-04 INT STD~~	~~C-441-04 Exp-02-04~~	NSF 2500 ppm	~~7-25-03~~ RR							
8260 IS/SS	5-1-6	C-440-05	NSI 2500 ppm	C-440-05 Exp-02-05	2.0 ml	100 ml	50 ppm	meOH 033518	RR	7-24-03	1-23-04
		C-441-04	NSF 2500 ppm	C-441-04 Exp-02-04	2.0 ml						
Dates 6/29/03 - 7/24/03 reviewed by QA/QC 7/25/03 (Ok)											
2-CVE	5-1-7	17-04-06 Exp-02-05	NSF 1000 ppm	C-17-04-06	6.250 ml	25 ml	250 ppm	meOH 033518	RR	07-27-03	1-26-04
8260 STD	5-1-8	Q-3393	NSF 1000 ppm	052303-03 Exp-05-04	6.250 ml	25 ml	250 ppm	meOH 033518	RR	07-27-03	1-26-04
		C-303H gases	NSF 2000 ppm	031003 Exp-03-04	3.125 ml						
		Q-2128	NSI 2000 ppm	031803-04 Exp-04-	3.125 ml						
Ae/Ae	5-1-9	Q-2143	NSI	050103-04 Exp-11-03	3.125	25 ml	50 ppm Each	Water NA	RR	8-01-03	11-30-03
8260 IS/SS	5-1-10	C-440-05 SURR	NSF 2500 ppm	C-440-05 Exp-02-05	0.5 ml	50 ml ~~25 ml~~	25 ppm	meOH 033518	RR	8-1-03	2-28-04
		C-441-04 INT STD	NSF 2500 ppm	C-441-04 Exp-02-04	0.5 ml	RR 8-1-03					
Dupont	5-1-11	92782	Abs 2000	0212-01 Exp-02-04	1.25 ml	10 ml	250 ppm	meOH 033518	RR	8-1-03	02-28-04

000307

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 7. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT03S030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100801

Date Collected 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1251

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.1	U	9.82	36.1
91-57-6	2-Methylnaphthalene	36.1	U	10.9	36.1
83-32-9	Acenaphthene	36.1	U	10.5	36.1
208-96-8	Acenaphthylene	36.1	U	4.03	36.1
120-12-7	Anthracene	3.58	U	0.511	3.58
56-55-3	Benzo(a)anthracene	3.58	U	1.29	3.58
50-32-8	Benzo(a)pyrene	3.58	U	1.20	3.58
205-99-2	Benzo(b)fluoranthene	3.58	U	0.781	3.58
191-24-2	Benzo(g,h,i)perylene	3.58	U	0.401	3.58
207-08-9	Benzo(k)fluoranthene	3.58	U	0.916	3.58
218-01-9	Chrysene	3.58	U	1.02	3.58
53-70-3	Dibenz(a,h)anthracene	3.58	U	0.956	3.58
206-44-0	Fluoranthene	3.58	U	0.993	3.58
86-73-7	Fluorene	22.0		3.81	18.1
193-39-5	Indeno(1,2,3-cd)pyrene	9.00	U	0.988	9.00
91-20-3	Naphthalene	37.4		3.34	9.00
85-01-8	Phenanthrene	3.58	U	0.976	3.58
129-00-0	Pyrene	3.58	U	0.516	3.58

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 7. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT03S030908MS

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100802

Date Collected 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1258

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	358		9.82	36.1
91-57-6	2-Methylnaphthalene	281		10.9	36.1
83-32-9	Acenaphthene	280		10.5	36.1
208-96-8	Acenaphthylene	184		4.03	36.1
120-12-7	Anthracene	4.60		0.511	3.58
56-55-3	Benzo(a)anthracene	15.1		1.29	3.58
50-32-8	Benzo(a)pyrene	13.6		1.20	3.58
205-99-2	Benzo(b)fluoranthene	4.93		0.781	3.58
191-24-2	Benzo(g,h,i)perylene	28.9		0.401	3.58
207-08-9	Benzo(k)fluoranthene	6.35		0.916	3.58
218-01-9	Chrysene	9.55		1.02	3.58
53-70-3	Dibenz(a,h)anthracene	77.8		0.956	3.58
206-44-0	Fluoranthene	14.0		0.993	3.58
86-73-7	Fluorene	48.5		3.81	18.1
193-39-5	Indeno(1,2,3-cd)pyrene	12.3		0.988	9.00
91-20-3	Naphthalene	140		3.34	9.00
85-01-8	Phenanthrene	10.4		0.976	3.58
129-00-0	Pyrene	26.5		0.516	3.58

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 7. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT03S030908MSD

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100803

Date Collected 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1305

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	431		9.82	36.1
91-57-6	2-Methylnaphthalene	298		10.9	36.1
83-32-9	Acenaphthene	310		10.5	36.1
208-96-8	Acenaphthylene	219		4.03	36.1
120-12-7	Anthracene	4.58		0.511	3.58
56-55-3	Benzo(a)anthracene	15.1		1.29	3.58
50-32-8	Benzo(a)pyrene	12.8		1.20	3.58
205-99-2	Benzo(b)fluoranthene	5.89		0.781	3.58
191-24-2	Benzo(g,h,i)perylene	30.9		0.401	3.58
207-08-9	Benzo(k)fluoranthene	6.86		0.916	3.58
218-01-9	Chrysene	11.1		1.02	3.58
53-70-3	Dibenz(a,h)anthracene	91.2		0.956	3.58
206-44-0	Fluoranthene	15.1		0.993	3.58
86-73-7	Fluorene	49.0		3.81	18.1
193-39-5	Indeno(1,2,3-cd)pyrene	14.9		0.988	9.00
91-20-3	Naphthalene	162		3.34	9.00
85-01-8	Phenanthrene	11.5		0.976	3.58
129-00-0	Pyrene	28.5		0.516	3.58

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 16 decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT04S030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100804

Date Collected 09/08/03 Time: 1515

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1545

Dilution Factor: 10 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	1150		108	398
91-57-6	2-Methylnaphthalene	563		121	398
83-32-9	Acenaphthene	3880		116	398
208-96-8	Acenaphthylene	398	U	44.4	398
120-12-7	Anthracene	39.4	U	5.63	39.4
56-55-3	Benzo(a)anthracene	39.4	U	14.2	39.4
50-32-8	Benzo(a)pyrene	159		13.3	39.4
205-99-2	Benzo(b)fluoranthene	39.4	U	8.60	39.4
191-24-2	Benzo(g,h,i)perylene	39.4	U	4.42	39.4
207-08-9	Benzo(k)fluoranthene	39.4	U	10.1	39.4
218-01-9	Chrysene	39.4	U	11.3	39.4
53-70-3	Dibenz(a,h)anthracene	39.4	U	10.5	39.4
206-44-0	Fluoranthene	39.4	U	10.9	39.4
86-73-7	Fluorene	199	U	41.9	199
193-39-5	Indeno(1,2,3-cd)pyrene	99.1	U	10.9	99.1
91-20-3	Naphthalene	184		36.8	99.1
85-01-8	Phenanthrene	39.4	U	10.7	39.4
129-00-0	Pyrene	39.4	U	5.69	39.4

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 9. decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT05S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100805

Date Collected 09/09/03 Time: 1025

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1319

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000535

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
90-12-0	1-Methylnaphthalene	37.0	U	10.1	37.0
91-57-6	2-Methylnaphthalene	37.0	U	11.2	37.0
83-32-9	Acenaphthene	37.0	U	10.8	37.0
208-96-8	Acenaphthylene	37.0	U	4.13	37.0
120-12-7	Anthracene	3.66	U	0.523	3.66
56-55-3	Benzo(a)anthracene	3.66	U	1.32	3.66
50-32-8	Benzo(a)pyrene	8.08		1.23	3.66
205-99-2	Benzo(b)fluoranthene	3.66	U	0.799	3.66
191-24-2	Benzo(g,h,i)perylene	3.66	U	0.411	3.66
207-08-9	Benzo(k)fluoranthene	3.66	U	0.938	3.66
218-01-9	Chrysene	3.66	U	1.05	3.66
53-70-3	Dibenz(a,h)anthracene	3.66	U	0.979	3.66
206-44-0	Fluoranthene	3.66	U	1.02	3.66
86-73-7	Fluorene	19.3		3.90	18.5
193-39-5	Indeno(1,2,3-cd)pyrene	9.21	U	1.01	9.21
91-20-3	Naphthalene	31.6		3.42	9.21
85-01-8	Phenanthrene	3.66	U	0.999	3.66
129-00-0	Pyrene	3.66	U	0.528	3.66

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 12 decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT06S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100806

Date Collected 09/09/03 Time: 1050

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1326

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 030912/H000535

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	37.6	J	10.4	38.2
91-57-6	2-Methylnaphthalene	38.2	U	11.6	38.2
83-32-9	Acenaphthene	38.2	U	11.1	38.2
208-96-8	Acenaphthylene	38.2	U	4.26	38.2
120-12-7	Anthracene	3.78	U	0.540	3.78
56-55-3	Benzo(a)anthracene	3.78	U	1.36	3.78
50-32-8	Benzo(a)pyrene	3.78	U	1.27	3.78
205-99-2	Benzo(b)fluoranthene	3.78	U	0.825	3.78
191-24-2	Benzo(g,h,i)perylene	3.78	U	0.424	3.78
207-08-9	Benzo(k)fluoranthene	3.78	U	0.968	3.78
218-01-9	Chrysene	3.78	U	1.08	3.78
53-70-3	Dibenz(a,h)anthracene	3.78	U	1.01	3.78
206-44-0	Fluoranthene	3.78	U	1.05	3.78
86-73-7	Fluorene	25.1		4.02	19.1
193-39-5	Indeno(1,2,3-cd)pyrene	9.51	U	1.04	9.51
91-20-3	Naphthalene	39.3		3.53	9.51
85-01-8	Phenanthrene	3.78	U	1.03	3.78
129-00-0	Pyrene	3.78	U	0.545	3.78

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 14 decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86JT12S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100807

Date Collected 09/09/03 Time: 1115

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1552

Dilution Factor: 100 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000536

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	58900		1060	3890
91-57-6	2-Methylnaphthalene	31600		1180	3890
83-32-9	Acenaphthene	64700		1140	3890
208-96-8	Acenaphthylene	3890	U	434	3890
120-12-7	Anthracene	385	U	55.0	385
56-55-3	Benzo(a)anthracene	385	U	139	385
50-32-8	Benzo(a)pyrene	5860		130	385
205-99-2	Benzo(b)fluoranthene	385	U	84.1	385
191-24-2	Benzo(g,h,i)perylene	385	U	43.2	385
207-08-9	Benzo(k)fluoranthene	385	U	98.7	385
218-01-9	Chrysene	385	U	110	385
53-70-3	Dibenz(a,h)anthracene	385	U	103	385
206-44-0	Fluoranthene	385	U	107	385
86-73-7	Fluorene	1950	U	410	1950
193-39-5	Indeno(1,2,3-cd)pyrene	969	U	106	969
91-20-3	Naphthalene	23500		360	969
85-01-8	Phenanthrene	385	U	105	385
129-00-0	Pyrene	385	U	55.6	385

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 12 decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID 86DUPS030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100808

Date Collected Time:

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1559

Dilution Factor: 10 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000536

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	415		103	380
91-57-6	2-Methylnaphthalene	380	U	115	380
83-32-9	Acenaphthene	682		111	380
208-96-8	Acenaphthylene	380	U	42.4	380
120-12-7	Anthracene	37.7	U	5.37	37.7
56-55-3	Benzo(a)anthracene	37.7	U	13.6	37.7
50-32-8	Benzo(a)pyrene	63.8		12.7	37.7
205-99-2	Benzo(b)fluoranthene	37.7	U	8.22	37.7
191-24-2	Benzo(g,h,i)perylene	37.7	U	4.22	37.7
207-08-9	Benzo(k)fluoranthene	37.7	U	9.64	37.7
218-01-9	Chrysene	37.7	U	10.8	37.7
53-70-3	Dibenz(a,h)anthracene	37.7	U	10.1	37.7
206-44-0	Fluoranthene	37.7	U	10.5	37.7
86-73-7	Fluorene	191	U	40.0	191
193-39-5	Indeno(1,2,3-cd)pyrene	94.7	U	10.4	94.7
91-20-3	Naphthalene	118		35.1	94.7
85-01-8	Phenanthrene	37.7	U	10.3	37.7
129-00-0	Pyrene	37.7	U	5.43	37.7

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

Sample ID 86PREBW030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100809

Date Collected 09/08/03 Time: 1415

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1037

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

Sample ID 86PTEBW030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100810

Date Collected 09/09/03 Time: 1130

Date Received: 09/10/03

Date Extracted:

Date Analyzed: 09/12/03 Time: 1044

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID MB118321

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118321

Date Collected Time:

Date Received:

Date Extracted:

Date Analyzed: 09/12/03 Time: 1238

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	33.3	U	9.06	33.3
91-57-6	2-Methylnaphthalene	33.3	U	10.1	33.3
83-32-9	Acenaphthene	33.3	U	9.72	33.3
208-96-8	Acenaphthylene	33.3	U	3.72	33.3
120-12-7	Anthracene	3.30	U	0.471	3.30
56-55-3	Benzo(a)anthracene	3.30	U	1.19	3.30
50-32-8	Benzo(a)pyrene	3.30	U	1.11	3.30
205-99-2	Benzo(b)fluoranthene	3.30	U	0.720	3.30
191-24-2	Benzo(g,h,i)perylene	3.30	U	0.370	3.30
207-08-9	Benzo(k)fluoranthene	3.30	U	0.845	3.30
218-01-9	Chrysene	3.30	U	0.943	3.30
53-70-3	Dibenz(a,h)anthracene	3.30	U	0.882	3.30
206-44-0	Fluoranthene	3.30	U	0.916	3.30
86-73-7	Fluorene	16.7	U	3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	8.30	U	0.911	8.30
91-20-3	Naphthalene	8.30	U	3.08	8.30
85-01-8	Phenanthrene	3.30	U	0.900	3.30
129-00-0	Pyrene	3.30	U	0.476	3.30

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

CONCENTRATION UNITS: ug/L

Sample ID MB118431

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118431

Date Collected Time:

Date Received:

Date Extracted:

Date Analyzed: 09/12/03 Time: 1016

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262261 Analytical Batch: 262340

Sample ID LCS118322

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118322

Date Collected Time:

Date Received:

Date Extracted:

Date Analyzed: 09/12/03 Time: 1245

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	377		9.06	33.3
91-57-6	2-Methylnaphthalene	274		10.1	33.3
83-32-9	Acenaphthene	296		9.72	33.3
208-96-8	Acenaphthylene	174		3.72	33.3
120-12-7	Anthracene	5.17		0.471	3.30
56-55-3	Benzo(a)anthracene	13.6		1.19	3.30
50-32-8	Benzo(a)pyrene	13.0		1.11	3.30
205-99-2	Benzo(b)fluoranthene	5.41		0.720	3.30
191-24-2	Benzo(g,h,i)perylene	35.8		0.370	3.30
207-08-9	Benzo(k)fluoranthene	4.68		0.845	3.30
218-01-9	Chrysene	13.9		0.943	3.30
53-70-3	Dibenz(a,h)anthracene	81.1		0.882	3.30
206-44-0	Fluoranthene	12.7		0.916	3.30
86-73-7	Fluorene	43.1		3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	15.4		0.911	8.30
91-20-3	Naphthalene	128		3.08	8.30
85-01-8	Phenanthrene	10.4		0.900	3.30
129-00-0	Pyrene	25.9		0.476	3.30

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

Sample ID LCS118432

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118432

Date Collected Time:

Date Received:

Date Extracted:

Date Analyzed: 09/12/03 Time: 1023

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	10.2		0.291	1.00
91-57-6	2-Methylnaphthalene	9.49		0.142	1.00
83-32-9	Acenaphthene	8.81		0.331	1.00
208-96-8	Acenaphthylene	4.33		0.153	1.00
120-12-7	Anthracene	0.189		0.024	0.100
56-55-3	Benzo(a)anthracene	0.452		0.032	0.100
50-32-8	Benzo(a)pyrene	0.695		0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.213		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.734		0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.260		0.033	0.100
218-01-9	Chrysene	0.488		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	1.91		0.029	0.100
206-44-0	Fluoranthene	0.443		0.044	0.100
86-73-7	Fluorene	1.07		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.440		0.041	0.250
91-20-3	Naphthalene	3.90		0.124	0.250
85-01-8	Phenanthrene	0.365		0.025	0.100
129-00-0	Pyrene	0.959		0.034	0.100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262299 Analytical Batch: 262340

CONCENTRATION UNITS: ug/L

Sample ID LCSD118433

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118433

Date Collected Time:

Date Received:

Date Extracted:

Date Analyzed: 09/12/03 Time: 1030

Dilution Factor: 1 Analyst: JDT

Prep Method:

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 030912/H000534

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	9.94		0.291	1.00
91-57-6	2-Methylnaphthalene	8.97		0.142	1.00
83-32-9	Acenaphthene	8.48		0.331	1.00
208-96-8	Acenaphthylene	4.37		0.153	1.00
120-12-7	Anthracene	0.178		0.024	0.100
56-55-3	Benzo(a)anthracene	0.467		0.032	0.100
50-32-8	Benzo(a)pyrene	0.692		0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.205		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.714		0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.249		0.033	0.100
218-01-9	Chrysene	0.473		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	1.91		0.029	0.100
206-44-0	Fluoranthene	0.381		0.044	0.100
86-73-7	Fluorene	1.12		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.418		0.041	0.250
91-20-3	Naphthalene	4.05		0.124	0.250
85-01-8	Phenanthrene	0.367		0.025	0.100
129-00-0	Pyrene	1.22		0.034	0.100

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

GC Column (1) 201TP-0.15 ID: 2.1 (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8310

	EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1.	86JT03S030908	90								0
2.	86JT03S030908MS	81								0
3.	86JT03S030908MSD	90								0
4.	86JT04S030908	0	D							0
5.	86JT05S030909	83								0
6.	86JT06S030909	76								0
7.	86JT12S030909	0	D							0
8.	86DUPS030908	0	D							0
9.	MB118321	89								0
10.	LCS118322	85								0

CONTROL LIMITS

SMC 1 : p-Terphenyl 40 140

SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

GC Column (1): 201TP-0.15 ID: 2.1 (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8310

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	86PREBW030908	88	40	140														0
2 .	86PTEBW030909	87	40	140														0
3 .	MB118431	80	40	140														0
4 .	LCS118432	91	40	140														0
5 .	LCSD118433	90	40	140														0

SMC 1 : p-Terphenyl SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8310

Prep Batch: 262261 Analytical Batch: 262340

Spike HSN : 118322

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/kg	333	0	377	113		40 - 140
2-Methylnaphthalene	ug/kg	333	0	274	82		40 - 140
Acenaphthene	ug/kg	333	0	296	89		40 - 140
Acenaphthylene	ug/kg	167	0	174	104		40 - 140
Anthracene	ug/kg	6.67	0	5.17	78		40 - 140
Benzo(a)anthracene	ug/kg	16.7	0	13.6	82		40 - 140
Benzo(a)pyrene	ug/kg	16.7	0	13	78		40 - 140
Benzo(b)fluoranthene	ug/kg	6.67	0	5.41	81		40 - 140
Benzo(g,h,i)perylene	ug/kg	26.7	0	35.8	134		40 - 140
Benzo(k)fluoranthene	ug/kg	6.67	0	4.68	70		40 - 140
Chrysene	ug/kg	16.7	0	13.9	83		40 - 140
Dibenz(a,h)anthracene	ug/kg	66.7	0	81.1	122		40 - 140
Fluoranthene	ug/kg	16.7	0	12.7	76		40 - 140
Fluorene	ug/kg	33.3	0	43.1	129		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	16.7	0	15.4	92		40 - 140
Naphthalene	ug/kg	167	0	128	77		40 - 140
Phenanthrene	ug/kg	13.3	0	10.4	78		40 - 140
Pyrene	ug/kg	33.3	0	25.9	78		40 - 140

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 18 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID 86JT03S030908

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8310

Prep Batch: 262261 Analytical Batch: 262340

Spike HSN : 2030910080

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/kg	361	0	358	99		40 - 140
2-Methylnaphthalene	ug/kg	361	0	281	78		40 - 140
Acenaphthene	ug/kg	361	0	280	77		40 - 140
Acenaphthylene	ug/kg	181	0	184	102		40 - 140
Anthracene	ug/kg	7.23	0	4.6	64		40 - 140
Benzo(a)anthracene	ug/kg	18.1	0	15.1	83		40 - 140
Benzo(a)pyrene	ug/kg	18.1	0	13.6	75		40 - 140
Benzo(b)fluoranthene	ug/kg	7.23	0	4.93	68		40 - 140
Benzo(g,h,i)perylene	ug/kg	28.9	0	28.9	100		40 - 140
Benzo(k)fluoranthene	ug/kg	7.23	0	6.35	88		40 - 140
Chrysene	ug/kg	18.1	0	9.55	53		40 - 140
Dibenz(a,h)anthracene	ug/kg	72.3	0	77.8	108		40 - 140
Fluoranthene	ug/kg	18.1	0	14	77		40 - 140
Fluorene	ug/kg	36.1	22	48.5	73		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	18.1	0	12.3	68		40 - 140
Naphthalene	ug/kg	181	37.4	140	57		40 - 140
Phenanthrene	ug/kg	14.4	0	10.4	72		40 - 140
Pyrene	ug/kg	36.1	0	26.5	73		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID 86JT03S030908

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8310

Prep Batch: 262261 Analytical Batch: 262340

Spike Dupe HSN : 2030910080

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/kg	361	431	119		18		40 - 140	0 - 30
2-Methylnaphthalene	ug/kg	361	298	83		6		40 - 140	0 - 30
Acenaphthene	ug/kg	361	310	86		11		40 - 140	0 - 30
Acenaphthylene	ug/kg	181	219	121		17		40 - 140	0 - 30
Anthracene	ug/kg	7.23	4.58	63		2		40 - 140	0 - 30
Benzo(a)anthracene	ug/kg	18.1	15.1	83		0		40 - 140	0 - 30
Benzo(a)pyrene	ug/kg	18.1	12.8	71		5		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/kg	7.23	5.89	81		17		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/kg	28.9	30.9	107		7		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/kg	7.23	6.86	95		8		40 - 140	0 - 30
Chrysene	ug/kg	18.1	11.1	61		14		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/kg	72.3	91.2	126		15		40 - 140	0 - 30
Fluoranthene	ug/kg	18.1	15.1	83		8		40 - 140	0 - 30
Fluorene	ug/kg	36.1	49	75		3		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	18.1	14.9	82		19		40 - 140	0 - 30
Naphthalene	ug/kg	181	162	69		19		40 - 140	0 - 30
Phenanthrene	ug/kg	14.4	11.5	80		11		40 - 140	0 - 30
Pyrene	ug/kg	36.1	28.5	79		8		40 - 140	0 - 30

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8310

SAMPLE NO : 118432

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1-Methylnaphthalene	ug/L	10	0	10.2	102		40 - 140
2-Methylnaphthalene	ug/L	10	0	9.49	95		40 - 140
Acenaphthene	ug/L	10	0	8.81	88		40 - 140
Acenaphthylene	ug/L	5	0	4.33	87		40 - 140
Anthracene	ug/L	.2	0	.189	95		40 - 140
Benzo(a)anthracene	ug/L	.5	0	.452	90		40 - 140
Benzo(a)pyrene	ug/L	.5	0	.695	139		40 - 140
Benzo(b)fluoranthene	ug/L	.2	0	.213	107		40 - 140
Benzo(g,h,i)perylene	ug/L	.8	0	.734	92		40 - 140
Benzo(k)fluoranthene	ug/L	.2	0	.26	130		40 - 140
Chrysene	ug/L	.5	0	.488	98		40 - 140
Dibenz(a,h)anthracene	ug/L	2	0	1.91	96		40 - 140
Fluoranthene	ug/L	.5	0	.443	89		40 - 140
Fluorene	ug/L	1	0	1.07	107		40 - 140
Indeno(1,2,3-cd)pyrene	ug/L	.5	0	.44	88		40 - 140
Naphthalene	ug/L	5	0	3.9	78		40 - 140
Phenanthrene	ug/L	.4	0	.365	91		40 - 140
Pyrene	ug/L	1	0	.959	96		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: SW-846 8310

SAMPLE NO : *118433*

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/L	10	9.94	99		3		40 - 140	0 - 30
2-Methylnaphthalene	ug/L	10	8.97	90		5		40 - 140	0 - 30
Acenaphthene	ug/L	10	8.48	85		3		40 - 140	0 - 30
Acenaphthylene	ug/L	5	4.37	87		0		40 - 140	0 - 30
Anthracene	ug/L	.2	.178	89		7		40 - 140	0 - 30
Benzo(a)anthracene	ug/L	.5	.467	93		3		40 - 140	0 - 30
Benzo(a)pyrene	ug/L	.5	.692	138		.7		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/L	.2	.205	103		4		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/L	.8	.714	89		3		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/L	.2	.249	125		4		40 - 140	0 - 30
Chrysene	ug/L	.5	.473	95		3		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/L	2	1.91	96		0		40 - 140	0 - 30
Fluoranthene	ug/L	.5	.381	76		16		40 - 140	0 - 30
Fluorene	ug/L	1	1.12	112		5		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/L	.5	.418	84		5		40 - 140	0 - 30
Naphthalene	ug/L	5	4.05	81		4		40 - 140	0 - 30
Phenanthrene	ug/L	.4	.367	92		1		40 - 140	0 - 30
Pyrene	ug/L	1	1.22	122		24		40 - 140	0 - 30

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID MB118321

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 118321

SAS No.: SDG No.: 203091008

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 09/12/03 Time (1): 1238

Date Analyzed (2): Time (2):

Instrument ID (1): HPLC 1

Instrument ID (2):

GC Column (1): 201TP-0.15 ID: 2.1 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8310

Prep Batch: 262261 Analytical Batch: 262340

Lab File ID: 030912/H000534

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS118322	118322	09/12/03	1245		
2.	86JT03S030908	20309100801	09/12/03	1251		
3.	86JT03S030908MS	20309100802	09/12/03	1258		
4.	86JT03S030908MSD	20309100803	09/12/03	1305		
5.	86JT05S030909	20309100805	09/12/03	1319		
6.	86JT06S030909	20309100806	09/12/03	1326		
7.	86JT04S030908	20309100804	09/12/03	1545		
8.	86JT12S030909	20309100807	09/12/03	1552		
9.	86DUPS030908	20309100808	09/12/03	1559		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID MB118431

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 118431

SAS No.: SDG No.: 203091008

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 09/12/03 Time (1): 1016

Date Analyzed (2): Time (2):

Instrument ID (1): HPLC 1

Instrument ID (2):

GC Column (1): 201TP-0.15 ID: 2.1 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8310

Prep Batch: 262299 Analytical Batch: 262340

Lab File ID: 030912/H000534

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS118432	118432	09/12/03	1023		
2.	LCSD118433	118433	09/12/03	1030		
3.	86PREBW030908	20309100809	09/12/03	1037		
4.	86PTEBW030909	20309100810	09/12/03	1044		

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-SEP-2003 08:36
End Cal Date : 03-SEP-2003 09:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/030912.b/flpnauv.m
Cal Date : 12-Sep-2003 15:23 jdt
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/hplc1.i/030903.b/h0005276.d
Level 2: /var/chem/hplc1.i/030903.b/h0005275.d
Level 3: /var/chem/hplc1.i/030903.b/h0005274.d
Level 4: /var/chem/hplc1.i/030903.b/h0005273.d
Level 5: /var/chem/hplc1.i/030903.b/h0005272.d
Level 6: /var/chem/hplc1.i/030903.b/h0005271.d
Level 7: /var/chem/hplc1.i/030903.b/h0005270.d
Level 8: /var/chem/hplc1.i/030903.b/h0005269.d

Compound	0.10000 Level 1 / 10.000 Level 7	0.25000 Level 2 / 20.000 Level 8	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
1 Naphthalene	+++++	3180	2854	2307	2570	2515		
	2540	2618					2655	10.629
2 Acenaphthylene	+++++	+++++	+++++	1674	1680	1541		
	1709	1726					1666	4.379
3 1-Methynaphthalene	+++++	+++++	+++++	1373	1376	1325		
	1406	1469					1390	3.803
4 2-Methylnaphthalene	+++++	+++++	+++++	2014	2041	1935		
	2045	2096					2026	2.904
5 Acenaphthene	+++++	+++++	+++++	891	1036	934		
	1043	1063					993	7.659
6 Fluorene	+++++	+++++	11342	11387	11676	11343		
	11508	11542					11466	1.158
7 Phenanthrene	28730	25404	24876	24671	26991	25882		
	25901	25908					26045	4.992

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-SEP-2003 08:36
End Cal Date : 03-SEP-2003 09:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/030912.b/flpnauv.m
Cal Date : 12-Sep-2003 15:23 jdt
Curve Type : Average

Compound	0.10000 Level 1 / 10.000 Level 7	0.25000 Level 2 / 20.000 Level 8	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
8 Anthracene	61360	59596	54844	55940	57197	54733		
	53207	50660					55942	6.131
9 Fluoranthene	8090	7980	7532	7024	7522	7131		
	7263	7325					7483	5.119
10 Pyrene	6260	5640	5348	5788	6062	5919		
	6036	6027					5885	4.865
12 Benzo(a)Anthracene	15960	16836	16118	15906	16539	16529		
	16992	17117					16500	2.832
13 Chrysene	21100	23768	27074	26262	27411	26928		
	27542	27424					25939	8.916
14 Benzo(b)Fluoranthene	20580	19560	22928	22424	21222	19793		
	20750	20398					20957	5.678
15 Benzo(k)Fluoranthene	11850	12632	13914	13790	13141	12698		
	12936	12842					12975	5.090
16 Benzo(a)Pyrene	16030	18068	17736	18221	18300	18034		
	18431	18253					17884	4.351
17 Dibenzo(a,h)Anthracene	2720	4208	3556	3862	3947	4115		
	4274	4178					3858	13.358
18 Benzo(g,h,i)Perylene	5700	7420	6534	6596	6871	6941		
	7032	7100					6774	7.630

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-SEP-2003 08:36
End Cal Date : 03-SEP-2003 09:25
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/030912.b/flpnauv.m
Cal Date : 12-Sep-2003 15:23 jdt
Curve Type : Average

Compound	0.10000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	___ RRF	% RSD
	10.000 Level 7	20.000 Level 8						
19 Indeno(1,2,3-c,d)Pyrene	+++++	16168	14044	14531	15184	15034		
	15042	15141					15021	4.342
$ 11 p-Terphenyl	6750	8112	6704	6866	6942	6894		
	7367	7393					7128	6.657

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 12-SEP-2003 10:06
Lab File ID: h0005341.d Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Analysis Type: WATER Init. Cal. Times: 08:36 09:25
Lab Sample ID: 0912STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/030912.b/flpnauv.m

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2655	2386	0.010	10.11241	15.00000	Averaged
	2 Acenaphthylene	1666	1438	0.010	13.67874	15.00000	Averaged
	3 1-Methynaphthalene	1390	1270	0.010	8.63887	15.00000	Averaged
	4 2-Methylnaphthalene	2026	1974	0.010	2.55266	15.00000	Averaged
	5 Acenaphthene	993	955	0.010	3.87210	15.00000	Averaged
	6 Fluorene	11466	11360	0.010	0.93077	15.00000	Averaged
	7 Phenanthrene	26045	26150	0.010	-0.40055	15.00000	Averaged
	8 Anthracene	55942	56164	0.010	-0.39591	15.00000	Averaged
	9 Fluoranthene	7483	7326	0.010	2.10250	15.00000	Averaged
	10 Pyrene	5885	5948	0.010	-1.06437	15.00000	Averaged
$	11 p-Terphenyl	7128	6682	0.010	6.26260	15.00000	Averaged
	12 Benzo(a)Anthracene	16500	15979	0.010	3.15431	15.00000	Averaged
	13 Chrysene	25939	26298	0.010	-1.38521	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20957	20349	0.010	2.89953	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12975	12968	0.010	0.05270	15.00000	Averaged
	16 Benzo(a)Pyrene	17884	18479	0.010	-3.32537	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	3858	4295	0.010	-11.34456	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6774	6995	0.010	-3.26104	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	15021	15428	0.010	-2.70981	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.90244
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005347.d
Analysis Type: WATER
Lab Sample ID: 0912STD05
Method: /var/chem/hplc1.i/030912.b/flpnauv.m

Injection Date: 12-SEP-2003 11:06
Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Init. Cal. Times: 08:36 09:25
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2655	2501	0.010	5.81239	15.00000	Averaged
	2 Acenaphthylene	1666	1652	0.010	0.86141	15.00000	Averaged
	3 1-Methynaphthalene	1390	1320	0.010	4.99478	15.00000	Averaged
	4 2-Methylnaphthalene	2026	1983	0.010	2.14992	15.00000	Averaged
	5 Acenaphthene	993	972	0.010	2.10821	15.00000	Averaged
	6 Fluorene	11466	11555	0.010	-0.76951	15.00000	Averaged
	7 Phenanthrene	26045	26426	0.010	-1.46209	15.00000	Averaged
	8 Anthracene	55942	57056	0.010	-1.99070	15.00000	Averaged
	9 Fluoranthene	7483	7250	0.010	3.11489	15.00000	Averaged
	10 Pyrene	5885	5970	0.010	-1.44228	15.00000	Averaged
$	11 p-Terphenyl	7128	6849	0.010	3.92043	15.00000	Averaged
	12 Benzo(a)Anthracene	16500	16265	0.010	1.42045	15.00000	Averaged
	13 Chrysene	25939	26864	0.010	-3.56852	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20957	20263	0.010	3.30875	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12975	12792	0.010	1.40913	15.00000	Averaged
	16 Benzo(a)Pyrene	17884	17951	0.010	-0.37571	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	3858	4005	0.010	-3.82481	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6774	6852	0.010	-1.15071	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	15021	15153	0.010	-0.88404	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.90244
Maximun Average %D/Drift = 15.00000
Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005358.d
Analysis Type: SOIL
Lab Sample ID: 0912STD05
Method: /var/chem/hplc1.i/030912.b/flpnauv.m

Injection Date: 12-SEP-2003 15:32
Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Init. Cal. Times: 08:36 09:25
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2655	2424	0.010	8.69916	15.00000	Averaged
	2 Acenaphthylene	1666	1494	0.010	10.33634	15.00000	Averaged
	3 1-Methynaphthalene	1390	1319	0.010	5.05811	15.00000	Averaged
	4 2-Methylnaphthalene	2026	1924	0.010	5.04807	15.00000	Averaged
	5 Acenaphthene	993	926	0.010	6.73137	15.00000	Averaged
	6 Fluorene	11466	11438	0.010	0.24354	15.00000	Averaged
	7 Phenanthrene	26045	26492	0.010	-1.71519	15.00000	Averaged
	8 Anthracene	55942	57316	0.010	-2.45518	15.00000	Averaged
	9 Fluoranthene	7483	7342	0.010	1.89297	15.00000	Averaged
	10 Pyrene	5885	6055	0.010	-2.89139	15.00000	Averaged
$	11 p-Terphenyl	7128	6931	0.010	2.77572	15.00000	Averaged
	12 Benzo(a)Anthracene	16500	16215	0.010	1.72592	15.00000	Averaged
	13 Chrysene	25939	26545	0.010	-2.33792	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20957	20270	0.010	3.27898	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12975	12718	0.010	1.97883	15.00000	Averaged
	16 Benzo(a)Pyrene	17884	18144	0.010	-1.45332	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	3858	4206	0.010	-9.02601	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6774	7130	0.010	-5.24974	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	15021	15298	0.010	-1.84646	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.90244
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005362.d
Analysis Type: SOIL
Lab Sample ID: 0912STD05
Method: /var/chem/hplc1.i/030912.b/flpnauv.m

Injection Date: 12-SEP-2003 16:25
Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Init. Cal. Times: 08:36 09:25
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2655	2589	0.010	2.47362	15.00000	Averaged
	2 Acenaphthylene	1666	1660	0.010	0.32836	15.00000	Averaged
	3 1-Methynaphthalene	1390	1443	0.010	-3.85349	15.00000	Averaged
	4 2-Methylnaphthalene	2026	2031	0.010	-0.23098	15.00000	Averaged
	5 Acenaphthene	993	1038	0.010	-4.54463	15.00000	Averaged
	6 Fluorene	11466	11627	0.010	-1.40302	15.00000	Averaged
	7 Phenanthrene	26045	26476	0.010	-1.65222	15.00000	Averaged
	8 Anthracene	55942	57242	0.010	-2.32290	15.00000	Averaged
	9 Fluoranthene	7483	7342	0.010	1.88870	15.00000	Averaged
	10 Pyrene	5885	6010	0.010	-2.13149	15.00000	Averaged
$	11 p-Terphenyl	7128	6847	0.010	3.94512	15.00000	Averaged
	12 Benzo(a)Anthracene	16500	16359	0.010	0.85365	15.00000	Averaged
	13 Chrysene	25939	26922	0.010	-3.78934	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20957	20504	0.010	2.16087	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12975	12862	0.010	0.87272	15.00000	Averaged
	16 Benzo(a)Pyrene	17884	18336	0.010	-2.52466	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	3858	4278	0.010	-10.90906	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6774	7201	0.010	-6.29605	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	15021	15466	0.010	-2.96546	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.90244
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

000339

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-SEP-2003 08:36
End Cal Date : 03-SEP-2003 09:25
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/030912f.b/flpnafld.m
Cal Date : 12-Sep-2003 15:19 jdt

Calibration File Names:
Level 1: /var/chem/hplc1.i/030903f.b/h0005276.d
Level 2: /var/chem/hplc1.i/030903f.b/h0005275.d
Level 3: /var/chem/hplc1.i/030903f.b/h0005274.d
Level 4: /var/chem/hplc1.i/030903f.b/h0005273.d
Level 5: /var/chem/hplc1.i/030903f.b/h0005272.d
Level 6: /var/chem/hplc1.i/030903f.b/h0005271.d
Level 7: /var/chem/hplc1.i/030903f.b/h0005270.d
Level 8: /var/chem/hplc1.i/030903f.b/h0005269.d

Compound	0.1000 Level 1 / 10 Level 7	0.2500 Level 2 / 20 Level 8	0.5000 Level 3	1 Level 4	2 Level 5	5 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Naphthalene	+++++	11112	14560	12774	12232	11176					
	11236	11584					AVRG		12096		10.32879
3 1-Methynaphthalene	+++++	+++++	+++++	2221	1968	1684					
	2146	2139					AVRG		2032		10.60722
4 2-Methylnaphthalene	+++++	+++++	+++++	1798	1685	1460					
	1839	1822					AVRG		1721		9.15619
5 Acenaphthene	+++++	+++++	+++++	4590	4466	4183					
	4604	4652					AVRG		4499		4.21507
7 Phenanthrene	17200	16000	16748	16729	17096	16928					
	17156	16230					AVRG		16761		2.62069

000340

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-SEP-2003 08:36
End Cal Date : 03-SEP-2003 09:25
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/030912f.b/flpnafld.m
Cal Date : 12-Sep-2003 15:19 jdt

Compound	0.1000 Level 1 / 10 Level 7	0.2500 Level 2 / 20 Level 8	0.5000 Level 3	1 Level 4	2 Level 5	5 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
8 Anthracene	6570	5604	5922	5777	5860	5674					
	5722	5556					AVRG		5836		5.50278
9 Fluoranthene	5470	5000	5626	5873	6008	5777					
	5796	5905					AVRG		5682		5.67502
10 Pyrene	37890	34400	33694	35678	37063	37360					
	35970	+++++					AVRG		36008		4.32214
12 Benzo(a)Anthracene	27420	28904	29982	30636	31170	30720					
	30304	+++++					AVRG		29877		4.35031
13 Chrysene	247	655	1515	3478	9516	19877					
	40348	81084					LINR	0.000e+00	4043		0.99977
14 Benzo(b)Fluoranthene	25690	24564	24204	24960	25510	24963					
	24855	+++++					AVRG		24964		2.05193
15 Benzo(k)Fluoranthene	58610	56896	55854	56474	57012	55831					
	43888	+++++					AVRG		54938		9.03189
16 Benzo(a)Pyrene	48110	46988	45770	46057	47340	46966					
	41311	+++++					AVRG		46077		4.86557
17 Dibenzo(a,h)Anthracene	19200	18868	17880	17953	18127	18057					
	18107	17817					AVRG		18251		2.75484

000341

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-SEP-2003 08:36
End Cal Date : 03-SEP-2003 09:25
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/030912f.b/flpnafld.m
Cal Date : 12-Sep-2003 15:19 jdt

Compound	0.1000 Level 1	0.2500 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	5 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	10 Level 7	20 Level 8									
18 Benzo(g,h,i)Perylene	17280	15992	14536	14738	15178	15483					
	15788	16111					AVRG		15638		5.57858
19 Indeno(1,2,3-c,d)Pyrene	+++++	5224	3832	4359	4600	4730					
	5028	5021					AVRG		4685		10.17874
$ 11 p-Terphenyl	+++++	8540	9332	9946	10349	10274					
	10224	10147					AVRG		9830		6.75668

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 12-SEP-2003 10:06
Lab File ID: h0005341.d Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Analysis Type: WATER Init. Cal. Times: 08:36 09:25
Lab Sample ID: 0912STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/030912f.b/flpnafld.m

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	12096	12214	12214	0.010	-0.97302	15.00000	Averaged
	3 1-Methynaphthalene	2032	1827	1827	0.010	10.06192	15.00000	Averaged
	4 2-Methylnaphthalene	1721	1555	1555	0.010	9.64983	15.00000	Averaged
	5 Acenaphthene	4499	4301	4301	0.010	4.39164	15.00000	Averaged
	7 Phenanthrene	16761	17378	17378	0.010	-3.68417	15.00000	Averaged
	8 Anthracene	5836	5924	5924	0.010	-1.52159	15.00000	Averaged
	9 Fluoranthene	5682	5804	5804	0.010	-2.15698	15.00000	Averaged
	10 Pyrene	36008	40465	40465	0.010	-12.37907	15.00000	Averaged
$	11 p-Terphenyl	9830	9992	9992	0.010	-1.64669	15.00000	Averaged
	12 Benzo(a)Anthracene	29877	31754	31754	0.010	-6.28529	15.00000	Averaged
	13 Chrysene	2.40281	2.50000	3886	0.010	3.88766	15.00000	Linear
	14 Benzo(b)Fluoranthene	24964	25117	25117	0.010	-0.61341	15.00000	Averaged
	15 Benzo(k)Fluoranthene	54938	56080	56080	0.010	-2.07827	15.00000	Averaged
	16 Benzo(a)Pyrene	46077	49594	49594	0.010	-7.63264	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	18251	18554	18554	0.010	-1.65726	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	15638	16588	16588	0.010	-6.07551	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4685	4605	4605	0.010	1.71200	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.45002
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 12-SEP-2003 11:06
Lab File ID: h0005347.d Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Analysis Type: WATER Init. Cal. Times: 08:36 09:25
Lab Sample ID: 0912STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/030912f.b/flpnafld.m

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	12096	11876	11876	0.010	1.81791	15.00000	Averaged
	3 1-Methynaphthalene	2032	2075	2075	0.010	-2.12540	15.00000	Averaged
	4 2-Methylnaphthalene	1721	1786	1786	0.010	-3.76207	15.00000	Averaged
	5 Acenaphthene	4499	4652	4652	0.010	-3.39715	15.00000	Averaged
	7 Phenanthrene	16761	17146	17146	0.010	-2.30000	15.00000	Averaged
	8 Anthracene	5836	5919	5919	0.010	-1.43248	15.00000	Averaged
	9 Fluoranthene	5682	5782	5782	0.010	-1.76978	15.00000	Averaged
	10 Pyrene	36008	38211	38211	0.010	-6.11931	15.00000	Averaged
$	11 p-Terphenyl	9830	10133	10133	0.010	-3.08309	15.00000	Averaged
	12 Benzo(a)Anthracene	29877	31340	31340	0.010	-4.89959	15.00000	Averaged
	13 Chrysene	2.37436	2.50000	3840	0.010	5.02549	15.00000	Linear
	14 Benzo(b)Fluoranthene	24964	25130	25130	0.010	-0.66468	15.00000	Averaged
	15 Benzo(k)Fluoranthene	54938	56441	56441	0.010	-2.73647	15.00000	Averaged
	16 Benzo(a)Pyrene	46077	48234	48234	0.010	-4.68022	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	18251	18081	18081	0.010	0.93107	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	15638	15684	15684	0.010	-0.29227	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4685	4548	4548	0.010	2.91584	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.45002
Maximun Average %D/Drift = 15.00000
Passed Average %D/Drift Test.

Data File: /var/chem/hplc1.i/030912f.b/h0005358.d
Report Date: 15-Sep-2003 11:41

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005358.d
Analysis Type: SOIL
Lab Sample ID: 0912STD05
Method: /var/chem/hplc1.i/030912f.b/flpnafld.m

Injection Date: 12-SEP-2003 15:32
Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Init. Cal. Times: 08:36 09:25
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	12096	12507	12507	0.010	-3.39360	15.00000	Averaged
	3 1-Methynaphthalene	2032	1870	1870	0.010	7.97492	15.00000	Averaged
	4 2-Methylnaphthalene	1721	1656	1656	0.010	3.74580	15.00000	Averaged
	5 Acenaphthene	4499	4349	4349	0.010	3.32469	15.00000	Averaged
	7 Phenanthrene	16761	16530	16530	0.010	1.38000	15.00000	Averaged
	8 Anthracene	5836	5788	5788	0.010	0.80893	15.00000	Averaged
	9 Fluoranthene	5682	5686	5686	0.010	-0.07315	15.00000	Averaged
	10 Pyrene	36008	35266	35266	0.010	2.05892	15.00000	Averaged
$	11 p-Terphenyl	9830	9892	9892	0.010	-0.63348	15.00000	Averaged
	12 Benzo(a)Anthracene	29877	30336	30336	0.010	-1.53909	15.00000	Averaged
	13 Chrysene	2.29966	2.50000	3719	0.010	8.01354	15.00000	Linear
	14 Benzo(b)Fluoranthene	24964	24774	24774	0.010	0.75979	15.00000	Averaged
	15 Benzo(k)Fluoranthene	54938	55632	55632	0.010	-1.26353	15.00000	Averaged
	16 Benzo(a)Pyrene	46077	47062	47062	0.010	-2.13668	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	18251	17787	17787	0.010	2.54193	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	15638	15217	15217	0.010	2.69271	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4685	4647	4647	0.010	0.81552	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.45002
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005362.d
Analysis Type: SOIL
Lab Sample ID: 0912STD05
Method: /var/chem/hplc1.i/030912f.b/flpnafld.m

Injection Date: 12-SEP-2003 16:25
Init. Cal. Date(s): 03-SEP-2003 03-SEP-2003
Init. Cal. Times: 08:36 09:25
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	1 Naphthalene	12096	12060	12060	0.010	0.29811	15.00000	Averaged	
	3 1-Methynaphthalene	2032	1357	1357	0.010	33.21783	15.00000	Averaged	<-
	4 2-Methylnaphthalene	1721	1275	1275	0.010	25.90217	15.00000	Averaged	<-
	5 Acenaphthene	4499	3935	3935	0.010	12.53343	15.00000	Averaged	
	7 Phenanthrene	16761	16249	16249	0.010	3.05151	15.00000	Averaged	
	8 Anthracene	5836	5756	5756	0.010	1.36278	15.00000	Averaged	
	9 Fluoranthene	5682	5154	5154	0.010	9.28719	15.00000	Averaged	
	10 Pyrene	36008	33034	33034	0.010	8.25847	15.00000	Averaged	
$	11 p-Terphenyl	9830	9609	9609	0.010	2.24868	15.00000	Averaged	
	12 Benzo(a)Anthracene	29877	29282	29282	0.010	1.99116	15.00000	Averaged	
	13 Chrysene	2.21079	2.50000	3575	0.010	11.56853	15.00000	Linear	
	14 Benzo(b)Fluoranthene	24964	23601	23601	0.010	5.45878	15.00000	Averaged	
	15 Benzo(k)Fluoranthene	54938	54324	54324	0.010	1.11792	15.00000	Averaged	
	16 Benzo(a)Pyrene	46077	45771	45771	0.010	0.66608	15.00000	Averaged	
	17 Dibenzo(a,h)Anthracene	18251	17448	17448	0.010	4.40110	15.00000	Averaged	
	18 Benzo(g,h,i)Perylene	15638	14650	14650	0.010	6.31868	15.00000	Averaged	
	19 Indeno(1,2,3-c,d)Pyrene	4685	4699	4699	0.010	-0.29184	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 6.45002
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005350.d
Lab Smp Id: 20309100801
Inj Date : 12-SEP-2003 12:51
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100801-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.006	1.021	-0.015	2745	1.03395	34.5(M)
6 Fluorene	1.606	1.614	-0.008	6997	0.61022	20.3(M)
11 p-Terphenyl	2.993	2.961	0.032	12758	1.78974	59.7

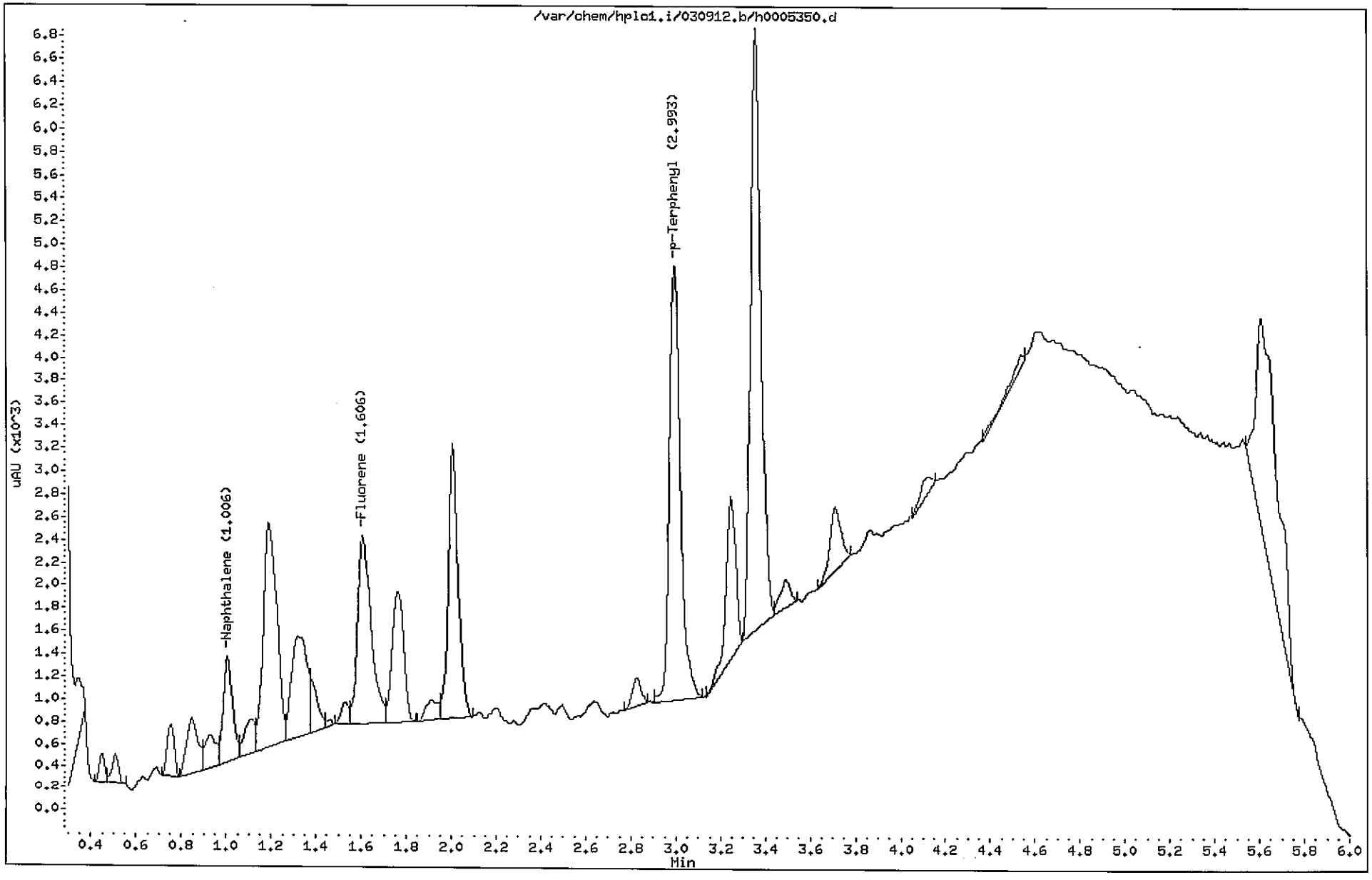
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912.b/h0005350.d
Date : 12-SEP-2003 12:51
Client ID:
Sample Info: 20309100801-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



000347

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005350.d
Lab Smp Id: 20309100801
Inj Date : 12-SEP-2003 12:51
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100801-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

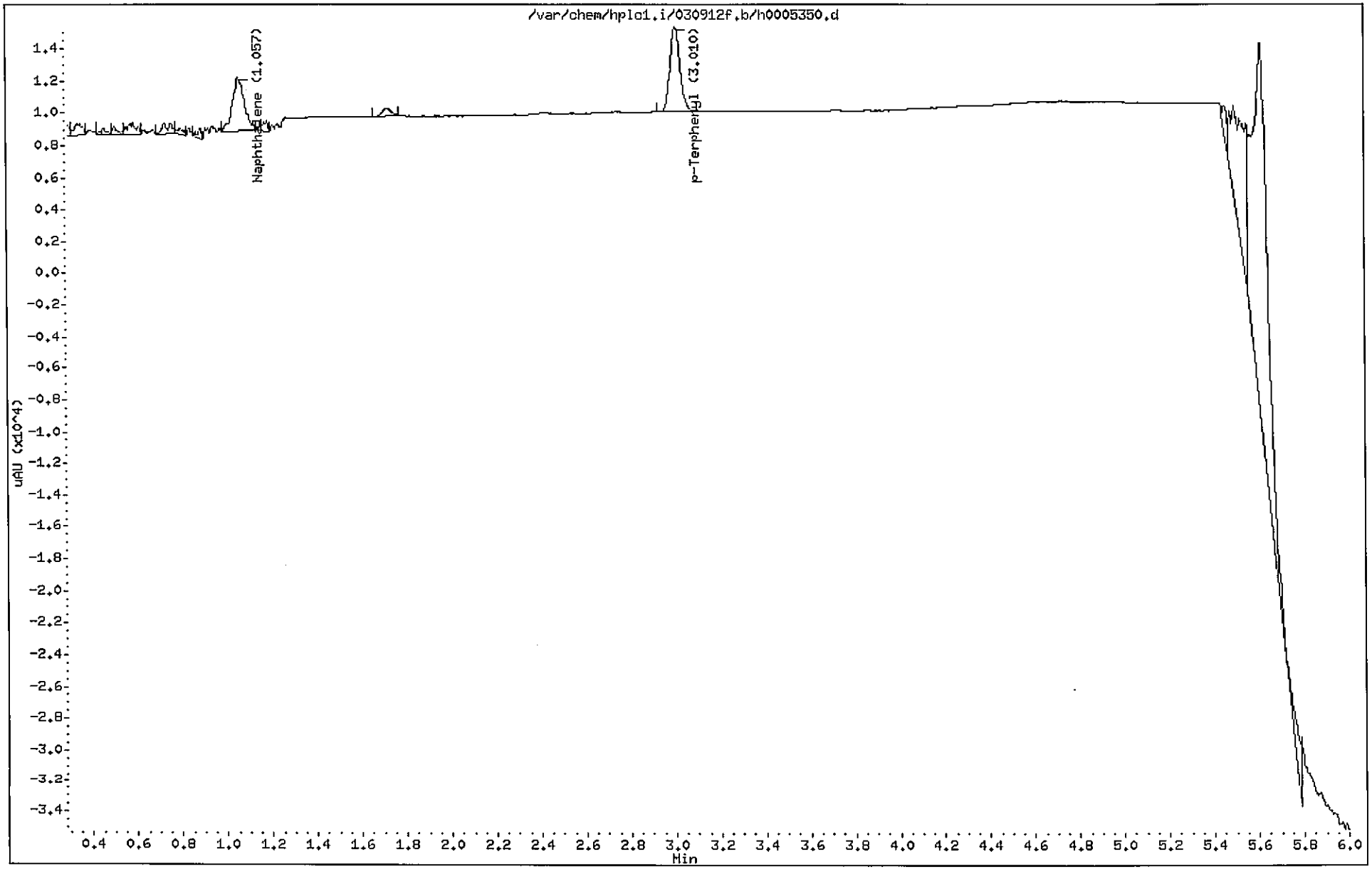
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.057	1.037	0.020	11750	0.97140	32.4
11 p-Terphenyl	3.010	2.973	0.037	16263	1.65444	55.1

Data File: /var/chem/hplc1.i/030912f.b/h0005350.d
Date : 12-SEP-2003 12:51
Client ID:
Sample Info: 20309100B01-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005359.d
Lab Smp Id: 20309100804
Inj Date : 12-SEP-2003 15:45
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100804-DL10
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

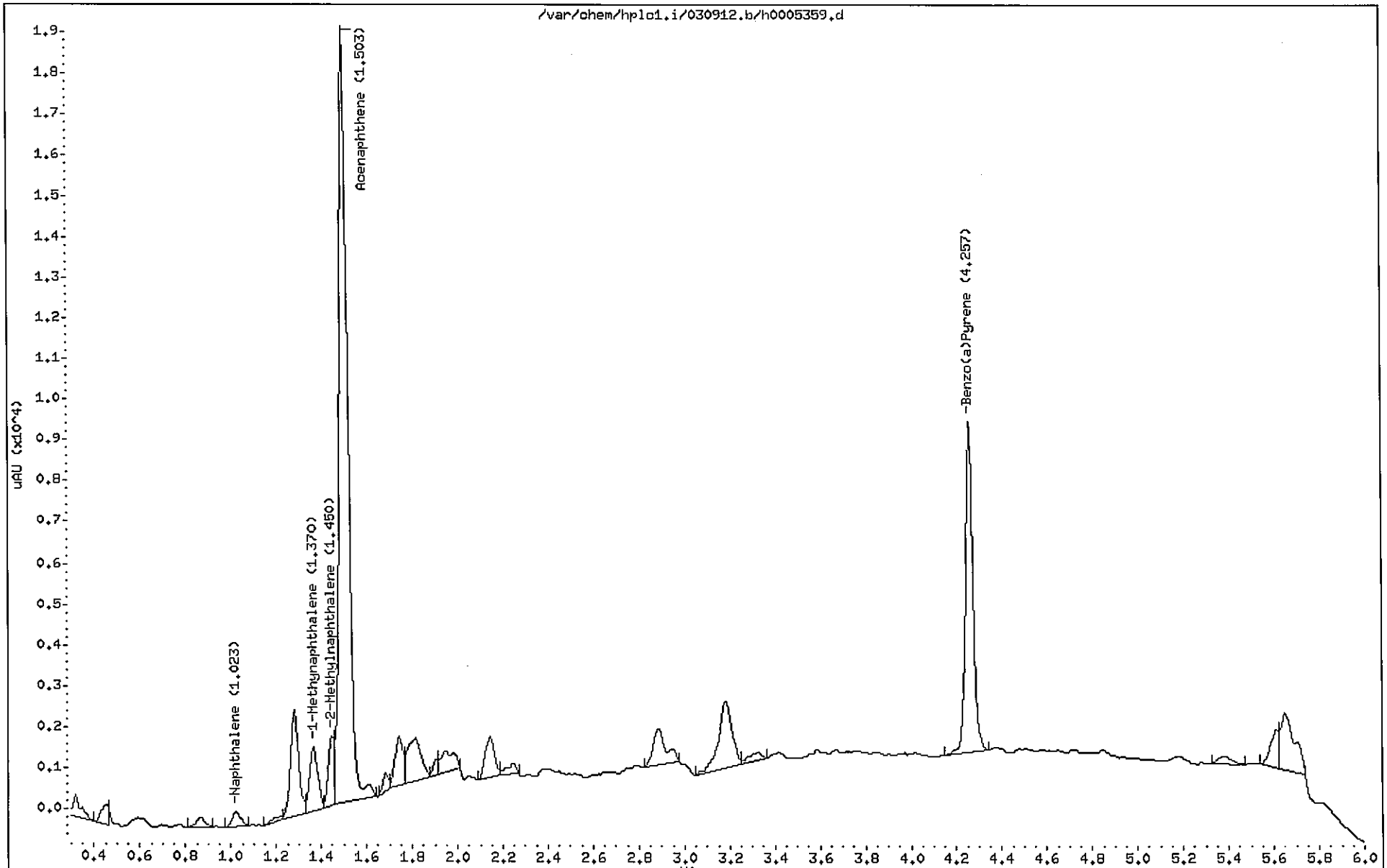
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.023	1.021	0.002	895	0.33712	112
3 1-Methynaphthalene	1.370	1.352	0.018	4003	2.88058	960
4 2-Methylnaphthalene	1.450	1.438	0.012	2646	1.30594	435
5 Acenaphthene	1.503	1.514	-0.011	50049	50.3886	16800
16 Benzo(a)Pyrene	4.257	4.152	0.105	19220	1.07470	358

Data File: /var/chem/hplc1.i/030912.b/h0005359.d
Date : 12-SEP-2003 15:45
Client ID:
Sample Info: 20309100804-DL10
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000351



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005359.d
Lab Smp Id: 20309100804
Inj Date : 12-SEP-2003 15:45
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100804-DL10
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

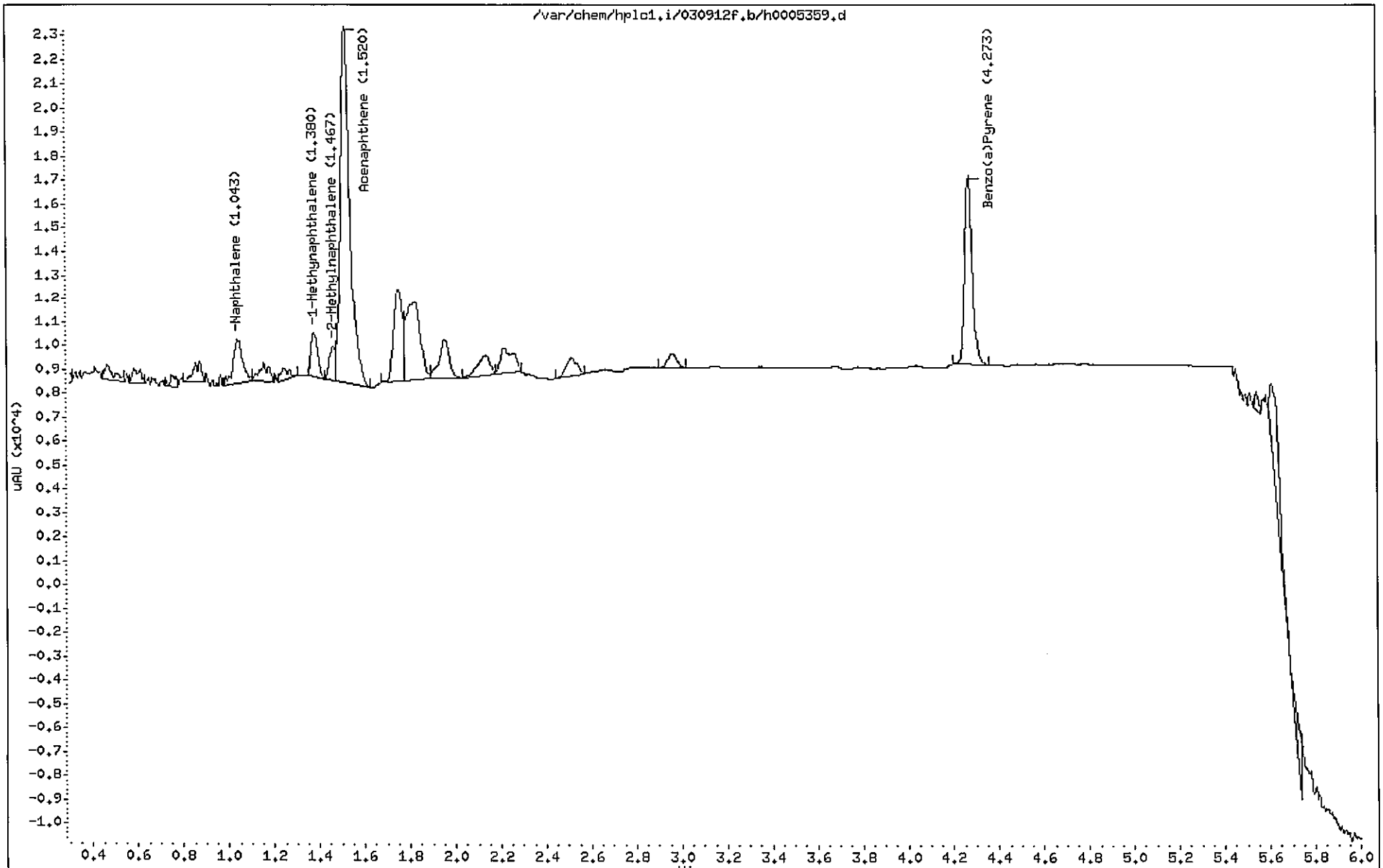
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.043	1.037	0.006	5604	0.46328	154
3 1-Methynaphthalene	1.380	1.370	0.010	3999	1.96838	656
4 2-Methylnaphthalene	1.467	1.463	0.004	2430	1.41208	471
5 Acenaphthene	1.520	1.533	-0.013	43803	9.73666	3250
16 Benzo(a)Pyrene	4.273	4.223	0.050	18348	0.39820	133

Data File: /var/chem/hplc1.i/030912f.b/h0005359.d
Date : 12-SEP-2003 15:45
Client ID:
Sample Info: 20309100804-DL10
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000353



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005354.d
Lab Smp Id: 20309100805
Inj Date : 12-SEP-2003 13:19
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100805-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

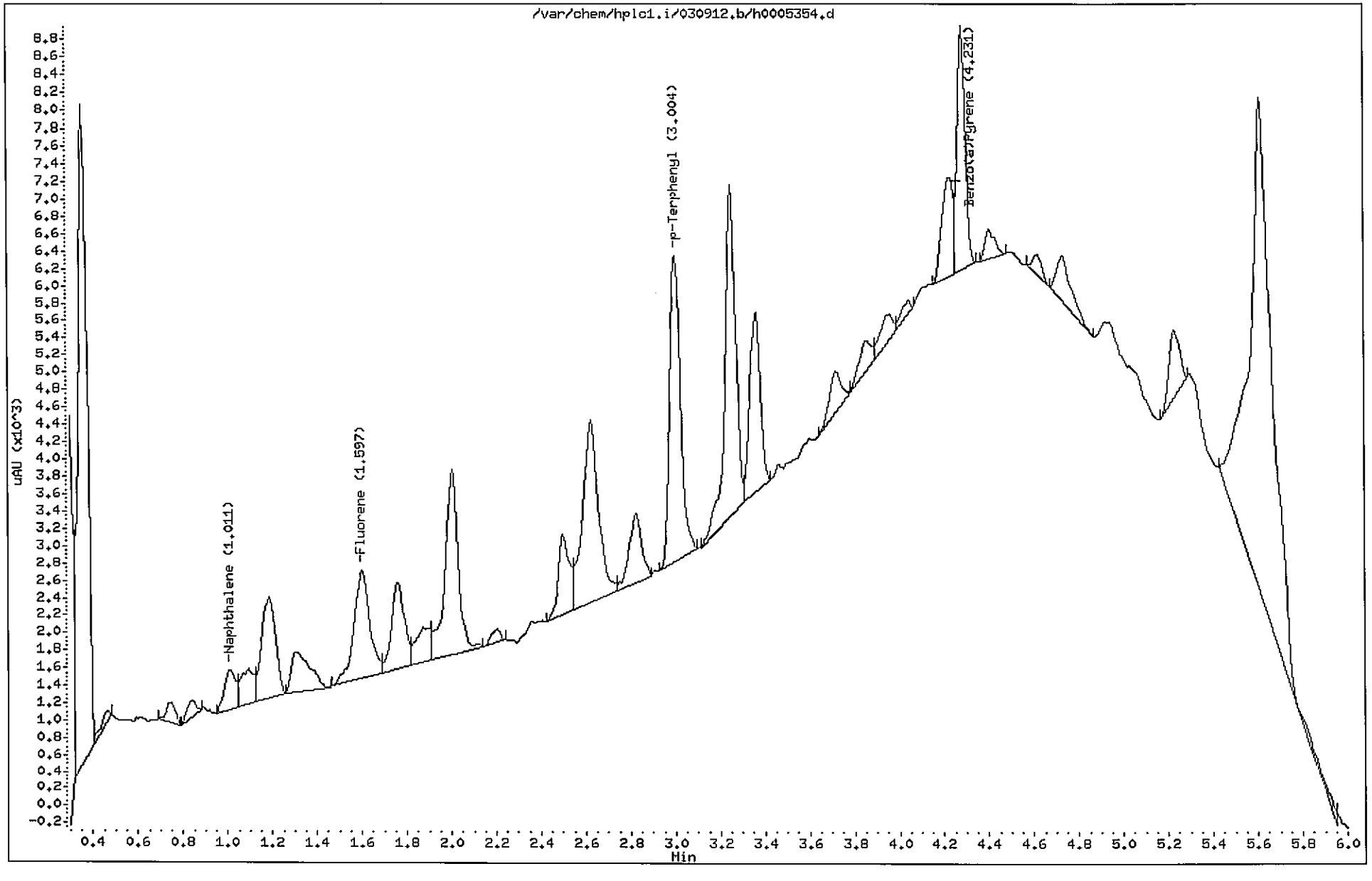
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.011	1.021	-0.010	1678	0.63242	21.1(M)
6 Fluorene	1.597	1.614	-0.017	5985	0.52196	17.4
11 p-Terphenyl	3.004	2.961	0.043	11822	1.65843	55.3
16 Benzo(a)Pyrene	4.231	4.152	0.079	3905	0.21835	7.28(MH)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/hplc1.i/030912.b/h0005354.d
Date : 12-SEP-2003 13:19
Client ID:
Sample Info: 20309100805-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005354.d
Lab Smp Id: 20309100805
Inj Date : 12-SEP-2003 13:19
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100805-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

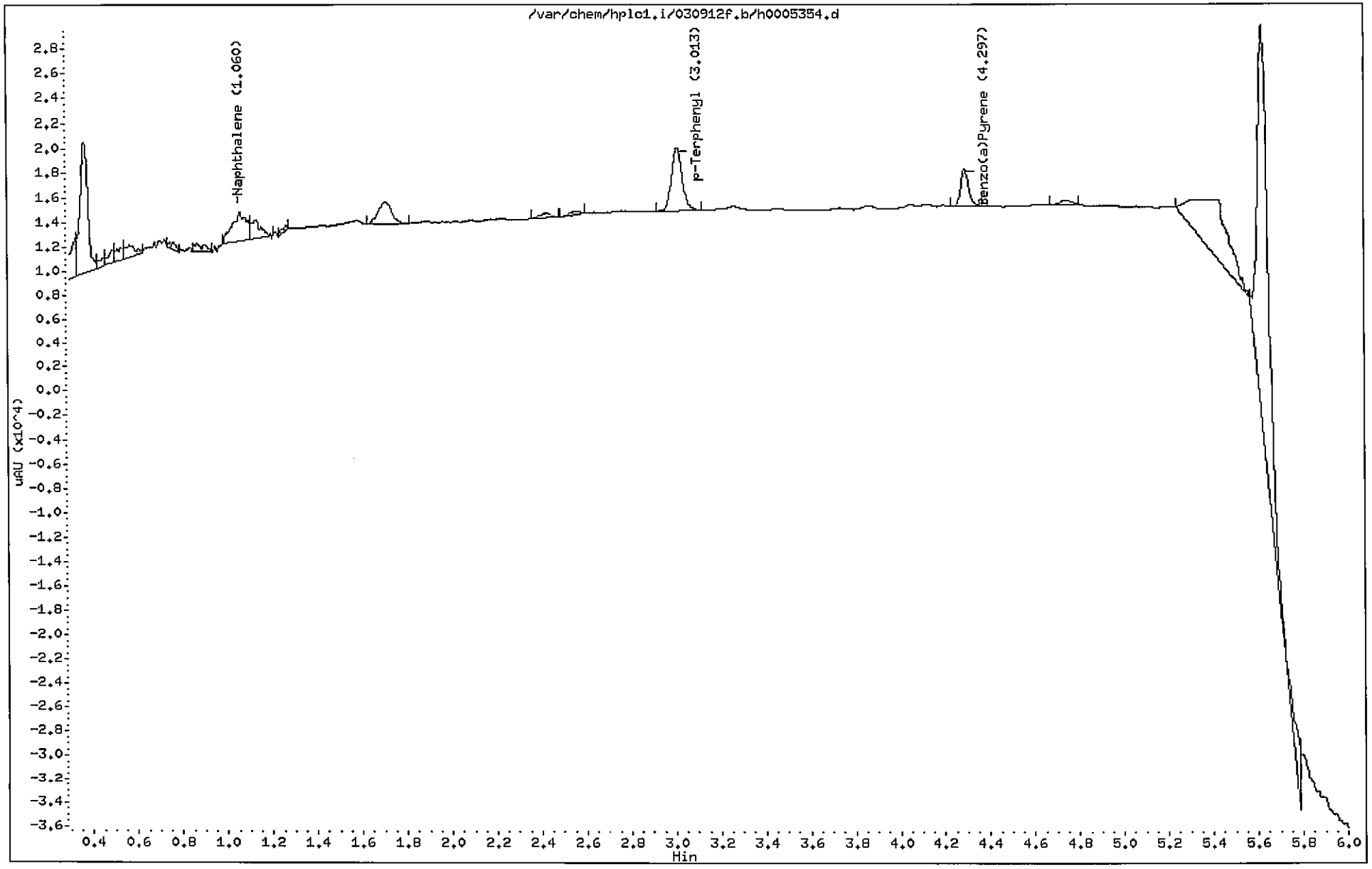
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.060	1.037	0.023	10349	0.85558	28.5(M)
11 p-Terphenyl	3.013	2.973	0.040	16634	1.69214	56.4
16 Benzo(a)Pyrene	4.297	4.223	0.074	7260	0.15756	5.25

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005354.d
Date : 12-SEP-2003 13:19
Client ID:
Sample Info: 20309100805-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005355.d
Lab Smp Id: 20309100806
Inj Date : 12-SEP-2003 13:26
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100806-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.012	1.021	-0.009	2729	1.02792	34.3(M)
3 1-Methynaphthalene	1.372	1.352	0.020	1368	0.98442	32.8(M)
6 Fluorene	1.612	1.614	-0.002	7536	0.65723	21.9(M)
11 p-Terphenyl	3.005	2.961	0.044	10769	1.51071	50.4

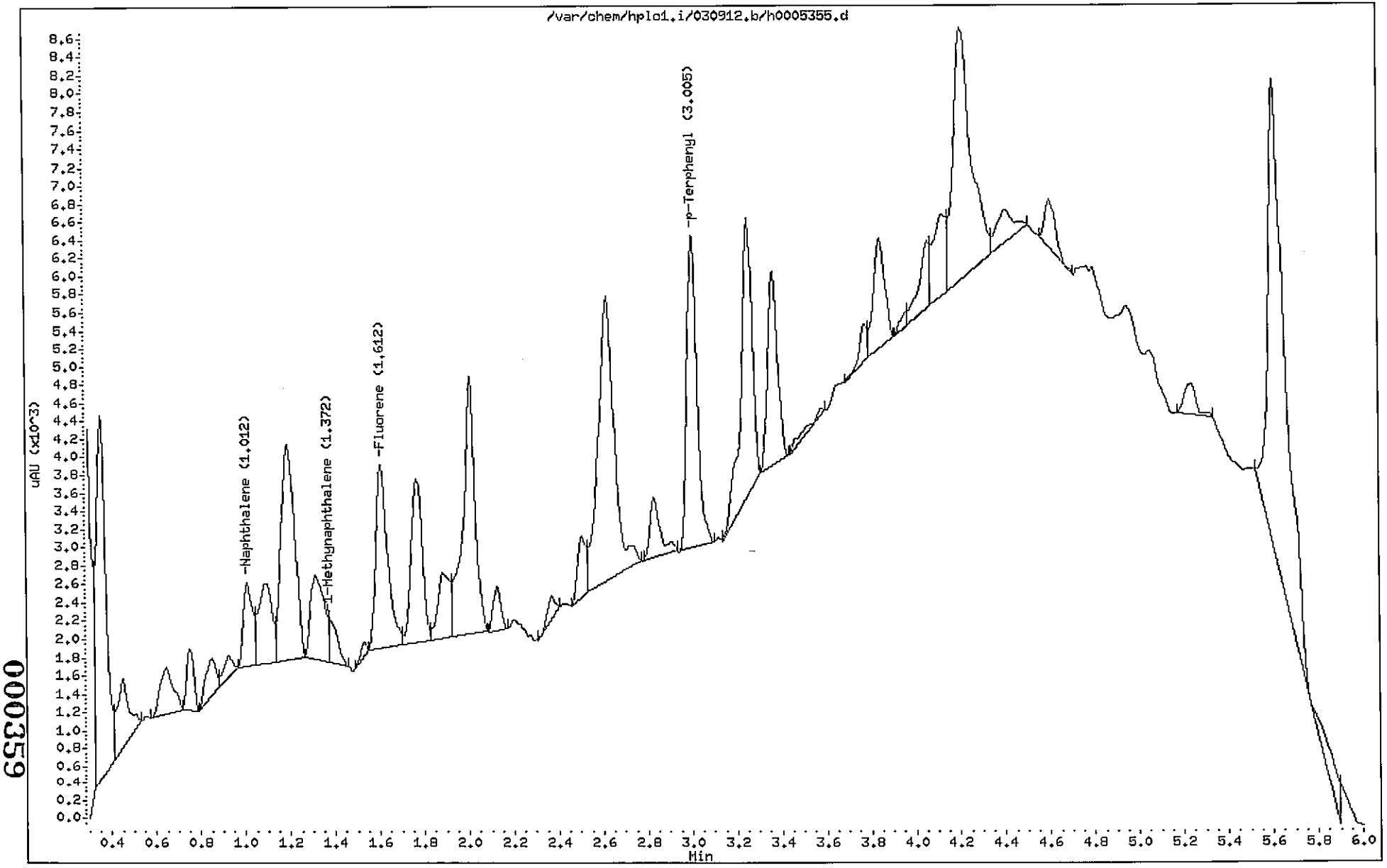
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912.b/h0005355.d
Date : 12-SEP-2003 13:26
Client ID:
Sample Info: 20309100806-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005355.d
Lab Smp Id: 20309100806
Inj Date : 12-SEP-2003 13:26
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100806-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

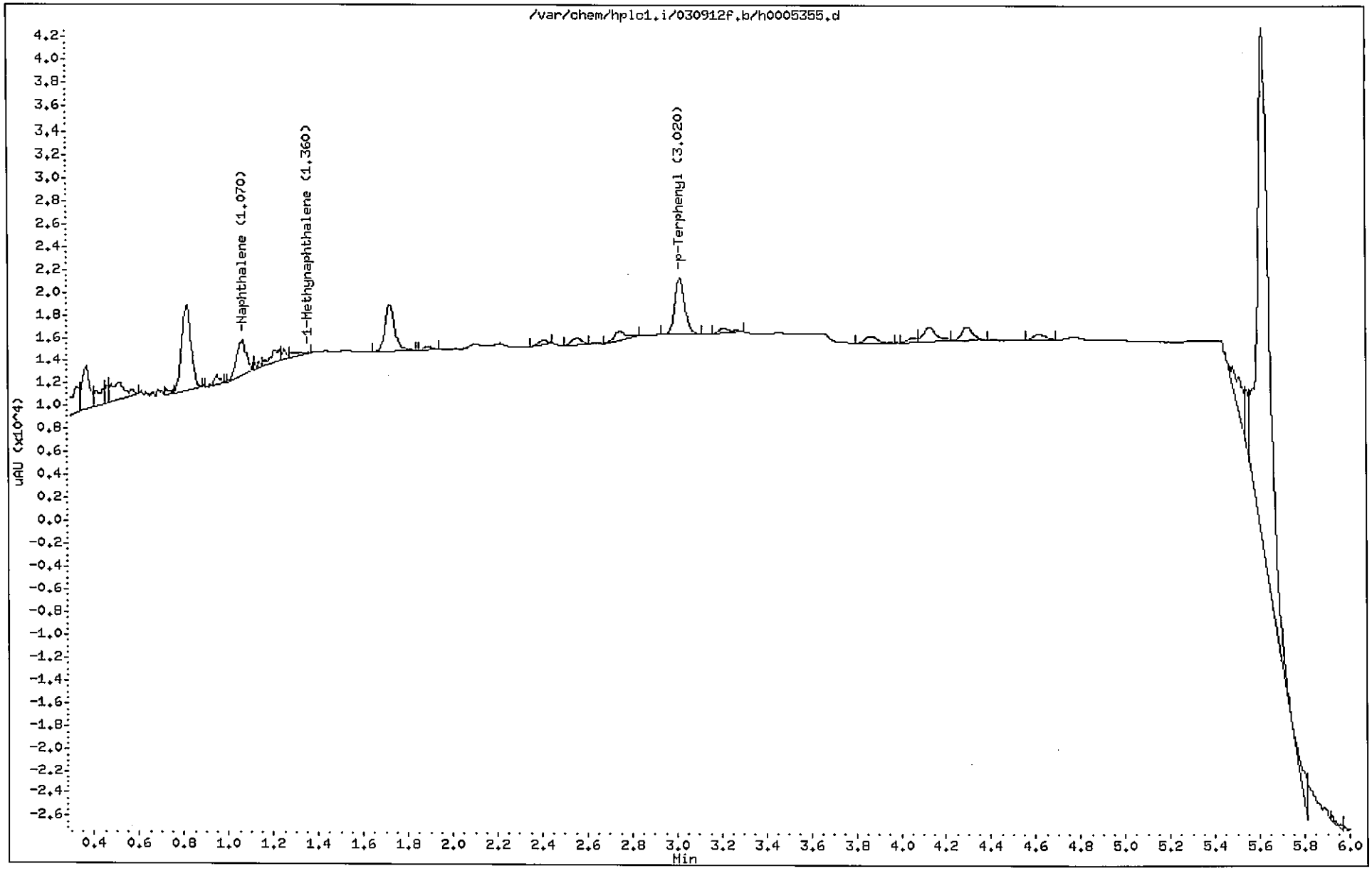
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.070	1.037	0.033	9684	0.80058	26.7(M)
3 1-Methynaphthalene	1.360	1.370	-0.010	1652	0.81314	27.1
11 p-Terphenyl	3.020	2.973	0.047	14959	1.52175	50.7

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005355.d
Date : 12-SEP-2003 13:26
Client ID:
Sample Info: 20309100806-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005360.d
Lab Smp Id: 20309100807
Inj Date : 12-SEP-2003 15:52
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100807-DL100
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

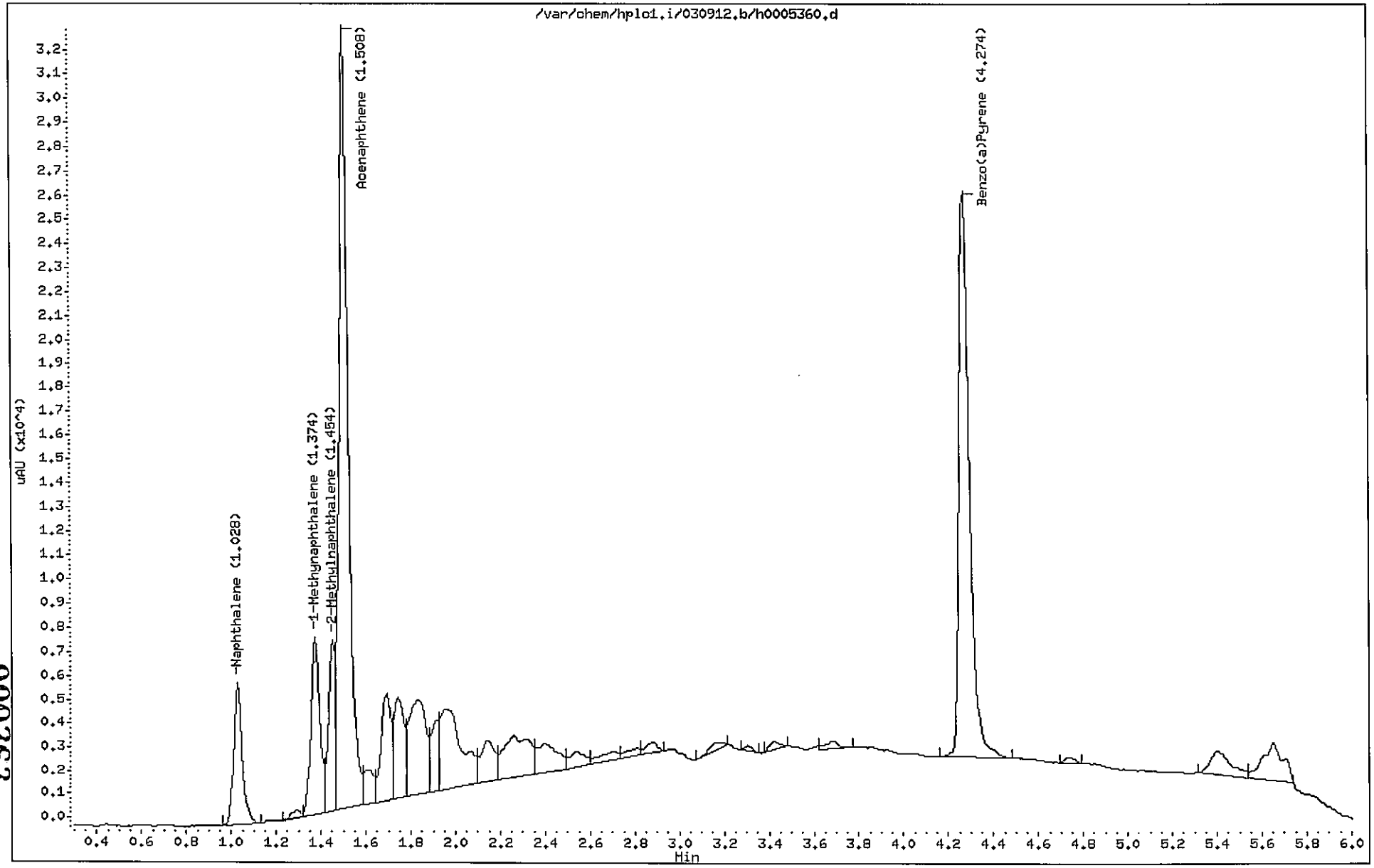
Name	Value	Description
DF	100.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.028	1.021	0.007	15940	6.00406	20000
3 1-Methynaphthalene	1.374	1.352	0.022	21031	15.1340	50400
4 2-Methylnaphthalene	1.454	1.438	0.016	16176	7.98373	26600
5 Acenaphthene	1.508	1.514	-0.006	93449	94.0831	314000
16 Benzo(a)Pyrene	4.274	4.152	0.122	74794	4.18215	13900

Data File: /var/chem/hplc1.i/030912.b/h0005360.d
Date : 12-SEP-2003 15:52
Client ID:
Sample Info: 20309100807-DL100
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



0003363

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005360.d
Lab Smp Id: 20309100807
Inj Date : 12-SEP-2003 15:52
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100807-DL100
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	100.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

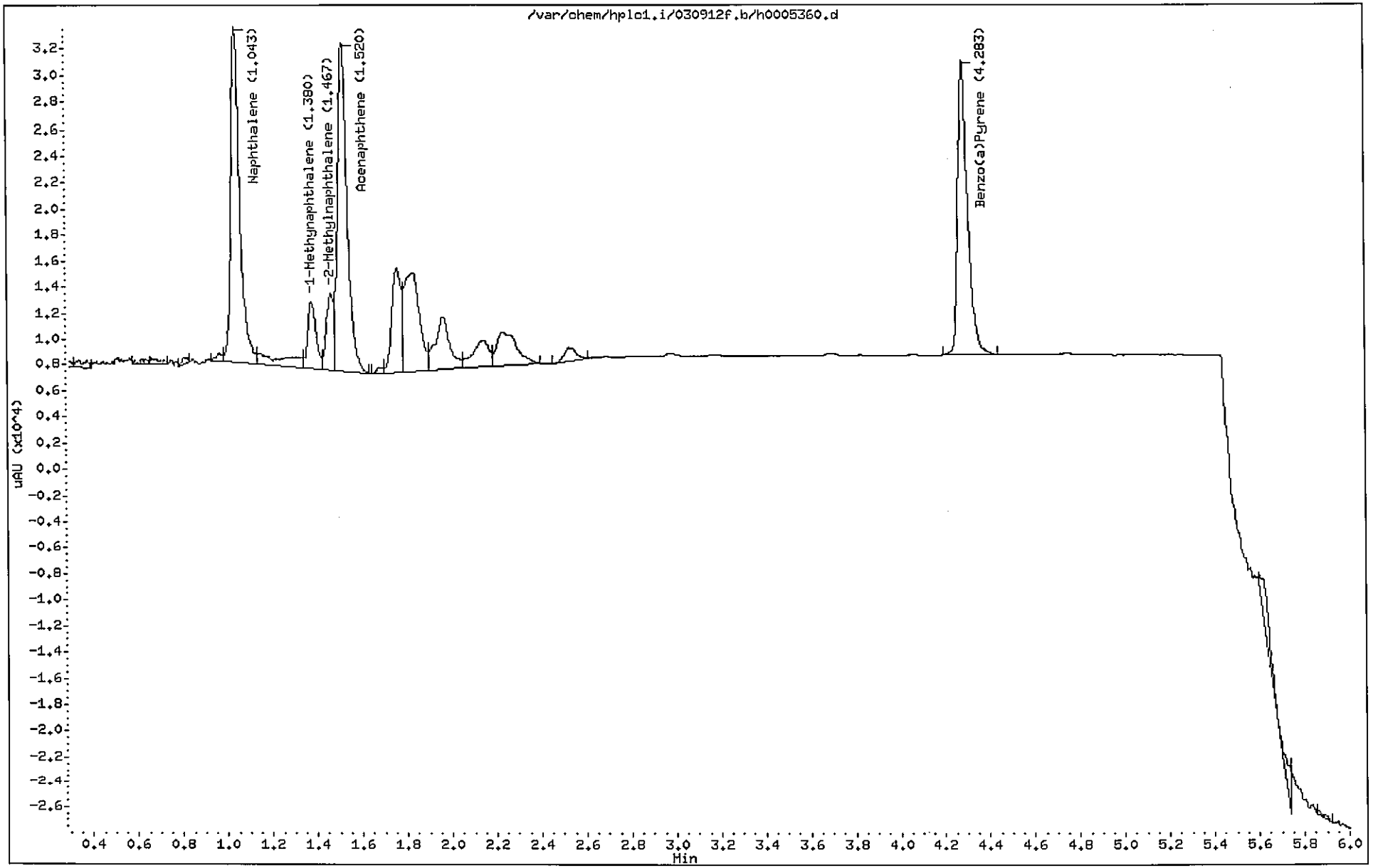
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.043	1.037	0.006	73109	6.04391	20100(M)
3 1-Methynaphthalene	1.380	1.370	0.010	14005	6.89351	23000(M)
4 2-Methylnaphthalene	1.467	1.463	0.004	13979	8.12326	27100(M)
5 Acenaphthene	1.520	1.533	-0.013	74810	16.6290	55400(M)
16 Benzo(a)Pyrene	4.283	4.223	0.060	69434	1.50690	5020

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005360.d
Date : 12-SEP-2003 15:52
Client ID:
Sample Info: 20309100807-DL100
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005361.d
Lab Smp Id: 20309100808
Inj Date : 12-SEP-2003 15:59
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100808-DL10
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

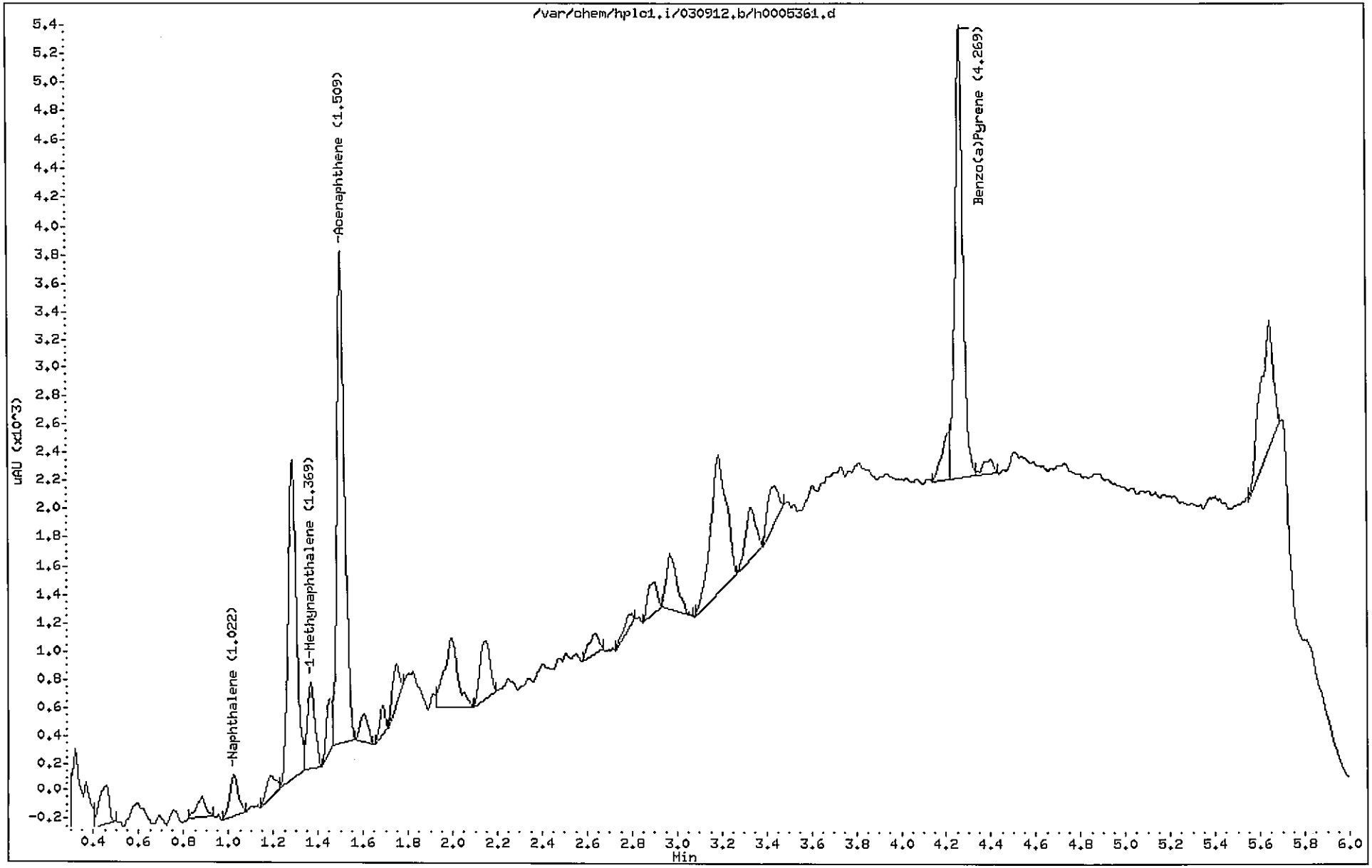
Name	Value	Description
DF	10.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.022	1.021	0.001	819	0.30849	103
3 1-Methynaphthalene	1.369	1.352	0.017	1488	1.07077	357
5 Acenaphthene	1.509	1.514	-0.005	8586	8.64426	2880
16 Benzo(a)Pyrene	4.269	4.152	0.117	7893	0.44134	147

Data File: /var/chem/hplc1.i/030912.b/h0005361.d
Date : 12-SEP-2003 15:59
Client ID:
Sample Info: 20309100808-DL10
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



000367

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005361.d
Lab Smp Id: 20309100808
Inj Date : 12-SEP-2003 15:59
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100808-DL10
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

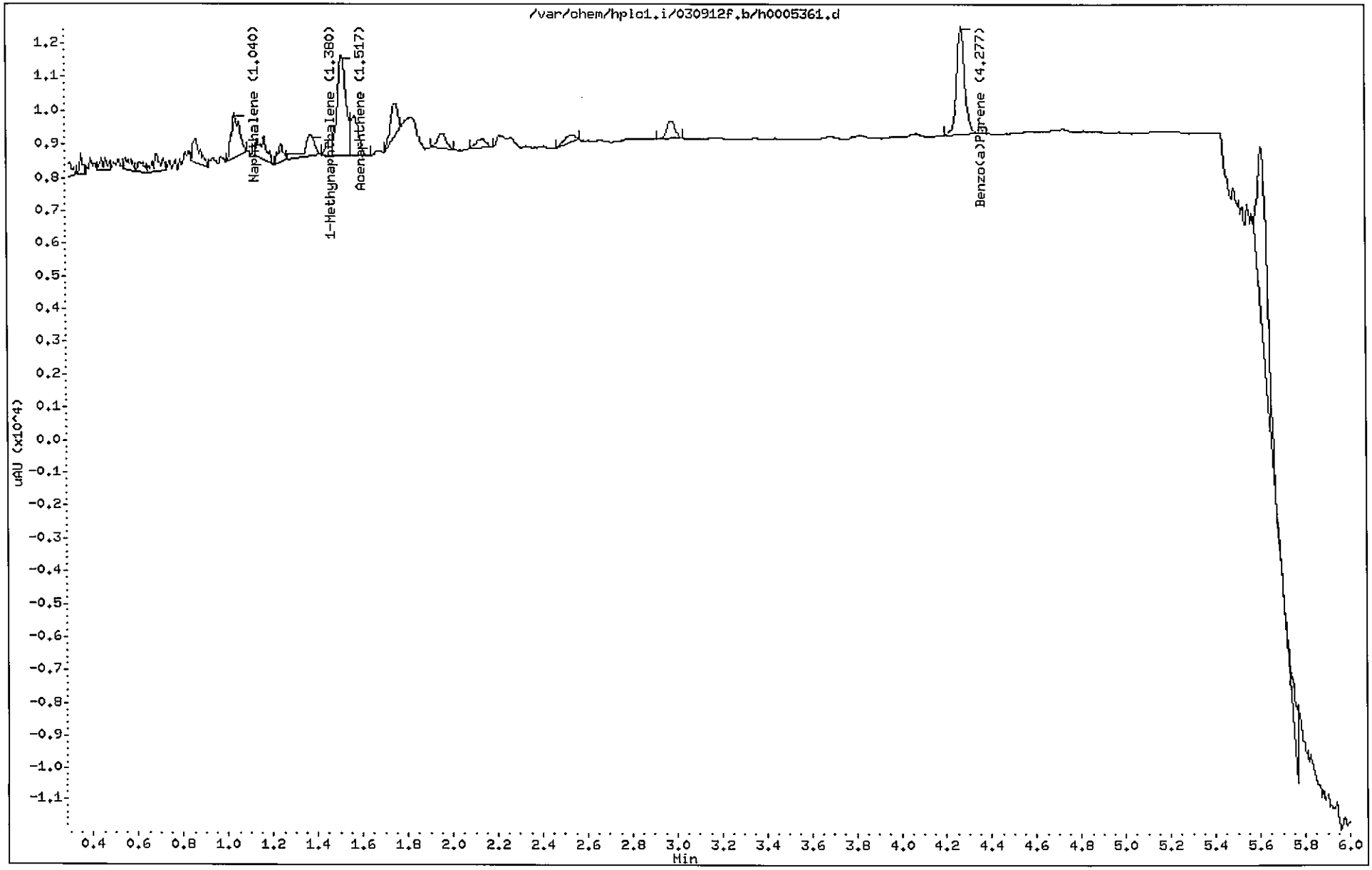
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.040	1.037	0.003	3297	0.27256	90.9
3 1-Methynaphthalene	1.380	1.370	0.010	2220	1.09272	364
5 Acenaphthene	1.517	1.533	-0.016	8072	1.79427	598(M)
16 Benzo(a)Pyrene	4.277	4.223	0.054	7724	0.16763	55.9

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005361.d
Date : 12-SEP-2003 15:59
Client ID:
Sample Info: 20309100808-DL10
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005345.d
Lab Smp Id: 20309100809
Inj Date : 12-SEP-2003 10:37
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100809-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

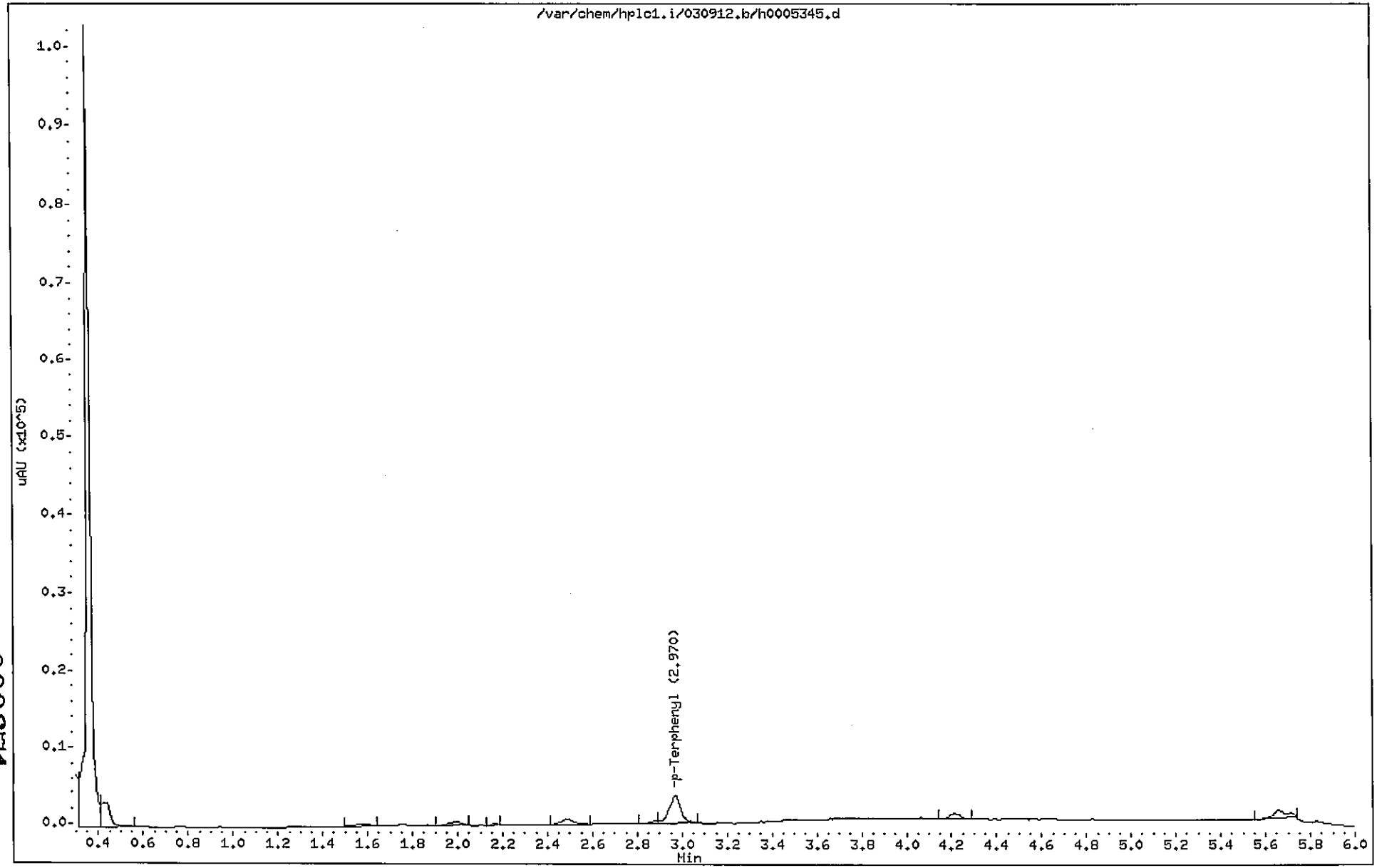
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
11 p-Terphenyl	2.970	2.961	0.009	12479	1.75060	1.75

Data File: /var/chem/hplc1.i/030912.b/h0005345.d
Date : 12-SEP-2003 10:37
Client ID:
Sample Info: 20309100809-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



000371

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005345.d
Lab Smp Id: 20309100809
Inj Date : 12-SEP-2003 10:37
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100809-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vls bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

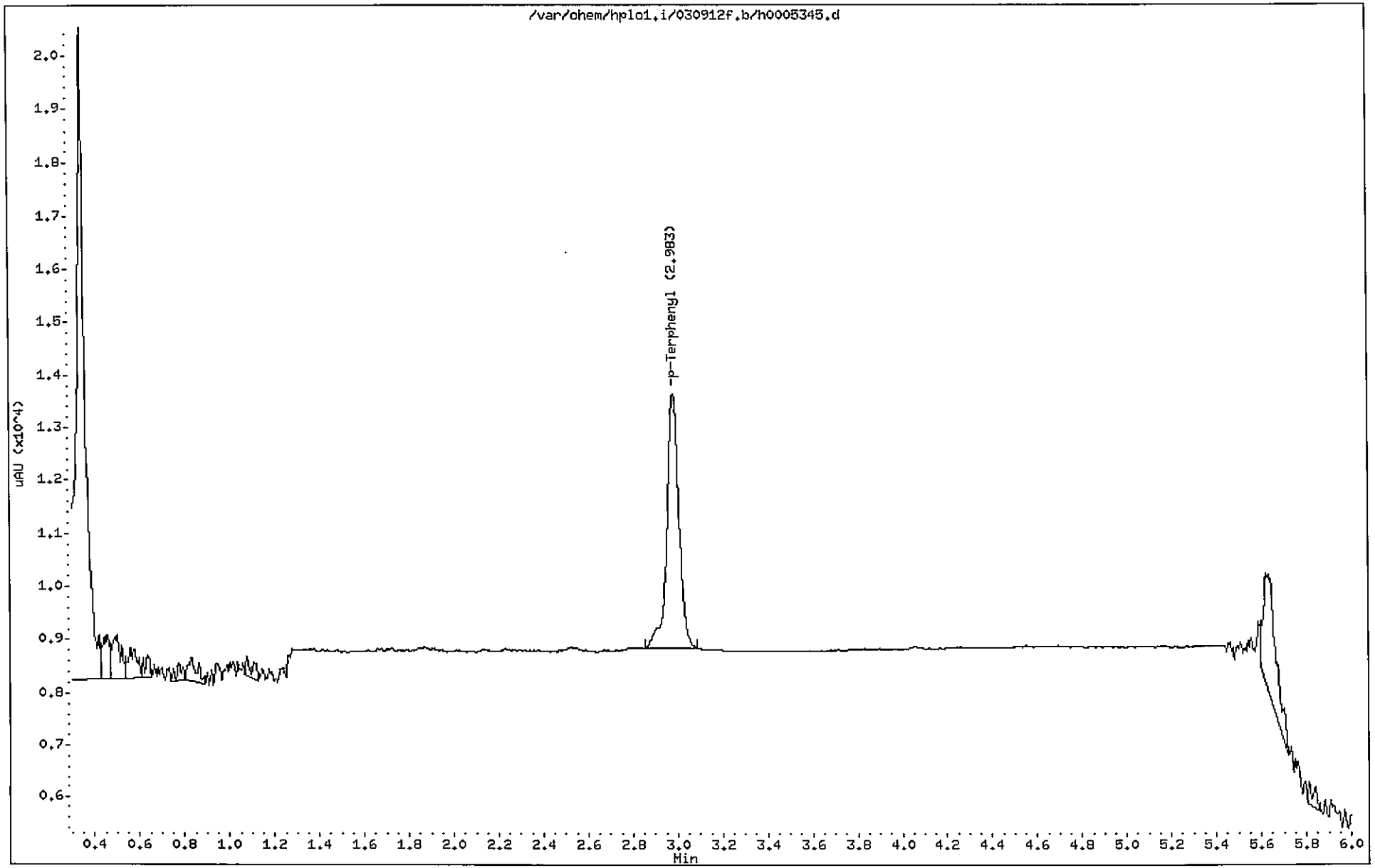
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	2.983	2.973	0.010	17970	1.82609	1.83

Data File: /var/chem/hplc1.i/030912f.b/h0005345.d
Date : 12-SEP-2003 10:37
Client ID:
Sample Info: 20309100809-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005346.d
Lab Smp Id: 20309100810
Inj Date : 12-SEP-2003 10:44
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100810-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

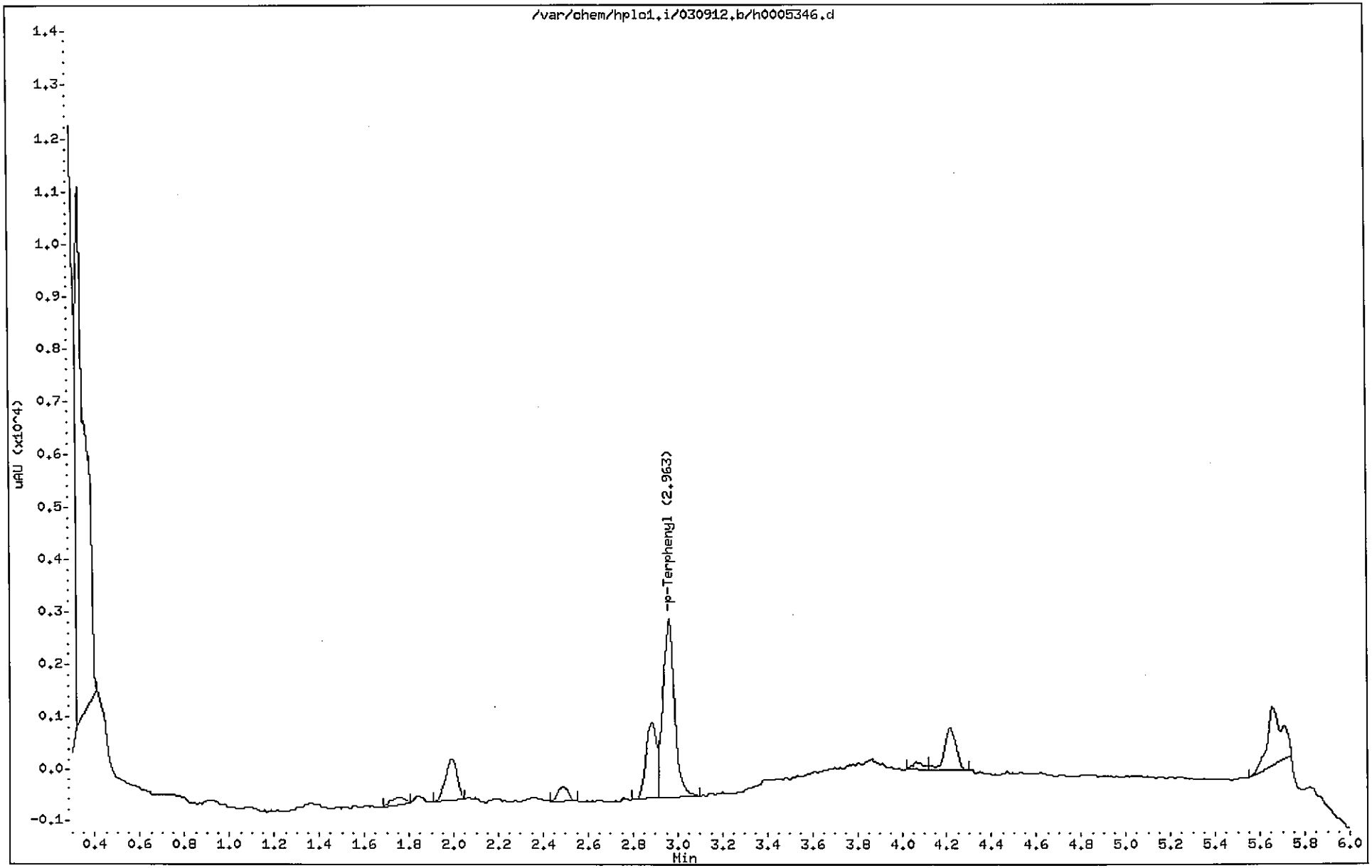
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
11 p-Terphenyl	2.963	2.961	0.002	12402	1.73980	1.74

Data File: /var/chem/hplc1.i/030912.b/h0005346.d
Date : 12-SEP-2003 10:44
Client ID:
Sample Info: 20309100810-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



000375

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005346.d
Lab Smp Id: 20309100810
Inj Date : 12-SEP-2003 10:44
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100810-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

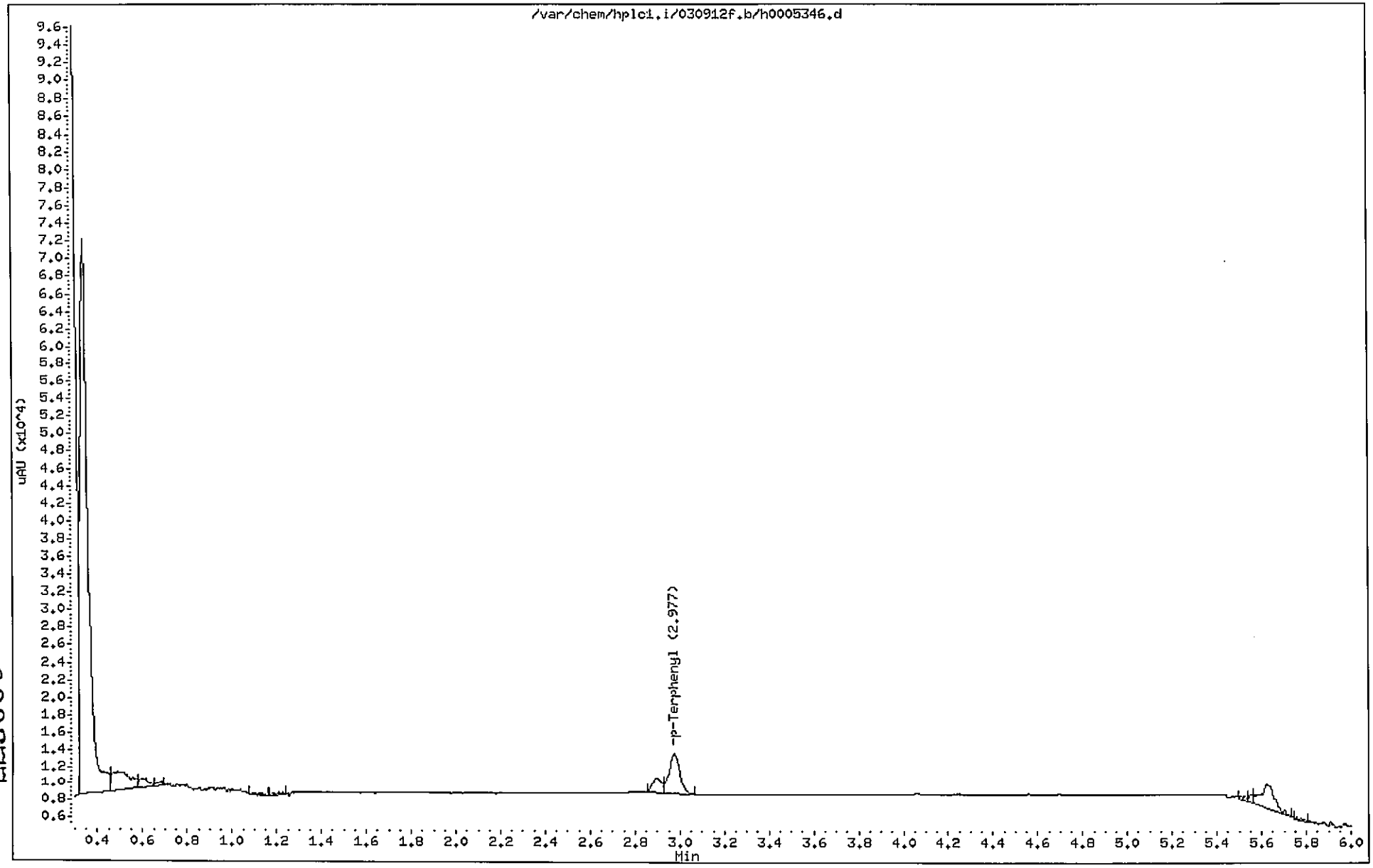
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	2.977	2.973	0.004	16194	1.64741	1.65

Data File: /var/chem/hplc1.i/030912f.b/h0005346.d
Date : 12-SEP-2003 10:44
Client ID:
Sample Info: 20309100810-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



000377

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005276.d
Lab Smp Id: 0903STD01 Client Smp ID: 0903STD01
Inj Date : 03-SEP-2003 09:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD01
Misc Info : 3-46-10
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
7 Phenanthrene	1.885	1.885	0.000	2873	0.10000	0.110
8 Anthracene	2.132	2.132	0.000	6136	0.10000	0.110
9 Fluoranthene	2.372	2.372	0.000	809	0.10000	0.108
10 Pyrene	2.545	2.545	0.000	626	0.10000	0.106
11 p-Terphenyl	3.012	3.012	0.000	675	0.10000	0.0947
12 Benzo(a)Anthracene	3.198	3.198	0.000	1596	0.10000	0.0967
13 Chrysene	3.365	3.365	0.000	2110	0.10000	0.0813
14 Benzo(b)Fluoranthene	3.858	3.858	0.000	2058	0.10000	0.0982
15 Benzo(k)Fluoranthene	4.112	4.112	0.000	1185	0.10000	0.0913
16 Benzo(a)Pyrene	4.285	4.285	0.000	1603	0.10000	0.0896
17 Dibenzo(a,h)Anthracene	4.592	4.592	0.000	272	0.10000	0.0705(M)
18 Benzo(g,h,i)Perylene	4.758	4.758	0.000	570	0.10000	0.0841(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903.b/h0005276.d

Date : 03-SEP-2003 09:25

Client ID: 0903STD01

Sample Info: 0903STD01

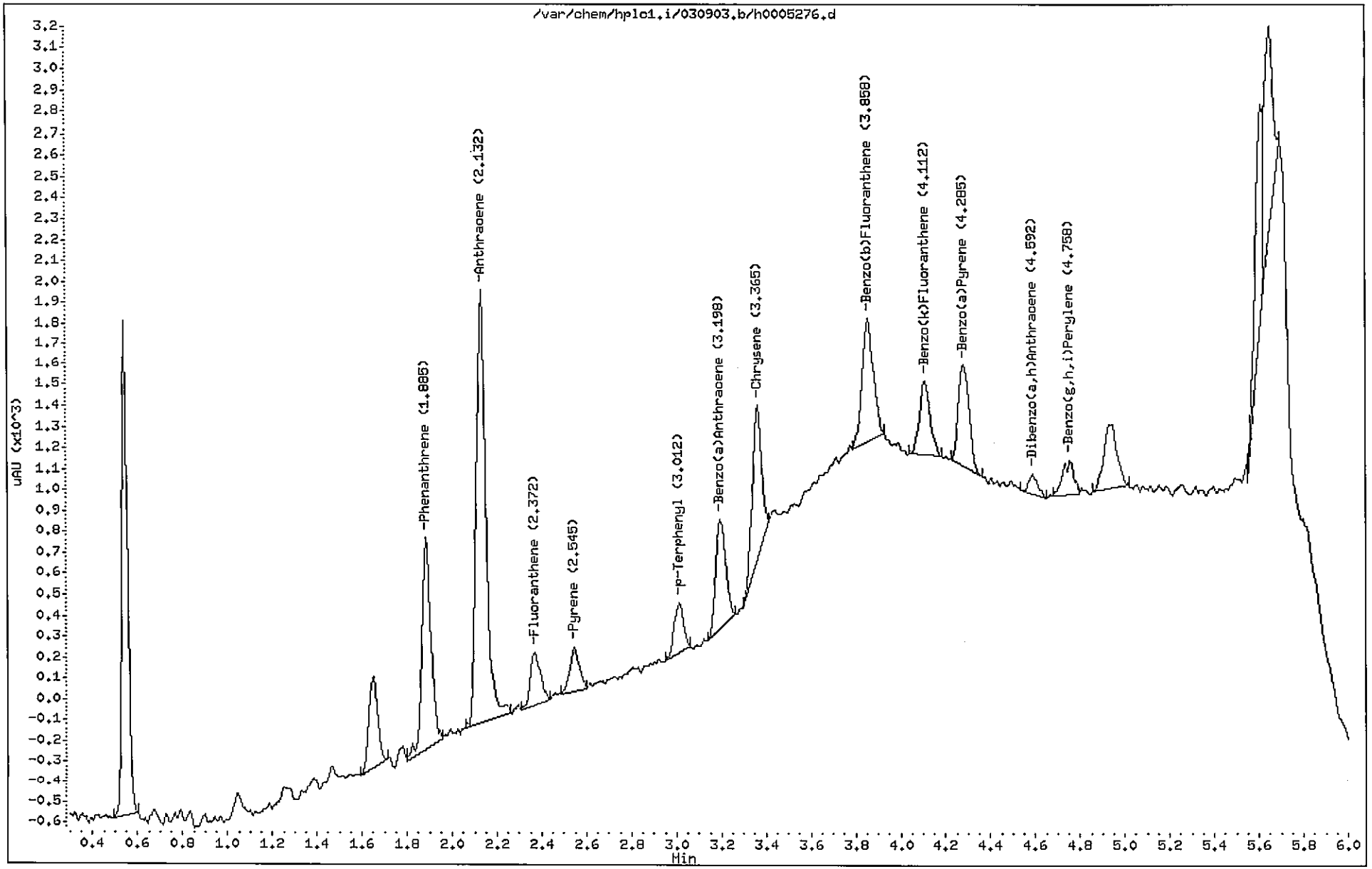
Volume Injected (uL): 10.0

Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10



000380

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005275.d
Lab Smp Id: 0903STD02 Client Smp ID: 0903STD02
Inj Date : 03-SEP-2003 09:18
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD02
Misc Info : 3-46-9
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:18 Cal File: h0005275.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

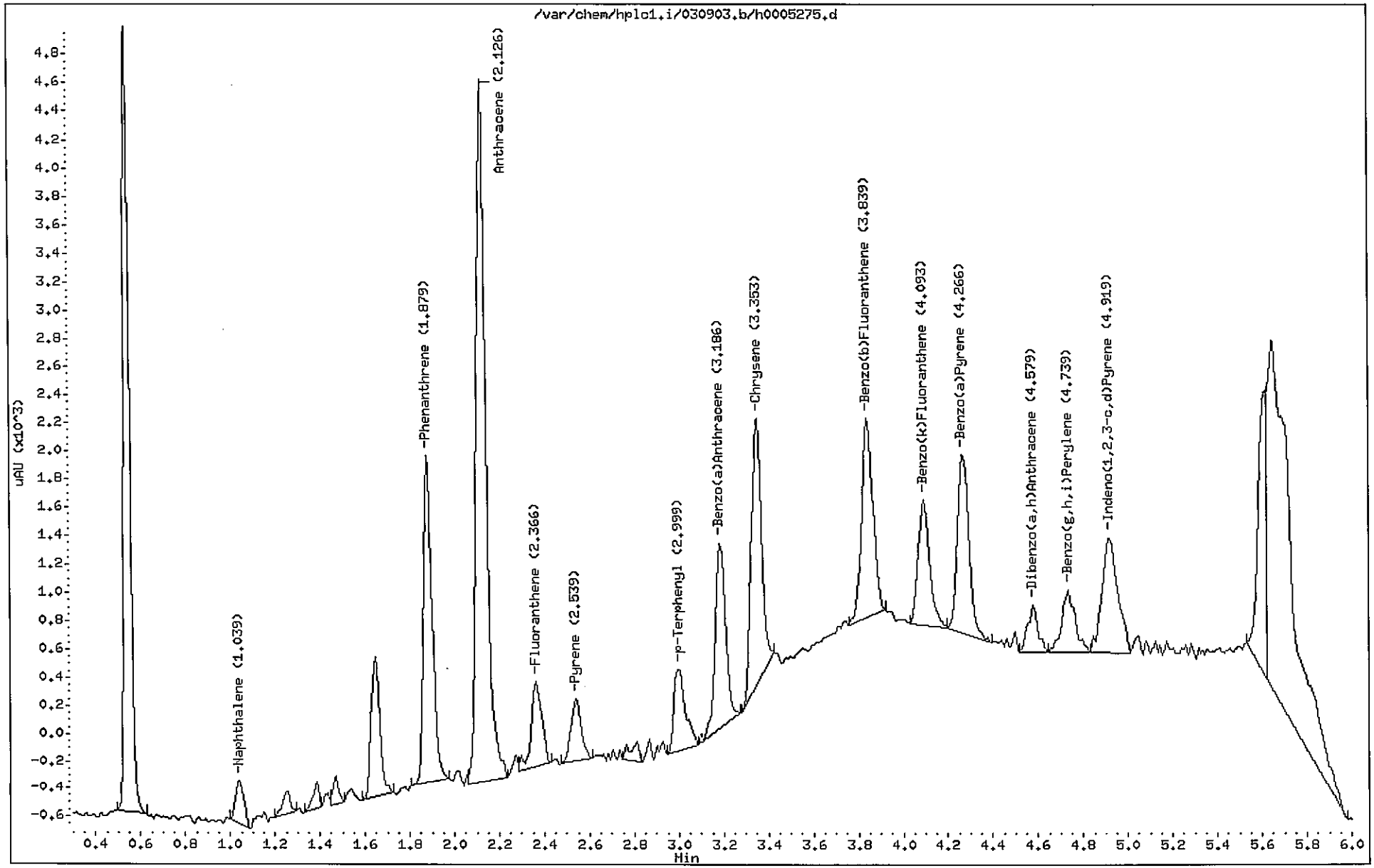
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.039	1.039	0.000	795	0.25000	0.299
7 Phenanthrene	1.879	1.885	-0.006	6351	0.25000	0.244
8 Anthracene	2.126	2.132	-0.006	14899	0.25000	0.266
9 Fluoranthene	2.366	2.372	-0.006	1995	0.25000	0.267
10 Pyrene	2.539	2.545	-0.006	1410	0.25000	0.240
11 p-Terphenyl	2.999	3.012	-0.013	2028	0.25000	0.284
12 Benzo(a)Anthracene	3.186	3.198	-0.012	4209	0.25000	0.255
13 Chrysene	3.353	3.365	-0.012	5942	0.25000	0.229
14 Benzo(b)Fluoranthene	3.839	3.858	-0.019	4890	0.25000	0.233
15 Benzo(k)Fluoranthene	4.093	4.112	-0.019	3158	0.25000	0.243
16 Benzo(a)Pyrene	4.266	4.285	-0.019	4517	0.25000	0.253
17 Dibenzo(a,h)Anthracene	4.579	4.592	-0.013	1052	0.25000	0.273
18 Benzo(g,h,i)Perylene	4.739	4.758	-0.019	1855	0.25000	0.274
19 Indeno(1,2,3-c,d)Pyrene	4.919	4.919	0.000	4042	0.25000	0.269

Data File: /var/chem/hplc1.i/030903.b/h0005275.d
Date : 03-SEP-2003 09:18
Client ID: 0903STD02
Sample Info: 0903STD02
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



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Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005274.d
Lab Smp Id: 0903STD03 Client Smp ID: 0903STD03
Inj Date : 03-SEP-2003 09:11
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD03
Misc Info : 3-46-8
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:11 Cal File: h0005274.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

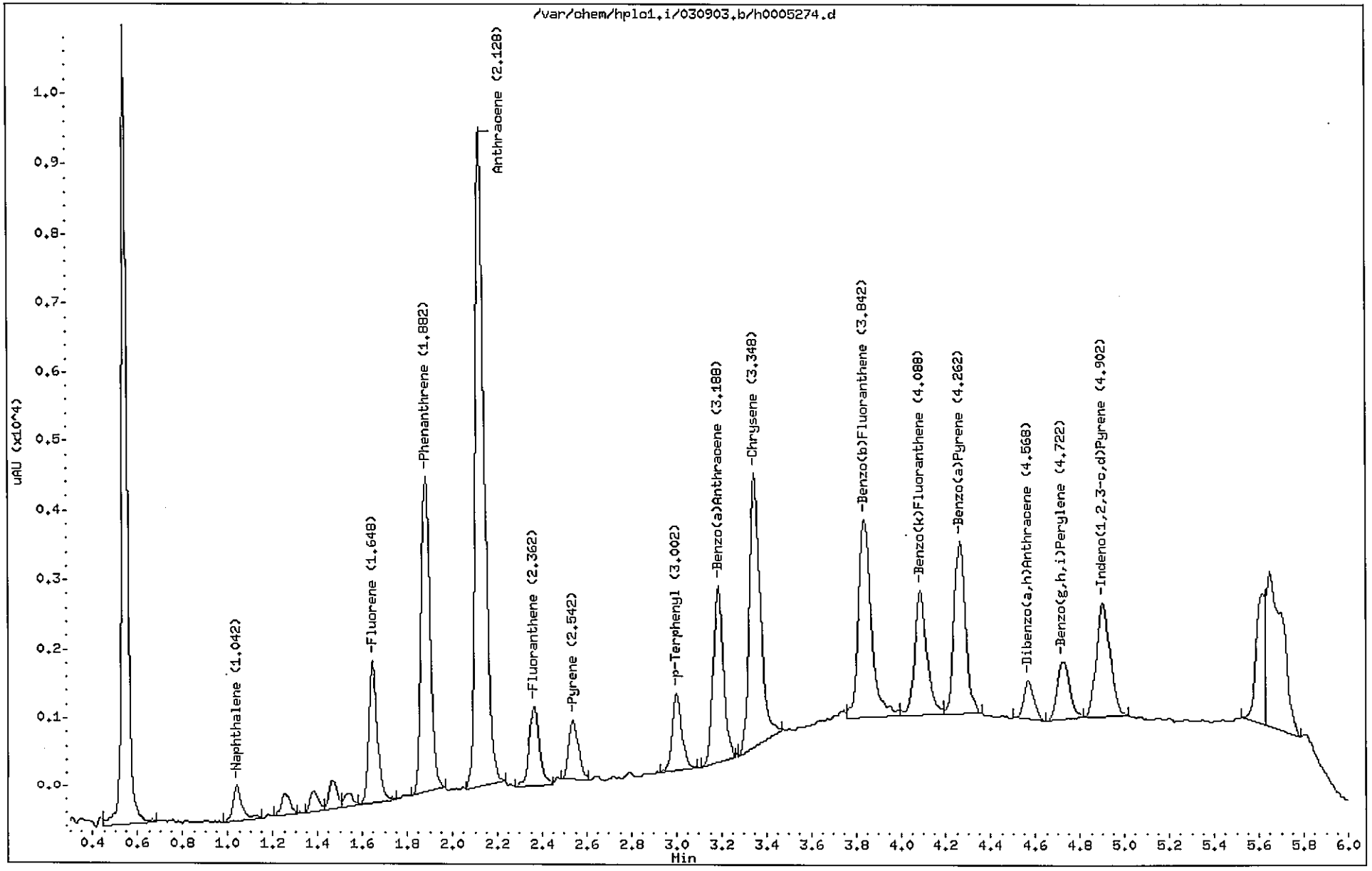
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.042	1.039	0.003	1427	0.50000	0.538
6 Fluorene	1.648	1.648	0.000	5671	0.50000	0.495
7 Phenanthrene	1.882	1.885	-0.003	12438	0.50000	0.478
8 Anthracene	2.128	2.132	-0.004	27422	0.50000	0.490
9 Fluoranthene	2.362	2.372	-0.010	3766	0.50000	0.503
10 Pyrene	2.542	2.545	-0.003	2674	0.50000	0.454
11 p-Terphenyl	3.002	3.012	-0.010	3352	0.50000	0.470
12 Benzo(a)Anthracene	3.188	3.198	-0.010	8059	0.50000	0.488
13 Chrysene	3.348	3.365	-0.017	13537	0.50000	0.522
14 Benzo(b)Fluoranthene	3.842	3.858	-0.016	11464	0.50000	0.547
15 Benzo(k)Fluoranthene	4.088	4.112	-0.024	6957	0.50000	0.536
16 Benzo(a)Pyrene	4.262	4.285	-0.023	8868	0.50000	0.496
17 Dibenzo(a,h)Anthracene	4.568	4.592	-0.024	1778	0.50000	0.461
18 Benzo(g,h,i)Perylene	4.722	4.758	-0.036	3267	0.50000	0.482

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
19 Indeno(1,2,3-c,d)Pyrene	4.902	4.919	-0.017	7022	0.50000	0.467

Data File: /var/chem/hplc1.i/030903.b/h0005274.d
Date : 03-SEP-2003 09:11
Client ID: 0903STD03
Sample Info: 0903STD03
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



000385

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005273.d
Lab Smp Id: 0903STD04 Client Smp ID: 0903STD04
Inj Date : 03-SEP-2003 09:04
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD04
Misc Info : 3-46-7
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:04 Cal File: h0005273.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.046	1.039	0.007	2307	1.00000	0.869
2 Acenaphthylene	1.259	1.259	0.000	1674	1.00000	1.00
3 1-Methynaphthalene	1.386	1.386	0.000	1373	1.00000	0.988(M)
4 2-Methylnaphthalene	1.472	1.472	0.000	2014	1.00000	0.994(M)
5 Acenaphthene	1.539	1.539	0.000	891	1.00000	0.897(M)
6 Fluorene	1.646	1.648	-0.002	11387	1.00000	0.993(M)
7 Phenanthrene	1.886	1.885	0.001	24671	1.00000	0.947
8 Anthracene	2.126	2.132	-0.006	55940	1.00000	1.000
9 Fluoranthene	2.366	2.372	-0.006	7024	1.00000	0.939
10 Pyrene	2.546	2.545	0.001	5788	1.00000	0.984
11 p-Terphenyl	3.006	3.012	-0.006	6866	1.00000	0.963
12 Benzo(a)Anthracene	3.192	3.198	-0.006	15906	1.00000	0.964
13 Chrysene	3.353	3.365	-0.012	26262	1.00000	1.01
14 Benzo(b)Fluoranthene	3.846	3.858	-0.012	22424	1.00000	1.07

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.093	4.112	-0.019	13790	1.00000	1.06
16 Benzo(a)Pyrene	4.266	4.285	-0.019	18221	1.00000	1.02
17 Dibenzo(a,h)Anthracene	4.572	4.592	-0.020	3862	1.00000	1.00
18 Benzo(g,h,i)Perylene	4.732	4.758	-0.026	6596	1.00000	0.974
19 Indeno(1,2,3-c,d)Pyrene	4.912	4.919	-0.007	14531	1.00000	0.967

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplo1.i/030903.b/h0005273.d

Date : 03-SEP-2003 09:04

Client ID: 0903STD04

Sample Info: 0903STD04

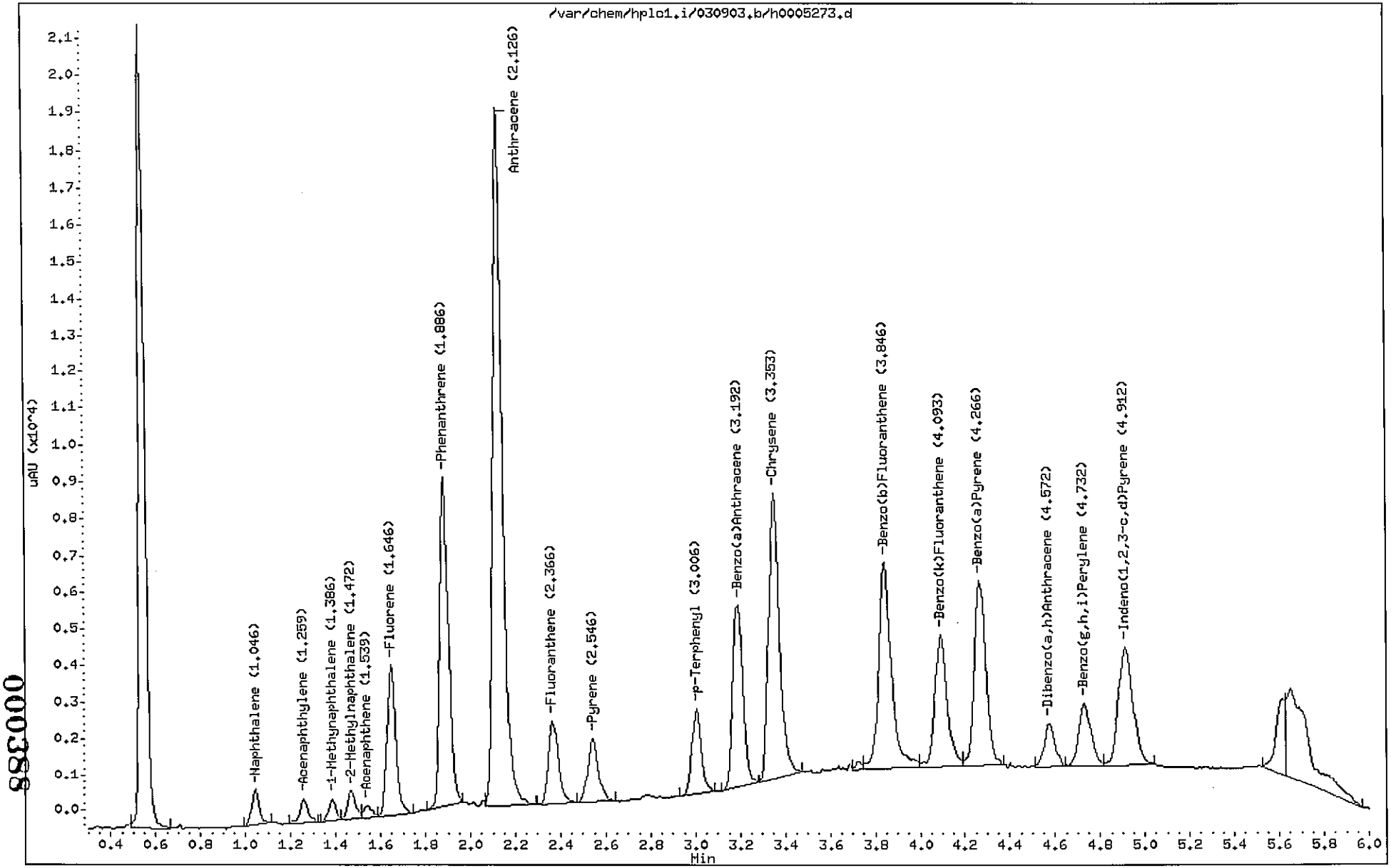
Volume Injected (uL): 10.0

Column phase: 201TP-0.15M

Instrument: hplo1.i

Operator: jdt

Column diameter: 2.10



000388

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005272.d
Lab Smp Id: 0903STD05 Client Smp ID: 0903STD05
Inj Date : 03-SEP-2003 08:57
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:57 Cal File: h0005272.d
Vials bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

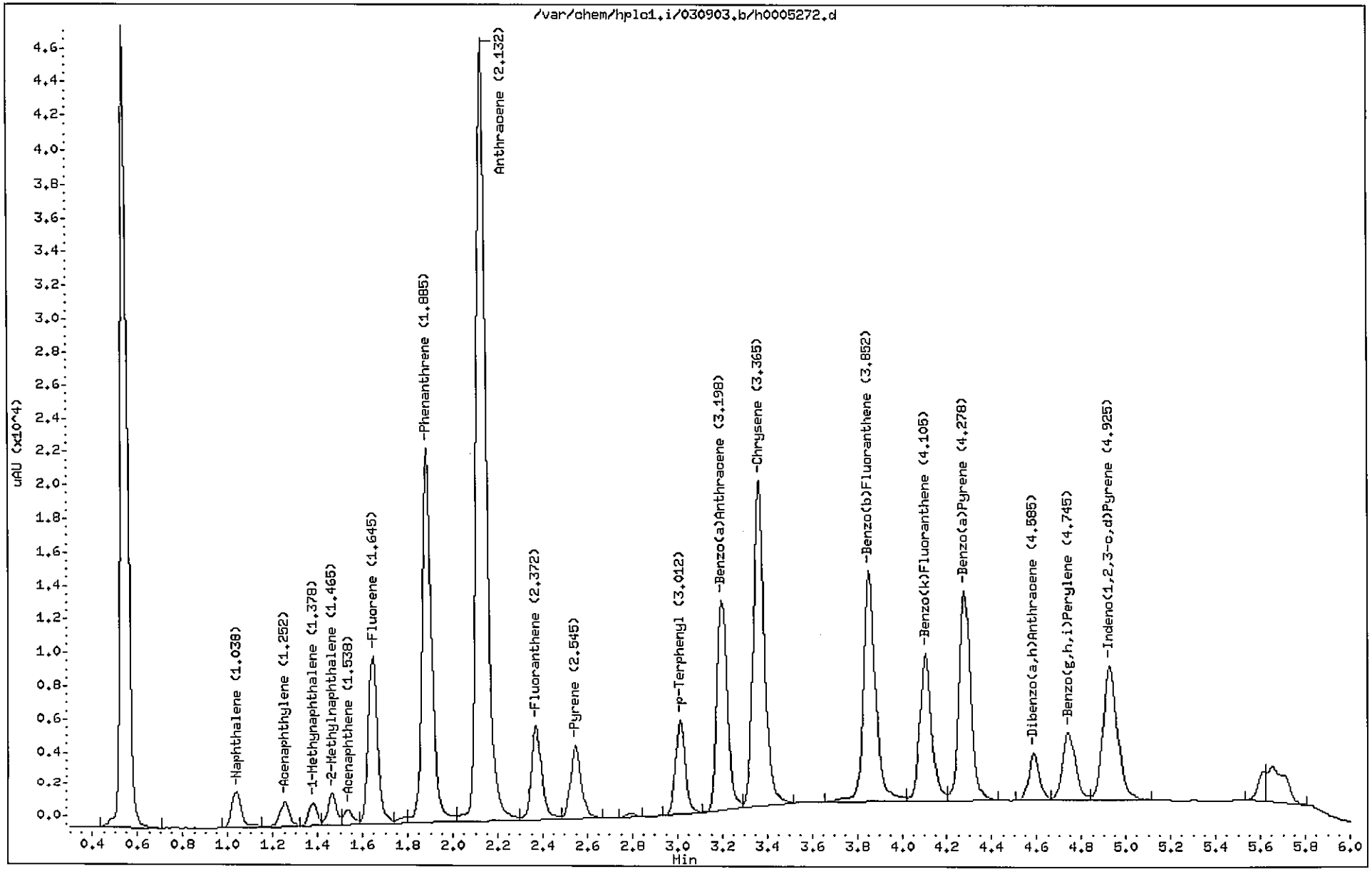
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.038	1.039	-0.001	6425	2.50000	2.42
2 Acenaphthylene	1.252	1.259	-0.007	4199	2.50000	2.52
3 1-Methynaphthalene	1.378	1.386	-0.008	3440	2.50000	2.48
4 2-Methylnaphthalene	1.465	1.472	-0.007	5102	2.50000	2.52
5 Acenaphthene	1.538	1.539	-0.001	2590	2.50000	2.61
6 Fluorene	1.645	1.648	-0.003	29189	2.50000	2.55
7 Phenanthrene	1.885	1.885	0.000	67477	2.50000	2.59
8 Anthracene	2.132	2.132	0.000	142993	2.50000	2.56
9 Fluoranthene	2.372	2.372	0.000	18805	2.50000	2.51
10 Pyrene	2.545	2.545	0.000	15154	2.50000	2.58
11 p-Terphenyl	3.012	3.012	0.000	17354	2.50000	2.43
12 Benzo(a)Anthracene	3.198	3.198	0.000	41347	2.50000	2.51
13 Chrysene	3.365	3.365	0.000	68527	2.50000	2.64
14 Benzo(b)Fluoranthene	3.852	3.858	-0.006	53056	2.50000	2.53

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.105	4.112	-0.007	32852	2.50000	2.53
16 Benzo(a)Pyrene	4.278	4.285	-0.007	45750	2.50000	2.56
17 Dibenzo(a,h)Anthracene	4.585	4.592	-0.007	9868	2.50000	2.56
18 Benzo(g,h,i)Perylene	4.745	4.758	-0.013	17178	2.50000	2.54
19 Indeno(1,2,3-c,d)Pyrene	4.925	4.919	0.006	37960	2.50000	2.53

Data File: /var/chem/hplc1.i/030903.b/h0005272.d
Date : 03-SEP-2003 08:57
Client ID: 0903STD05
Sample Info: 0903STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



000391

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005271.d
Lab Smp Id: 0903STD06 Client Smp ID: 0903STD06
Inj Date : 03-SEP-2003 08:50
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD06
Misc Info : 3-46-5
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:50 Cal File: h0005271.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.032	1.039	-0.007	12575	5.00000	4.74
2 Acenaphthylene	1.245	1.259	-0.014	7705	5.00000	4.63
3 1-Methynaphthalene	1.372	1.386	-0.014	6624	5.00000	4.77
4 2-Methylnaphthalene	1.458	1.472	-0.014	9675	5.00000	4.78
5 Acenaphthene	1.525	1.539	-0.014	4668	5.00000	4.70
6 Fluorene	1.632	1.648	-0.016	56717	5.00000	4.95
7 Phenanthrene	1.865	1.885	-0.020	129408	5.00000	4.97
8 Anthracene	2.105	2.132	-0.027	273666	5.00000	4.89
9 Fluoranthene	2.345	2.372	-0.027	35656	5.00000	4.76
10 Pyrene	2.518	2.545	-0.027	29595	5.00000	5.03
11 p-Terphenyl	2.978	3.012	-0.034	34470	5.00000	4.84
12 Benzo(a)Anthracene	3.165	3.198	-0.033	82645	5.00000	5.01
13 Chrysene	3.325	3.365	-0.040	134639	5.00000	5.19
14 Benzo(b)Fluoranthene	3.812	3.858	-0.046	98964	5.00000	4.72

					AMOUNTS	
					CAL-AMT	ON-COL
ompounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/ml)
15 Benzo(k)Fluoranthene	4.065	4.112	-0.047	63488	5.00000	4.89
16 Benzo(a)Pyrene	4.238	4.285	-0.047	90168	5.00000	5.04
17 Dibenzo(a,h)Anthracene	4.552	4.592	-0.040	20573	5.00000	5.33
18 Benzo(g,h,i)Perylene	4.705	4.758	-0.053	34707	5.00000	5.12
19 Indeno(1,2,3-c,d)Pyrene	4.878	4.919	-0.041	75168	5.00000	5.00

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005270.d
Lab Smp Id: 0903STD07 Client Smp ID: 0903STD07
Inj Date : 03-SEP-2003 08:44
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD07
Misc Info : 3-46-4
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:44 Cal File: h0005270.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

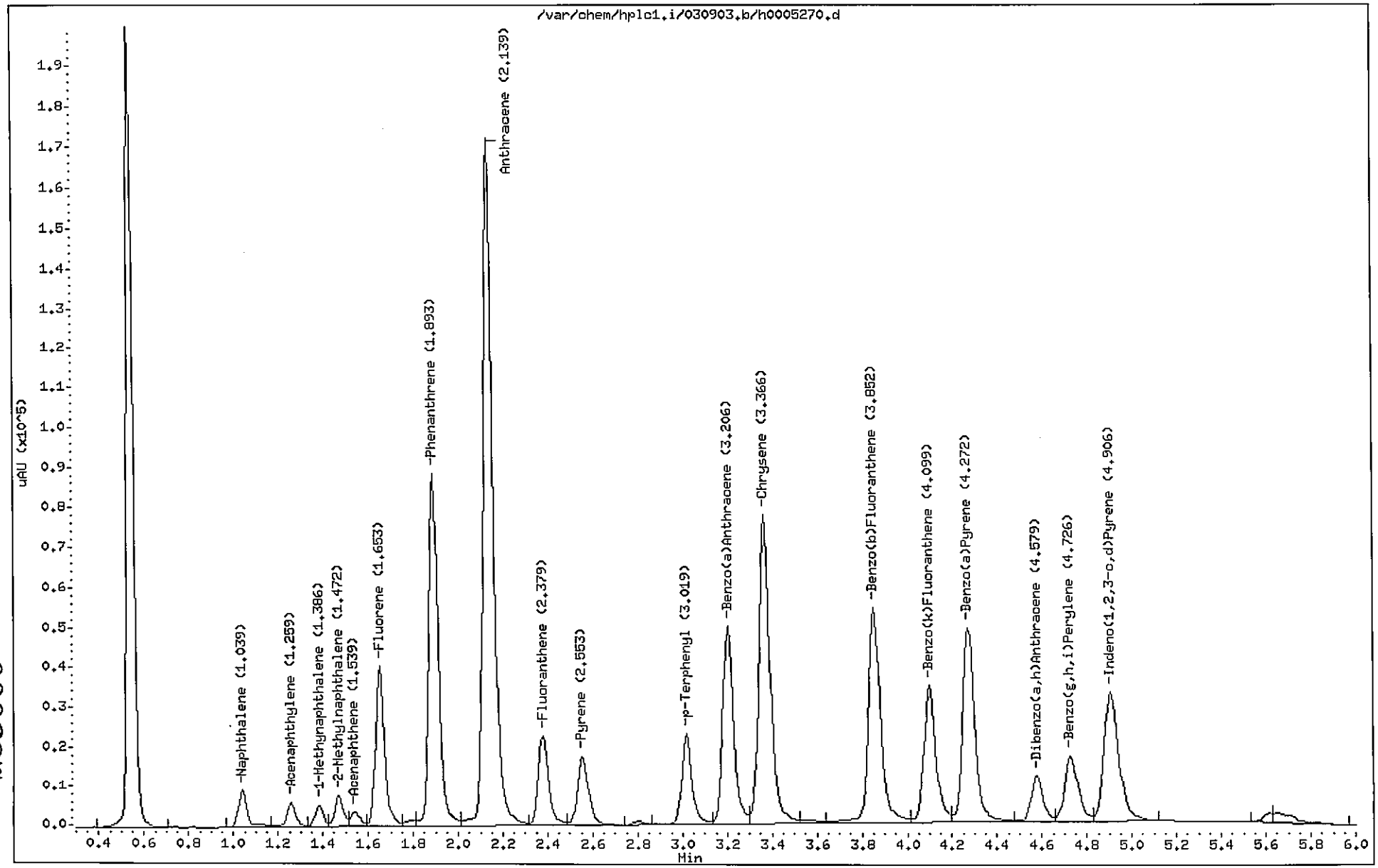
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.039	1.039	0.000	25398	10.0000	9.57
2 Acenaphthylene	1.259	1.259	0.000	17092	10.0000	10.3
3 1-Methynaphthalene	1.386	1.386	0.000	14058	10.0000	10.1
4 2-Methylnaphthalene	1.472	1.472	0.000	20453	10.0000	10.1
5 Acenaphthene	1.539	1.539	0.000	10428	10.0000	10.5
6 Fluorene	1.653	1.648	0.005	115075	10.0000	10.0
7 Phenanthrene	1.893	1.885	0.008	259007	10.0000	9.94
8 Anthracene	2.139	2.132	0.007	532069	10.0000	9.51
9 Fluoranthene	2.379	2.372	0.007	72627	10.0000	9.71
10 Pyrene	2.553	2.545	0.008	60360	10.0000	10.3
11 p-Terphenyl	3.019	3.012	0.007	73672	10.0000	10.3
12 Benzo(a)Anthracene	3.206	3.198	0.008	169921	10.0000	10.3
13 Chrysene	3.366	3.365	0.001	275425	10.0000	10.6
14 Benzo(b)Fluoranthene	3.852	3.858	-0.006	207498	10.0000	9.90

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.099	4.112	-0.013	129359	10.0000	9.97
16 Benzo(a)Pyrene	4.272	4.285	-0.013	184310	10.0000	10.3
17 Dibenzo(a,h)Anthracene	4.579	4.592	-0.013	42744	10.0000	11.1
18 Benzo(g,h,i)Perylene	4.726	4.758	-0.032	70317	10.0000	10.4
19 Indeno(1,2,3-c,d)Pyrene	4.906	4.919	-0.013	150420	10.0000	10.0

Data File: /var/chem/hplc1.i/030903.b/h0005270.d
Date : 03-SEP-2003 08:44
Client ID: 0903STD07
Sample Info: 0903STD07
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



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Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005269.d
Lab Smp Id: 0903STD08 Client Smp ID: 0903STD08
Inj Date : 03-SEP-2003 08:36
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD08
Misc Info : 3-46-3
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:36 Cal File: h0005269.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

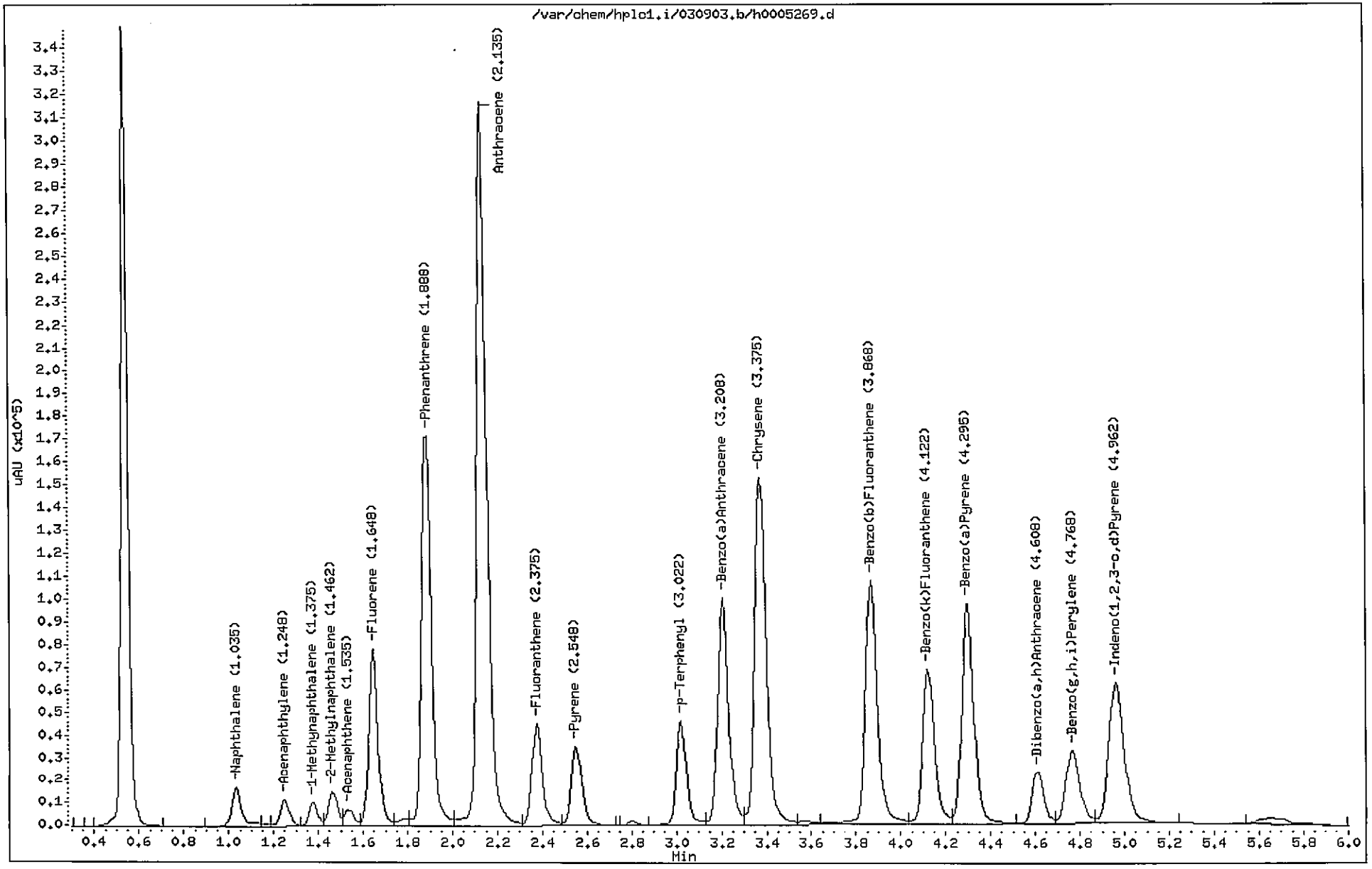
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/ml)
1 Naphthalene	1.035	1.039	-0.004	52366	20.0000	19.7
2 Acenaphthylene	1.248	1.259	-0.011	34511	20.0000	20.7
3 1-Methynaphthalene	1.375	1.386	-0.011	29373	20.0000	21.1
4 2-Methylnaphthalene	1.462	1.472	-0.010	41910	20.0000	20.7
5 Acenaphthene	1.535	1.539	-0.004	21258	20.0000	21.4
6 Fluorene	1.648	1.648	0.000	230849	20.0000	20.1
7 Phenanthrene	1.888	1.885	0.003	518162	20.0000	19.9
8 Anthracene	2.135	2.132	0.003	1013193	20.0000	18.1
9 Fluoranthene	2.375	2.372	0.003	146496	20.0000	19.6
10 Pyrene	2.548	2.545	0.003	120542	20.0000	20.5
11 p-Terphenyl	3.022	3.012	0.010	147852	20.0000	20.7
12 Benzo(a)Anthracene	3.208	3.198	0.010	342346	20.0000	20.7
13 Chrysene	3.375	3.365	0.010	548489	20.0000	21.1
14 Benzo(b)Fluoranthene	3.868	3.858	0.010	407956	20.0000	19.5

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.122	4.112	0.010	256832	20.0000	19.8
16 Benzo(a)Pyrene	4.295	4.285	0.010	365062	20.0000	20.4
17 Dibenzo(a,h)Anthracene	4.608	4.592	0.016	83568	20.0000	21.7
18 Benzo(g,h,i)Perylene	4.768	4.758	0.010	142000	20.0000	21.0
19 Indeno(1,2,3-c,d)Pyrene	4.962	4.919	0.043	302828	20.0000	20.2

Data File: /var/chem/hplc1.i/030903.b/h0005269.d
Date : 03-SEP-2003 08:36
Client ID: 0903STD08
Sample Info: 0903STD08
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



000400

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 0903PNAICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/030903.b/flpnauv.m
Misc Info: 3-47-8

Client SDG:
Fraction: OTHER
Client Smp ID: 0903PNAICV
Operator: jdt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	5.00	4.91	98.13	80-120
2 Acenaphthylene	5.00	5.14	102.81	80-120
3 1-Methynaphthalene	10.0	11.7	116.72	80-120
4 2-Methylnaphthalen	10.0	10.1	101.28	80-120
5 Acenaphthene	10.0	10.1	101.34	80-120
6 Fluorene	1.00	1.03	103.38	80-120
7 Phenanthrene	0.400	0.417	104.27	80-120
8 Anthracene	0.200	0.209	104.63	80-120
9 Fluoranthene	0.500	0.482	96.48	80-120
10 Pyrene	1.00	0.971	97.15	80-120
12 Benzo(a)Anthracene	0.500	0.490	98.06	80-120
13 Chrysene	0.500	0.542	108.46	80-120
14 Benzo(b)Fluoranthe	0.200	0.220	109.79	80-120
15 Benzo(k)Fluoranthe	0.200	0.223	111.71	80-120
16 Benzo(a)Pyrene	0.500	0.525	105.06	80-120
17 Dibenzo(a,h)Anthra	2.00	2.20	110.04	80-120
18 Benzo(g,h,i)Peryle	0.800	0.811	101.40	80-120
19 Indeno(1,2,3-c,d)P	0.500	0.502	100.49	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	4.00	4.12	103.08	40-140

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903.b/h0005277.d
Lab Smp Id: 0903PNAICV Client Smp ID: 0903PNAICV
Inj Date : 03-SEP-2003 10:08
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903PNAICV
Misc Info : 3-47-8
Comment :
Method : /var/chem/hplc1.i/030903.b/flpnauv.m
Meth Date : 04-Sep-2003 16:53 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.030	1.039	-0.009	13026	4.90660	4.91
2 Acenaphthylene	1.243	1.259	-0.016	8563	5.14038	5.14
3 1-Methynaphthalene	1.370	1.386	-0.016	16219	11.6719	11.7
4 2-Methylnaphthalene	1.450	1.472	-0.022	20521	10.1284	10.1
5 Acenaphthene	1.523	1.539	-0.016	10065	10.1339	10.1
6 Fluorene	1.630	1.648	-0.018	11853	1.03377	1.03
7 Phenanthrene	1.863	1.885	-0.022	10862	0.41707	0.417
8 Anthracene	2.110	2.132	-0.022	11706	0.20927	0.209
9 Fluoranthene	2.343	2.372	-0.029	3610	0.48241	0.482
10 Pyrene	2.517	2.545	-0.028	5717	0.97149	0.971
11 p-Terphenyl	2.977	3.012	-0.035	29391	4.12315	4.12
12 Benzo(a)Anthracene	3.157	3.198	-0.041	8089	0.49028	0.490
13 Chrysene	3.317	3.365	-0.048	14066	0.54228	0.542
14 Benzo(b)Fluoranthene	3.803	3.858	-0.055	4601	0.21957	0.220

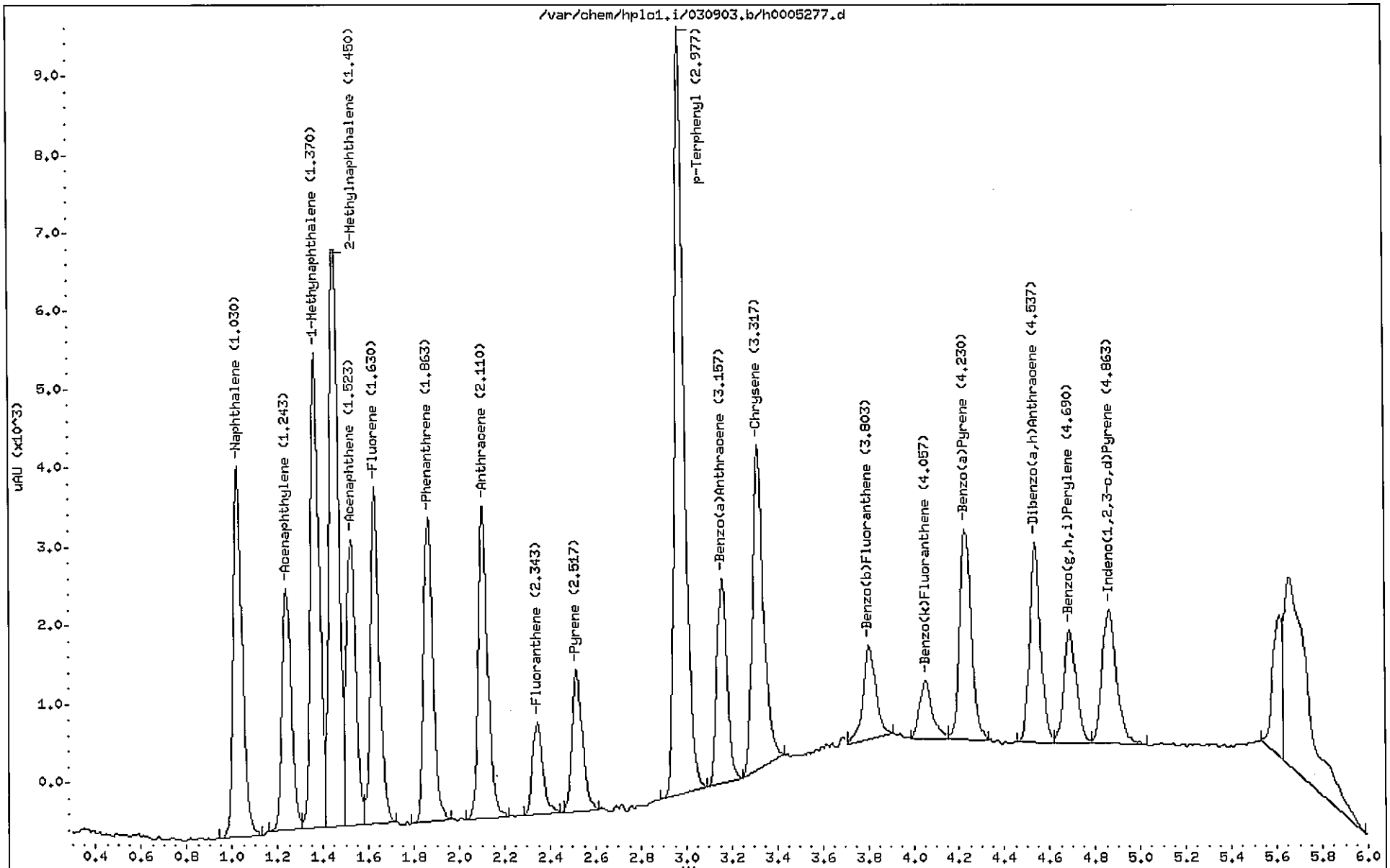
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.057	4.112	-0.055	2899	0.22343	0.223
16 Benzo(a)Pyrene	4.230	4.285	-0.055	9394	0.52528	0.525
17 Dibenzo(a,h)Anthracene	4.537	4.592	-0.055	8489	2.20081	2.20
18 Benzo(g,h,i)Perylene	4.690	4.758	-0.068	5495	0.81118	0.811
19 Indeno(1,2,3-c,d)Pyrene	4.863	4.919	-0.056	7547	0.50246	0.502

Data File: /var/chem/hplc1.i/030903.b/h0005277.d
Date : 03-SEP-2003 10:08
Client ID: 0903PNAICV
Sample Info: 0903PNAICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000404



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005341.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 10:06
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

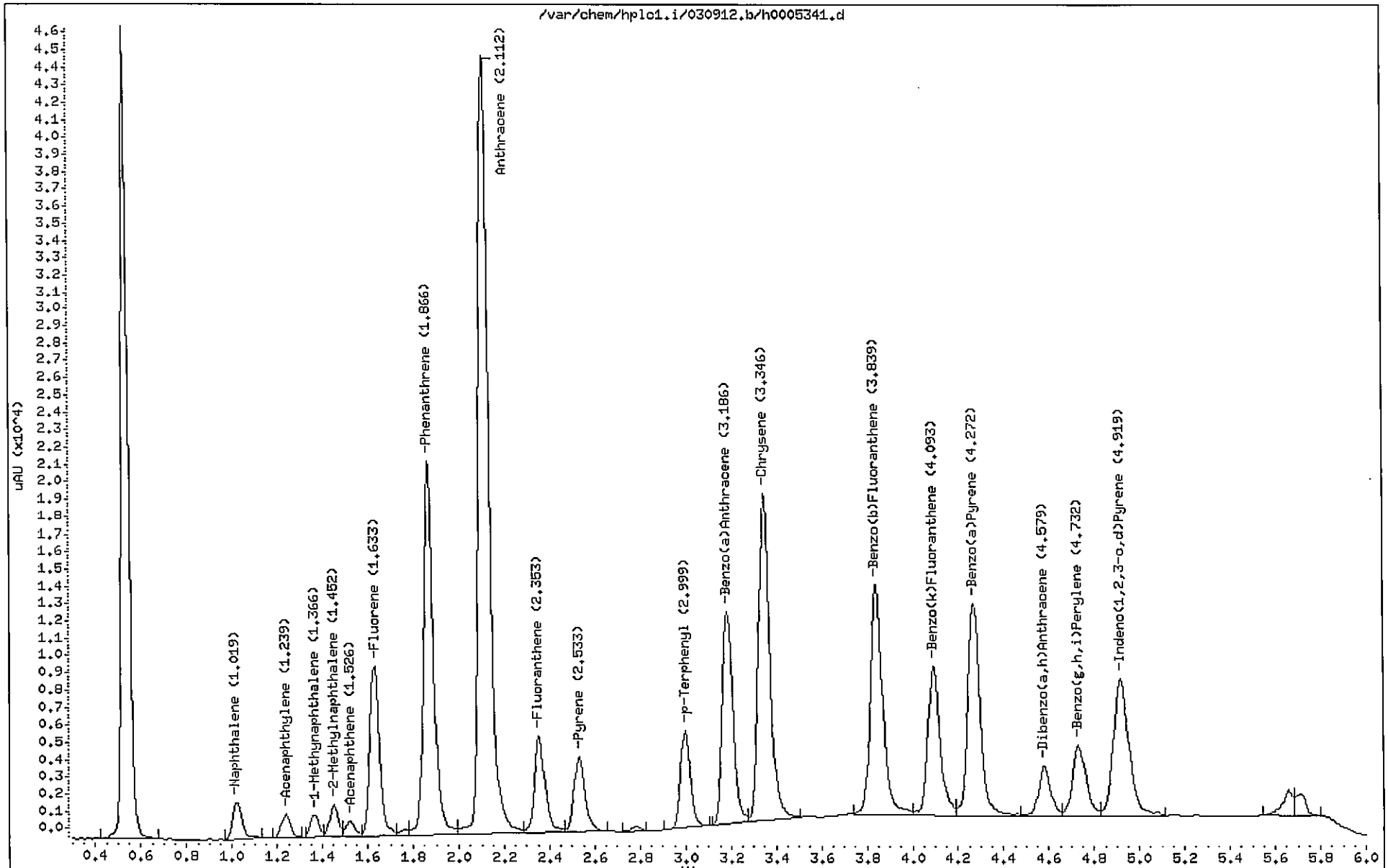
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.019	1.021	-0.002	5966	2.50000	2.25
2 Acenaphthylene	1.239	1.228	0.011	3595	2.50000	2.16
3 1-Methynaphthalene	1.366	1.352	0.014	3174	2.50000	2.28
4 2-Methylnaphthalene	1.452	1.438	0.014	4936	2.50000	2.44
5 Acenaphthene	1.526	1.514	0.012	2387	2.50000	2.40
6 Fluorene	1.633	1.614	0.019	28399	2.50000	2.48
7 Phenanthrene	1.866	1.847	0.019	65374	2.50000	2.51
8 Anthracene	2.112	2.087	0.025	140409	2.50000	2.51
9 Fluoranthene	2.353	2.328	0.025	18315	2.50000	2.45
10 Pyrene	2.533	2.501	0.032	14869	2.50000	2.53
11 p-Terphenyl	2.999	2.961	0.038	16705	2.50000	2.34
12 Benzo(a)Anthracene	3.186	3.141	0.045	39948	2.50000	2.42
13 Chrysene	3.346	3.301	0.045	65745	2.50000	2.53

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.839	3.788	0.051	50873	2.50000	2.43
15 Benzo(k)Fluoranthene	4.093	4.077	0.016	32421	2.50000	2.50
16 Benzo(a)Pyrene	4.272	4.152	0.120	46197	2.50000	2.58
17 Dibenzo(a,h)Anthracene	4.579	4.458	0.121	10738	2.50000	2.78
18 Benzo(g,h,i)Perylene	4.732	4.605	0.127	17488	2.50000	2.58
19 Indeno(1,2,3-c,d)Pyrene	4.919	4.758	0.161	38569	2.50000	2.57

Data File: /var/chem/hplc1.i/030912.b/h0005341.d
Date : 12-SEP-2003 10:06
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000407



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005347.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 11:06
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.025	1.021	0.004	6251	2.50000	2.35
2 Acenaphthylene	1.238	1.228	0.010	4128	2.50000	2.48
3 1-Methynaphthalene	1.365	1.352	0.013	3300	2.50000	2.38
4 2-Methylnaphthalene	1.452	1.438	0.014	4956	2.50000	2.45
5 Acenaphthene	1.525	1.514	0.011	2430	2.50000	2.45
6 Fluorene	1.632	1.614	0.018	28886	2.50000	2.52
7 Phenanthrene	1.872	1.847	0.025	66065	2.50000	2.54
8 Anthracene	2.112	2.087	0.025	142639	2.50000	2.55
9 Fluoranthene	2.352	2.328	0.024	18125	2.50000	2.42
10 Pyrene	2.525	2.501	0.024	14924	2.50000	2.54
11 p-Terphenyl	2.992	2.961	0.031	17122	2.50000	2.40
12 Benzo(a)Anthracene	3.178	3.141	0.037	40663	2.50000	2.46
13 Chrysene	3.338	3.301	0.037	67160	2.50000	2.59

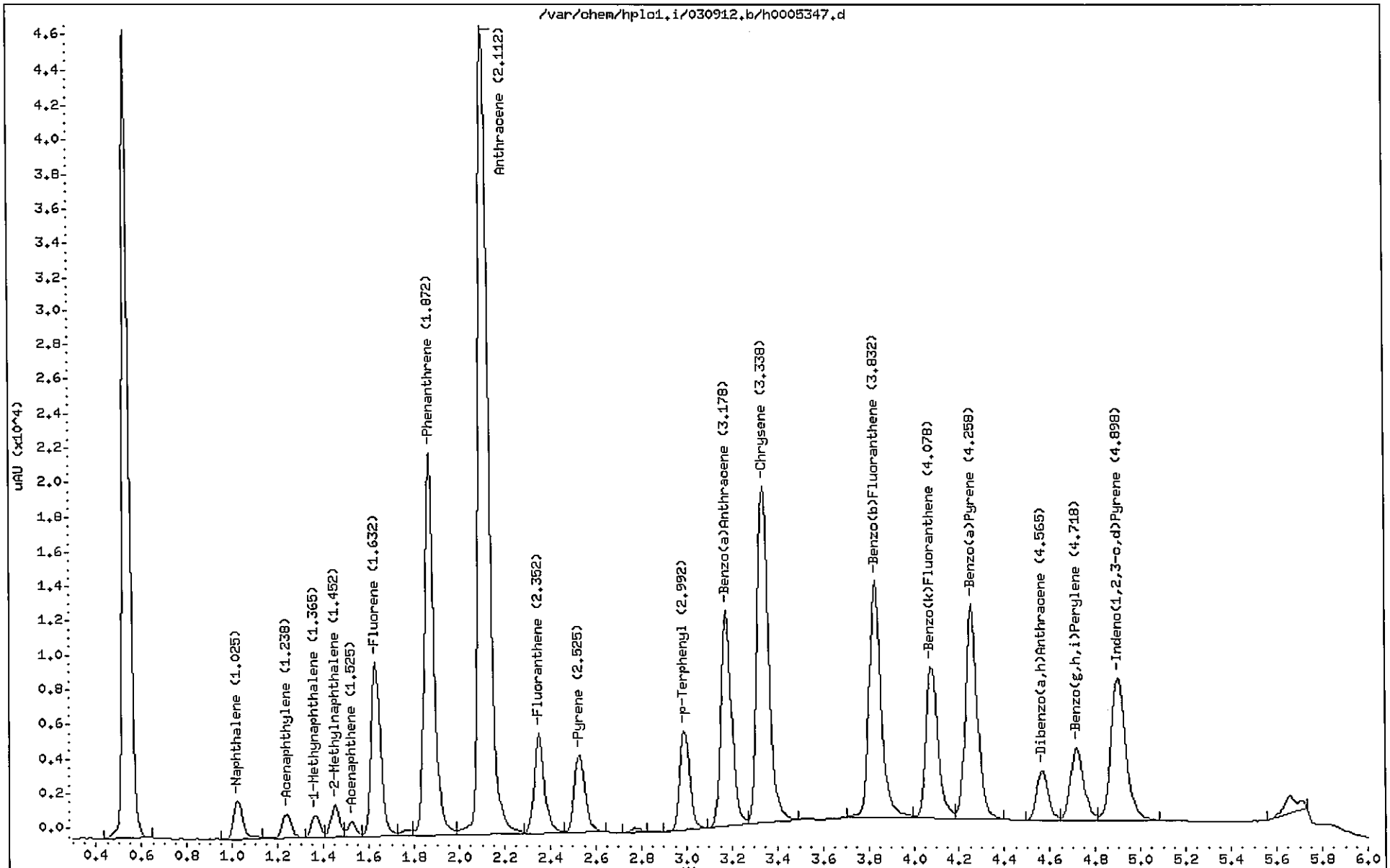
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.832	3.788	0.044	50658	2.50000	2.42
15 Benzo(k)Fluoranthene	4.078	4.077	0.001	31980	2.50000	2.46
16 Benzo(a)Pyrene	4.258	4.152	0.106	44878	2.50000	2.51
17 Dibenzo(a,h)Anthracene	4.565	4.458	0.107	10012	2.50000	2.60
18 Benzo(g,h,i)Perylene	4.718	4.605	0.113	17130	2.50000	2.53
19 Indeno(1,2,3-c,d)Pyrene	4.898	4.758	0.140	37883	2.50000	2.52

Data File: /var/chem/hplc1.i/030912.b/h0005347.d
Date : 12-SEP-2003 11:06
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000410



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005358.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 15:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

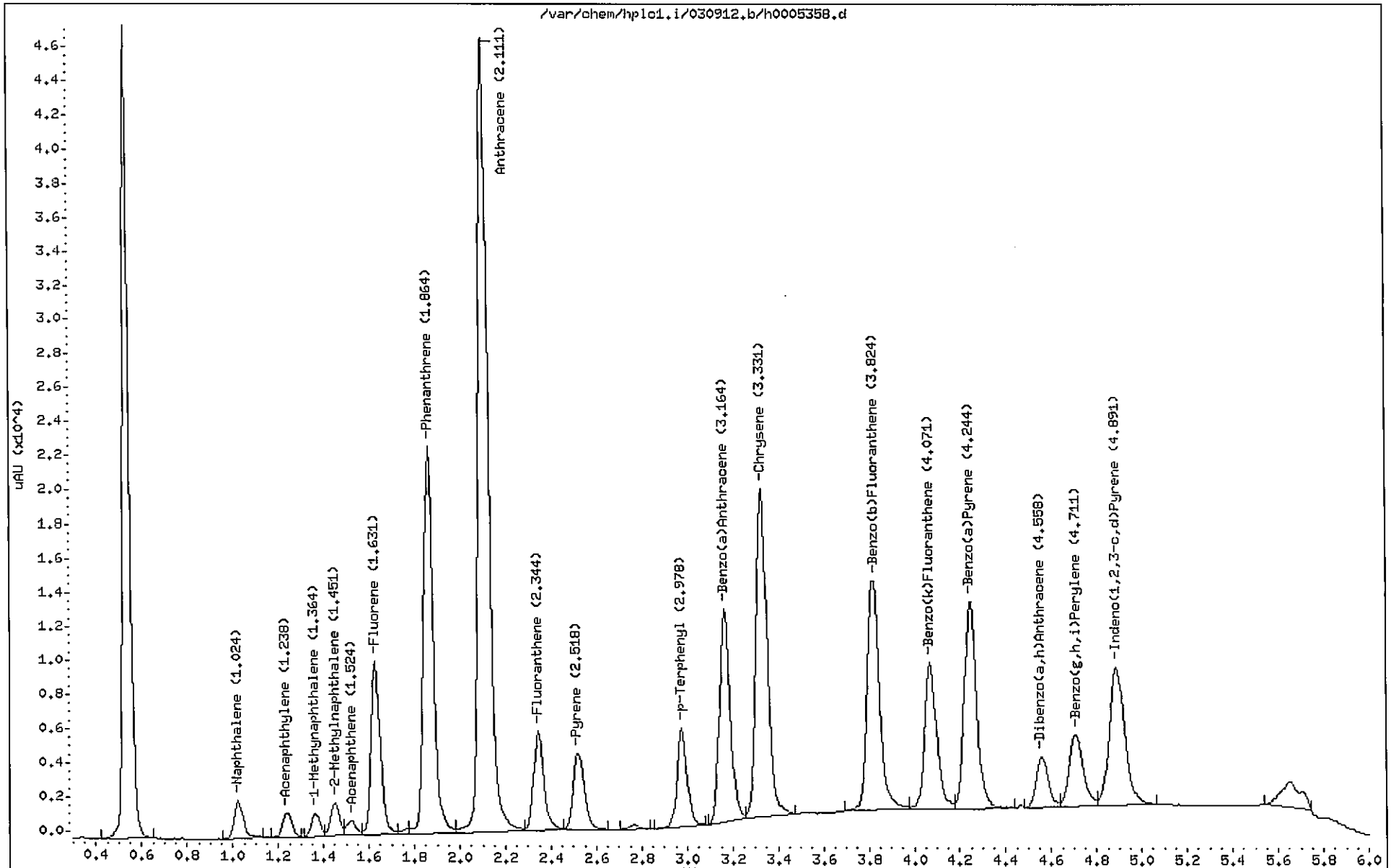
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.024	1.021	0.003	6059	2.50000	2.28
2 Acenaphthylene	1.238	1.228	0.010	3734	2.50000	2.24
3 1-Methynaphthalene	1.364	1.352	0.012	3298	2.50000	2.37
4 2-Methylnaphthalene	1.451	1.438	0.013	4809	2.50000	2.37
5 Acenaphthene	1.524	1.514	0.010	2316	2.50000	2.33
6 Fluorene	1.631	1.614	0.017	28596	2.50000	2.49
7 Phenanthrene	1.864	1.847	0.017	66230	2.50000	2.54
8 Anthracene	2.111	2.087	0.024	143288	2.50000	2.56
9 Fluoranthene	2.344	2.328	0.016	18354	2.50000	2.45
10 Pyrene	2.518	2.501	0.017	15137	2.50000	2.57
11 p-Terphenyl	2.978	2.961	0.017	17326	2.50000	2.43
12 Benzo(a)Anthracene	3.164	3.141	0.023	40537	2.50000	2.46
13 Chrysene	3.331	3.301	0.030	66362	2.50000	2.56

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.824	3.788	0.036	50674	2.50000	2.42
15 Benzo(k)Fluoranthene	4.071	4.077	-0.006	31796	2.50000	2.45
16 Benzo(a)Pyrene	4.244	4.152	0.092	45359	2.50000	2.54
17 Dibenzo(a,h)Anthracene	4.558	4.458	0.100	10514	2.50000	2.73
18 Benzo(g,h,i)Perylene	4.711	4.605	0.106	17824	2.50000	2.63
19 Indeno(1,2,3-c,d)Pyrene	4.891	4.758	0.133	38244	2.50000	2.55

Data File: /var/chem/hplc1.i/030912.b/h0005358.d
Date : 12-SEP-2003 15:32
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000413



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005362.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 16:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.011	1.021	-0.010	6473	2.50000	2.44
2 Acenaphthylene	1.224	1.228	-0.004	4151	2.50000	2.49
3 1-Methynaphthalene	1.351	1.352	-0.001	3608	2.50000	2.60
4 2-Methylnaphthalene	1.438	1.438	0.000	5077	2.50000	2.51
5 Acenaphthene	1.511	1.514	-0.003	2596	2.50000	2.61
6 Fluorene	1.611	1.614	-0.003	29068	2.50000	2.54
7 Phenanthrene	1.844	1.847	-0.003	66189	2.50000	2.54
8 Anthracene	2.078	2.087	-0.009	143104	2.50000	2.56
9 Fluoranthene	2.317	2.328	-0.011	18355	2.50000	2.45
10 Pyrene	2.491	2.501	-0.010	15026	2.50000	2.55
11 p-Terphenyl	2.938	2.961	-0.023	17118	2.50000	2.40
12 Benzo(a)Anthracene	3.118	3.141	-0.023	40897	2.50000	2.48
13 Chrysene	3.277	3.301	-0.024	67304	2.50000	2.59

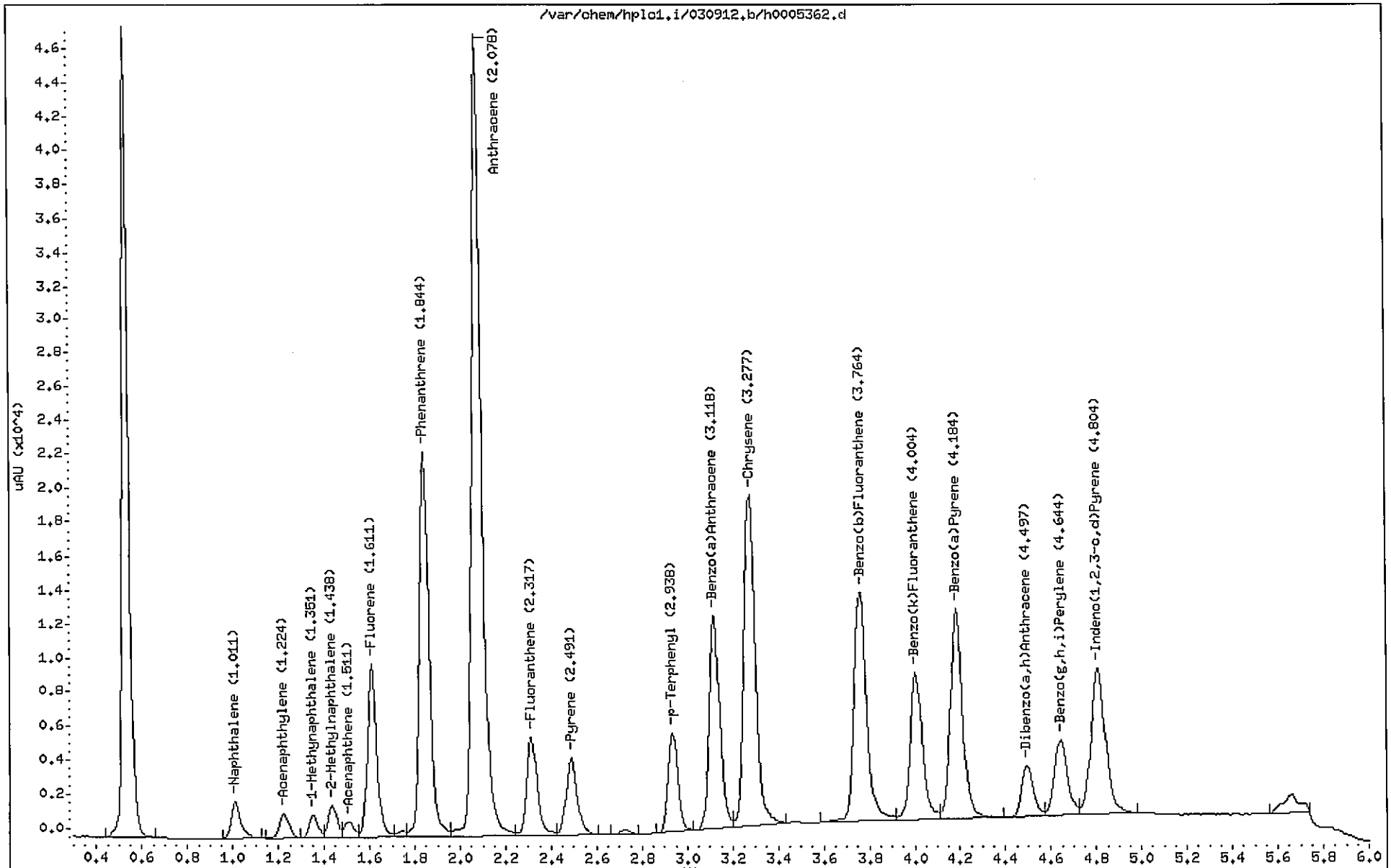
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.764	3.788	-0.024	51260	2.50000	2.45
15 Benzo(k)Fluoranthene	4.004	4.077	-0.073	32155	2.50000	2.48
16 Benzo(a)Pyrene	4.184	4.152	0.032	45839	2.50000	2.56
17 Dibenzo(a,h)Anthracene	4.497	4.458	0.039	10696	2.50000	2.77
18 Benzo(g,h,i)Perylene	4.644	4.605	0.039	18002	2.50000	2.66
19 Indeno(1,2,3-c,d)Pyrene	4.804	4.758	0.046	38665	2.50000	2.57

Data File: /var/chem/hplc1.i/030912.b/h0005362.d
Date : 12-SEP-2003 16:25
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000416



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005276.d
Lab Smp Id: 0903STD01 Client Smp ID: 0903STD01
Inj Date : 03-SEP-2003 09:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD01
Misc Info : 3-46-10
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
7 Phenanthrene	1.900	1.900	0.000	1720	0.10000	0.103(M)
8 Anthracene	2.147	2.147	0.000	657	0.10000	0.113(M)
9 Fluoranthene	2.383	2.383	0.000	547	0.10000	0.0963(M)
10 Pyrene	2.560	2.560	0.000	3789	0.10000	0.105(M)
12 Benzo(a)Anthracene	3.213	3.213	0.000	2742	0.10000	0.0918(M)
13 Chrysene	3.380	3.380	0.000	247	0.10000	0.0611(M)
14 Benzo(b)Fluoranthene	3.870	3.870	0.000	2569	0.10000	0.103(M)
15 Benzo(k)Fluoranthene	4.123	4.123	0.000	5861	0.10000	0.107(M)
16 Benzo(a)Pyrene	4.297	4.297	0.000	4811	0.10000	0.104(M)
17 Dibenzo(a,h)Anthracene	4.607	4.607	0.000	1920	0.10000	0.105(M)
18 Benzo(g,h,i)Perylene	4.763	4.763	0.000	1728	0.10000	0.110(M)

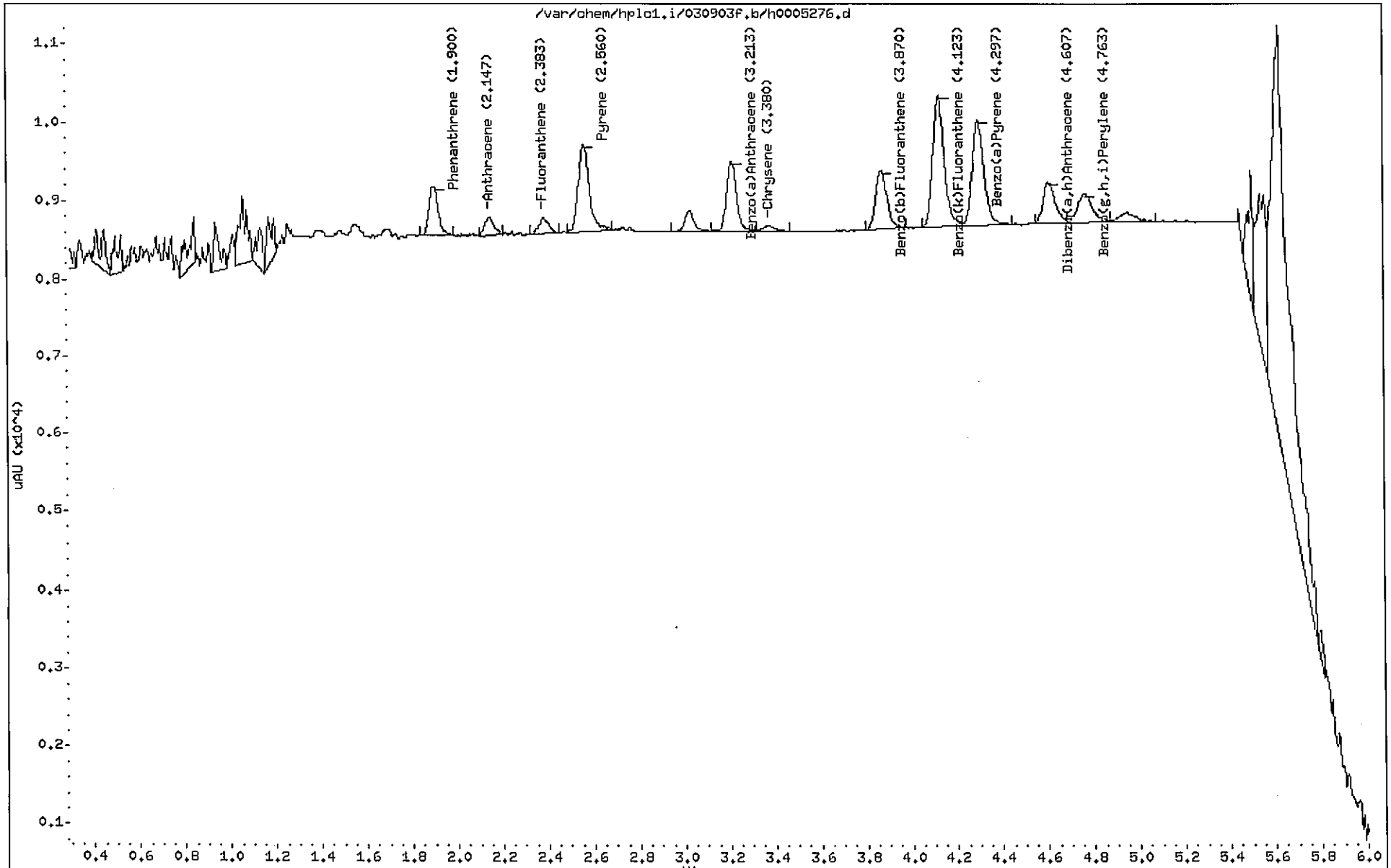
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903f.b/h0005276.d
Date : 03-SEP-2003 09:25
Client ID: 0903STD01
Sample Info: 0903STD01
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000419



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005275.d
Lab Smp Id: 0903STD02 Client Smp ID: 0903STD02
Inj Date : 03-SEP-2003 09:18
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD02
Misc Info : 3-46-9
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:18 Cal File: h0005275.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.063	1.063	0.000	2778	0.25000	0.230
7 Phenanthrene	1.897	1.900	-0.003	4000	0.25000	0.239
8 Anthracene	2.140	2.147	-0.007	1401	0.25000	0.240
9 Fluoranthene	2.383	2.383	0.000	1250	0.25000	0.220
10 Pyrene	2.553	2.560	-0.007	8600	0.25000	0.239
11 p-Terphenyl	3.017	3.017	0.000	2135	0.25000	0.217(M)
12 Benzo(a)Anthracene	3.200	3.213	-0.013	7226	0.25000	0.242(M)
13 Chrysene	3.363	3.380	-0.017	655	0.25000	0.162(M)
14 Benzo(b)Fluoranthene	3.857	3.870	-0.013	6141	0.25000	0.246
15 Benzo(k)Fluoranthene	4.107	4.123	-0.016	14224	0.25000	0.259(M)
16 Benzo(a)Pyrene	4.283	4.297	-0.014	11747	0.25000	0.255(M)
17 Dibenzo(a,h)Anthracene	4.590	4.607	-0.017	4717	0.25000	0.258(M)
18 Benzo(g,h,i)Perylene	4.750	4.763	-0.013	3998	0.25000	0.256(M)
19 Indeno(1,2,3-c,d)Pyrene	4.930	4.930	0.000	1306	0.25000	0.279(M)

QC Flag Legend

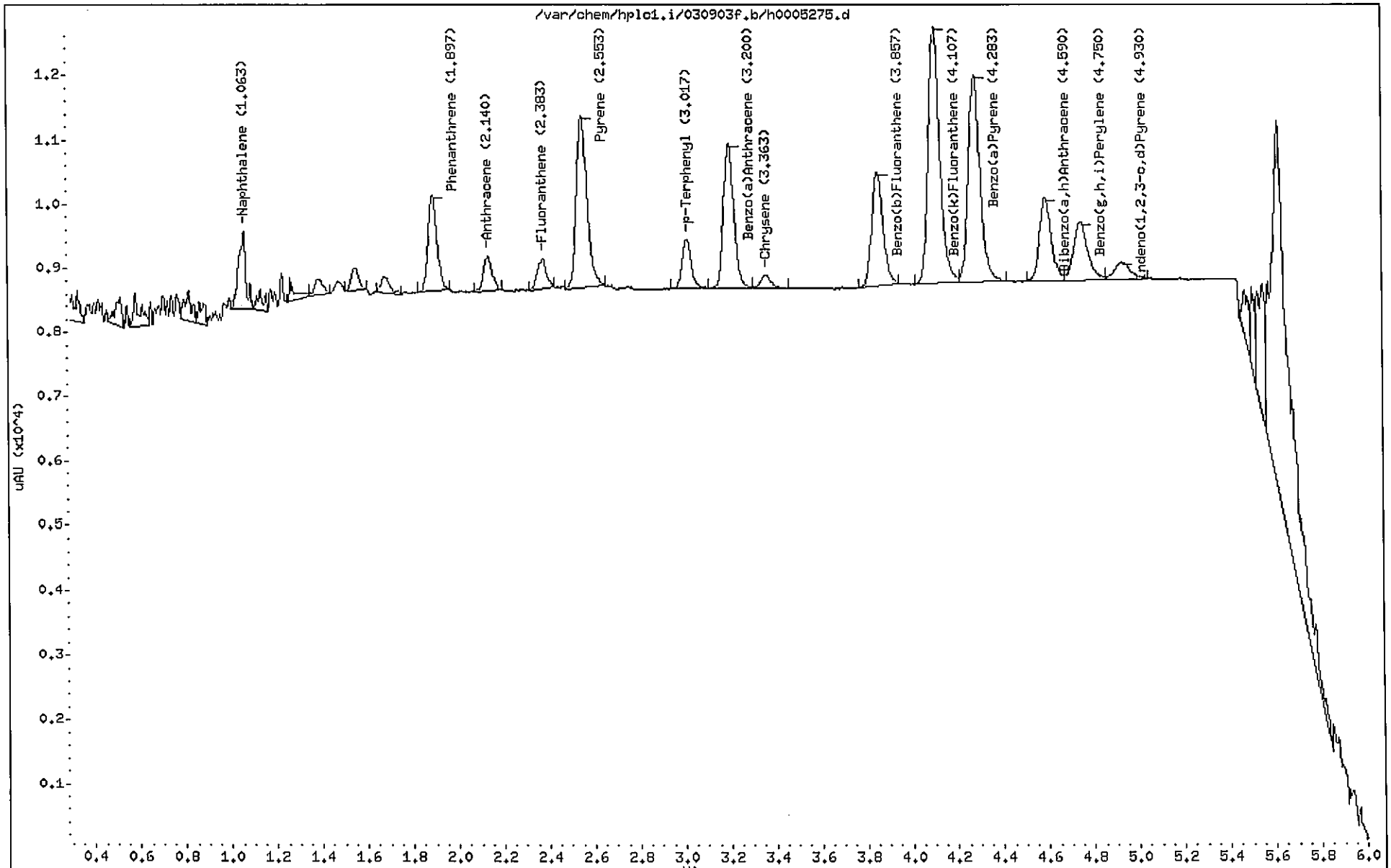
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903f.b/h0005275.d
Date : 03-SEP-2003 09:18
Client ID: 0903STD02
Sample Info: 0903STD02
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000422



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005274.d
Lab Smp Id: 0903STD03 Client Smp ID: 0903STD03
Inj Date : 03-SEP-2003 09:11
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD03
Misc Info : 3-46-8
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:11 Cal File: h0005274.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.057	1.063	-0.006	7280	0.50000	0.602
7 Phenanthrene	1.900	1.900	0.000	8374	0.50000	0.500
8 Anthracene	2.143	2.147	-0.004	2961	0.50000	0.507
9 Fluoranthene	2.380	2.383	-0.003	2813	0.50000	0.495
10 Pyrene	2.557	2.560	-0.003	16847	0.50000	0.468
11 p-Terphenyl	3.017	3.017	0.000	4666	0.50000	0.475(M)
12 Benzo(a)Anthracene	3.200	3.213	-0.013	14991	0.50000	0.502(M)
13 Chrysene	3.360	3.380	-0.020	1515	0.50000	0.375(M)
14 Benzo(b)Fluoranthene	3.853	3.870	-0.017	12102	0.50000	0.485
15 Benzo(k)Fluoranthene	4.103	4.123	-0.020	27927	0.50000	0.508
16 Benzo(a)Pyrene	4.277	4.297	-0.020	22885	0.50000	0.497
17 Dibenzo(a,h)Anthracene	4.587	4.607	-0.020	8940	0.50000	0.490
18 Benzo(g,h,i)Perylene	4.740	4.763	-0.023	7268	0.50000	0.465
19 Indeno(1,2,3-c,d)Pyrene	4.917	4.930	-0.013	1916	0.50000	0.409

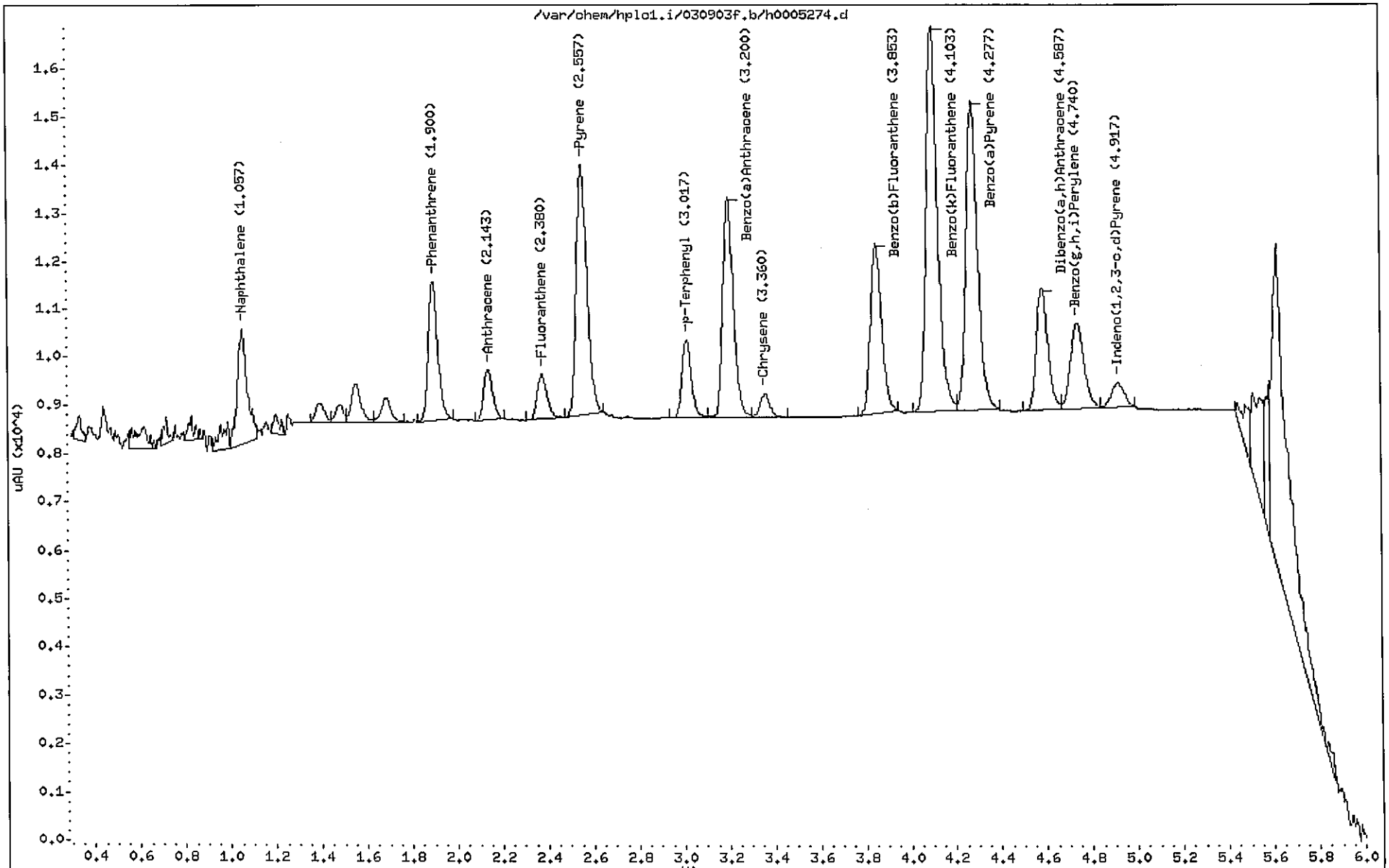
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903f.b/h0005274.d
Date : 03-SEP-2003 09:11
Client ID: 0903STD03
Sample Info: 0903STD03
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000425



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005273.d
Lab Smp Id: 0903STD04 Client Smp ID: 0903STD04
Inj Date : 03-SEP-2003 09:04
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD04
Misc Info : 3-46-7
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:04 Cal File: h0005273.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.057	1.063	-0.006	12774	1.00000	1.06
3 1-Methynaphthalene	1.400	1.383	0.017	2221	1.00000	1.09(M)
4 2-Methylnaphthalene	1.487	1.473	0.014	1798	1.00000	1.04(M)
5 Acenaphthene	1.557	1.543	0.014	4590	1.00000	1.02(M)
7 Phenanthrene	1.900	1.900	0.000	16729	1.00000	0.998
8 Anthracene	2.143	2.147	-0.004	5777	1.00000	0.990
9 Fluoranthene	2.383	2.383	0.000	5873	1.00000	1.03
10 Pyrene	2.557	2.560	-0.003	35678	1.00000	0.991
11 p-Terphenyl	3.020	3.017	0.003	9946	1.00000	1.01(M)
12 Benzo(a)Anthracene	3.207	3.213	-0.006	30636	1.00000	1.03(M)
13 Chrysene	3.367	3.380	-0.013	3478	1.00000	0.860(M)
14 Benzo(b)Fluoranthene	3.857	3.870	-0.013	24960	1.00000	1.000
15 Benzo(k)Fluoranthene	4.107	4.123	-0.016	56474	1.00000	1.03
16 Benzo(a)Pyrene	4.283	4.297	-0.014	46057	1.00000	1.000

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.590	4.607	-0.017	17953	1.00000	0.984
18 Benzo(g,h,i)Perylene	4.747	4.763	-0.016	14738	1.00000	0.942
19 Indeno(1,2,3-c,d)Pyrene	4.927	4.930	-0.003	4359	1.00000	0.930

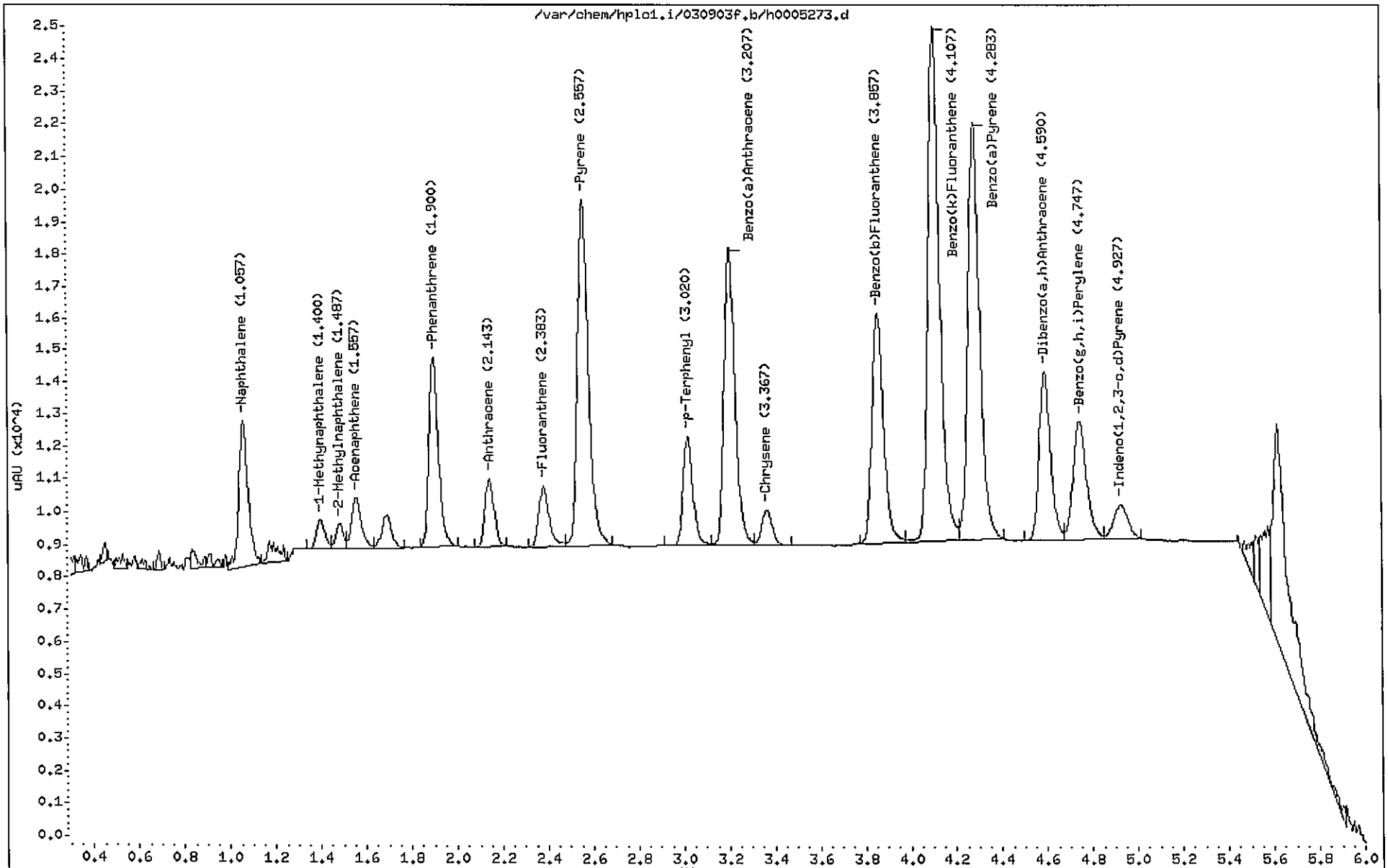
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903f.b/h0005273.d
Date : 03-SEP-2003 09:04
Client ID: 0903STD04
Sample Info: 0903STD04
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000428



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005272.d
Lab Smp Id: 0903STD05 Client Smp ID: 0903STD05
Inj Date : 03-SEP-2003 08:57
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:57 Cal File: h0005272.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.050	1.063	-0.013	30580	2.50000	2.53
3 1-Methynaphthalene	1.390	1.383	0.007	4920	2.50000	2.42
4 2-Methylnaphthalene	1.477	1.473	0.004	4212	2.50000	2.45
5 Acenaphthene	1.550	1.543	0.007	11164	2.50000	2.48
7 Phenanthrene	1.897	1.900	-0.003	42741	2.50000	2.55
8 Anthracene	2.143	2.147	-0.004	14650	2.50000	2.51
9 Fluoranthene	2.383	2.383	0.000	15021	2.50000	2.64
10 Pyrene	2.560	2.560	0.000	92657	2.50000	2.57
11 p-Terphenyl	3.027	3.017	0.010	25872	2.50000	2.63
12 Benzo(a)Anthracene	3.210	3.213	-0.003	77925	2.50000	2.61
13 Chrysene	3.373	3.380	-0.007	9516	2.50000	2.35
14 Benzo(b)Fluoranthene	3.867	3.870	-0.003	63774	2.50000	2.55
15 Benzo(k)Fluoranthene	4.117	4.123	-0.006	142530	2.50000	2.59
16 Benzo(a)Pyrene	4.290	4.297	-0.007	118351	2.50000	2.57

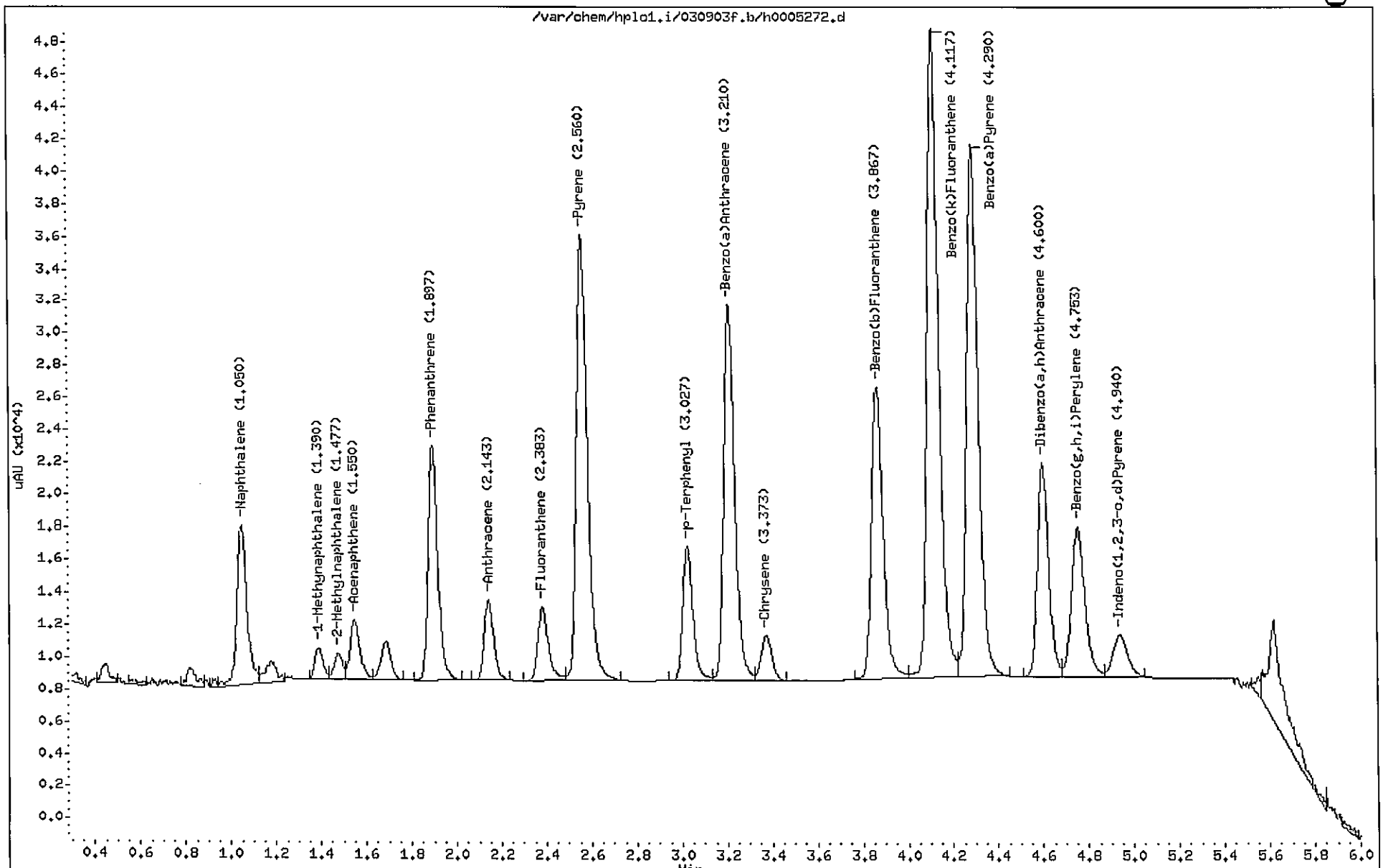
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.600	4.607	-0.007	45317	2.50000	2.48
18 Benzo(g,h,i)Perylene	4.753	4.763	-0.010	37946	2.50000	2.43
19 Indeno(1,2,3-c,d)Pyrene	4.940	4.930	0.010	11501	2.50000	2.45

Data File: /var/chem/hplc1.i/030903f.b/h0005272.d
Date : 03-SEP-2003 08:57
Client ID: 0903STD05
Sample Info: 0903STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000431



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005271.d
Lab Smp Id: 0903STD06 Client Smp ID: 0903STD06
Inj Date : 03-SEP-2003 08:50
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD06
Misc Info : 3-46-5
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:50 Cal File: h0005271.d
Vials bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.043	1.063	-0.020	55878	5.00000	4.62
3 1-Methynaphthalene	1.383	1.383	0.000	8418	5.00000	4.14
4 2-Methylnaphthalene	1.470	1.473	-0.003	7302	5.00000	4.24
5 Acenaphthene	1.540	1.543	-0.003	20913	5.00000	4.65
7 Phenanthrene	1.880	1.900	-0.020	84639	5.00000	5.05
8 Anthracene	2.120	2.147	-0.027	28368	5.00000	4.86(M)
9 Fluoranthene	2.360	2.383	-0.023	28884	5.00000	5.08
10 Pyrene	2.533	2.560	-0.027	186799	5.00000	5.19
11 p-Terphenyl	2.993	3.017	-0.024	51369	5.00000	5.23
12 Benzo(a)Anthracene	3.177	3.213	-0.036	153601	5.00000	5.14
13 Chrysene	3.337	3.380	-0.043	19877	5.00000	4.92
14 Benzo(b)Fluoranthene	3.827	3.870	-0.043	124817	5.00000	5.00
15 Benzo(k)Fluoranthene	4.073	4.123	-0.050	279156	5.00000	5.08
16 Benzo(a)Pyrene	4.250	4.297	-0.047	234829	5.00000	5.10

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.563	4.607	-0.044	90284	5.00000	4.95
18 Benzo(g,h,i)Perylene	4.713	4.763	-0.050	77414	5.00000	4.95
19 Indeno(1,2,3-c,d)Pyrene	4.893	4.930	-0.037	23651	5.00000	5.05

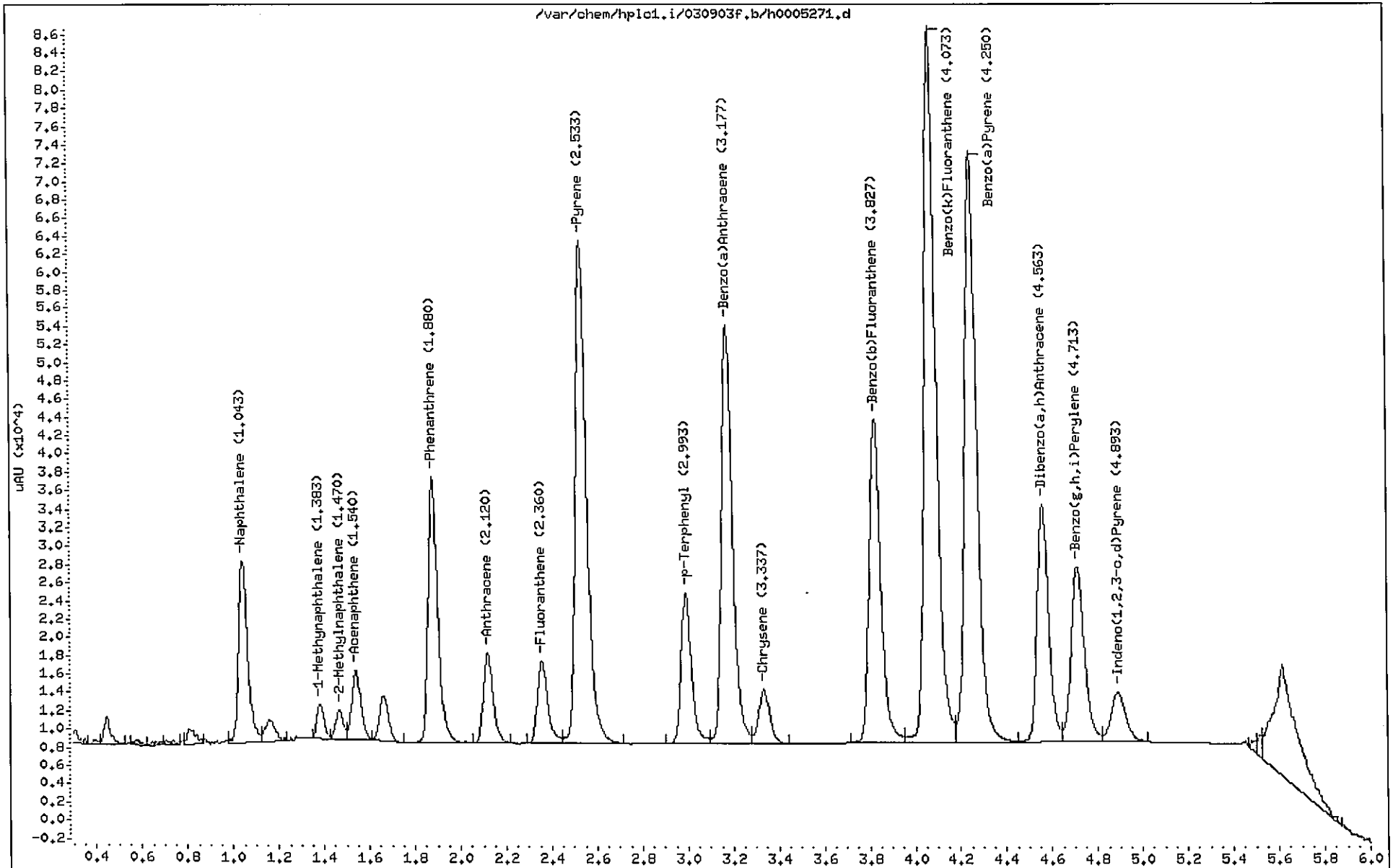
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903f.b/h0005271.d
Date : 03-SEP-2003 08:50
Client ID: 0903STD06
Sample Info: 0903STD06
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000434



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005270.d
Lab Smp Id: 0903STD07 Client Smp ID: 0903STD07
Inj Date : 03-SEP-2003 08:44
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD07
Misc Info : 3-46-4
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:44 Cal File: h0005270.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.053	1.063	-0.010	112361	10.0000	9.29
3 1-Methynaphthalene	1.397	1.383	0.014	21465	10.0000	10.6
4 2-Methylnaphthalene	1.483	1.473	0.010	18393	10.0000	10.7
5 Acenaphthene	1.557	1.543	0.014	46040	10.0000	10.2
7 Phenanthrene	1.903	1.900	0.003	171556	10.0000	10.2
8 Anthracene	2.153	2.147	0.006	57225	10.0000	9.81
9 Fluoranthene	2.390	2.383	0.007	57957	10.0000	10.2
10 Pyrene	2.580	2.560	0.020	359698	10.0000	9.99
11 p-Terphenyl	3.030	3.017	0.013	102236	10.0000	10.4
12 Benzo(a)Anthracene	3.217	3.213	0.004	303038	10.0000	10.1
13 Chrysene	3.380	3.380	0.000	40348	10.0000	9.98
14 Benzo(b)Fluoranthene	3.863	3.870	-0.007	248547	10.0000	9.96
15 Benzo(k)Fluoranthene	4.133	4.123	0.010	438877	10.0000	7.99
16 Benzo(a)Pyrene	4.303	4.297	0.006	413111	10.0000	8.97

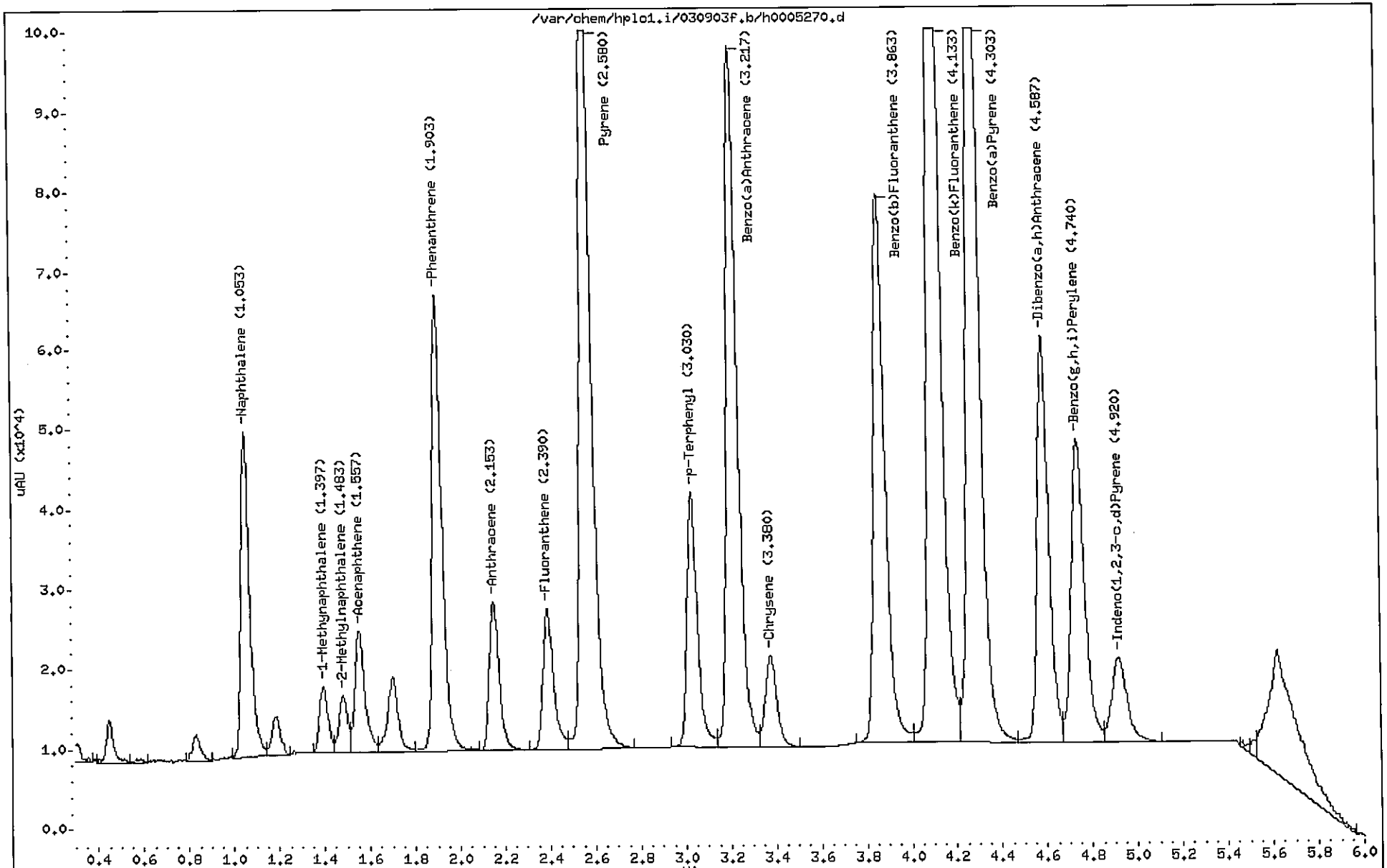
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.587	4.607	-0.020	181070	10.0000	9.92
18 Benzo(g,h,i)Perylene	4.740	4.763	-0.023	157881	10.0000	10.1
19 Indeno(1,2,3-c,d)Pyrene	4.920	4.930	-0.010	50283	10.0000	10.7

000437

Data File: /var/chem/hplc1.i/030903f.b/h0005270.d
Date : 03-SEP-2003 08:44
Client ID: 0903STD07
Sample Info: 0903STD07
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005269.d
Lab Smp Id: 0903STD08 Client Smp ID: 0903STD08
Inj Date : 03-SEP-2003 08:36
Operator : jdt Inst ID: hplc1.i
Smp Info : 0903STD08
Misc Info : 3-46-3
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 09-Sep-2003 14:58 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 08:36 Cal File: h0005269.d
Vials bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

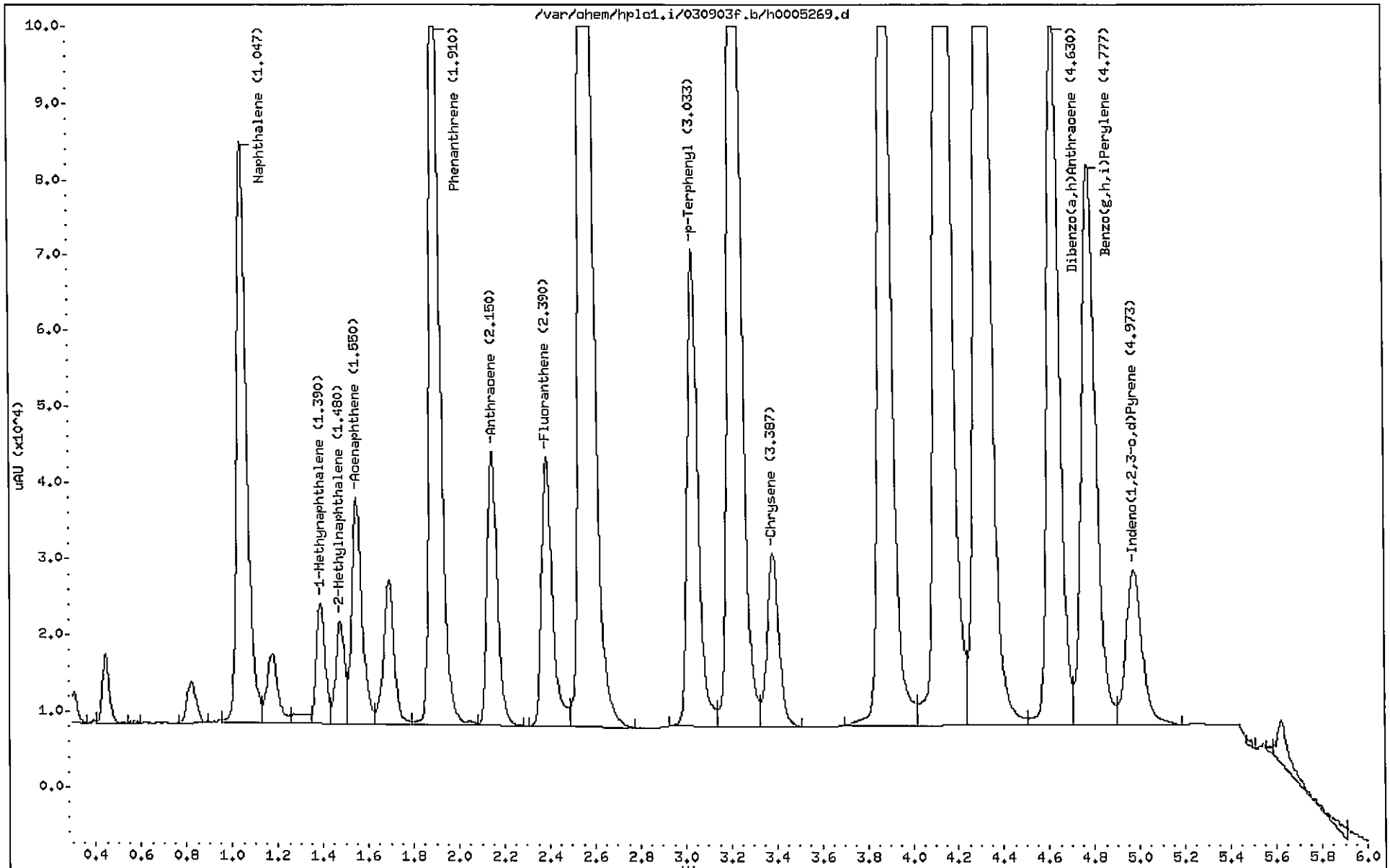
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.047	1.063	-0.016	231688	20.0000	19.2
3 1-Methynaphthalene	1.390	1.383	0.007	42780	20.0000	21.1
4 2-Methylnaphthalene	1.480	1.473	0.007	36436	20.0000	21.2
5 Acenaphthene	1.550	1.543	0.007	93033	20.0000	20.7
7 Phenanthrene	1.910	1.900	0.010	324608	20.0000	19.4
8 Anthracene	2.150	2.147	0.003	111115	20.0000	19.0
9 Fluoranthene	2.390	2.383	0.007	118097	20.0000	20.8
11 p-Terphenyl	3.033	3.017	0.016	202934	20.0000	20.6
13 Chrysene	3.387	3.380	0.007	81084	20.0000	20.1
17 Dibenzo(a,h)Anthracene	4.630	4.607	0.023	356349	20.0000	19.5
18 Benzo(g,h,i)Perylene	4.777	4.763	0.014	322221	20.0000	20.6
19 Indeno(1,2,3-c,d)Pyrene	4.973	4.930	0.043	100423	20.0000	21.4

Data File: /var/chem/hplc1.i/030903f.b/h0005269.d
Date : 03-SEP-2003 08:36
Client ID: 0903STD08
Sample Info: 0903STD08
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000439



Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 0903PNAICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/030903f.b/flpnafld.m
Misc Info: 3-47-8

Client SDG:
Fraction: OTHER
Client Smp ID: 0903PNAICV
Operator: jdt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	5.00	4.90	98.02	80-120
3 1-Methynaphthalene	10.0	10.3	103.29	80-120
4 2-Methylnaphthalen	10.0	9.51	95.06	80-120
5 Acenaphthene	10.0	10.1	100.84	80-120
7 Phenanthrene	0.400	0.435	108.66	80-120
8 Anthracene	0.200	0.199	99.73	80-120
9 Fluoranthene	0.500	0.454	90.71	80-120
10 Pyrene	1.00	1.07	106.77	80-120
12 Benzo(a)Anthracene	0.500	0.548	109.59	80-120
13 Chrysene	0.500	0.425	85.07	80-120
14 Benzo(b)Fluoranthe	0.200	0.195	97.62	80-120
15 Benzo(k)Fluoranthe	0.200	0.214	106.94	80-120
16 Benzo(a)Pyrene	0.500	0.544	108.76	80-120
17 Dibenzo(a,h)Anthra	2.00	2.17	108.68	80-120
18 Benzo(g,h,i)Peryle	0.800	0.897	112.14	80-120
19 Indeno(1,2,3-c,d)P	0.500	0.412	82.37	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	4.00	4.37	109.31	40-140

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030903f.b/h0005277.d
Lab Smp Id: 0903PNAICV
Client Smp ID: 0903PNAICV
Inj Date : 03-SEP-2003 10:08
Operator : jdt
Inst ID: hplc1.i
Smp Info : 0903PNAICV
Misc Info : 3-47-8
Comment :
Method : /var/chem/hplc1.i/030903f.b/flpnafld.m
Meth Date : 04-Sep-2003 16:55 jdt
Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25
Cal File: h0005276.d
Als bottle: 1
QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.043	1.063	-0.020	59283	4.90092	4.90
3 1-Methynaphthalene	1.380	1.383	-0.003	20984	10.3287	10.3(M)
4 2-Methylnaphthalene	1.467	1.473	-0.006	16357	9.50560	9.51(M)
5 Acenaphthene	1.540	1.543	-0.003	45364	10.0838	10.1(M)
7 Phenanthrene	1.880	1.900	-0.020	7285	0.43464	0.435
8 Anthracene	2.127	2.147	-0.020	1164	0.19947	0.199
9 Fluoranthene	2.360	2.383	-0.023	2577	0.45355	0.454
10 Pyrene	2.533	2.560	-0.027	38447	1.06774	1.07
11 p-Terphenyl	2.990	3.017	-0.027	42982	4.37254	4.37(M)
12 Benzo(a)Anthracene	3.173	3.213	-0.040	16371	0.54797	0.548(M)
13 Chrysene	3.330	3.380	-0.050	1719	0.42533	0.425(M)
14 Benzo(b)Fluoranthene	3.820	3.870	-0.050	4874	0.19524	0.195
15 Benzo(k)Fluoranthene	4.067	4.123	-0.056	11750	0.21388	0.214
16 Benzo(a)Pyrene	4.243	4.297	-0.054	25057	0.54380	0.544

ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.550	4.607	-0.057	39669	2.17353	2.17(M)
18 Benzo(g,h,i)Perylene	4.703	4.763	-0.060	14029	0.89714	0.897(M)
19 Indeno(1,2,3-c,d)Pyrene	4.877	4.930	-0.053	1929	0.41187	0.412(M)

QC Flag Legend

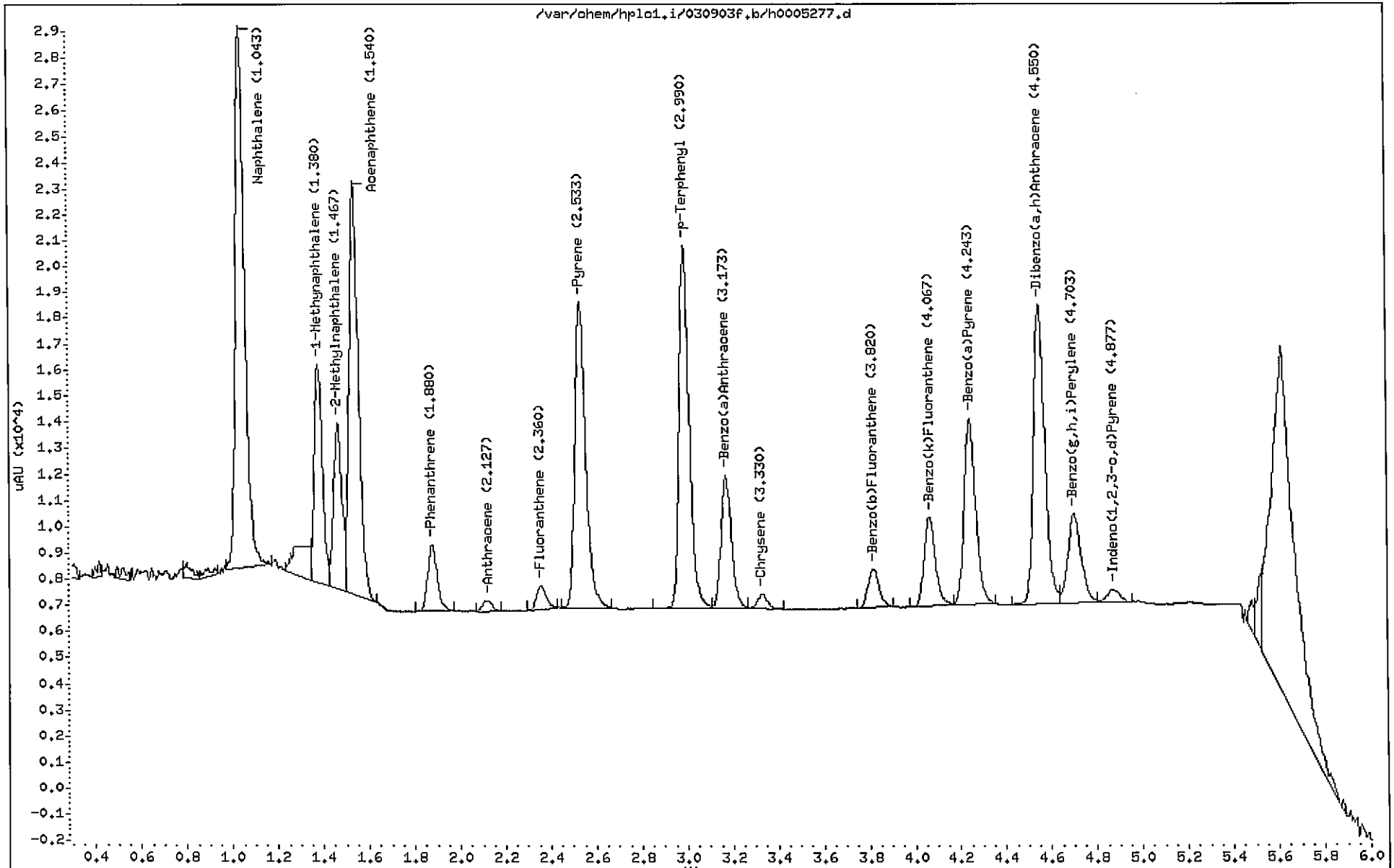
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030903f.b/h0005277.d
Date : 03-SEP-2003 10:08
Client ID: 0903PNAICV
Sample Info: 0903PNAICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000443



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005341.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 10:06
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 Naphthalene	1.037	1.037	0.000	30535	2.50000	2.52(M)
3 1-Methynaphthalene	1.377	1.370	0.007	4568	2.50000	2.25(M)
4 2-Methylnaphthalene	1.463	1.463	0.000	3887	2.50000	2.26(M)
5 Acenaphthene	1.537	1.533	0.004	10753	2.50000	2.39(M)
7 Phenanthrene	1.883	1.867	0.016	43446	2.50000	2.59
8 Anthracene	2.130	2.107	0.023	14811	2.50000	2.54
9 Fluoranthene	2.367	2.340	0.027	14511	2.50000	2.55
10 Pyrene	2.543	2.517	0.026	101163	2.50000	2.81
11 p-Terphenyl	3.010	2.973	0.037	24980	2.50000	2.54
12 Benzo(a)Anthracene	3.197	3.153	0.044	79386	2.50000	2.66
13 Chrysene	3.360	3.313	0.047	9714	2.50000	2.40
14 Benzo(b)Fluoranthene	3.857	3.800	0.057	62792	2.50000	2.52
15 Benzo(k)Fluoranthene	4.107	4.047	0.060	140199	2.50000	2.55

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.283	4.223	0.060	123986	2.50000	2.69
17 Dibenzo(a,h)Anthracene	4.593	4.533	0.060	46384	2.50000	2.54
18 Benzo(g,h,i)Perylene	4.747	4.683	0.064	41471	2.50000	2.65
19 Indeno(1,2,3-c,d)Pyrene	4.933	4.853	0.080	11512	2.50000	2.46

QC Flag Legend

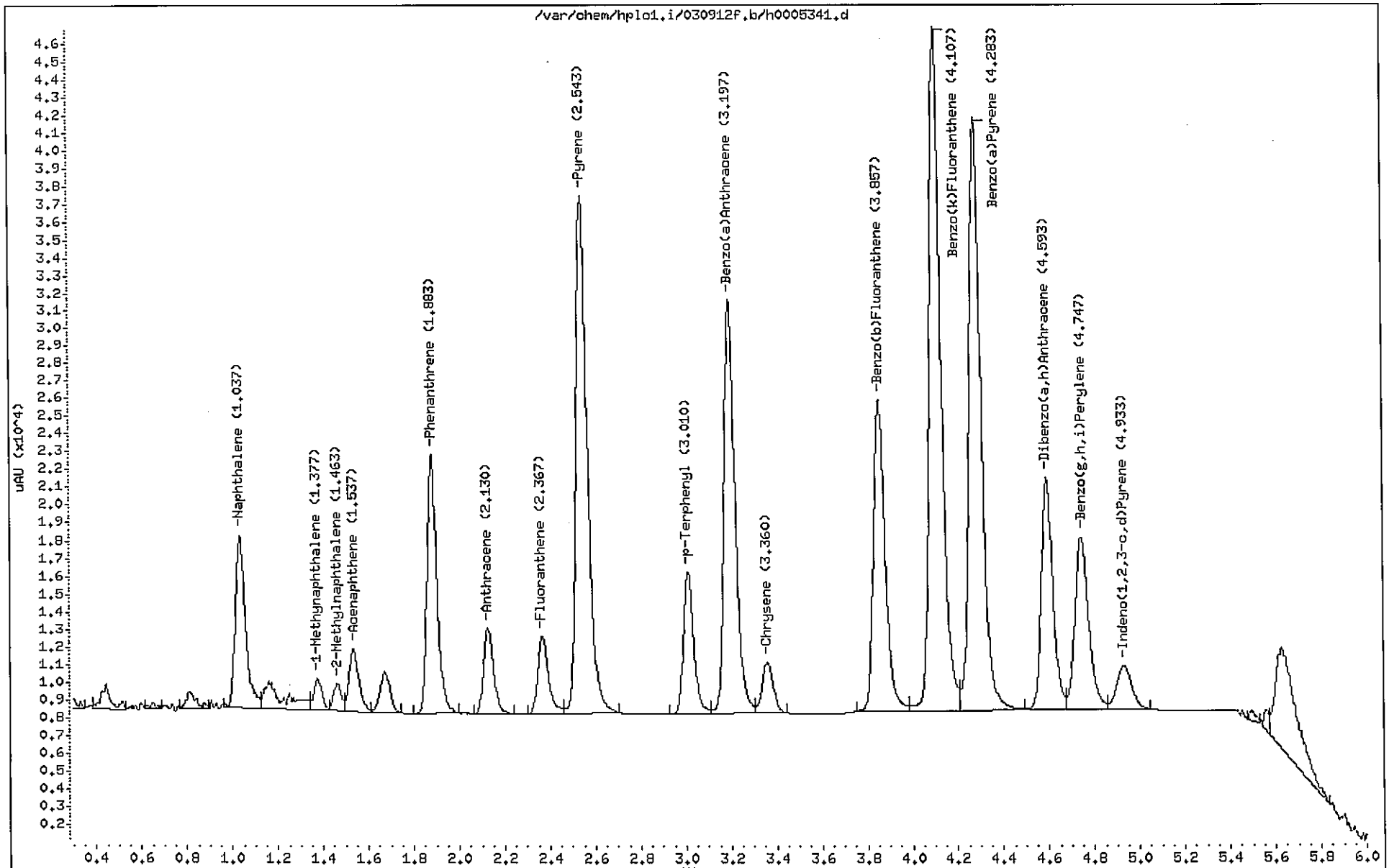
M - Compound response manually integrated.

000446

Data File: /var/chem/hplc1.i/030912f.b/h0005341.d
Date : 12-SEP-2003 10:06
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



ata File: /var/chem/hplc1.i/030912f.b/h0005347.d
eport Date: 15-Sep-2003 11:41

Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/hplc1.i/030912f.b/h0005347.d
ab Smp Id: 0912STD05 Client Smp ID: 0912STD05
nj Date : 12-SEP-2003 11:06
perator : jdt Inst ID: hplc1.i
mp Info : 0912STD05
isc Info : 3-46-6
omment :
ethod : /var/chem/hplc1.i/030912f.b/flpnafld.m
eth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
al Date : 03-SEP-2003 09:25 Cal File: h0005276.d
ls bottle: 1 Continuing Calibration Sample
il Factor: 1.00000
ntegrator: Falcon Compound Sublist: all.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

pnd Variable Local Compound Variable

ompounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 Naphthalene	1.040	1.037	0.003	29691	2.50000	2.45(M)
3 1-Methynaphthalene	1.380	1.370	0.010	5187	2.50000	2.55(M)
4 2-Methylnaphthalene	1.463	1.463	0.000	4464	2.50000	2.59(M)
5 Acenaphthene	1.537	1.533	0.004	11629	2.50000	2.58(M)
7 Phenanthrene	1.883	1.867	0.016	42866	2.50000	2.56
8 Anthracene	2.127	2.107	0.020	14798	2.50000	2.54
9 Fluoranthene	2.367	2.340	0.027	14456	2.50000	2.54
10 Pyrene	2.540	2.517	0.023	95528	2.50000	2.65
11 p-Terphenyl	3.007	2.973	0.034	25333	2.50000	2.58
12 Benzo(a)Anthracene	3.190	3.153	0.037	78351	2.50000	2.62
13 Chrysene	3.353	3.313	0.040	9599	2.50000	2.37
14 Benzo(b)Fluoranthene	3.843	3.800	0.043	62824	2.50000	2.52
15 Benzo(k)Fluoranthene	4.093	4.047	0.046	141103	2.50000	2.57

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.270	4.223	0.047	120585	2.50000	2.62
17 Dibenzo(a,h)Anthracene	4.580	4.533	0.047	45203	2.50000	2.48
18 Benzo(g,h,i)Perylene	4.733	4.683	0.050	39210	2.50000	2.51
19 Indeno(1,2,3-c,d)Pyrene	4.913	4.853	0.060	11371	2.50000	2.43

QC Flag Legend

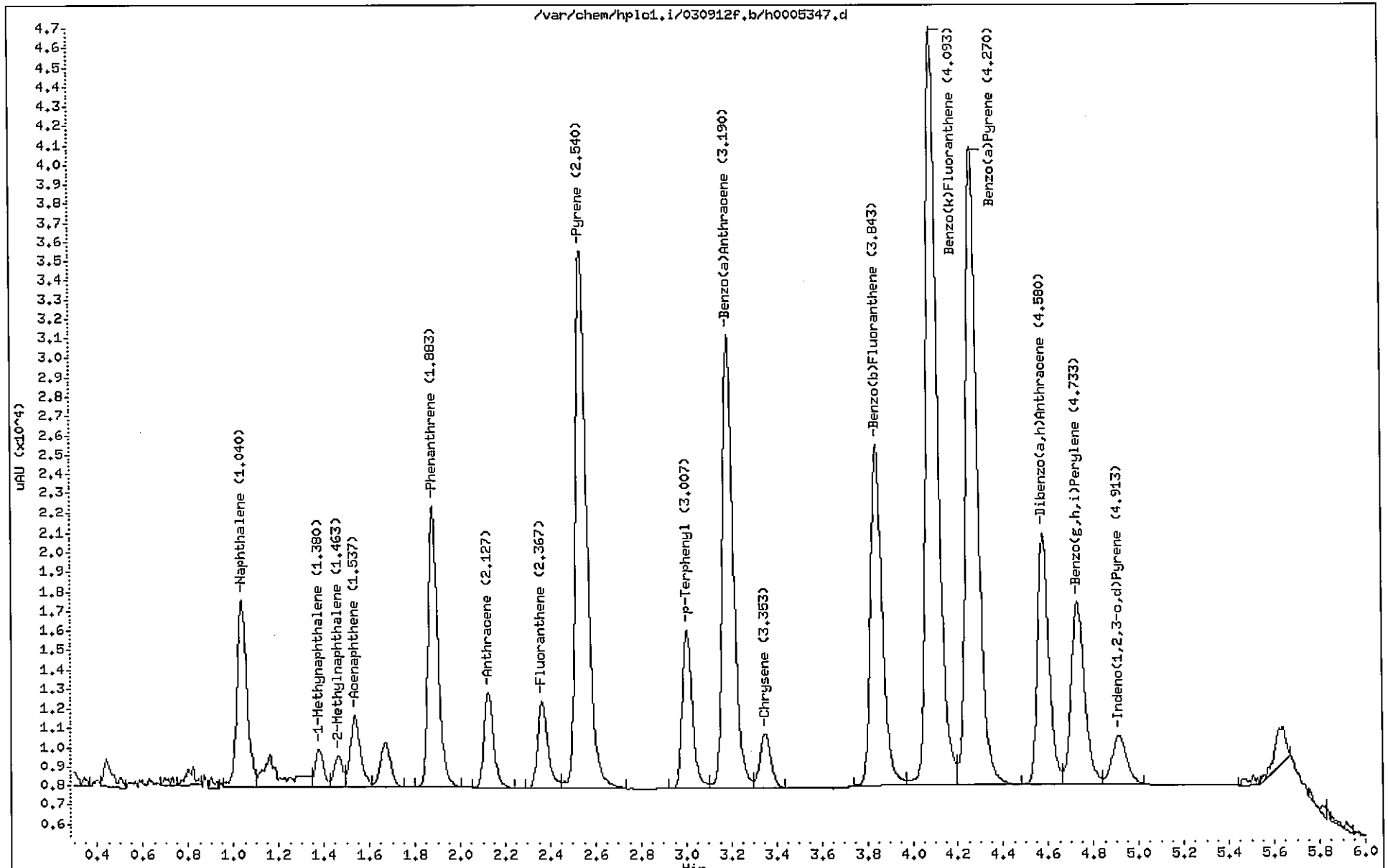
X - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005347.d
Date : 12-SEP-2003 11:06
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000449



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005358.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 15:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.037	1.037	0.000	31267	2.50000	2.58(M)
3 1-Methynaphthalene	1.377	1.370	0.007	4674	2.50000	2.30(M)
4 2-Methylnaphthalene	1.463	1.463	0.000	4141	2.50000	2.41(M)
5 Acenaphthene	1.533	1.533	0.000	10873	2.50000	2.42(M)
7 Phenanthrene	1.877	1.867	0.010	41324	2.50000	2.47
8 Anthracene	2.120	2.107	0.013	14471	2.50000	2.48
9 Fluoranthene	2.357	2.340	0.017	14215	2.50000	2.50
10 Pyrene	2.533	2.517	0.016	88166	2.50000	2.45
11 p-Terphenyl	2.990	2.973	0.017	24731	2.50000	2.52
12 Benzo(a)Anthracene	3.177	3.153	0.024	75841	2.50000	2.54
13 Chrysene	3.340	3.313	0.027	9297	2.50000	2.30
14 Benzo(b)Fluoranthene	3.833	3.800	0.033	61935	2.50000	2.48
15 Benzo(k)Fluoranthene	4.083	4.047	0.036	139080	2.50000	2.53

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.260	4.223	0.037	117655	2.50000	2.55
17 Dibenzo(a,h)Anthracene	4.570	4.533	0.037	44468	2.50000	2.44
18 Benzo(g,h,i)Perylene	4.720	4.683	0.037	38043	2.50000	2.43
19 Indeno(1,2,3-c,d)Pyrene	4.900	4.853	0.047	11617	2.50000	2.48

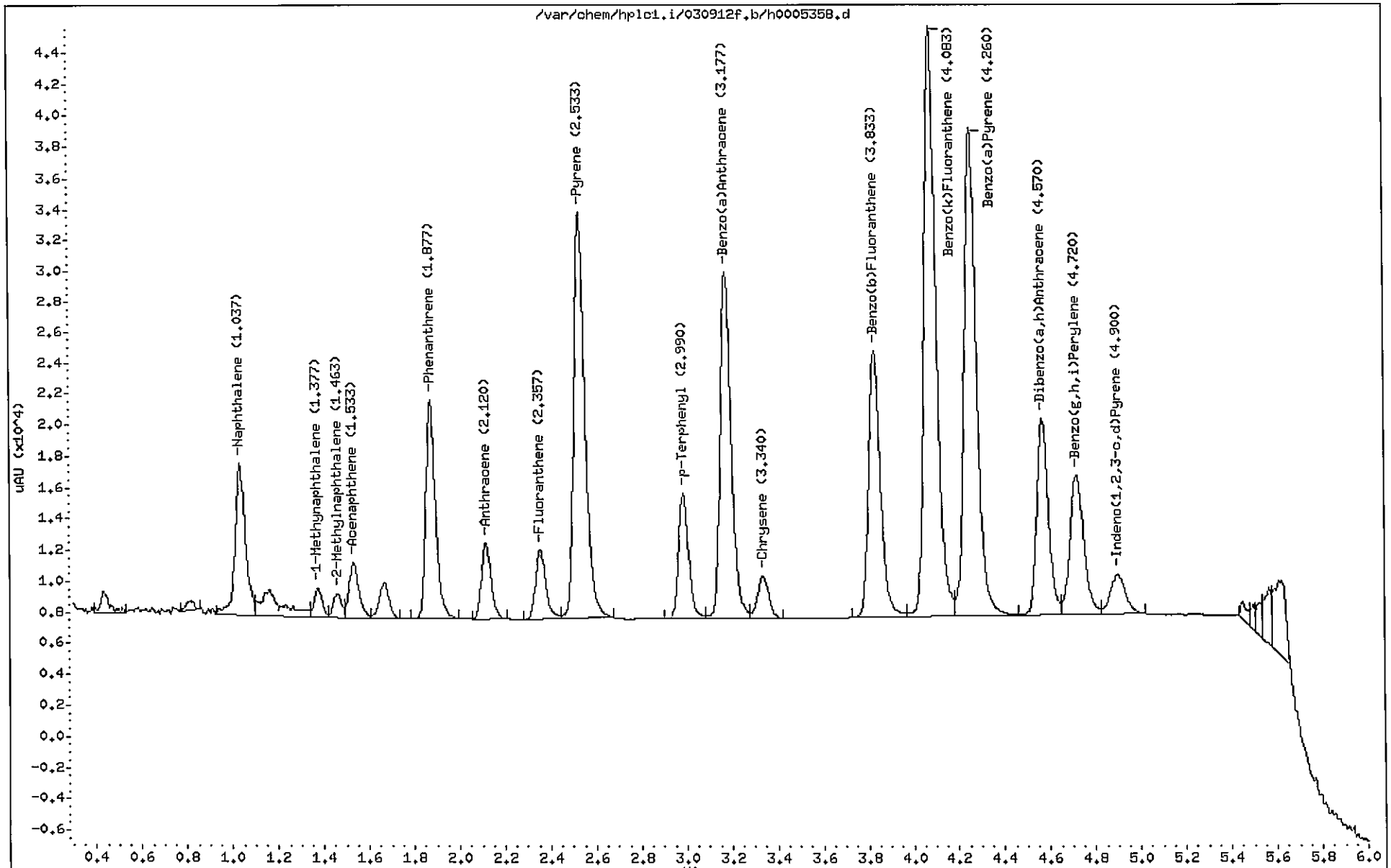
QC Flag Legend

M - Compound response manually integrated.

000452

Data File: /var/chem/hplc1.i/030912f.b/h0005358.d
Date : 12-SEP-2003 15:32
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 20iTP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005362.d
Lab Smp Id: 0912STD05 Client Smp ID: 0912STD05
Inj Date : 12-SEP-2003 16:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 0912STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

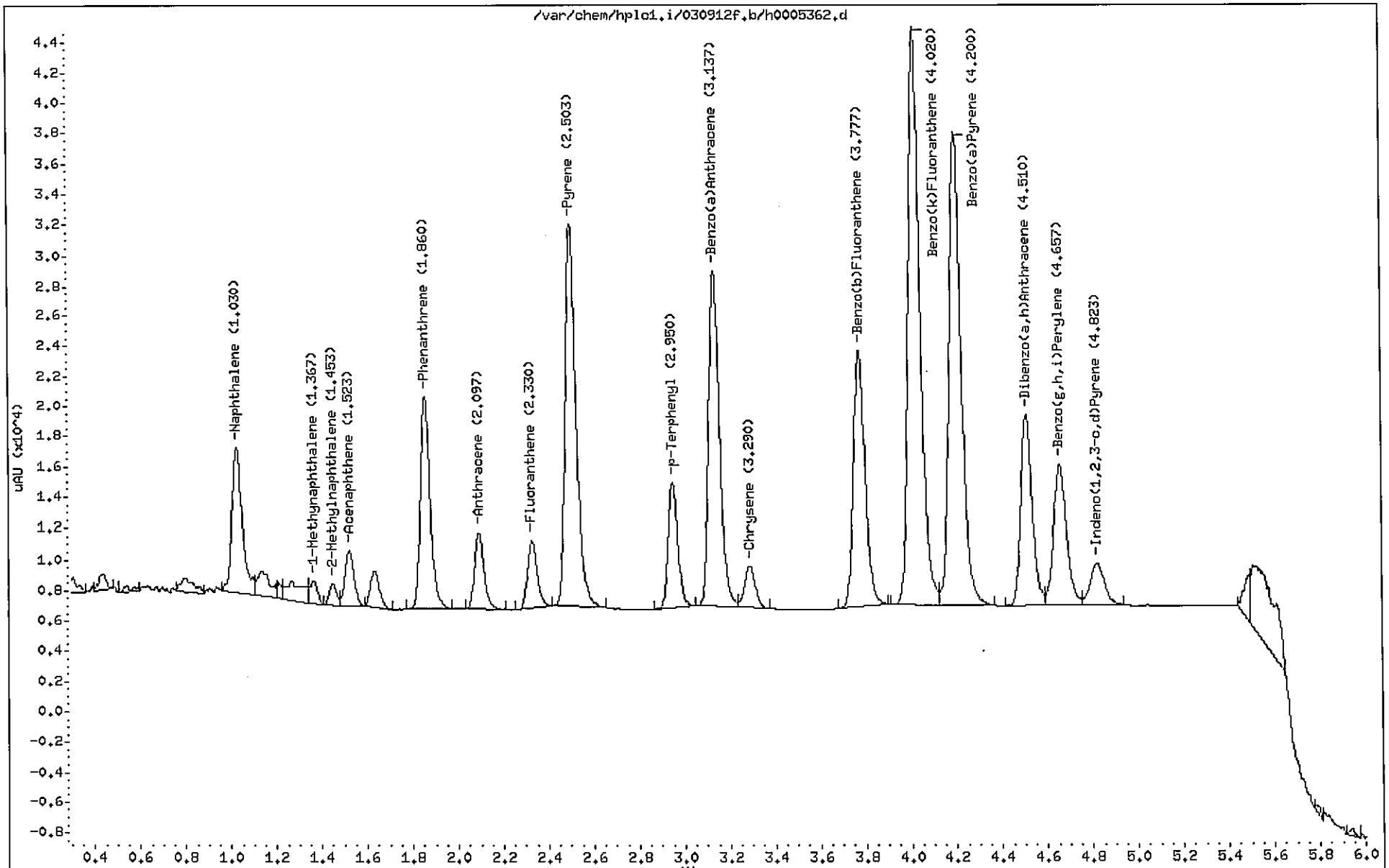
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.030	1.037	-0.007	30150	2.50000	2.49
3 1-Methynaphthalene	1.367	1.370	-0.003	3391	2.50000	1.67
4 2-Methylnaphthalene	1.453	1.463	-0.010	3187	2.50000	1.85
5 Acenaphthene	1.523	1.533	-0.010	9837	2.50000	2.19
7 Phenanthrene	1.860	1.867	-0.007	40623	2.50000	2.42
8 Anthracene	2.097	2.107	-0.010	14390	2.50000	2.47
9 Fluoranthene	2.330	2.340	-0.010	12885	2.50000	2.27
10 Pyrene	2.503	2.517	-0.014	82585	2.50000	2.29
11 p-Terphenyl	2.950	2.973	-0.023	24022	2.50000	2.44
12 Benzo(a)Anthracene	3.137	3.153	-0.016	73204	2.50000	2.45
13 Chrysene	3.290	3.313	-0.023	8937	2.50000	2.21
14 Benzo(b)Fluoranthene	3.777	3.800	-0.023	59002	2.50000	2.36
15 Benzo(k)Fluoranthene	4.020	4.047	-0.027	135809	2.50000	2.47

ompounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.200	4.223	-0.023	114426	2.50000	2.48
17 Dibenzo(a,h)Anthracene	4.510	4.533	-0.023	43619	2.50000	2.39
18 Benzo(g,h,i)Perylene	4.657	4.683	-0.026	36625	2.50000	2.34
19 Indeno(1,2,3-c,d)Pyrene	4.823	4.853	-0.030	11746	2.50000	2.51

000455

Data File: /var/chem/hplc1.i/030912f.b/h0005362.d
Date : 12-SEP-2003 16:25
Client ID: 0912STD05
Sample Info: 0912STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005348.d
Lab Smp Id: 118321 Client Smp ID: 118321
Inj Date : 12-SEP-2003 12:38
Operator : jdt Inst ID: hplc1.i
Smp Info : 118321-DL1
Misc Info : 0911SBLK01
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

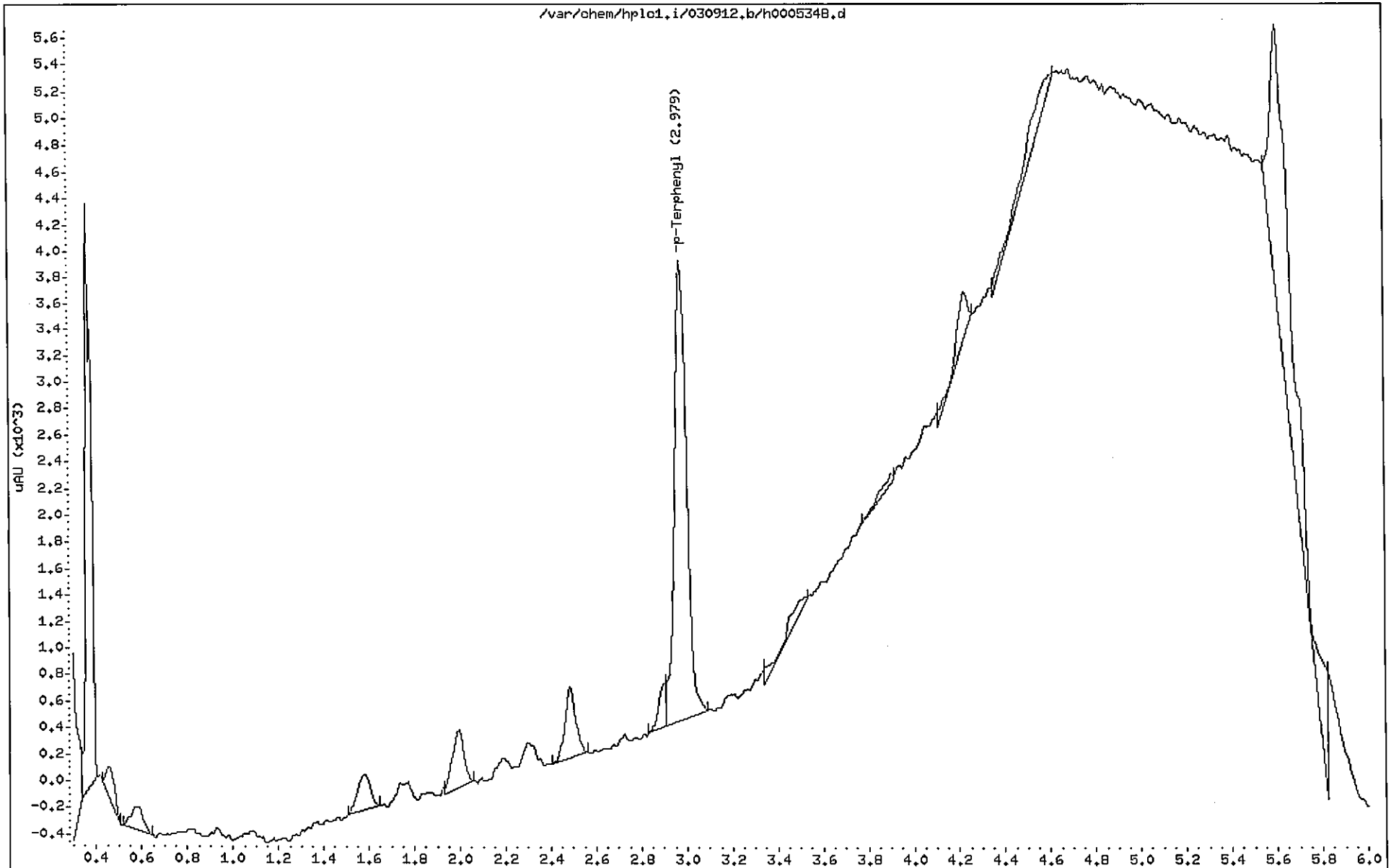
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	2.979	2.961	0.018	12672	1.77767	59.3

Data File: /var/chem/hplc1.i/030912.b/h0005348.d
Date : 12-SEP-2003 12:38
Client ID: 118321
Sample Info: 118321-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000457



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005348.d
Lab Smp Id: 118321 Client Smp ID: 118321
Inj Date : 12-SEP-2003 12:38
Operator : jdt Inst ID: hplc1.i
Smp Info : 118321-DL1
Misc Info : 0911SBLK01
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	2.993	2.973	0.020	18649	1.89713	63.2

Data File: /var/chem/hplc1.i/030912f.b/h0005348.d

Date : 12-SEP-2003 12:38

Client ID: 118321

Sample Info: 118321-DL1

Volume Injected (uL): 10.0

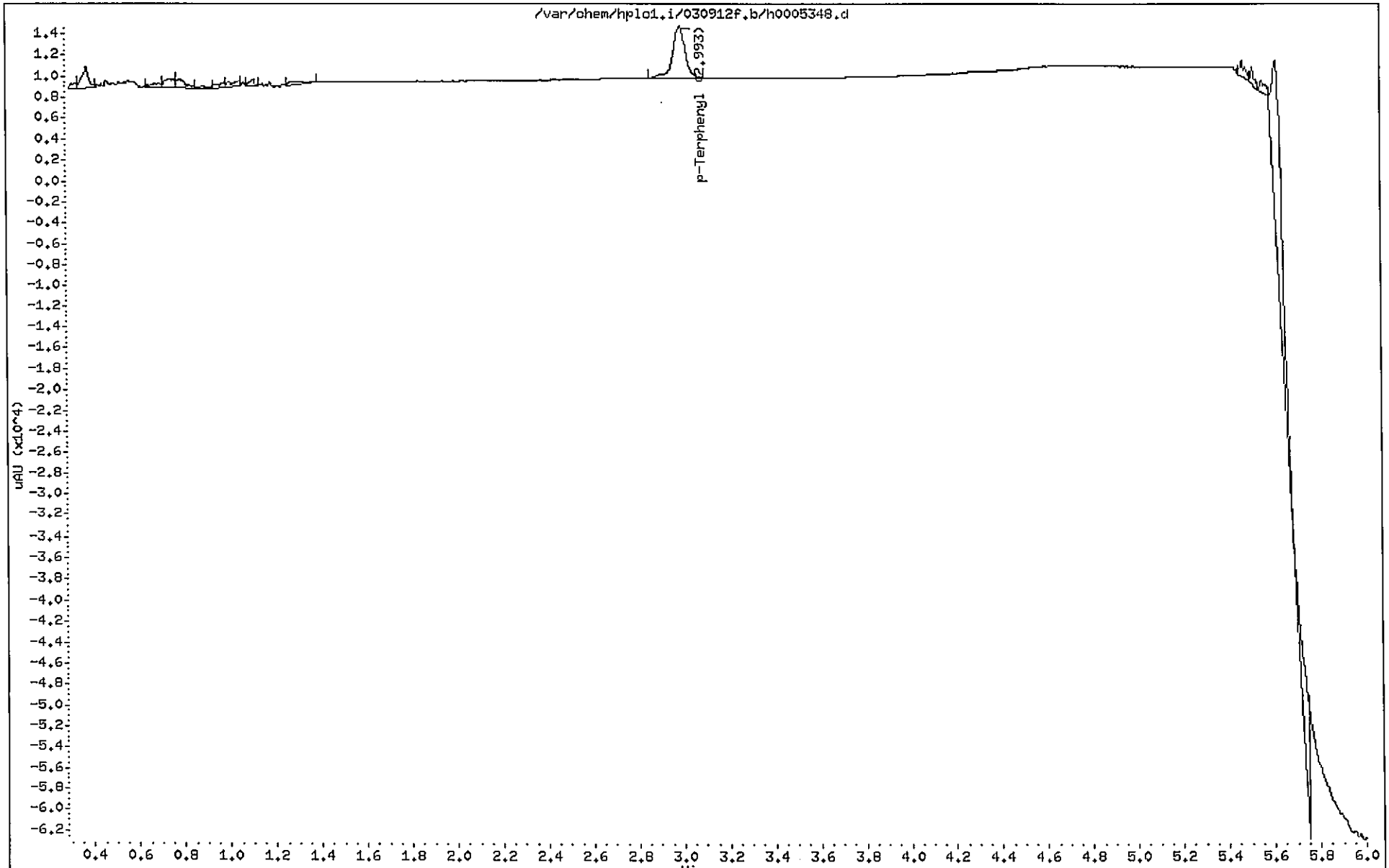
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000459



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005342.d
Lab Smp Id: 118431 Client Smp ID: 118431
Inj Date : 12-SEP-2003 10:16
Operator : jdt Inst ID: hplc1.i
Smp Info : 118431-DL1
Misc Info : 0911BLK01
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

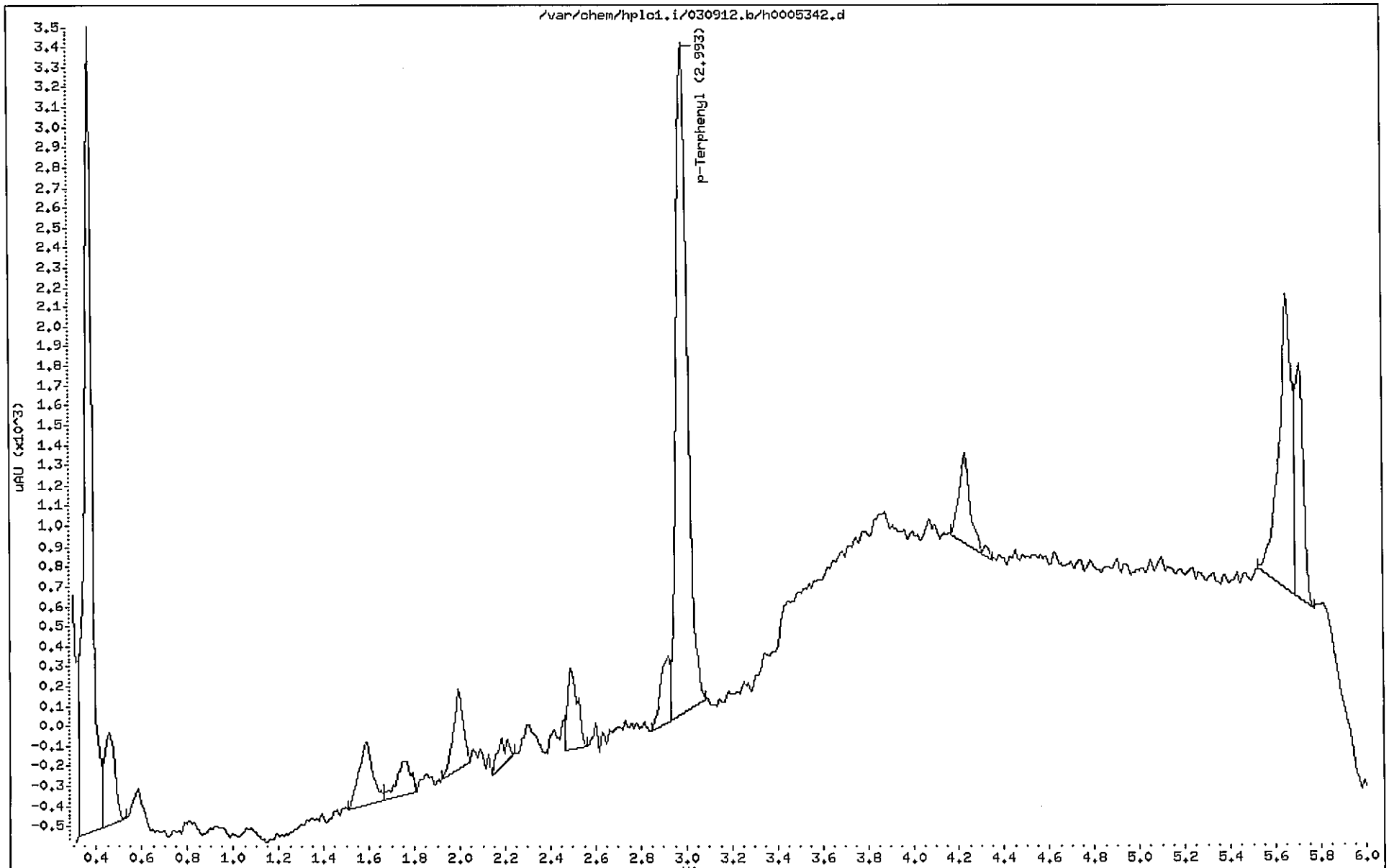
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
11 p-Terphenyl	2.993	2.961	0.032	11433	1.60386	1.60

000461

Data File: /var/chem/hplc1.i/030912.b/h0005342.d
Date : 12-SEP-2003 10:16
Client ID: 118431
Sample Info: 118431-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005342.d
Lab Smp Id: 118431 Client Smp ID: 118431
Inj Date : 12-SEP-2003 10:16
Operator : jdt Inst ID: hplc1.i
Smp Info : 118431-DL1
Misc Info : 0911BLK01
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

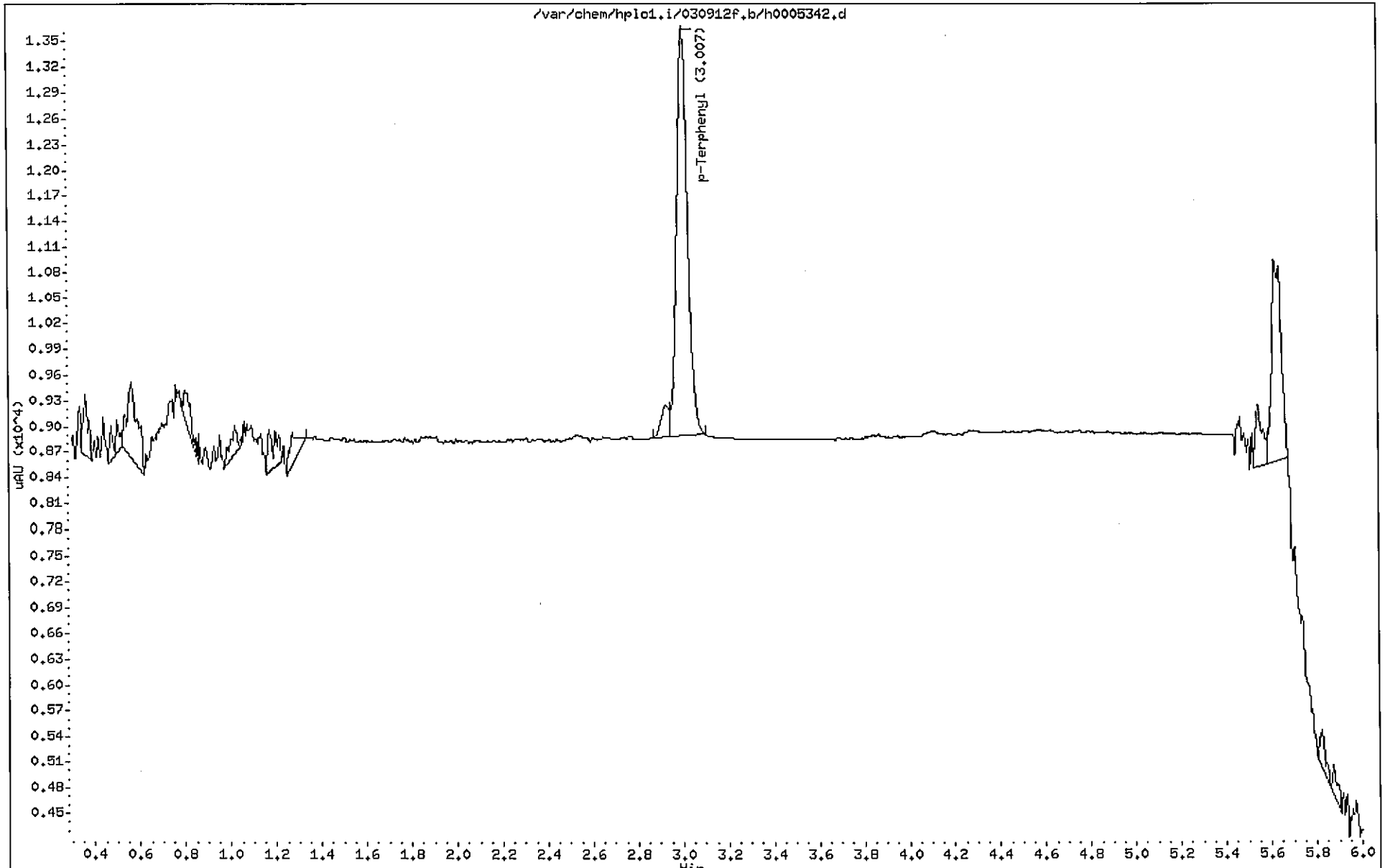
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
11 p-Terphenyl	3.007	2.973	0.034	15887	1.61615	1.62

Data File: /var/chem/hplc1.i/030912f.b/h0005342.d
Date : 12-SEP-2003 10:16
Client ID: 118431
Sample Info: 118431-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000463



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005349.d
Lab Smp Id: 118322 Client Smp ID: 118322
Inj Date : 12-SEP-2003 12:45
Operator : jdt Inst ID: hplc1.i
Smp Info : 118322-DL1
Misc Info : 0911SLCS01
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.023	1.021	0.002	10172	3.83167	128(M)
2 Acenaphthylene	1.237	1.228	0.009	8716	5.23234	174(M)
3 1-Methynaphthalene	1.363	1.352	0.011	15705	11.3021	377(M)
4 2-Methylnaphthalene	1.450	1.438	0.012	16657	8.22113	274(M)
5 Acenaphthene	1.523	1.514	0.009	8822	8.88186	296(M)
6 Fluorene	1.630	1.614	0.016	14817	1.29222	43.1(M)
7 Phenanthrene	1.870	1.847	0.023	8090	0.31064	10.4(M)
8 Anthracene	2.117	2.087	0.030	8675	0.15508	5.17(M)
9 Fluoranthene	2.357	2.328	0.029	2853	0.38125	12.7
10 Pyrene	2.530	2.501	0.029	4568	0.77622	25.9
11 p-Terphenyl	2.990	2.961	0.029	12109	1.69869	56.6
12 Benzo(a)Anthracene	3.190	3.141	0.049	6739	0.40843	13.6
13 Chrysene	3.350	3.301	0.049	10829	0.41748	13.9
14 Benzo(b)Fluoranthene	3.850	3.788	0.062	3403	0.16239	5.41(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Benzo(k)Fluoranthene	4.103	4.077	0.026	1821	0.14041	4.68(M)
16 Benzo(a)Pyrene	4.277	4.152	0.125	6998	0.39131	13.0(M)
17 Dibenzo(a,h)Anthracene	4.590	4.458	0.132	9382	2.43210	81.1(M)
18 Benzo(g,h,i)Perylene	4.737	4.605	0.132	7281	1.07486	35.8(M)
19 Indeno(1,2,3-c,d)Pyrene	4.930	4.758	0.172	6954	0.46302	15.4(M)

QC Flag Legend

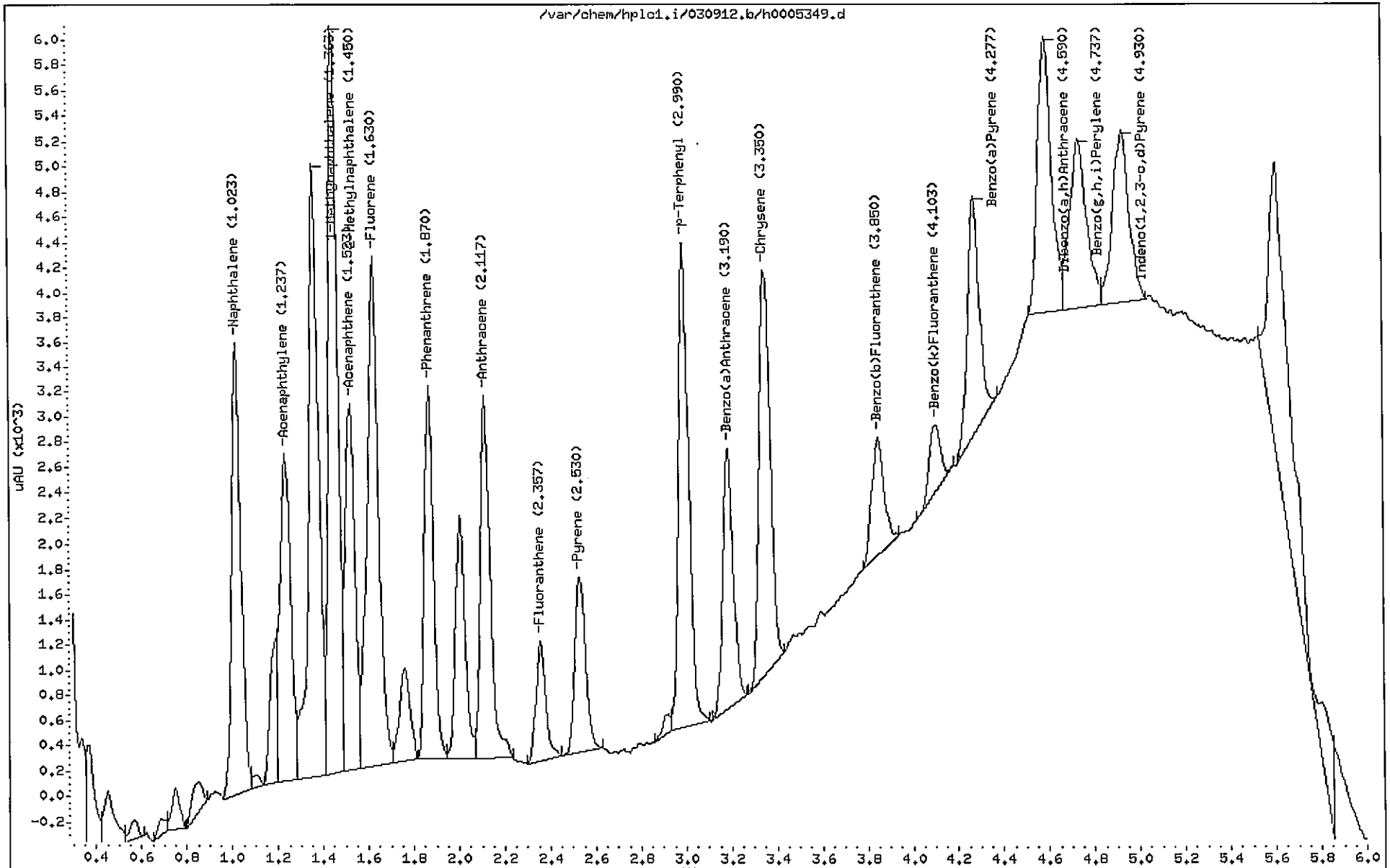
M - Compound response manually integrated.

000466

Data File: /var/chem/hplc1.i/030912.b/h0005349.d
Date : 12-SEP-2003 12:45
Client ID: 118322
Sample Info: 118322-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



Data File: /var/chem/hplc1.i/030912f.b/h0005349.d
Report Date: 15-Sep-2003 12:21

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005349.d
Lab Smp Id: 118322 Client Smp ID: 118322
Inj Date : 12-SEP-2003 12:45
Operator : jdt Inst ID: hplc1.i
Smp Info : 118322-DL1
Misc Info : 0911SLCS01
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.037	1.037	0.000	43364	3.58497	119(M)
3 1-Methynaphthalene	1.377	1.370	0.007	15035	7.40079	247(M)
4 2-Methylnaphthalene	1.463	1.463	0.000	12525	7.27834	243(M)
5 Acenaphthene	1.537	1.533	0.004	33430	7.43103	248(M)
7 Phenanthrene	1.883	1.867	0.016	5439	0.32451	10.8
8 Anthracene	2.133	2.107	0.026	895	0.15344	5.11(M)
9 Fluoranthene	2.370	2.340	0.030	2017	0.35499	11.8
10 Pyrene	2.547	2.517	0.030	27814	0.77244	25.7
11 p-Terphenyl	3.007	2.973	0.034	16294	1.65756	55.3
12 Benzo(a)Anthracene	3.200	3.153	0.047	12076	0.40420	13.5
13 Chrysene	3.363	3.313	0.050	1065	0.26343	8.78
14 Benzo(b)Fluoranthene	3.860	3.800	0.060	3960	0.15863	5.29
15 Benzo(k)Fluoranthene	4.113	4.047	0.066	9400	0.17110	5.70
16 Benzo(a)Pyrene	4.287	4.223	0.064	17925	0.38902	13.0

ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.600	4.533	0.067	32355	1.77278	59.1(M)
18 Benzo(g,h,i)Perylene	4.753	4.683	0.070	11626	0.74348	24.8(M)
19 Indeno(1,2,3-c,d)Pyrene	4.937	4.853	0.084	1920	0.40988	13.7(M)

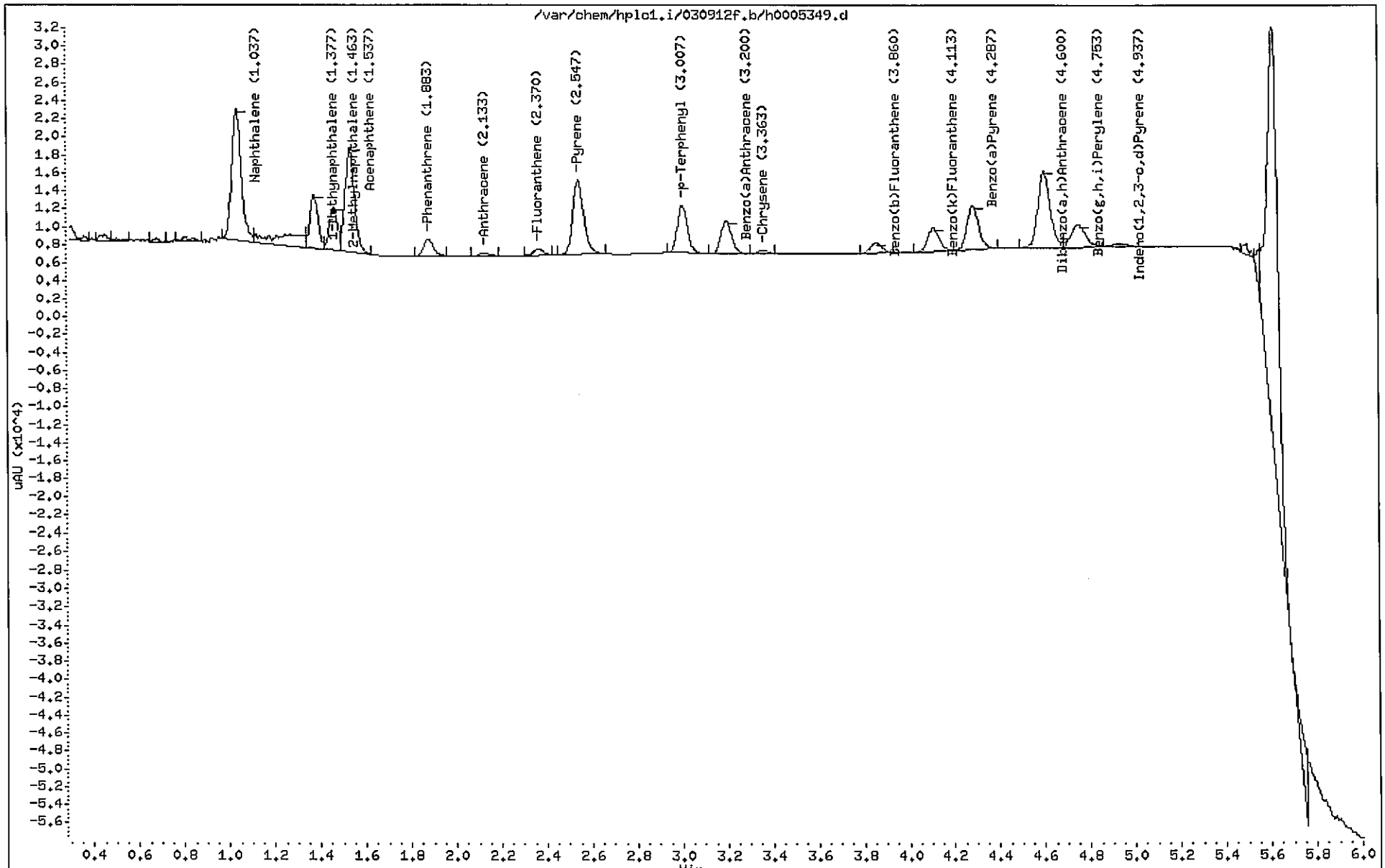
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005349.d
Date : 12-SEP-2003 12:45
Client ID: 118322
Sample Info: 118322-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000469



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005343.d
Lab Smp Id: 118432 Client Smp ID: 118432
Inj Date : 12-SEP-2003 10:23
Operator : jdt Inst ID: hplc1.i
Smp Info : 118432-DL1
Misc Info : 0911LCS01
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
1 Naphthalene	1.015	1.021	-0.006	10350	3.89849	3.90
2 Acenaphthylene	1.235	1.228	0.007	7219	4.33347	4.33(M)
3 1-Methynaphthalene	1.362	1.352	0.010	14141	10.1759	10.2(M)
4 2-Methylnaphthalene	1.448	1.438	0.010	19230	9.49105	9.49(M)
5 Acenaphthene	1.515	1.514	0.001	8750	8.80938	8.81(M)
6 Fluorene	1.622	1.614	0.008	12286	1.07149	1.07(M)
7 Phenanthrene	1.862	1.847	0.015	9514	0.36529	0.365(M)
8 Anthracene	2.108	2.087	0.021	10593	0.18936	0.189(M)
9 Fluoranthene	2.355	2.328	0.027	3314	0.44285	0.443
10 Pyrene	2.528	2.501	0.027	5641	0.95854	0.959
11 p-Terphenyl	2.995	2.961	0.034	12927	1.81344	1.81
12 Benzo(a)Anthracene	3.182	3.141	0.041	7452	0.45165	0.452
13 Chrysene	3.348	3.301	0.047	12655	0.48788	0.488(M)
14 Benzo(b)Fluoranthene	3.842	3.788	0.054	4466	0.21312	0.213(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.088	4.077	0.011	3368	0.25957	0.260
16 Benzo(a)Pyrene	4.262	4.152	0.110	12430	0.69503	0.695
17 Dibenzo(a,h)Anthracene	4.582	4.458	0.124	7355	1.90664	1.91
18 Benzo(g,h,i)Perylene	4.735	4.605	0.130	4971	0.73380	0.734
19 Indeno(1,2,3-c,d)Pyrene	4.922	4.758	0.164	6616	0.44046	0.440

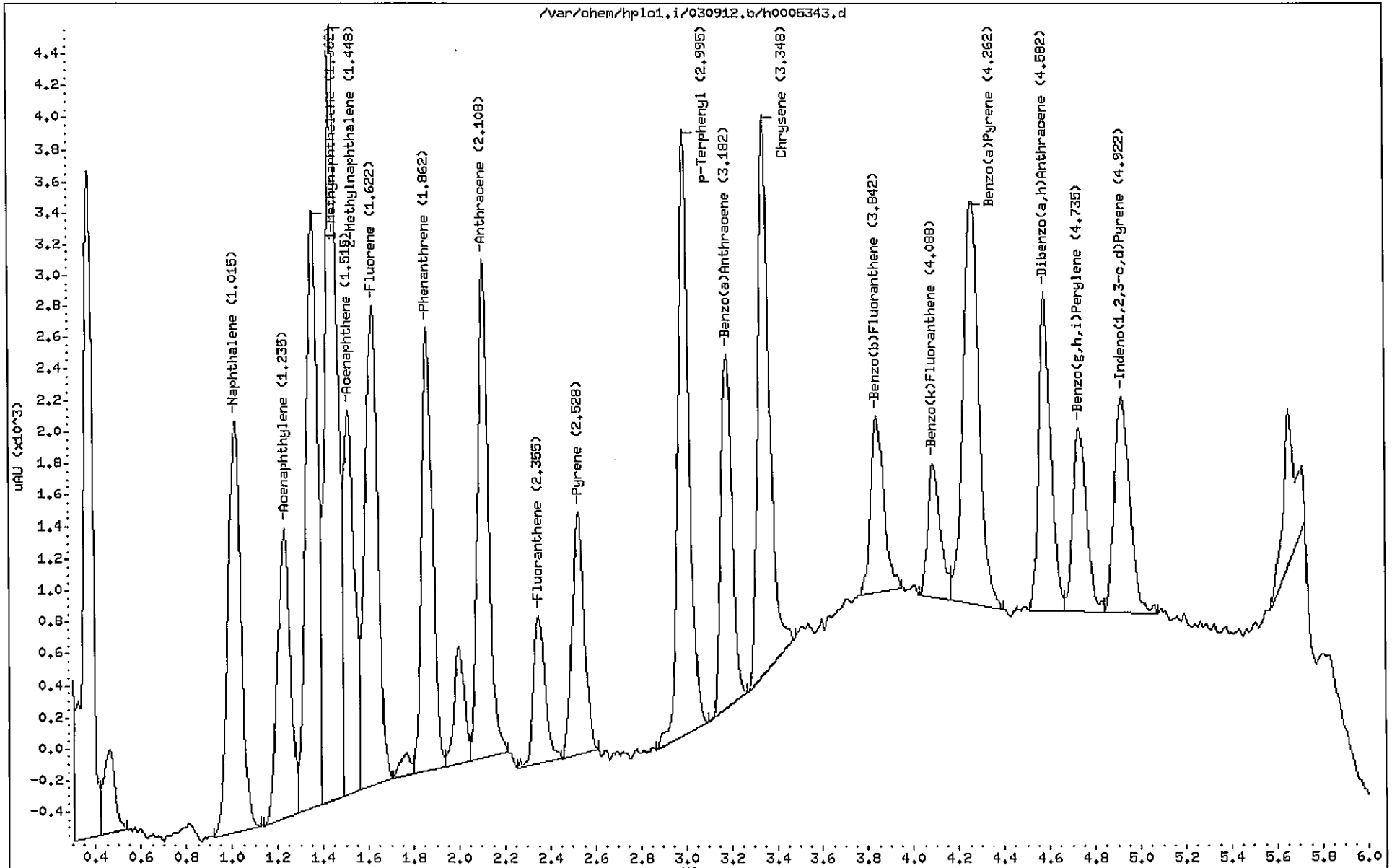
QC Flag Legend

i - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912.b/h0005343.d
Date : 12-SEP-2003 10:23
Client ID: 118432
Sample Info: 118432-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000472



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005343.d
Lab Smp Id: 118432 Client Smp ID: 118432
Inj Date : 12-SEP-2003 10:23
Operator : jdt Inst ID: hplc1.i
Smp Info : 118432-DL1
Misc Info : 0911LCS01
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.030	1.037	-0.007	54900	4.53862	4.54(M)
3 1-Methynaphthalene	1.370	1.370	0.000	12385	6.09642	6.10(M)
4 2-Methylnaphthalene	1.463	1.463	0.000	12472	7.24754	7.25(M)
5 Acenaphthene	1.530	1.533	-0.003	36846	8.19042	8.19(M)
7 Phenanthrene	1.877	1.867	0.010	6655	0.39706	0.397
8 Anthracene	2.130	2.107	0.023	1210	0.20735	0.207
9 Fluoranthene	2.363	2.340	0.023	2109	0.37118	0.371
10 Pyrene	2.543	2.517	0.026	35532	0.98679	0.987
11 p-Terphenyl	3.007	2.973	0.034	17488	1.77902	1.78
12 Benzo(a)Anthracene	3.193	3.153	0.040	14565	0.48751	0.488
13 Chrysene	3.360	3.313	0.047	1258	0.31117	0.311
14 Benzo(b)Fluoranthene	3.857	3.800	0.057	4809	0.19264	0.193
15 Benzo(k)Fluoranthene	4.107	4.047	0.060	11920	0.21697	0.217
16 Benzo(a)Pyrene	4.283	4.223	0.060	22877	0.49649	0.496

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.593	4.533	0.060	33597	1.84082	1.84
18 Benzo(g,h,i)Perylene	4.750	4.683	0.067	12293	0.78608	0.786
19 Indeno(1,2,3-c,d)Pyrene	4.933	4.853	0.080	1658	0.35389	0.354

QC Flag Legend

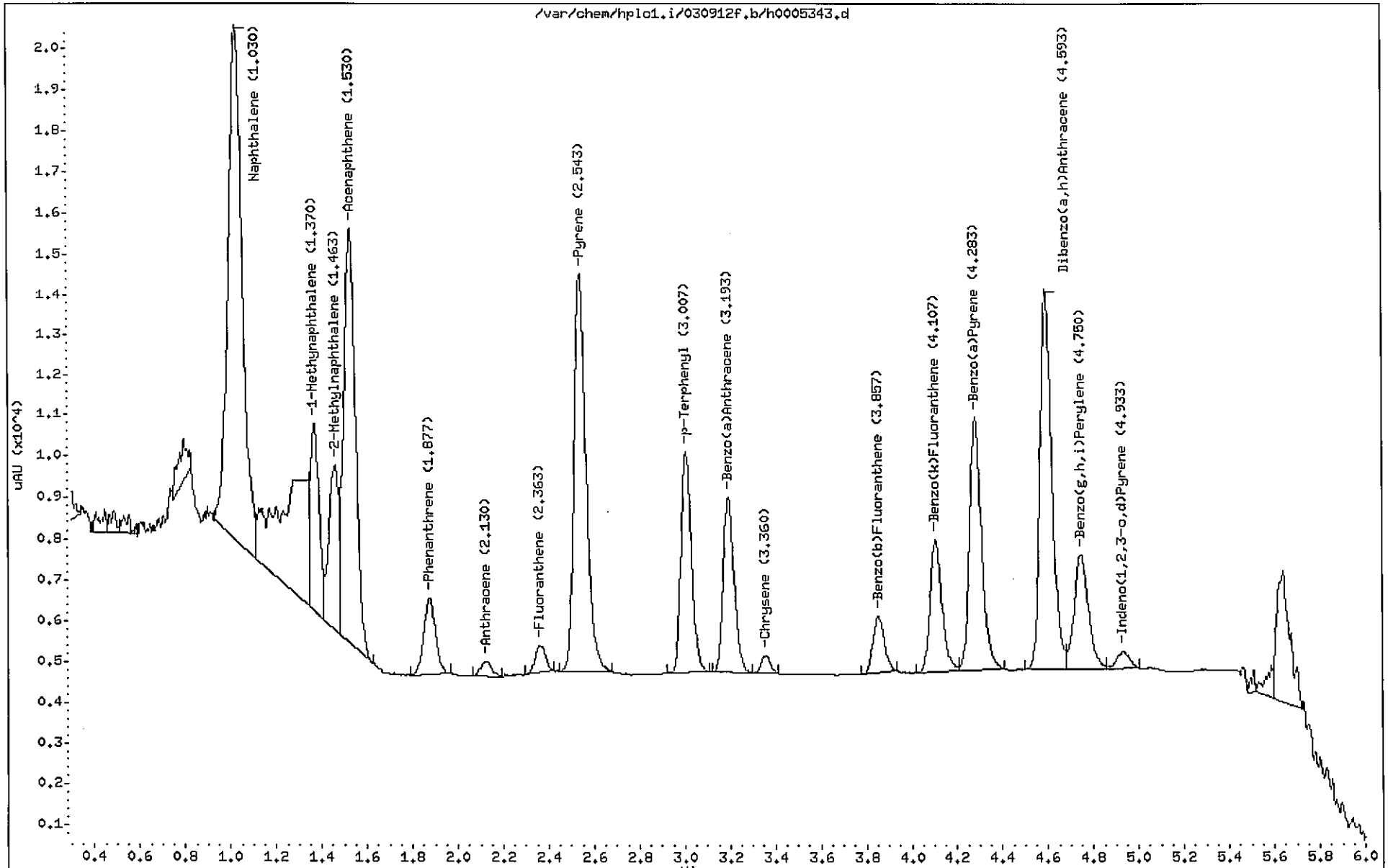
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005343.d
Date : 12-SEP-2003 10:23
Client ID: 118432
Sample Info: 118432-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000475



Data File: /var/chem/hplc1.i/030912.b/h0005344.d
Report Date: 15-Sep-2003 12:20

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005344.d
Lab Smp Id: 118433 Client Smp ID: 118433
Inj Date : 12-SEP-2003 10:30
Operator : jdt Inst ID: hplc1.i
Smp Info : 118433-DL1
Misc Info : 0911LCSD01
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
1 Naphthalene	1.025	1.021	0.004	10761	4.05330	4.05
2 Acenaphthylene	1.238	1.228	0.010	7275	4.36709	4.37
3 1-Methynaphthalene	1.365	1.352	0.013	13813	9.93991	9.94
4 2-Methylnaphthalene	1.452	1.438	0.014	18177	8.97133	8.97
5 Acenaphthene	1.518	1.514	0.004	8425	8.48217	8.48
6 Fluorene	1.625	1.614	0.011	12844	1.12015	1.12
7 Phenanthrene	1.872	1.847	0.025	9546	0.36652	0.367(M)
8 Anthracene	2.118	2.087	0.031	9948	0.17783	0.178(M)
9 Fluoranthene	2.352	2.328	0.024	2851	0.38098	0.381(M)
10 Pyrene	2.532	2.501	0.031	7203	1.22397	1.22(M)
11 p-Terphenyl	2.998	2.961	0.037	12742	1.78749	1.79
12 Benzo(a)Anthracene	3.185	3.141	0.044	7700	0.46668	0.467
13 Chrysene	3.352	3.301	0.051	12279	0.47339	0.473
14 Benzo(b)Fluoranthene	3.845	3.788	0.057	4297	0.20508	0.205(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.092	4.077	0.015	3236	0.24940	0.249
16 Benzo(a)Pyrene	4.265	4.152	0.113	12370	0.69168	0.692
17 Dibenzo(a,h)Anthracene	4.585	4.458	0.127	7357	1.90716	1.91
18 Benzo(g,h,i)Perylene	4.738	4.605	0.133	4834	0.71358	0.714
19 Indeno(1,2,3-c,d)Pyrene	4.918	4.758	0.160	6275	0.41776	0.418

QC Flag Legend

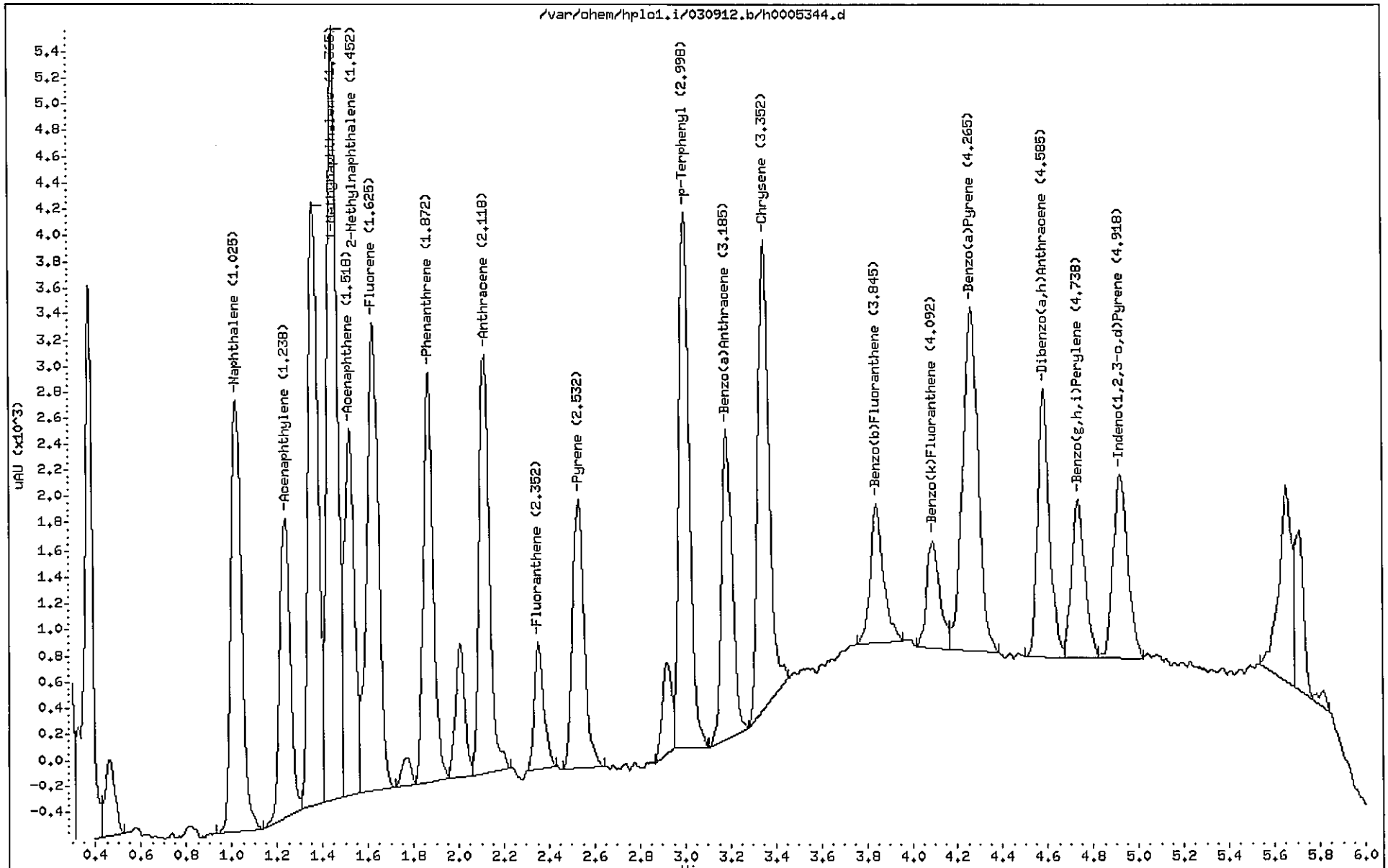
M - Compound response manually integrated.

000478

Data File: /var/chem/hplc1.i/030912.b/h0005344.d
Date : 12-SEP-2003 10:30
Client ID: 118433
Sample Info: 118433-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005344.d
Lab Smp Id: 118433 Client Smp ID: 118433
Inj Date : 12-SEP-2003 10:30
Operator : jdt Inst ID: hplc1.i
Smp Info : 118433-DL1
Misc Info : 0911LCSD01
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1	Naphthalene	1.033	1.037	-0.004	56342	4.65782	4.66(M)
3	1-Methynaphthalene	1.373	1.370	0.003	15828	7.79122	7.79(M)
4	2-Methylnaphthalene	1.463	1.463	0.000	13335	7.74915	7.75(M)
5	Acenaphthene	1.533	1.533	0.000	38768	8.61753	8.62(M)
7	Phenanthrene	1.880	1.867	0.013	6494	0.38745	0.387
8	Anthracene	2.123	2.107	0.016	888	0.15217	0.152
9	Fluoranthene	2.370	2.340	0.030	2203	0.38773	0.388
10	Pyrene	2.543	2.517	0.026	42935	1.19238	1.19
11	p-Terphenyl	3.013	2.973	0.040	18131	1.84443	1.84
12	Benzo(a)Anthracene	3.197	3.153	0.044	13914	0.46572	0.466
13	Chrysene	3.360	3.313	0.047	1177	0.29114	0.291
14	Benzo(b)Fluoranthene	3.857	3.800	0.057	4451	0.17830	0.178
15	Benzo(k)Fluoranthene	4.110	4.047	0.063	10664	0.19411	0.194
16	Benzo(a)Pyrene	4.283	4.223	0.060	22423	0.48664	0.487

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.593	4.533	0.060	33010	1.80866	1.81
18 Benzo(g,h,i)Perylene	4.747	4.683	0.064	11852	0.75788	0.758
19 Indeno(1,2,3-c,d)Pyrene	4.933	4.853	0.080	1545	0.32978	0.330

QC Flag Legend

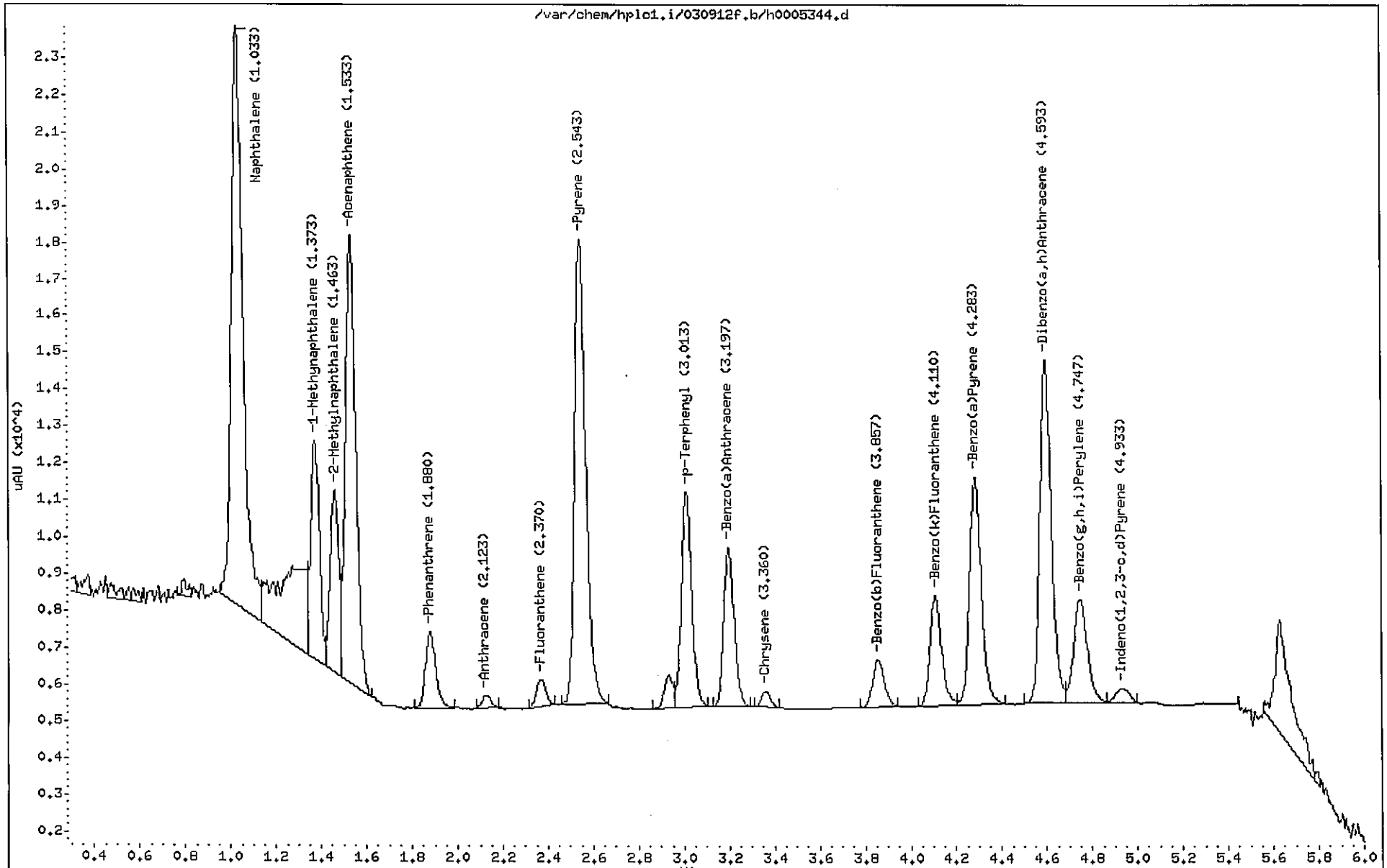
I - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005344.d
Date : 12-SEP-2003 10:30
Client ID: 118433
Sample Info: 118433-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000481



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005351.d
Lab Smp Id: 20309100802
Inj Date : 12-SEP-2003 12:58
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100802MS-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.027	1.021	0.006	10235	3.85518	129
2 Acenaphthylene	1.240	1.228	0.012	8484	5.09283	170(M)
3 1-Methynaphthalene	1.367	1.352	0.015	13737	9.88522	330
4 2-Methylnaphthalene	1.453	1.438	0.015	15719	7.75818	259
5 Acenaphthene	1.527	1.514	0.013	7682	7.73413	258
6 Fluorene	1.627	1.614	0.013	15363	1.33984	44.7
7 Phenanthrene	1.873	1.847	0.026	7477	0.28708	9.57
8 Anthracene	2.120	2.087	0.033	7119	0.12726	4.24
9 Fluoranthene	2.360	2.328	0.032	2906	0.38833	12.9
10 Pyrene	2.533	2.501	0.032	4309	0.73221	24.4
11 p-Terphenyl	3.000	2.961	0.039	11571	1.62322	54.1
12 Benzo(a)Anthracene	3.193	3.141	0.052	6864	0.41601	13.9(M)
14 Benzo(b)Fluoranthene	3.853	3.788	0.065	2859	0.13642	4.55
15 Benzo(k)Fluoranthene	4.107	4.077	0.030	2281	0.17580	5.86(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Benzo(a)Pyrene	4.280	4.152	0.128	6721	0.37581	12.5
17 Dibenzo(a,h)Anthracene	4.593	4.458	0.135	8315	2.15550	71.8(M)
18 Benzo(g,h,i)Perylene	4.747	4.605	0.142	5428	0.80138	26.7(M)
19 Indeno(1,2,3-c,d)Pyrene	4.933	4.758	0.175	5114	0.34047	11.3(M)

QC Flag Legend

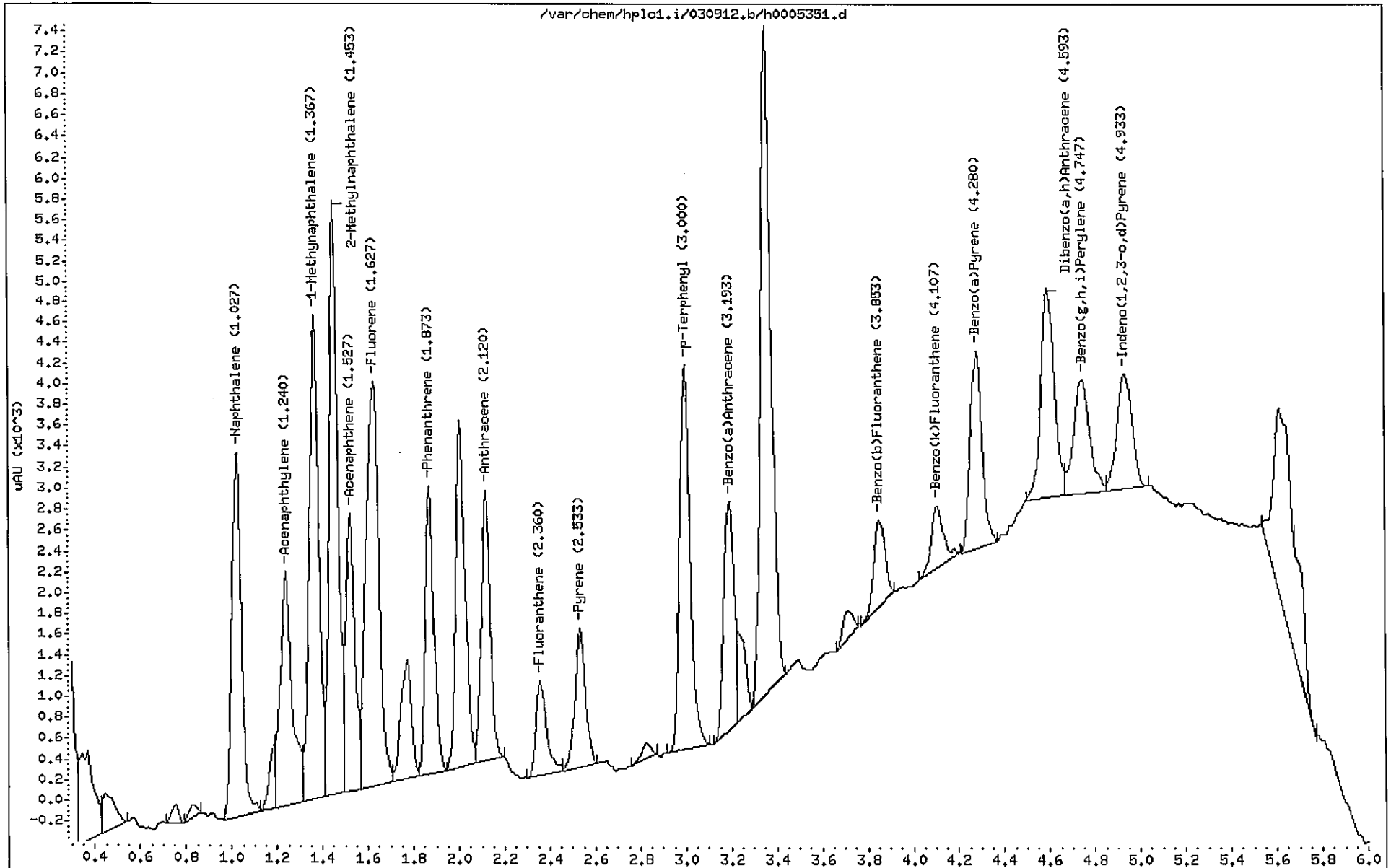
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912.b/h0005351.d
Date : 12-SEP-2003 12:58
Client ID:
Sample Info: 20309100802HS-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000483



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005351.d
Lab Smp Id: 20309100802
Inj Date : 12-SEP-2003 12:58
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100802MS-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.037	1.037	0.000	47461	3.92360	131(M)
3 1-Methynaphthalene	1.377	1.370	0.007	15193	7.47827	249(M)
4 2-Methylnaphthalene	1.463	1.463	0.000	12636	7.34284	245(M)
5 Acenaphthene	1.537	1.533	0.004	31933	7.09816	237(M)
7 Phenanthrene	1.883	1.867	0.016	4813	0.28716	9.57
8 Anthracene	2.130	2.107	0.023	911	0.15611	5.20
9 Fluoranthene	2.370	2.340	0.030	2227	0.39195	13.1(M)
10 Pyrene	2.547	2.517	0.030	26541	0.73709	24.6(M)
11 p-Terphenyl	3.010	2.973	0.037	15612	1.58818	52.9(M)
12 Benzo(a)Anthracene	3.203	3.153	0.050	11475	0.38408	12.8(M)
13 Chrysene	3.367	3.313	0.054	1068	0.26418	8.81(M)
14 Benzo(b)Fluoranthene	3.863	3.800	0.063	3645	0.14601	4.87
15 Benzo(k)Fluoranthene	4.117	4.047	0.070	8639	0.15725	5.24
16 Benzo(a)Pyrene	4.293	4.223	0.070	17189	0.37305	12.4

ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.607	4.533	0.074	28886	1.58271	52.8(M)
18 Benzo(g,h,i)Perylene	4.757	4.683	0.074	9974	0.63780	21.3(M)
19 Indeno(1,2,3-c,d)Pyrene	4.947	4.853	0.094	1734	0.37016	12.3(M)

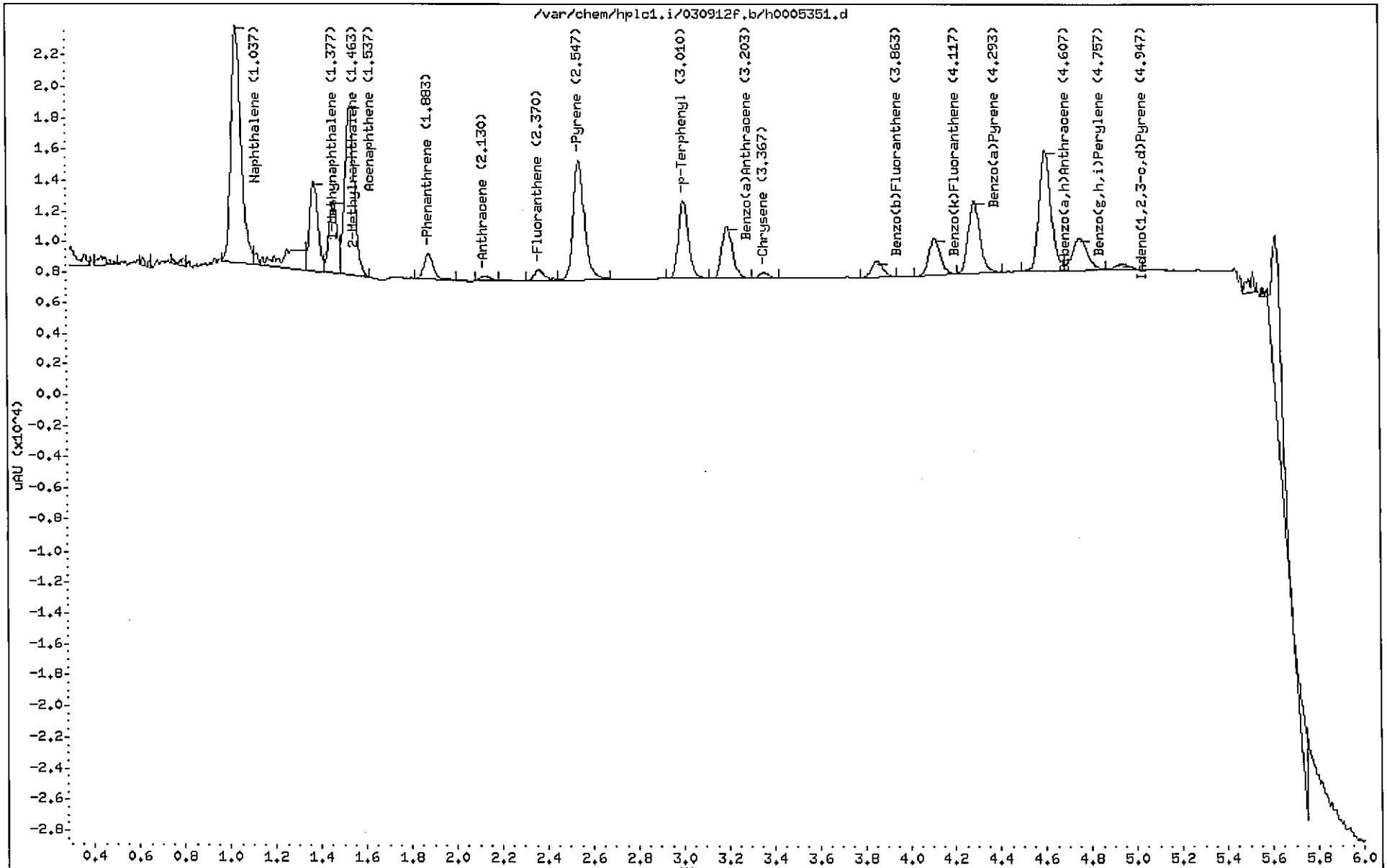
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005351.d
Date : 12-SEP-2003 12:58
Client ID:
Sample Info: 20309100802HS-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jdt
Column diameter: 2.10

000486



Data File: /var/chem/hplc1.i/030912.b/h0005352.d
Report Date: 15-Sep-2003 12:21

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912.b/h0005352.d
Lab Smp Id: 20309100803
Inj Date : 12-SEP-2003 13:05
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100803MSD-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912.b/flpnauv.m
Meth Date : 15-Sep-2003 11:36 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vials bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.022	1.021	0.001	11885	4.47668	149
2 Acenaphthylene	1.235	1.228	0.007	10105	6.06590	202(M)
3 1-Methynaphthalene	1.368	1.352	0.016	16598	11.9440	398
4 2-Methylnaphthalene	1.455	1.438	0.017	16721	8.25272	275
5 Acenaphthene	1.528	1.514	0.014	8517	8.57479	286
6 Fluorene	1.635	1.614	0.021	15546	1.35580	45.2
7 Phenanthrene	1.875	1.847	0.028	8309	0.31902	10.6
8 Anthracene	2.122	2.087	0.035	7082	0.12660	4.22
9 Fluoranthene	2.362	2.328	0.034	3130	0.41826	13.9(M)
10 Pyrene	2.542	2.501	0.041	4637	0.78794	26.3
11 p-Terphenyl	3.002	2.961	0.041	12787	1.79380	59.8
12 Benzo(a)Anthracene	3.195	3.141	0.054	6897	0.41801	13.9(M)
14 Benzo(b)Fluoranthene	3.855	3.788	0.067	3413	0.16286	5.43
15 Benzo(k)Fluoranthene	4.108	4.077	0.031	2464	0.18990	6.33(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
16 Benzo(a)Pyrene	4.282	4.152	0.130	6355	0.35534	11.8(M)
17 Dibenzo(a,h)Anthracene	4.595	4.458	0.137	9727	2.52169	84.1(M)
18 Benzo(g,h,i)Perylene	4.748	4.605	0.143	5796	0.85565	28.5(M)
19 Indeno(1,2,3-c,d)Pyrene	4.935	4.758	0.177	6161	0.41018	13.7(M)

QC Flag Legend

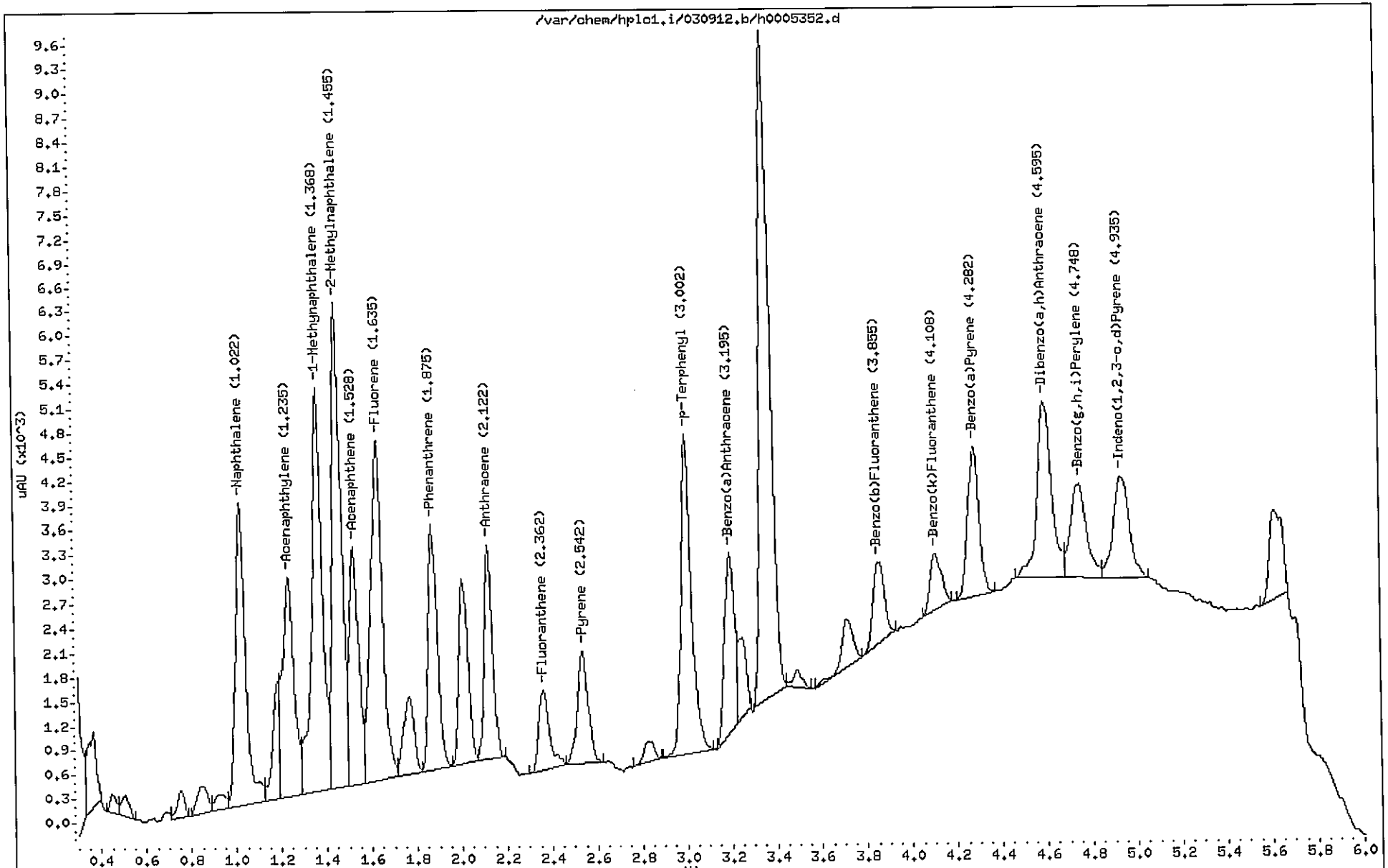
M - Compound response manually integrated.

000489

Data File: /var/chem/hplc1.i/030912.b/h0005352.d
Date : 12-SEP-2003 13:05
Client ID:
Sample Info: 20309100803MSD-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/030912f.b/h0005352.d
Lab Smp Id: 20309100803
Inj Date : 12-SEP-2003 13:05
Operator : jdt Inst ID: hplc1.i
Smp Info : 20309100803MSD-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/030912f.b/flpnafld.m
Meth Date : 15-Sep-2003 11:40 jdt Quant Type: ESTD
Cal Date : 03-SEP-2003 09:25 Cal File: h0005276.d
Vils bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.040	1.037	0.003	52834	4.36778	146(M)
3 1-Methynaphthalene	1.380	1.370	0.010	16465	8.10437	270(M)
4 2-Methylnaphthalene	1.470	1.463	0.007	13477	7.83155	261(M)
5 Acenaphthene	1.540	1.533	0.007	34286	7.62119	254(M)
7 Phenanthrene	1.890	1.867	0.023	5436	0.32433	10.8
8 Anthracene	2.140	2.107	0.033	819	0.14035	4.68
9 Fluoranthene	2.380	2.340	0.040	2526	0.44457	14.8
10 Pyrene	2.553	2.517	0.036	27055	0.75137	25.0
11 p-Terphenyl	3.017	2.973	0.044	16774	1.70639	56.9(M)
12 Benzo(a)Anthracene	3.207	3.153	0.054	12446	0.41658	13.9(M)
13 Chrysene	3.373	3.313	0.060	1238	0.30623	10.2(M)
14 Benzo(b)Fluoranthene	3.870	3.800	0.070	3837	0.15370	5.12
15 Benzo(k)Fluoranthene	4.123	4.047	0.076	9441	0.17185	5.73
16 Benzo(a)Pyrene	4.297	4.223	0.074	17324	0.37598	12.5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.607	4.533	0.074	30484	1.67025	55.7(M)
18 Benzo(g,h,i)Perylene	4.763	4.683	0.080	10457	0.66869	22.3(M)
19 Indeno(1,2,3-c,d)Pyrene	4.947	4.853	0.094	1889	0.40331	13.4(M)

QC Flag Legend

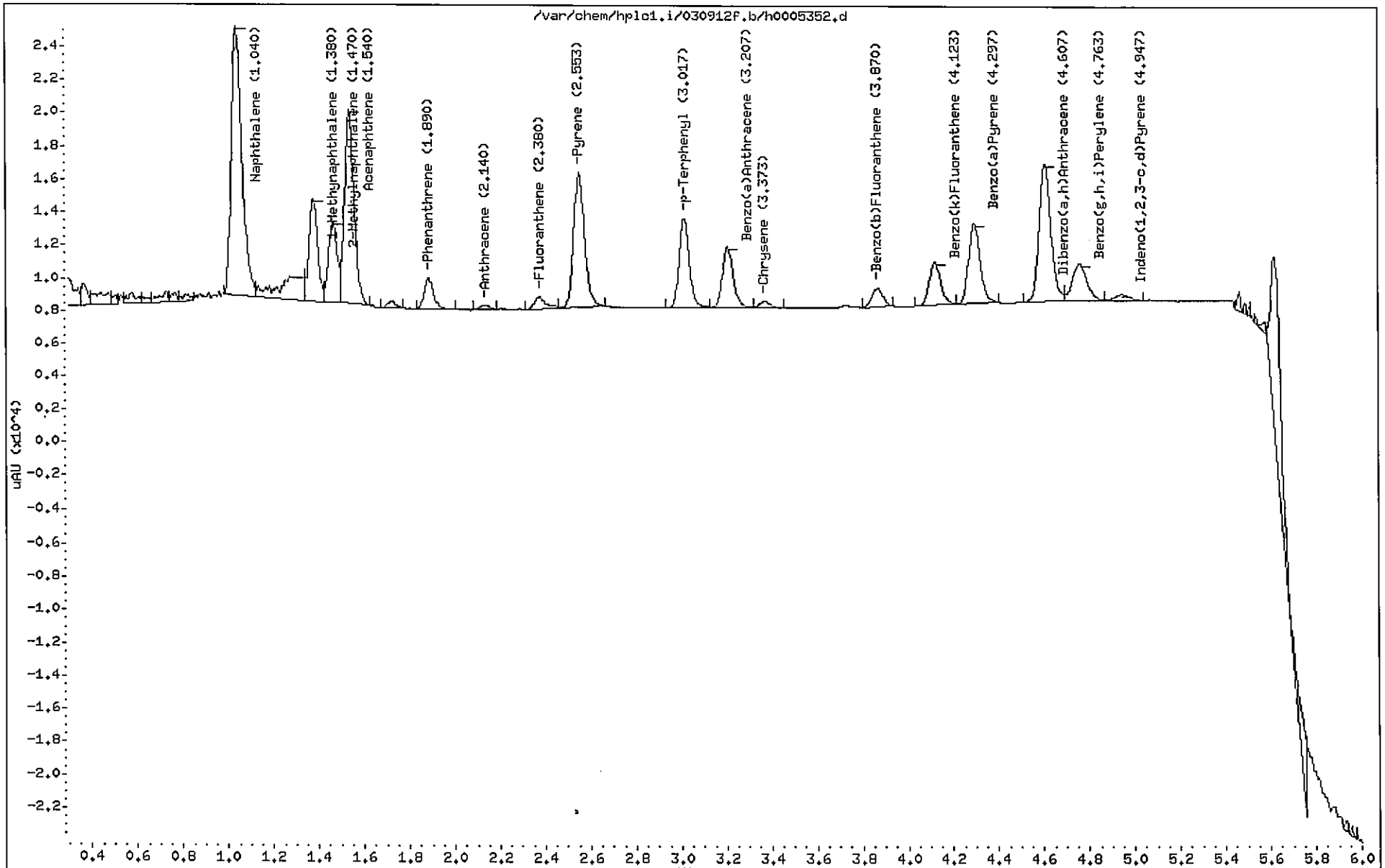
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/030912f.b/h0005352.d
Date : 12-SEP-2003 13:05
Client ID:
Sample Info: 20309100803NSD-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000492



LABORATORY CHRONICLE: HPLC - 8310

Date: 12-SEP-2003
Instrument: hplc1.i
Analyst: jdt

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
0912STD05	3-46-6	h0005341.d	1000.00 ml	12-SEP-2003 10:06	1.000	1	
118431		h0005342.d	1000.00 ml	12-SEP-2003 10:16	1.000	1	
118432		h0005343.d	1000.00 ml	12-SEP-2003 10:23	1.000	1	
118433		h0005344.d	1000.00 ml	12-SEP-2003 10:30	1.000	1	
20309100809		h0005345.d	1000.00 ml	12-SEP-2003 10:37	1.000	1	
20309100810		h0005346.d	1000.00 ml	12-SEP-2003 10:44	1.000	1	
0912STD05	3-46-6	h0005347.d	1000.00 ml	12-SEP-2003 11:06	1.000	1	
118321		h0005348.d	0.00 g	12-SEP-2003 12:38	1.000	1	
118322		h0005349.d	0.00 g	12-SEP-2003 12:45	1.000	1	
20309100801		h0005350.d	0.00 g	12-SEP-2003 12:51	1.000	1	
20309100802		h0005351.d	0.00 g	12-SEP-2003 12:58	1.000	1	
20309100803		h0005352.d	0.00 g	12-SEP-2003 13:05	1.000	1	
20309100804		h0005353.d	0.00 g	12-SEP-2003 13:12	1.000	1	
20309100805		h0005354.d	0.00 g	12-SEP-2003 13:19	1.000	1	
20309100806		h0005355.d	0.00 g	12-SEP-2003 13:26	1.000	1	
20309100807		h0005356.d	0.00 g	12-SEP-2003 13:33	1.000	1	
20309100808		h0005357.d	0.00 g	12-SEP-2003 13:40	1.000	1	
0912STD05	3-46-6	h0005358.d	0.00 g	12-SEP-2003 15:32	1.000	1	
20309100804		h0005359.d	0.00 g	12-SEP-2003 15:45	10.000	1	
20309100807		h0005360.d	0.00 g	12-SEP-2003 15:52	100.000	1	
20309100808		h0005361.d	0.00 g	12-SEP-2003 15:59	10.000	1	
0912STD05	3-46-6	h0005362.d	0.00 g	12-SEP-2003 16:25	1.000	1	
0912STD05	3-46-6	h0005363.d	0.00 g	12-SEP-2003 16:43	1.000	1	

REVISED 09/15/2003 Supervisor Review: QA Review:

PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	9:00 9.11.03	BATCH NO:	262261
MATRIX:	WATER ☐ SOIL ☑ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	COMMENTS	METHOD
1	In-house QC Ac	MB for HBN 262261 [EXTO/4218]	118321	30.0	1.0			LIQUID LIQUID/3520
2	In-house QC Ac	LCS for HBN 262261 [EXTO/4218]	118322	30.0	1.0			
3	CH2M HILL Cons	86JT03S030908	20309100801	30.0	1.0			SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	86JT03S030908MS	20309100802	30.0	1.0			
5	CH2M HILL Cons	86JT03S030908MSD	20309100803	30.0	1.0			
6	CH2M HILL Cons	86JT04S030908	20309100804	30.0	1.0			
7	CH2M HILL Cons	86JT05S030909	20309100805	30.0	1.0			SONICATOR/3550
8	CH2M HILL Cons	86JT06S030909	20309100806	30.0	1.0			√
9	CH2M HILL Cons	86JT12S030909	20309100807	30.0	1.0			SOXHLET/3540
10	CH2M HILL Cons	86DUPS030908	20309100808	30.0	1.0			
11								
12								
13								
14								
15								
16								
17								
18								
19								Sodium Sulfate Lot No:
20				SKB Calibs				033596
21								ACETONITRILE:
22								030799
23								MeCL2 Lot No:
24								030958
25								
26								
27								
28								

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

							TECHNICIAN	DATE
SURROGATE ID	3.223.1			SPIKE ID	3.223.3		[illegible]	9-11-3
VOLUME	0.5			VOLUME	1.0ml		[illegible]	9.11.03
CONCENTRATION	4.0ug/ml			CONCENTRATION			SUPERVISOR	DATE
NaOH		ACID					John Bradley	09/12/03
SPIKE WITNESS	BEJ							

PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	9/11/03 8:30	BATCH NO:	262299
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	COMMENTS	METHOD
1	In-house QC Ac	MB for HBN 262299 [EXTO/4224]	118431	1000	1.0	7		LIQUID LIQUID/3520
2	In-house QC Ac	LCS for HBN 262299 [EXTO/4224]	118432	1000	1.0	7		
3	In-house QC Ac	LCSD for HBN 262299 [EXTO/4224	118433	1000	1.0	7		SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	86PREBW030908	20309100809	1000	1.0	7		✓
5	CH2M HILL Cons	86PTEBW030909	20309100810	1000	1.0	7		
6								
7								SONICATOR/3550
8								
9								SOXHLET/3540
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								Sodium Sulfate Lot No:
20								033596
21								ACETONITRILE:
22								030799
23								MeCL2 Lot No:
24								030958
25								
26								
27								
28								

SKB 09/12/03

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	8-223-1			SPIKE ID	8-223-3	TECHNICIAN	DATE
VOLUME	0.5 mL			VOLUME	1.0 mL	[illegible]	9/11/03
CONCENTRATION	4.0 ug/mL			CONCENTRATION			
NaOH		ACID				SUPERVISOR	DATE
SPIKE WITNESS	BEJ					John Bailey	09/12/03

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INIT	DATE PREPARED	EXP DATE
~~8330HR ICV~~	~~3-46-1~~	~~1.0mg/ml M-8330A-R 10~~	~~Accu Std~~								JDT 6
8330HR ICV	3-46-1	100ug/ml EPA 8330 MixA	Supelco	LB04486 / 12/04	50ul	10.0ml	500ppb	MeOH / 023617	JDT	6/10/03	12/10/03
↓	↓	1000ug/ml 3,4-DNT	Ultra	S-1018 / 9/5	5ul	↓	500ppb	↓	↓	↓	↓
Cal form 1000ppm	3-46-2	Form 37.4%	Fisher	011089 / NA	267ul	100ml	1000ppm	DI H_2O	JDT	6/17/03	6/24/03
Dates 6/10/03 - 6/17/03 Reviewed By QA/QC 6/25/03											
PNA Cal 8	3-46-3	2.0mg/ml PAH Mix	Accu Std	B2060136 / 6/11/04	500ul	50ml	20ppm	ACN / 030646	JDT	6/30/03	12/30/03
↓	↓	2000ug/ml p-Terphenyl	Ultra	~~M-4918~~ / ~~1/2005~~ M4918 / 1/2005	500ul	↓	20ppm	↓	↓	↓	↓
PNA Cal 7	3-46-4	PNA Cal 8	In House	3-46-3 / 12/30/03	2.5ml	5.0ml	10ppm	ACN / 030646	JDT	6/30/03	12/30/03
PNA Cal 6	3-46-5	↓	↓	↓	1.25ml	5.0ml	5ppm	↓	↓	↓	↓
PNA Cal 5	3-46-6				6.25ml	50ml	2.5ppm				
PNA Cal 4	3-46-7				250ul	5.0ml	1.0ppm				
PNA Cal 3	3-46-8				125ul	5.0ml	0.50ppm				
PNA Cal 2	3-46-9				62.5ul	5.0ml	0.25ppm				
PNA Cal 1	3-46-10	↓	↓	↓	25ul	5.0ml	0.10ppm	↓	↓	↓	↓
PNA ICV	3-46-11	PAH Mix	Ultra	R-0889 / 02/2003	100ul	10.0ml	Various	ACN / 030646	JDT	06/30/03	08/31/03
↓	↓	2000ug/ml p-Terphenyl	Ultra	M-4918 / 1/2005	20ul	↓	4ppm	↓	↓	↓	↓
		1000ug/ml 1-MNAP	Ultra	R-1459 / 12/2004	100ul		10ppm				
↓	↓	100ug/ml 2-MNAP	Ultra	T-0520 / 05/2006	1000ul	↓	10ppm	↓	↓	↓	↓
Cal Form 1000ppm	3-46-12	Form 37.4%	Fisher	011089 / NA	267ul	100ml	1000ppm	DI H_2O	JDT	7/15/03	7/22/03
7/25/03 Dates 6/30/03 - 7/15/03 Reviewed By QA/QC 7/25/03											
8270 IS	3-46-13	US-108N	Ultra	T-1284 / 11/2005	12.0ml	12.0ml	4000ppm	N/A	RLW	N/A	11/2006
				RLW 07-30-03							

000496

000046

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INIT	DATE PREPARED	EXP DATE
BNA 10	3-47-1	Q-3392	NSI	040203-08/04-02-04	50 ul	1.0ml	10 ppm	DCM/030609	RLW	07-30-03	04-02-04
50	3-47-2	↓	↓	↓	250ul	↓	50 ppm	↓	↓	↓	↓
80	3-47-3	↓	↓	↓	400ul	↓	80 ppm	↓	↓	↓	↓
120	3-47-4	↓	↓	↓	600ul	↓	120 ppm	↓	↓	↓	↓
160	3-47-5	↓	↓	↓	800ul	↓	160 ppm	↓	↓	↓	↓
200	3-47-6	↓	↓	↓	1000ul	↓	200 ppm	↓	↓	↓	↓
Cal form 1000ppm	3-47-7	form 37.42	fisher	011089/NA	267ul	100ml	1000ppm	DI H2O	JDT	7/31/03	8/7/03
8/26/03	[illegible]	7/30/03 –		7/31/03	[illegible]			QA/QC			
PNA ICV	3-47-8	PAH Mix	Ultra	T-1325/11/05	10ul	1.0 ml	Various	DACN/030646	JDT	9/2/03	3/2/04
↓	↓	2000ug/ml p.Terphenyl	Ultra	U-0599/5/07	2ul	↓	4ppm	↓	↓	↓	↓
		1000ug/ml 1-MNAP	Ultra	R-1459/12/04	10ul		10 ppm				
		100ug/ml 2-MNAP	Ultra	T-1514/12/06	100ul		10 ppm				

000497

000047

000048

8-222-1 HERB SPIKE

Solution was prepared by transferring 1.0mL of Accu Standard M-8150A Lot# B3020166 into a 10.0mL class "A" vol flask, then diluting to mark with methanol. Transfer was made with a 1.0mL gastight syringe (methanol Lot#)

FINAL Conc 10ug/mL EXP 02/26/04

AccuStandard, Inc.
M-8150A 1 mL
Underivatized Chlorinated Herbicides
Varied conc. in MeOH
Lot: B3020166 10 comps.
Exp: Feb 20,2005
CARCINOGENIC
FOR LABORATORY USE ONLY
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.
STORAGE AMBIENT

John Bailey
08/26/03

8-222-2 PAH SPIKE 8310

Solution was prepared by transferring 100ul of ULTRA 1-methylnaphthalene EPA-1225 Lot R-1459 and 100ul of ULTRA PAH mixture PM-831A Lot R-0884 and 1.0mL of ULTRA 2-methylnaphthalene SV-200 Lot# T-0520 into a 10mL class "A" vol flask, then diluting to mark with acetonitrile. (Acetonitrile Lot# 030641)

FINAL Conc EXP 08/27/04

John Bailey
08/27/03

8-222-3 PEST SURR

Solution was prepared by transferring 0.5mL of NSI CLP PEST SURR Lot C-194-05 into a 200mL class "A" vol flask then diluting to mark with acetone. Transfer was made with a 0.5mL gastight syringe (acetone Lot# 034451)

FINAL Conc 0.5ug/mL EXP 02/28/04

0004498

8-223-1 PNA SURR 8310

Solution was prepared by transferring 400ul of ULTRA p-Terphenyl IST-490 Lot# M-491B into a 200mL class A vol flask, then diluting to mark with acetonitrile. Transfer was made with a 0.5mL gastight syringe (acetonitrile Lot# 030641)

FINAL Conc 4.0ug/mL EXP 08/28/04

p-Terphenyl Solution
IST-490 1 mL
Lot No. M-491B Exp. Date 01/2005
ULTRA SCIENTIFIC North Kingstown, RI 401-294-9400
LAB USE ONLY

John Bailey
08/28/03

8-223-2 FRACTIONATION SPIKE

NSI Solutions Inc. 1-800-234-7837
7617 Precision Dr. Ste 101 Raleigh, NC 27617
Q-1869 CUSTOM ALKANE MIX
LOT#: 112802-08 EXP DATE: 11/05
SOLV: CH2CL2/CS2 (50/50) CONC: 2000 ug/mL
HAZARD: IRRITANT, FLAMMABLE, CARCINOGEN
For Research Use Only

FINAL Conc 2000 ug/mL EXP 11/01/05

John Bailey
08/28/03

8-223-3 PAH SPIKE (8310)

Solution was prepared by transferring 200ul of ULTRA 1-methylnaphthalene EPA-1225 Lot R-1459 and 200ul of ULTRA PAH mixture PM-831A Lot ~~R-0884~~ T1385 and 2.0mL of ULTRA 2-methylnaphthalene SV-200 Lot# T-0520 into a 20mL Class "A" vol flask, then diluting to mark with acetonitrile. (Acetonitrile Lot# 030641)

EXP 08/28/04

John Bailey

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT03S030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100801

Date Collected: 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1344

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8670	U	5420	8670

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT03S030908MS

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100802

Date Collected: 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1440

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2030911/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	101000		5420	8670

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 7. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT03S030908MSD

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100803

Date Collected: 09/08/03 Time: 1430

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1535

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	95300		5420	8670

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 16 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT04S030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100804

Date Collected: 09/08/03 Time: 1515

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1630

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	517000		5970	9560

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 9. decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT05S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100805

Date Collected: 09/09/03 Time: 1025

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1729

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8880	U	5550	8880

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 12 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT06S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100806

Date Collected: 09/09/03 Time: 1050

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1824

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	9170	U	5730	9170

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 14 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86JT12S030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100807

Date Collected: 09/09/03 Time: 1115

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/12/03 Time: 0933

Dilution Factor: 100 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	48900000		584000	934000

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 12 decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: 86DUPS030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100808

Date Collected: Time:

Date Received: 09/10/03

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 2014

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	369000		5700	9130

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 870 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: 86PREBW030908

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100809

Date Collected: 09/08/03 Time: 1415

Date Received: 09/10/03

Date Extracted: 9/12/03

Date Analyzed: 09/13/03 Time: 1056

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	115	U	46.8	115

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 890 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: 86PTEBW030909

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 20309100810

Date Collected: 09/09/03 Time: 1130

Date Received: 09/10/03

Date Extracted: 9/12/03

Date Analyzed: 09/12/03 Time: 2020

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	112	U	45.7	112

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: MB118327

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118327

Date Collected: Time:

Date Received:

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1154

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8000	U	5000	8000

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: MB118519

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118519

Date Collected: Time:

Date Received:

Date Extracted: 9/12/03

Date Analyzed: 09/12/03 Time: 1640

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	68.7	J	40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262263 Analytical Batch: 262387

Sample ID: LCS118328

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118328

Date Collected: Time:

Date Received:

Date Extracted: 9/10/03

Date Analyzed: 09/11/03 Time: 1249

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	66100		5000	8000

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: LCS118520

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118520

Date Collected: Time:

Date Received:

Date Extracted: 9/12/03

Date Analyzed: 09/12/03 Time: 1735

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1990		40.7	100

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 262317 Analytical Batch: 262387

Sample ID: LCSD118521

Contract:

SAS No.: SDG No.: 203091008

Lab Sample ID: 118521

Date Collected: Time:

Date Received:

Date Extracted: 9/12/03

Date Analyzed: 09/12/03 Time: 1830

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2030911/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1790		40.7	100

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1.	86PREBW030908	45	35	116						41	40	131						0
2.	86PTEBW030909	56	35	116						62	40	131						0
3.	MB118519	48	35	116						61	40	131						0
4.	LCS118520	52	35	116						40	40	131						0
5.	LCSD118521	46	35	116						46	40	131						0

SMC 1 : O-Terphenyl SMC 2 : Nonatriacontane

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1.	86JT03S030908	61				80				0
2.	86JT03S030908MS	63				54				0
3.	86JT03S030908MSD	60				43				0
4.	86JT04S030908	51				58				0
5.	86JT05S030909	65				56				0
6.	86JT06S030909	59				52				0
7.	86JT12S030909	0	D			0	D			0
8.	86DUPS030908	44				44				0
9.	MB118327	58				52				0
10.	LCS118328	57				53				0

		CONTROL LIMITS	
SMC 1 :	O-Terphenyl	39	119
SMC 2 :	Nonatriacontane	40	139

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: FLORIDA PRO

SAMPLE NO : 118520

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	0	1990	117		55 - 118

SAMPLE NO : 118521

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	1790	105		11		55 - 118	0 - 20

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 203091008

Contract: _____ Method: FLORIDA PRO

Prep Batch: 262263 Analytical Batch: 262387

Spike HSN : 118328

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
Petroleum Hydrocarbons	ug/kg	68000	0	66100	97		63 - 153

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 1 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86JT03S030908

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203091008

Contract: Method: FLORIDA PRO

Prep Batch: 262263 Analytical Batch: 262387

Spike HSN : 2030910080

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	73700	0	101000	137		62 - 204

Spike Dupe HSN : 2030910080

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	73700	95300	129		6		62 - 204	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB118327

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 118327

SAS No.: SDG No.: 203091008

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 09/11/03 Time (1): 1154

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Prep Batch: 262263 Analytical Batch: 262387

Lab File ID: 2030911/SV2AD0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS118328	118328	09/11/03	1249		
2.	86JT03S030908	20309100801	09/11/03	1344		
3.	86JT03S030908MS	20309100802	09/11/03	1440		
4.	86JT03S030908MSD	20309100803	09/11/03	1535		
5.	86JT04S030908	20309100804	09/11/03	1630		
6.	86JT05S030909	20309100805	09/11/03	1729		
7.	86JT06S030909	20309100806	09/11/03	1824		
8.	86DUPS030908	20309100808	09/11/03	2014		
9.	86JT12S030909	20309100807	09/12/03	0933		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB118519

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 118519

SAS No.: SDG No.: 203091008

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted:

Date Analyzed (1): 09/12/03 Time (1): 1640

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Prep Batch: 262317 Analytical Batch: 262387

Lab File ID: 2030911/SV2AD0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS118520	118520	09/12/03	1735		
2.	LCSD118521	118521	09/12/03	1830		
3.	86PTEBW030909	20309100810	09/12/03	2020		
4.	86PREBW030908	20309100809	09/13/03	1056		

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date(s): 09/03/03 09/03/03

Calibration Time(s): 1038 1524

LAB FILE ID: RRF6 =SV2AD002S RRF50 =SV2AD003S
RRF150= RRF250=SV2AD004S RRF350=SV2AD005S

COMPOUND	RRF6	RRF50	RRF250	RRF350	RRF500	$\overline{RRF}$	% RSD
Total PRO	70592	79784	93535	78119	70351	78476	12.0
O-TERPHENYL	195254	161555	175723	146670	136535	163147	14.3
Nonatriacontane	31045	26274	32184	25459	21047	27202	16.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

7B
SEMIVOLATILE ICV CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2 Calibration Date: 09/03/03 Time: 1621

Lab File ID: SV7007 Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	CONC ADDED	CONC RECOVD	%REC	LIMITS
TOTAL PRO	850	1015	-19.2	80-120

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/11/03 Time: 1031

Lab File ID: SV2AD002S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	79800		-0.2	

FORM VII SV-1 OLM03.0

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/11/03 Time: 2109

Lab File ID: SV2AD013S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	75168		4.2	

FORM VII SV-1 OLM03.0

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/12/03 Time: 0837

Lab File ID: SV2AD014S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	88610		-12.9	

FORM VII SV-1 OLM03.0

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/12/03 Time: 1421

Lab File ID: SV2AD021S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	79788		-1.6	

FORM VII SV-1 OLM03.0

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/12/03 Time: 2114

Lab File ID: SV2AD027S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	80582		-2.6	

FORM VII SV-1 OLM03.0

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/13/03 Time: 0955

Lab File ID: SV2AD028S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	84960		-8.2	

FORM VII SV-1 OLM03.0

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203091008 SAS No.: SDG No.: 203091008

Instrument ID: GCSV2AD Calibration Date: 09/13/03 Time: 1151

Lab File ID: SV2AD030S Init. Calib. Date(s): 09/03/03 09/03/03

Init. Calib. Times: 1038 1524

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	78476	93843		-19.5	

FORM VII SV-1 OLM03.0

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad005.d
Lab Smp Id: 20309100801
Inj Date : 11-SEP-2003 13:44
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100801-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 11-Sep-2003 11:43 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.128	5.222	13.906	3376623	28.9463	2315.7052 (M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3{,}376{,}623 - 11{,}540{,}879}{78476} \cdot \frac{2}{25} \cdot 1000 = \text{LDL}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad005s.d
Lab Smp Id: 20309100801
Inj Date : 11-SEP-2003 13:44
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100801-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

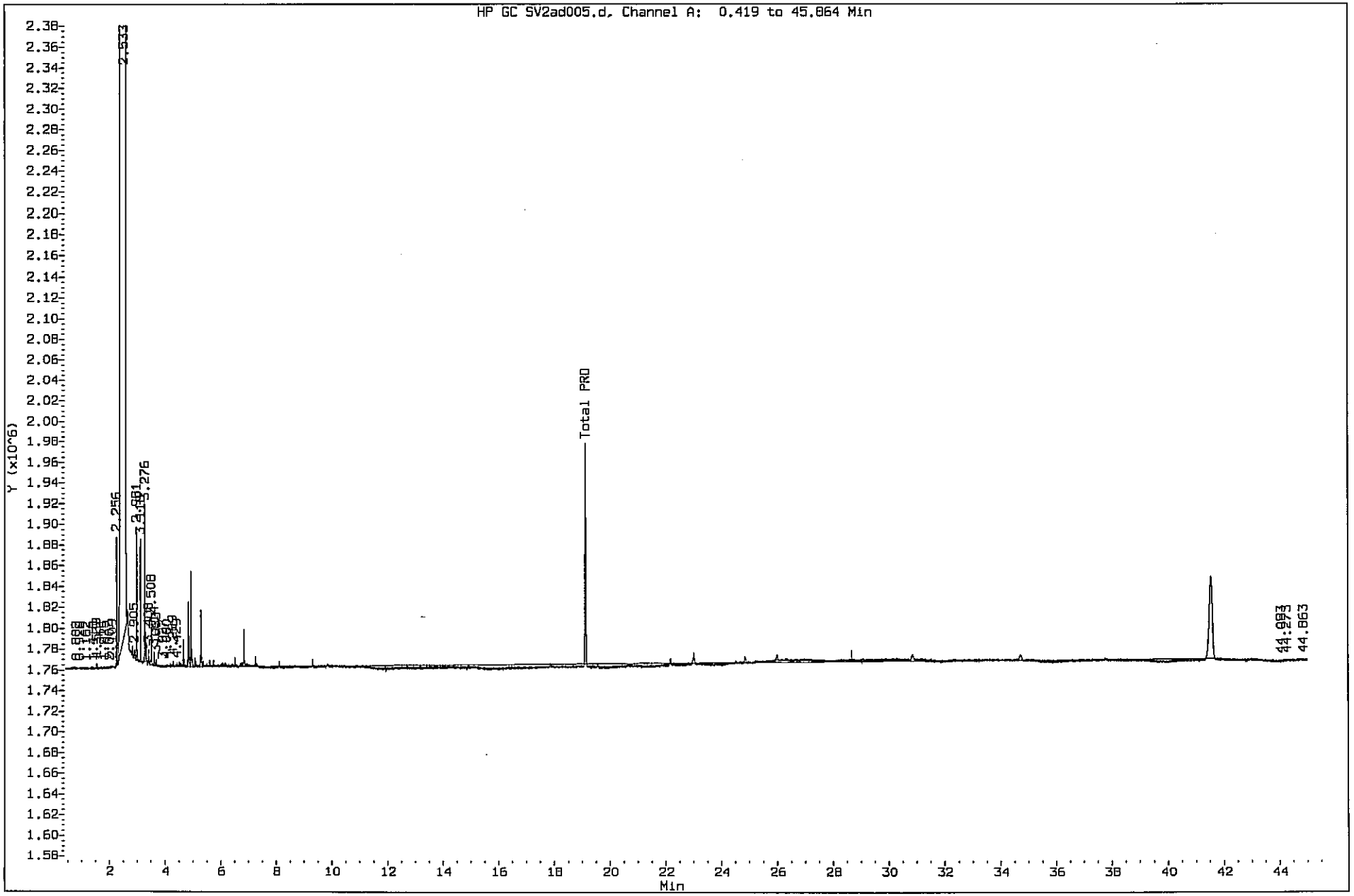
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.129	19.151	-0.022	4998038	30.6351	2450.8077(R)
$ 18 Nonatriacontane	41.565	41.659	-0.094	6542841	240.529	19242.3072

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1154089

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad005.d
Injection Date: 11-SEP-2003 13:44
Instrument: gcsv2ad.i
Client Sample ID:



000532

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad008.d
Lab Smp Id: 20309100804
Inj Date : 11-SEP-2003 16:30
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100804-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 08:31 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	11.903	7.691	4.212	433386350	3715.23	297218.5723(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{433{,}386{,}350 - 8{,}897{,}747}{78476} \cdot \frac{2}{25} \cdot 1000 = 433{,}000\ ug/Kg$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad008s.d
Lab Smp Id: 20309100804
Inj Date : 11-SEP-2003 16:30
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100804-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

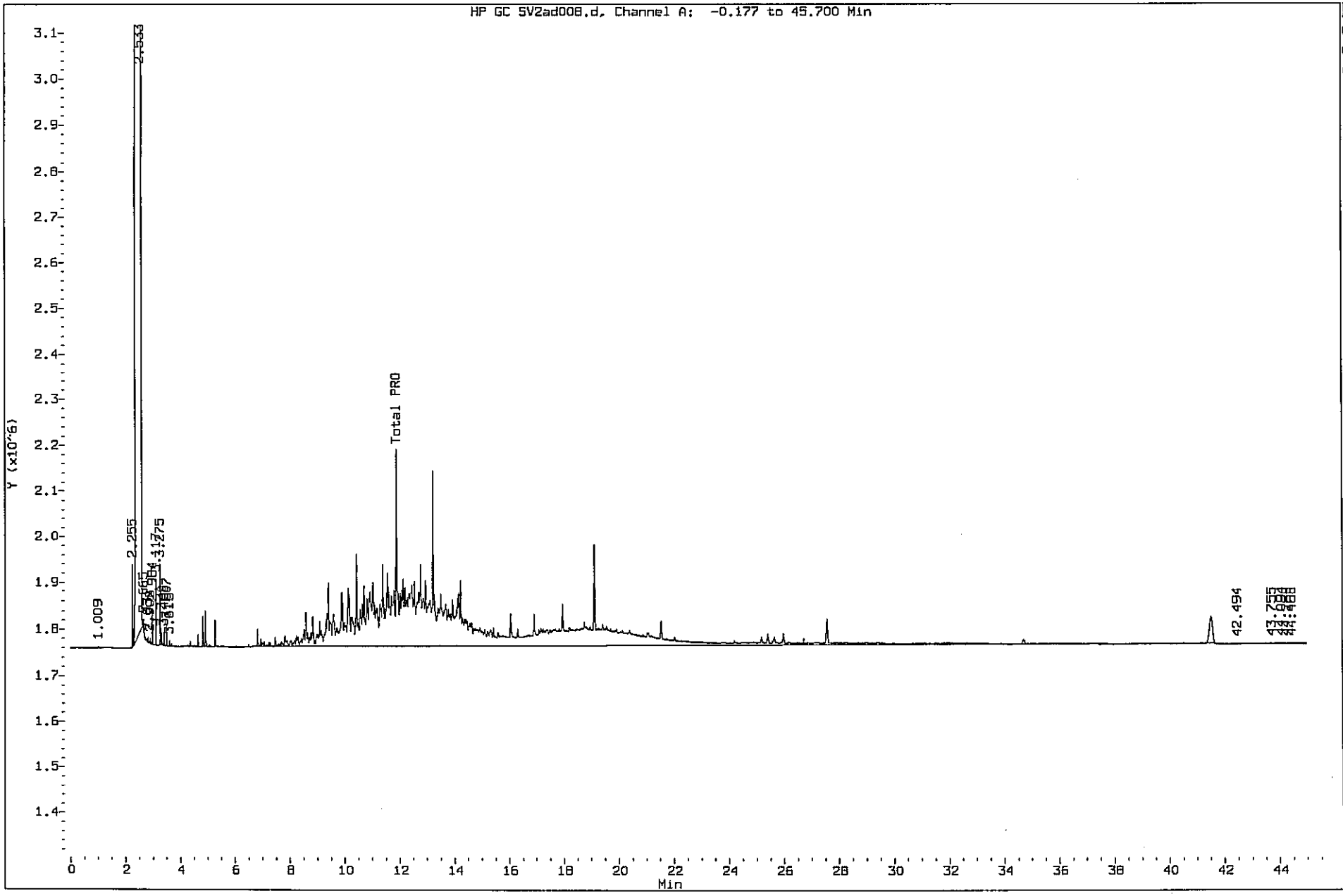
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.131	19.151	-0.020	4123321	25.2736	2021.8868(R)
$ 18 Nonatriacontane	41.556	41.659	-0.103	4774426	175.518	14041.4496(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

8897747

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad008.d
Injection Date: 11-SEP-2003 16:30
Instrument: gcsv2ad.i
Client Sample ID:



000535

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad009.d
Lab Smp Id: 20309100805
Inj Date : 11-SEP-2003 17:29
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100805-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 08:31 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.133	7.691	11.442	7859449	67.3756	5390.0502(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{7{,}859{,}449 - 9{,}829{,}371}{78476} \cdot \frac{2}{25} \cdot 1000 = \text{<DL}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad009s.d
Lab Smp Id: 20309100805
Inj Date : 11-SEP-2003 17:29
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100805-1.0-GCSV~29xx~~203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

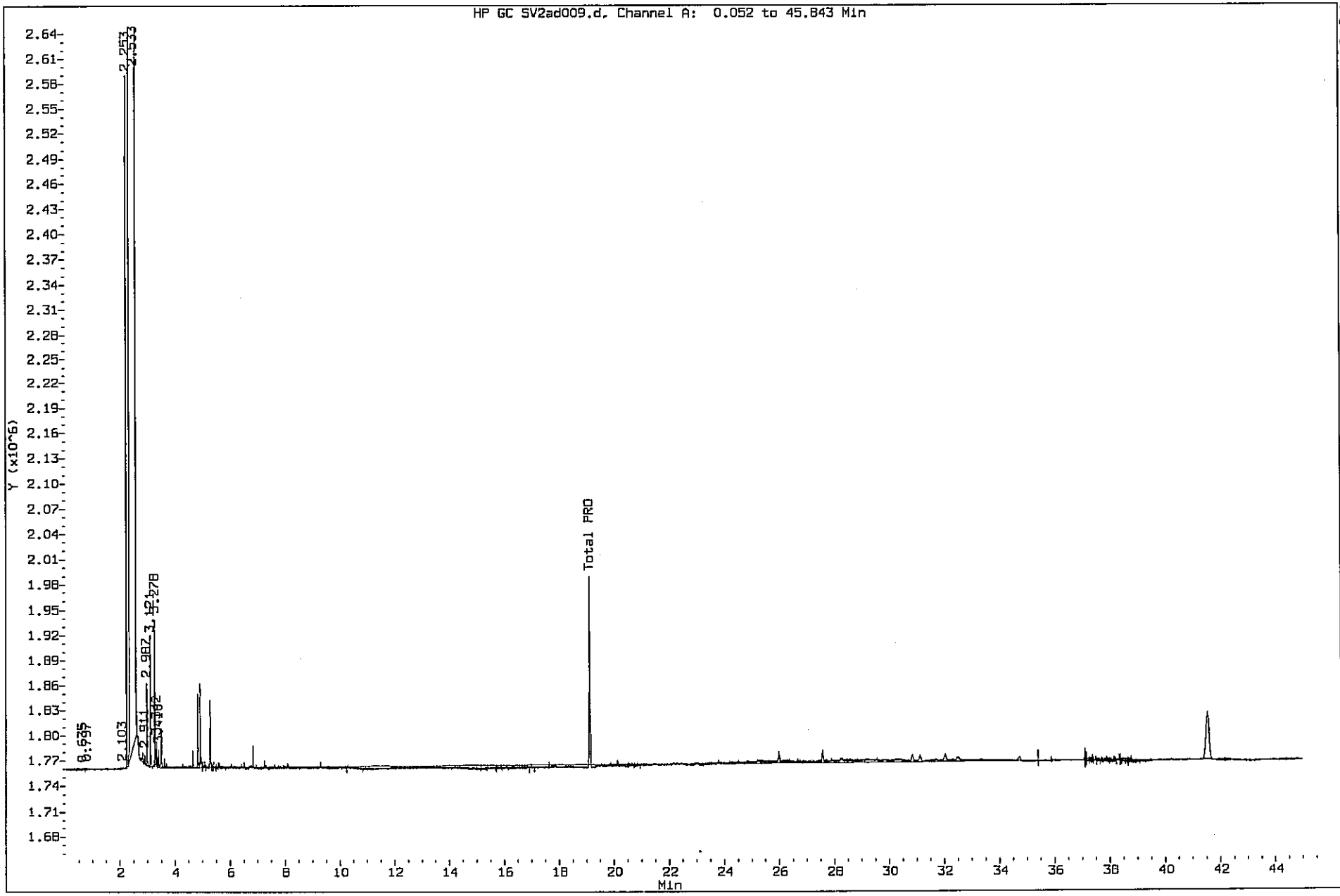
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.133	19.151	-0.018	5254900	32.2095	2576.7610
$ 18 Nonatriacontane	41.565	41.659	-0.094	4574471	168.167	13453.3877(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 98 29,371

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad009.d
Injection Date: 11-SEP-2003 17:29
Instrument: gcsv2ad.i
Client Sample ID:



000538

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad010.d
Lab Smp Id: 20309100806
Inj Date : 11-SEP-2003 18:24
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100806-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 08:31 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.130	7.691	11.439	3487061	29.8931	2391.4442(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3{,}487{,}061 - 9{,}027{,}272}{78476} \cdot \frac{2}{25} \cdot 1000 = <DL$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad010s.d
Lab Smp Id: 20309100806
Inj Date : 11-SEP-2003 18:24
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100806-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

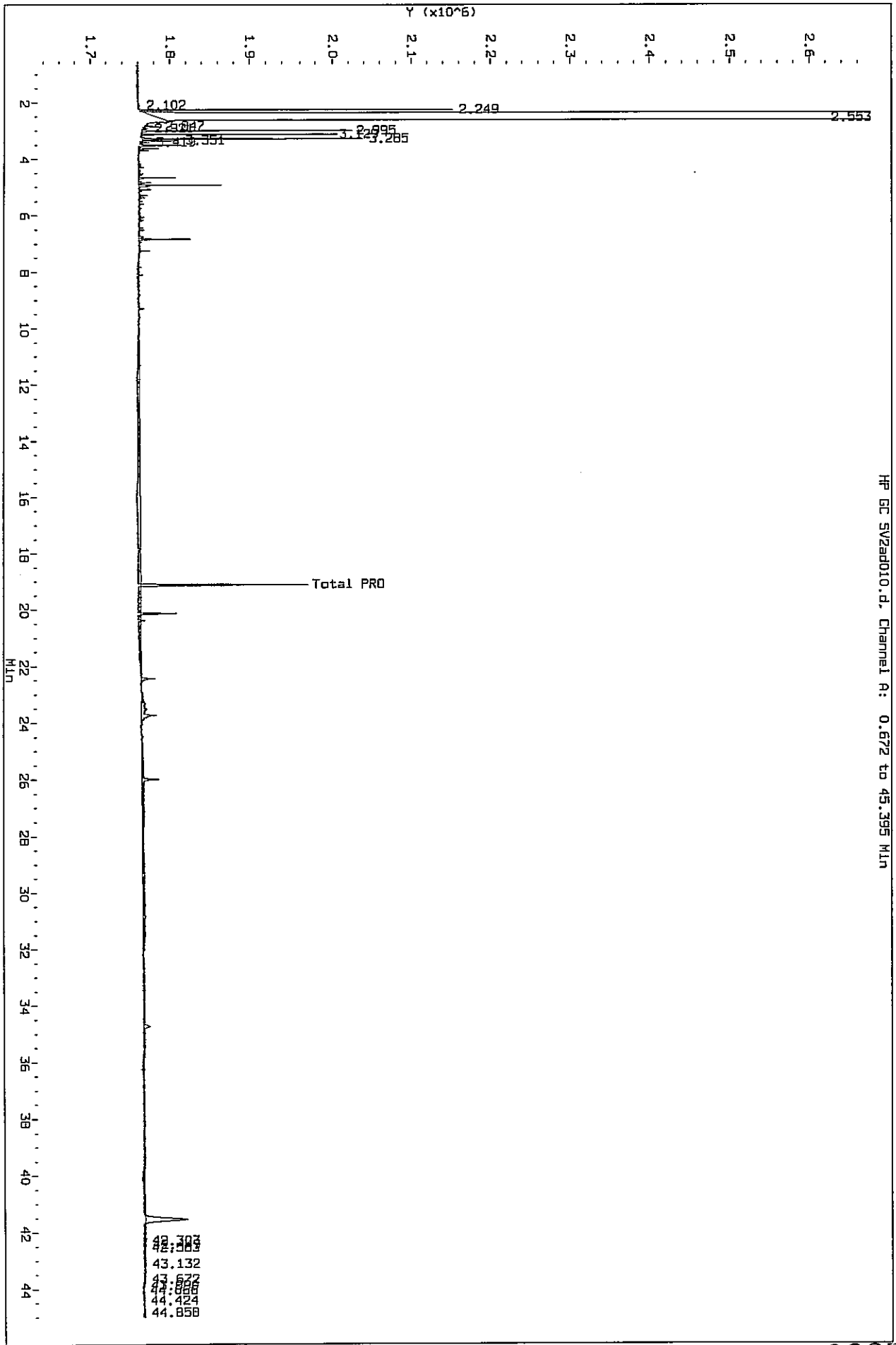
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.130	19.151	-0.021	4814624	29.5109	2360.8699(R)
$ 18 Nonatriacontane	41.561	41.659	-0.098	4212648	154.866	12389.2766(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 90 27,272

Data File: /var/chem/gcsv2ad.i/20030911.b/SV2ad010.d
Injection Date: 11-SEP-2003 18:24
Instrument: gcsv2ad.i
Client Sample ID:

HP GC SV2ad010.d, Channel A: 0.672 to 45.395 Min



Gulf Coast Analytical Services

ata file : /var/chem/gcsv2ad.i/2030911.b/SV2ad015.d
ab Smp Id: 20309100807
nj Date : 12-SEP-2003 09:33
perator : tls Inst ID: gcsv2ad.i
mp Info : 20309100807-100.0-GCSV~29xx~-203091008--ch2m 25 2
isc Info :
omment :
ethod : /var/chem/gcsv2ad.i/2030911.b/flpro.m
eth Date : 12-Sep-2003 09:27 tls Quant Type: ESTD
al Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
ls bottle: 15
il Factor: 100.00000
ntegrator: HP Genie Compound Sublist: PRO.sub
arget Version: 3.50
rocessing Host: hpchem

oncentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	100.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

pnd Variable Local Compound Variable

ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	11.908	7.711	4.197	410967297	3523.04	28184347.1332(M)

C Flag Legend

- Compound response manually integrated.

$$100 \cdot \left(\frac{410967297 - 201001}{78476} \right) \cdot \frac{2}{25} \cdot 1000 = 41{,}900{,}000 \text{ ug/kg}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad015s.d
Lab Smp Id: 20309100807
Inj Date : 12-SEP-2003 09:33
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100807-100.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 15
Dil Factor: 100.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	100.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

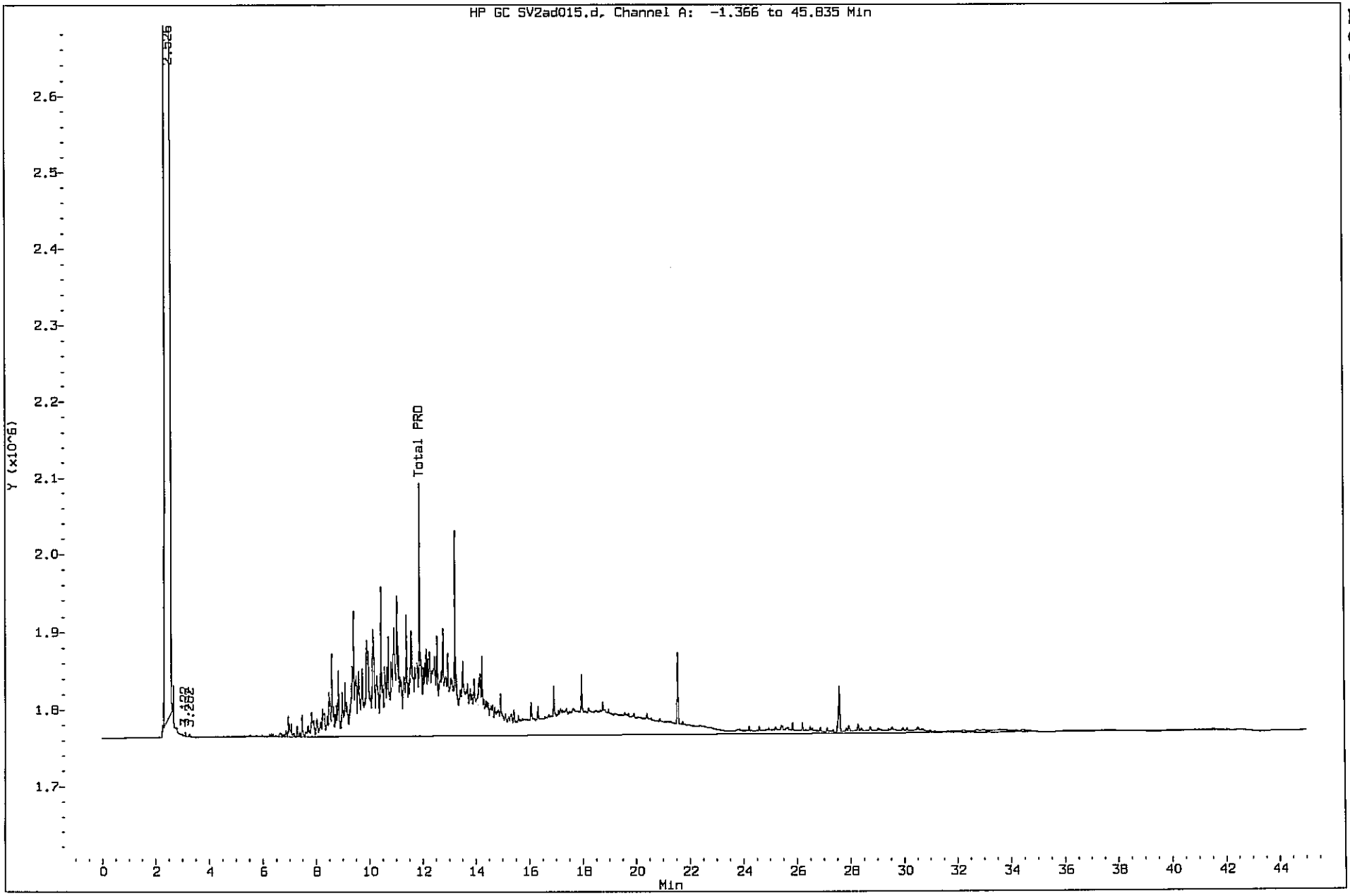
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.130	19.151	-0.021	54306	0.33286	2662.9162
$ 18 Nonatriacontane	41.549	41.659	-0.110	146695	5.39282	43142.5777(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 20100l

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad015.d
Injection Date: 12-SEP-2003 09:33
Instrument: gcsv2ad.i
Client Sample ID:



000544

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad012.d
Lab Smp Id: 20309100808
Inj Date : 11-SEP-2003 20:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100808-1.0-GCSV~29xx~~203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 08:31 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	11.903	7.691	4.212	324248039	2779.64	222370.9612(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{324248039 - 7,184,160}{78476}$, $\frac{2}{25} \cdot 1000 = 323,000$ ug/Kg

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad012s.d
Lab Smp Id: 20309100808
Inj Date : 11-SEP-2003 20:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100808-1.0-GCSV~29xx~-203091008--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

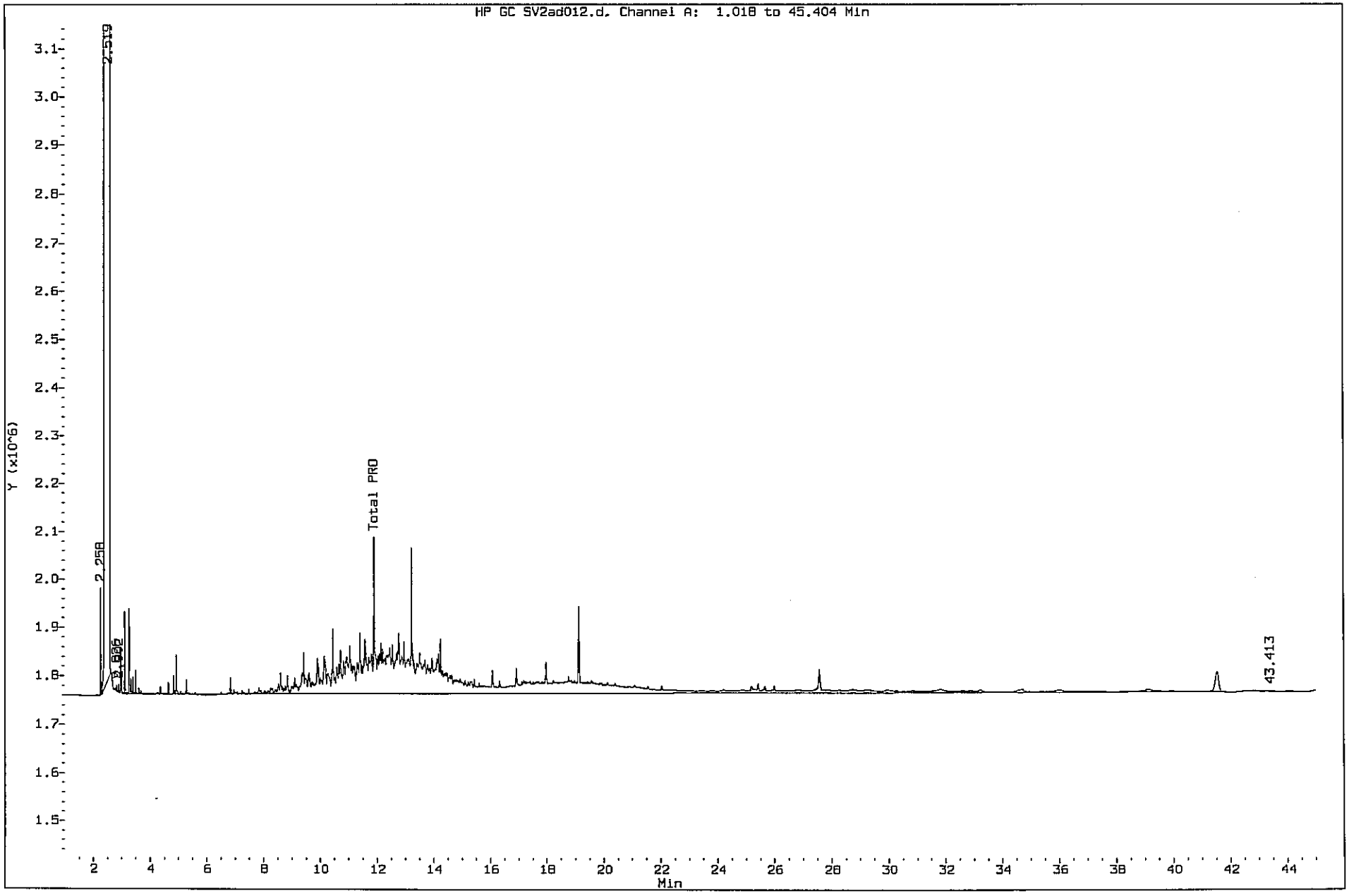
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.131	19.151	-0.020	3577350	21.9271	1754.1677(R)
$ 18 Nonatriacontane	41.545	41.659	-0.114	3606810	132.594	10607.5245(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 7184160

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad012.d
Injection Date: 11-SEP-2003 20:14
Instrument: gcsv2ad.i
Client Sample ID:



000547

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad029s.d
Lab Smp Id: 20309100809
Inj Date : 13-SEP-2003 10:56
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100809-1.0-GCSV~29xx~-2030911008--ch2m 870 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 17-Sep-2003 13:49 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	870.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
7 O-TERPHENYL	19.131	19.150	-0.019	4258217	26.1004	60.0009
18 Nonatriacontane	41.538	41.655	-0.117	3853870	141.677	325.6931

8112087

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad029.d
Lab Smp Id: 20309100809
Inj Date : 13-SEP-2003 10:56
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100809-1.0-GCSV~29xx~-2030911008--ch2m 870 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 12:39 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	870.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

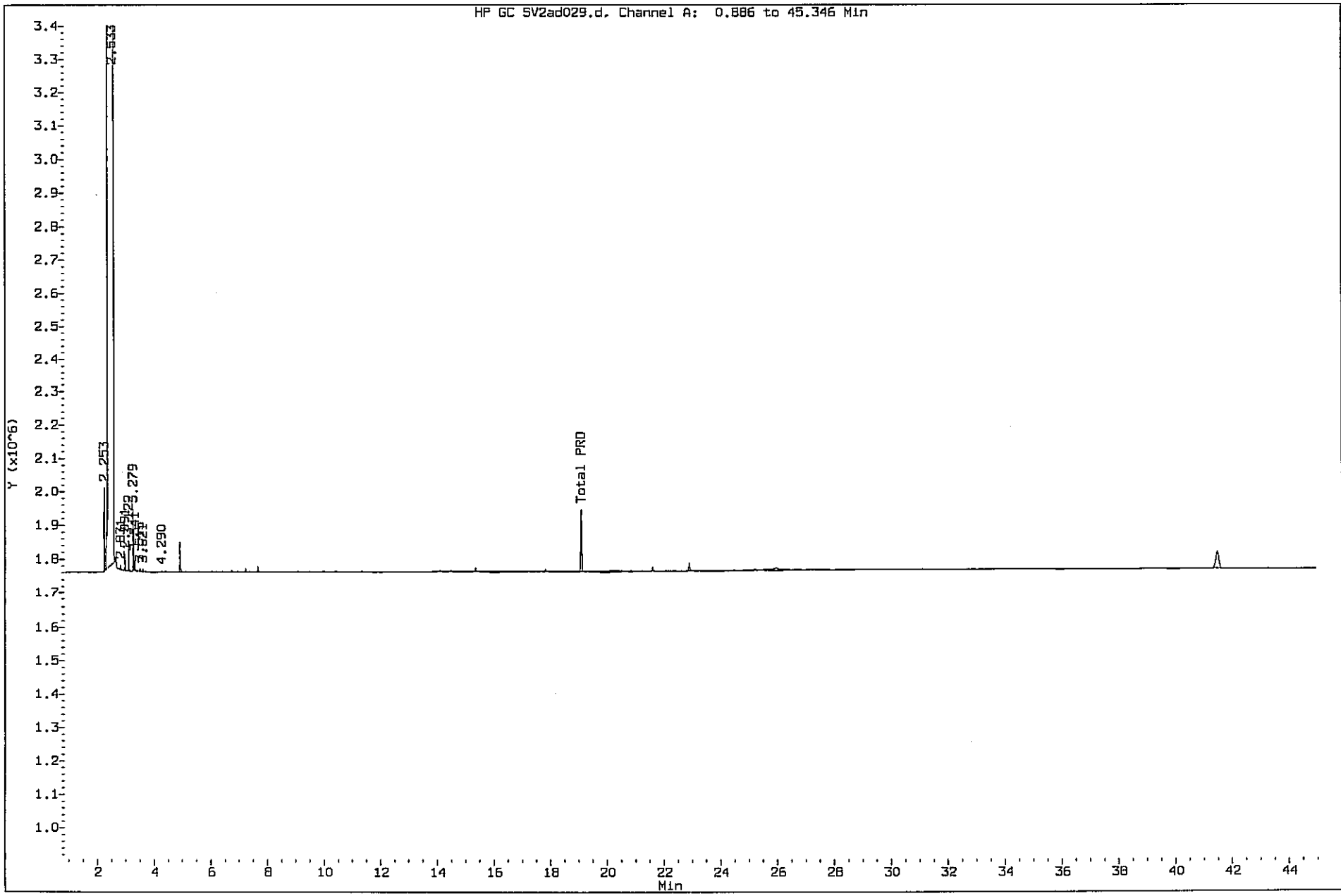
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	19.132	7.688	11.444	4223813	36.2089	83.2388 (M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{4223813 - 8112087}{78476} \cdot \frac{2}{870} \cdot 1000 = <DL$$

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad029.d
Injection Date: 13-SEP-2003 10:56
Instrument: gcsv2ad.i
Client Sample ID:



000550

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad026.d
Lab Smp Id: 20309100810
Inj Date : 12-SEP-2003 20:20
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100810-1.0-GCSV~29xx~-2030911008--ch2m 890 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 12:39 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	19.128	7.688	11.440	9624616	82.5076	165.0152(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{9624616 - 10787408}{78476} \cdot \frac{2}{890} \cdot 1000 = <DL$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad026s.d
Lab Smp Id: 20309100810
Inj Date : 12-SEP-2003 20:20
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100810-1.0-GCSV~29xx~-2030911008--ch2m 890 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

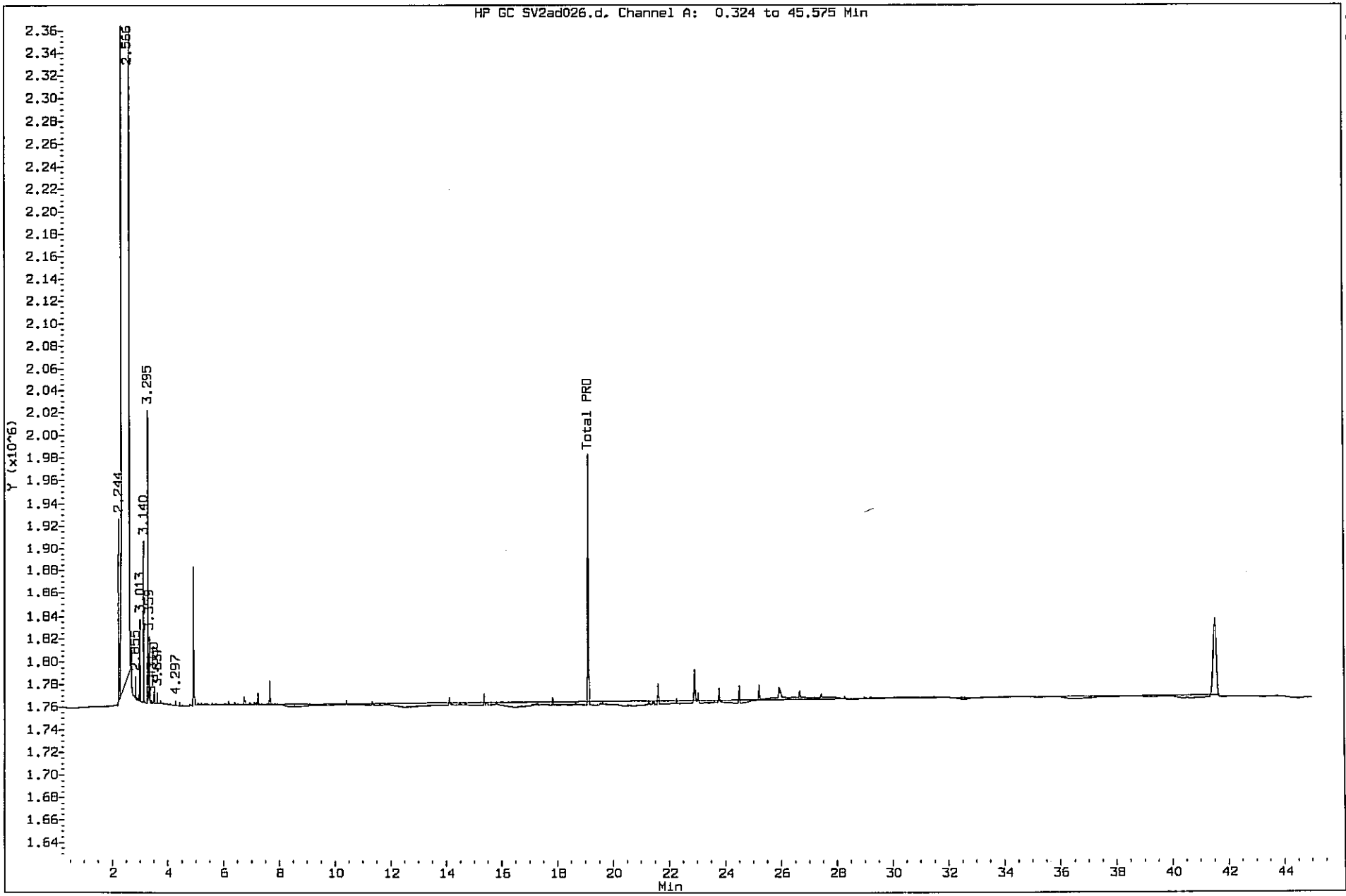
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.128	19.151	-0.023	5148872	31.5596	63.1192
$ 18 Nonatriacontane	41.560	41.659	-0.099	5638536	207.285	414.5693

10,787,408

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad026.d
Injection Date: 12-SEP-2003 20:20
Instrument: gcsv2ad.i
Client Sample ID:



000553

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad002.d
Lab Smp Id: 6 PPM
Inj Date : 03-SEP-2003 10:38
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 6 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flpro.m
Meth Date : 03-Sep-2003 11:40 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 10:38 Cal File: SV2ad002.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	19.150	19.150	0.000	26276552	102.000	204.1579(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{26276552 - 19076151}{102} = 70592$$

Gulf Coast Analytical Services

ata file : /var/chem/gcsv2ad.i/2030903.b/SV2ad002S.d
ab Smp Id: 6 PPM
nj Date : 03-SEP-2003 10:38
perator : dlb Inst ID: gcsv2ad.i
mp Info : 6 PPM
isc Info :
omment :
ethod : /var/chem/gcsv2ad.i/2030903.b/flsur.m
eth Date : 03-Sep-2003 11:42 dlb Quant Type: ESTD
al Date : 03-SEP-2003 10:38 Cal File: SV2ad002S.d
ls bottle: 2 Calibration Sample, Level: 1
il Factor: 1.00000
ntegrator: HP Genie Compound Sublist: flsurr.sub
arget Version: 3.50
rocessing Host: hpchem

oncentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

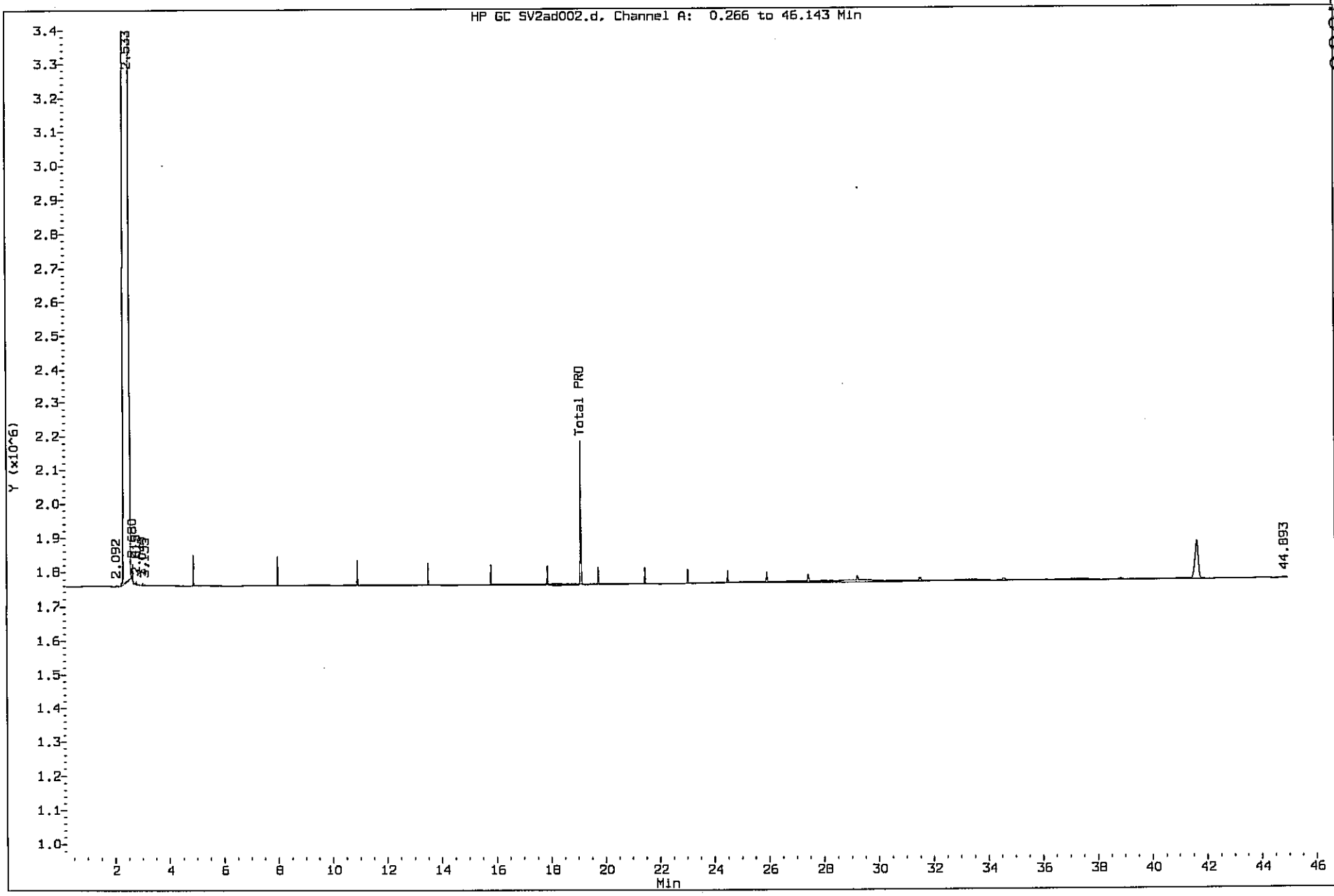
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

pnd Variable Local Compound Variable

mpounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
7 O-TERPHENYL	19.150	19.156	-0.006	9762724	50.0000	54.3609
18 Nonatriacontane	41.699	41.692	0.007	9313427	300.000	336.7860

19076151

Data File: /var/chem/gcsv2ad.i/2030903.b/SV2ad002.d
Injection Date: 03-SEP-2003 10:38
Instrument: gcsv2ad.i
Client Sample ID:



000556

Gulf Coast Analytical Services

ata file : /var/chem/gcsv2ad.i/2030903.b/SV2ad003.d
ab Smp Id: 50 PPM
nj Date : 03-SEP-2003 11:35
perator : dlb Inst ID: gcsv2ad.i
mp Info : 50 PPM
isc Info :
omment :
ethod : /var/chem/gcsv2ad.i/2030903.b/flpro.m
eth Date : 03-Sep-2003 13:29 dlb Quant Type: ESTD
al Date : 03-SEP-2003 11:35 Cal File: SV2ad003.d
ls bottle: 3 Calibration Sample, Level: 2
il Factor: 1.00000
ntegrator: HP Genie Compound Sublist: PRO.sub
arget Version: 3.50
rocessing Host: hpchem

oncentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

pnd Variable Local Compound Variable

mpounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.907	17.726	-12.819	83776278	850.000	672.1877(M)

C Flag Legend

- Compound response manually integrated.

$$\frac{83776278 - 15959907}{850} = 79784$$

Gulf Coast Analytical Services

ata file : /var/chem/gcsv2ad.i/2030903.b/SV2ad003S.d
ab Smp Id: 50 PPM
nj Date : 03-SEP-2003 11:35
perator : dlb Inst ID: gcsv2ad.i
np Info : 50 PPM
isc Info :
omment :
ethod : /var/chem/gcsv2ad.i/2030903.b/flsur.m
eth Date : 03-Sep-2003 13:29 dlb Quant Type: ESTD
al Date : 03-SEP-2003 11:35 Cal File: SV2ad003S.d
ls bottle: 3 Calibration Sample, Level: 2
il Factor: 1.00000
ntegrator: HP Genie Compound Sublist: flsurr.sub
arget Version: 3.50
rocessing Host: hpchem

oncentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

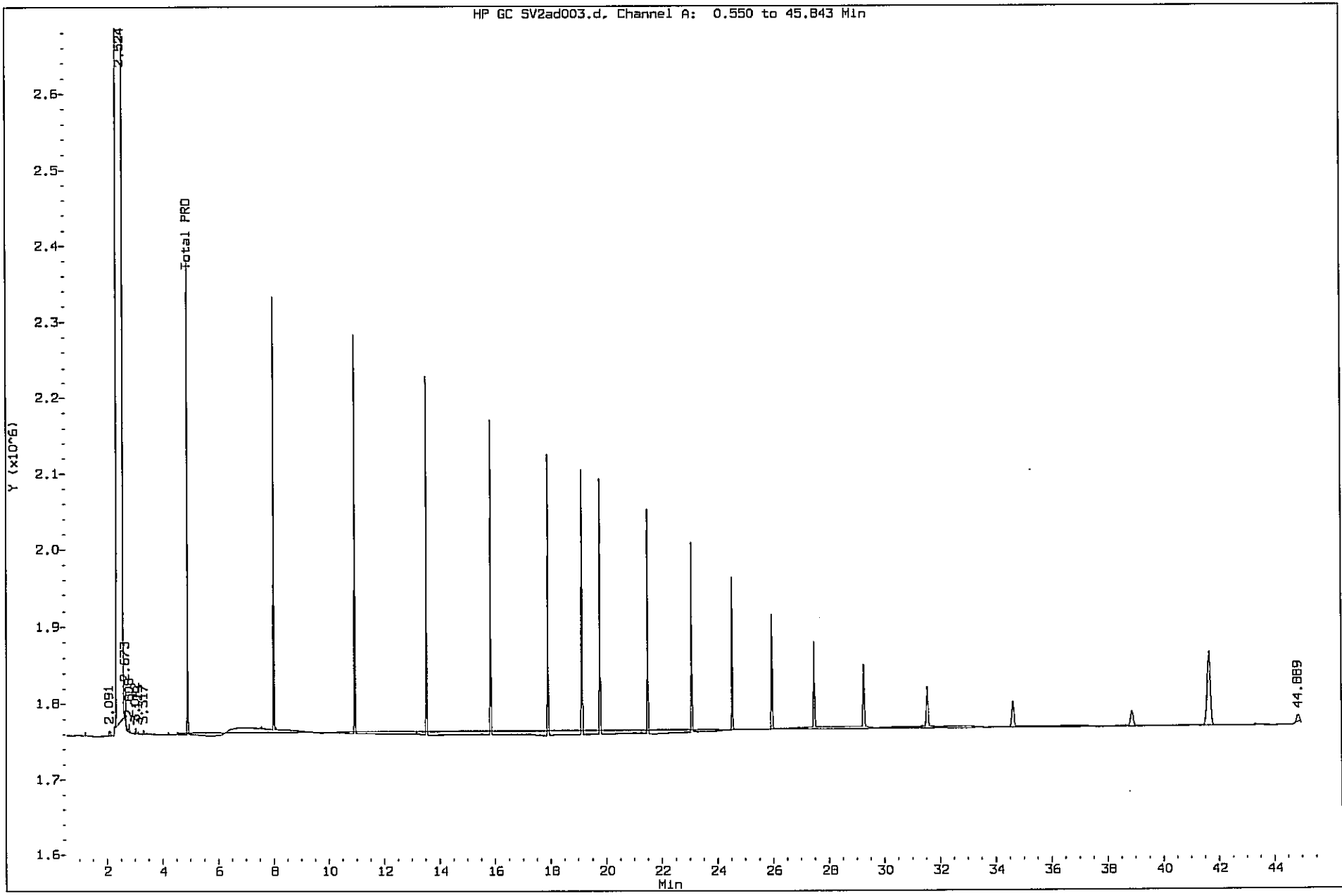
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

ond Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
npounds	RT	EXP RT	DLT RT	RESPONSE	(UG/ML)	(UG/ML)
7 O-TERPHENYL	19.148	19.155	-0.007	8077750	50.0000	45.8419
18 Nonatriacontane	41.685	41.692	-0.007	7882157	300.000	288.0376

15959907

Data File: /var/chem/gcsv2ad.i/2030903.b/SV2ad003.d
Injection Date: 03-SEP-2003 11:35
Instrument: gcsv2ad.i
Client Sample ID:



000559

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad004.d
Lab Smp Id: 250 PPM
Inj Date : 03-SEP-2003 13:30
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 250 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flpro.m
Meth Date : 03-Sep-2003 14:15 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 13:30 Cal File: SV2ad004.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.912	17.726	-12.814	415965519	4250.00	3349.9068(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{415965519 - 18441398}{4250} = 93535$$

Gulf Coast Analytical Services

ata file : /var/chem/gcsv2ad.i/2030903.b/SV2ad004S.d
ab Smp Id: 250 PPM
nj Date : 03-SEP-2003 13:30
perator : dlb Inst ID: gcsv2ad.i
mp Info : 250 PPM
isc Info :
omment :
ethod : /var/chem/gcsv2ad.i/2030903.b/flsur.m
eth Date : 03-Sep-2003 14:35 dlb Quant Type: ESTD
al Date : 03-SEP-2003 13:30 Cal File: SV2ad004S.d
is bottle: 4 Calibration Sample, Level: 4
il Factor: 1.00000
ntegrator: HP Genie Compound Sublist: flsurr.sub
arget Version: 3.50
rocessing Host: hpchem

oncentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

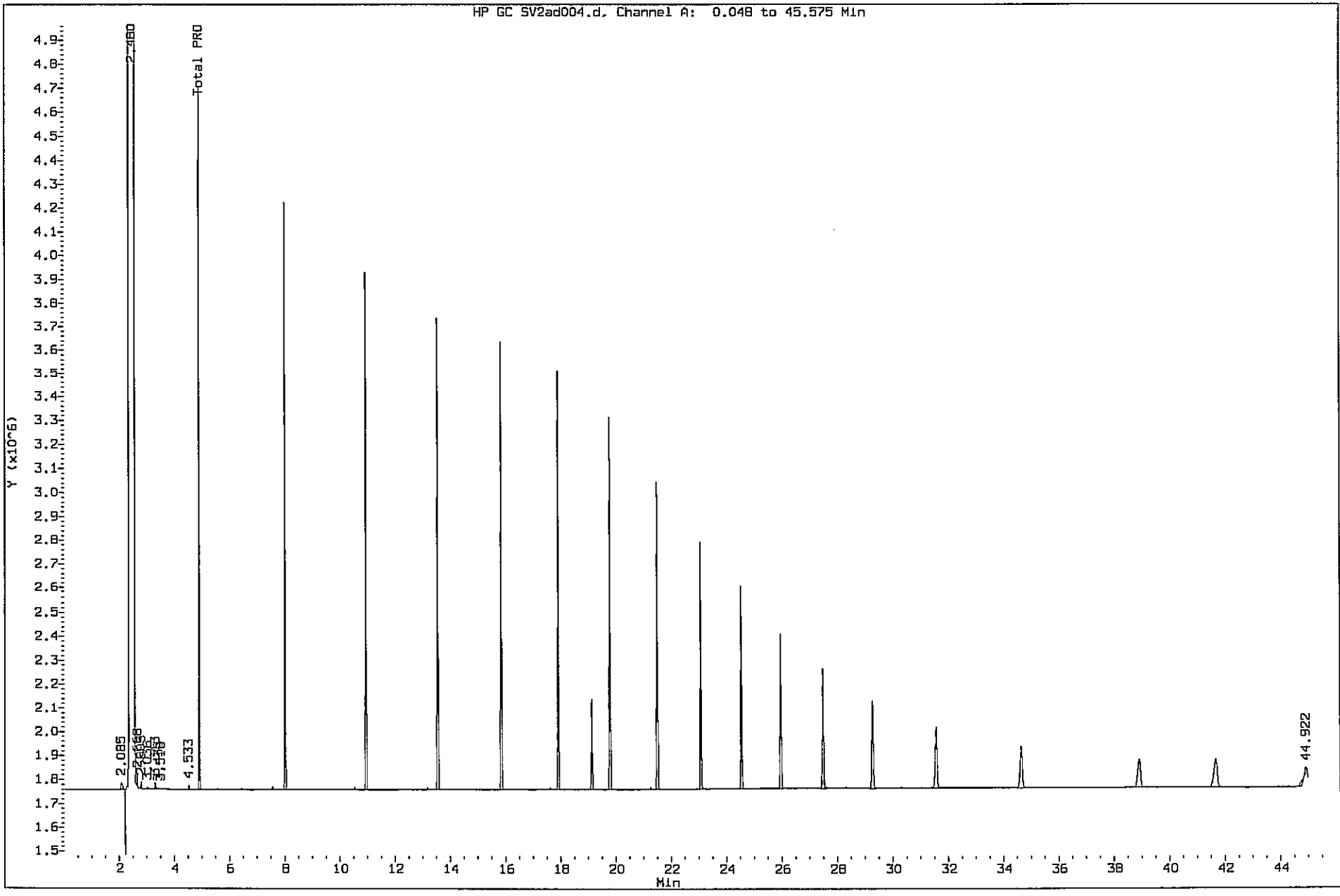
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

pnd Variable Local Compound Variable

mpounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
7 O-TERPHENYL	19.148	19.155	-0.007	8786136	50.0000	50.1083
18 Nonatriacontane	41.687	41.692	-0.005	9655262	300.000	338.4738

18441398

Data File: /var/chem/gcsv2ad.i/2030903.b/SV2ad004.d
Injection Date: 03-SEP-2003 13:30
Instrument: gcsv2ad.i
Client Sample ID:



000562

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad005.d
Lab Smp Id: 350 PPM
Inj Date : 03-SEP-2003 14:27
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 350 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flpro.m
Meth Date : 03-Sep-2003 15:21 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 14:27 Cal File: SV2ad005.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.913	4.912	0.001	479778342	5950.00	3993.0367(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{479{,}778{,}342 - 149{,}71{,}304}{5950} \quad 78119$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad005S.d
Lab Smp Id: 350 PPM
Inj Date : 03-SEP-2003 14:27
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 350 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flsur.m
Meth Date : 03-Sep-2003 15:16 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 14:27 Cal File: SV2ad005S.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

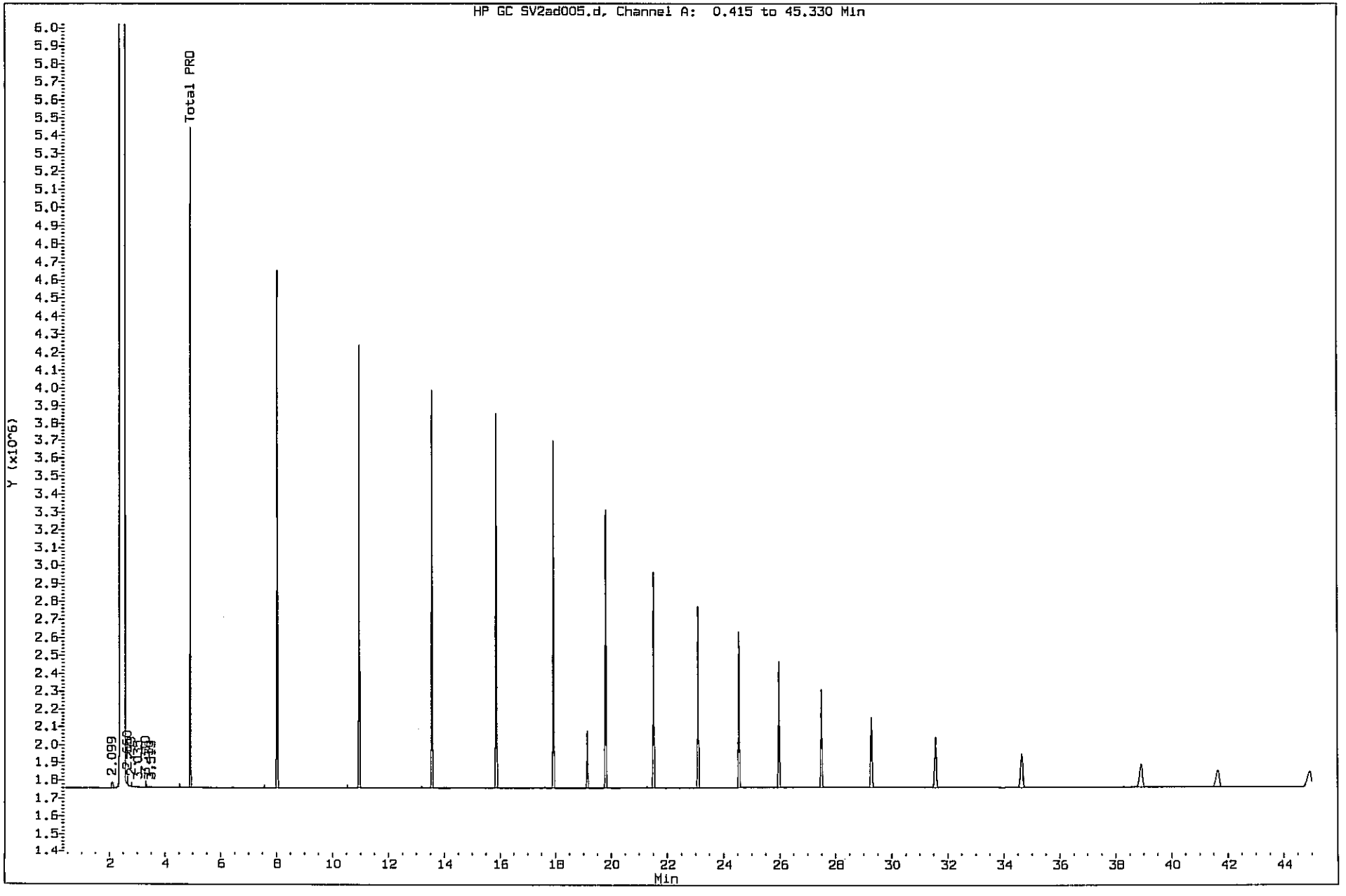
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	19.146	19.155	-0.009	7333512	50.0000	44.1264
$ 18 Nonatriacontane	41.662	41.662	0.000	7637792	300.000	269.8216

14971304

Data File: /var/chem/gcsv2ad.i/2030903.b/SV2ad005.d
Injection Date: 03-SEP-2003 14:27
Instrument: gcsv2ad.i
Client Sample ID:



000565

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad006.d
Lab Smp Id: 500 PPM
Inj Date : 03-SEP-2003 15:24
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 500 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flpro.m
Meth Date : 03-Sep-2003 16:12 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.913	4.912	0.001	611128204	8500.00	5238.9355(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{13140950 - 611128204}{8500} = 70351$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad006S.d
Lab Smp Id: 500 PPM
Inj Date : 03-SEP-2003 15:24
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 500 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flsur.m
Meth Date : 03-Sep-2003 16:10 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

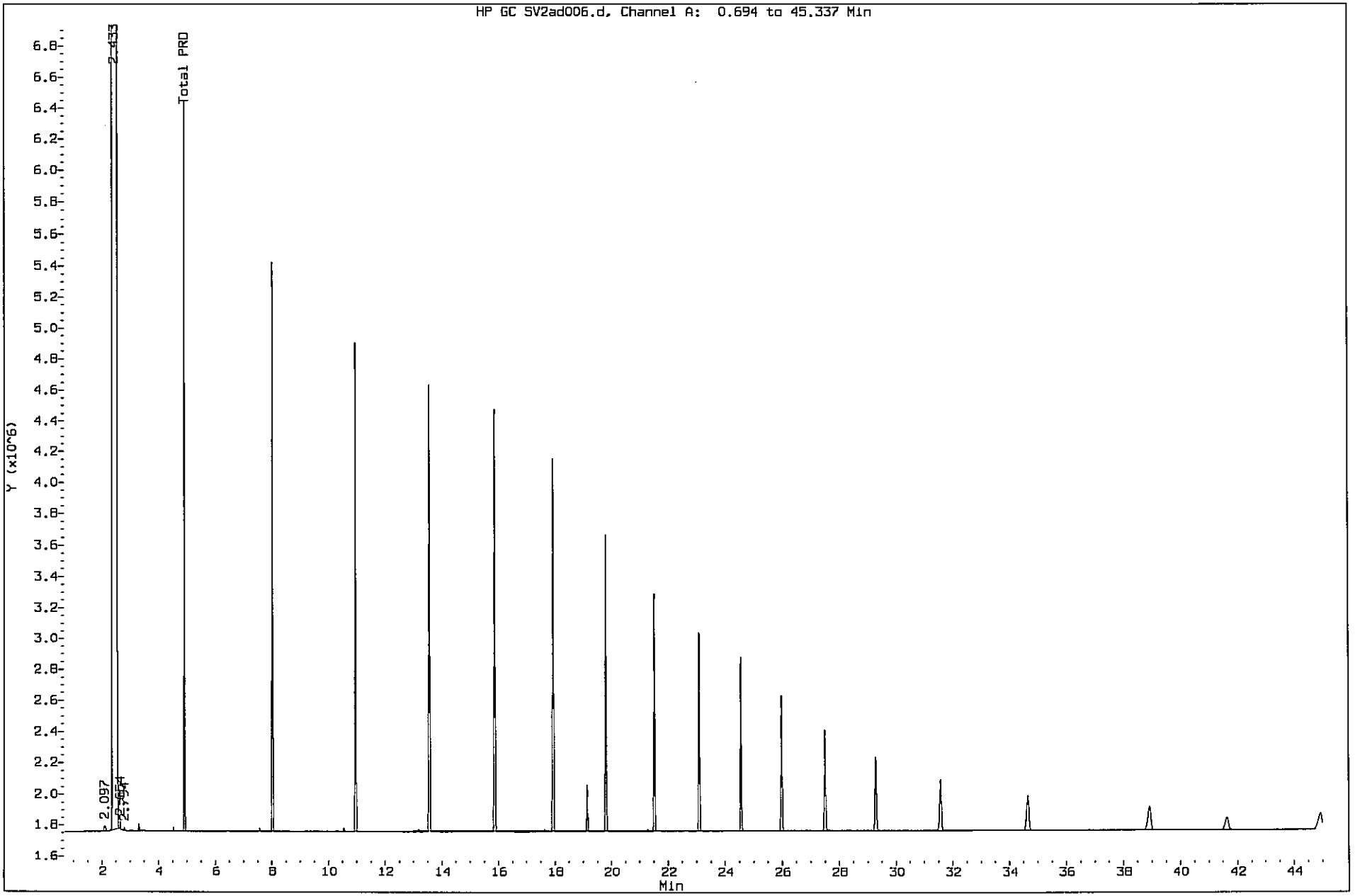
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	19.144	19.155	-0.011	6826741	50.0000	42.1546
$ 18 Nonatriacontane	41.638	41.662	-0.024	6314209	300.000	243.9672

13140950

Data File: /var/chem/gcsv2ad.i/2030903.b/SV2ad006.d
Injection Date: 03-SEP-2003 15:24
Instrument: gcsv2ad.i
Client Sample ID:



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030903.b/SV2ad007.d
Lab Smp Id: 50 PPM ICV
Inj Date : 03-SEP-2003 16:21
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 50 PPM ICV
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030903.b/flpro.m
Meth Date : 03-Sep-2003 17:10 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

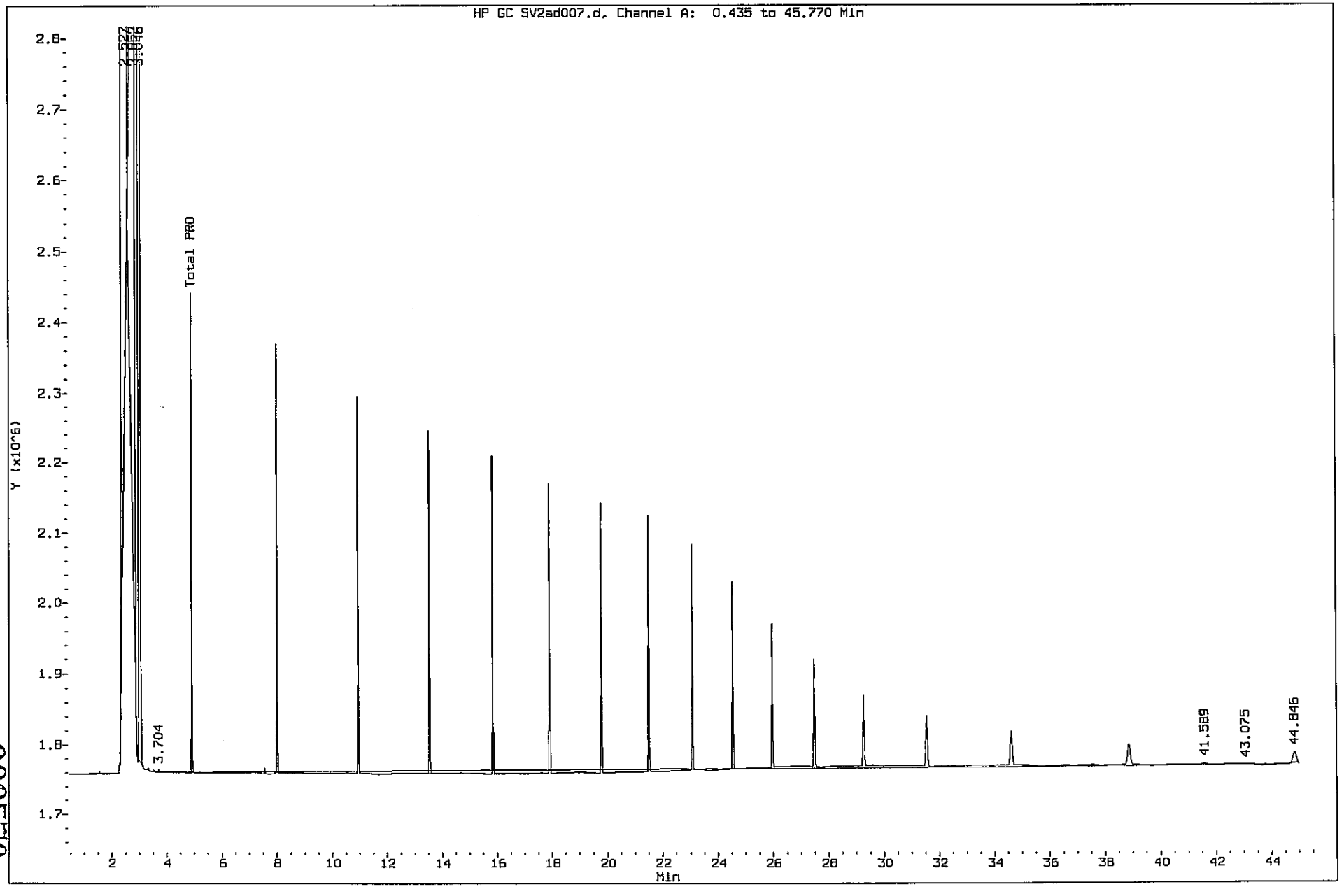
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.910	4.912	-0.002	79486853	850.000	681.4061(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{79486853}{850} = \frac{93514 - 78476}{78476} \cdot 100 = 19\%$$

Data File: /var/chem/gcsv2ad.i/2030903.b/SV2ad007.d
Injection Date: 03-SEP-2003 16:21
Instrument: gcsv2ad.i
Client Sample ID:



000570

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad002.d
Lab Smp Id: 1400
Inj Date : 11-SEP-2003 10:31
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 11-Sep-2003 11:43 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	8.013	5.222	2.791	78567680	850.000	673.5264 (M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{78,567,680 - 10,737,574}{850}$ $\frac{79800 - 78476}{78476}$ .100 = 0.16 %

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad002S.d
Lab Smp Id: 1400
Inj Date : 11-SEP-2003 10:31
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

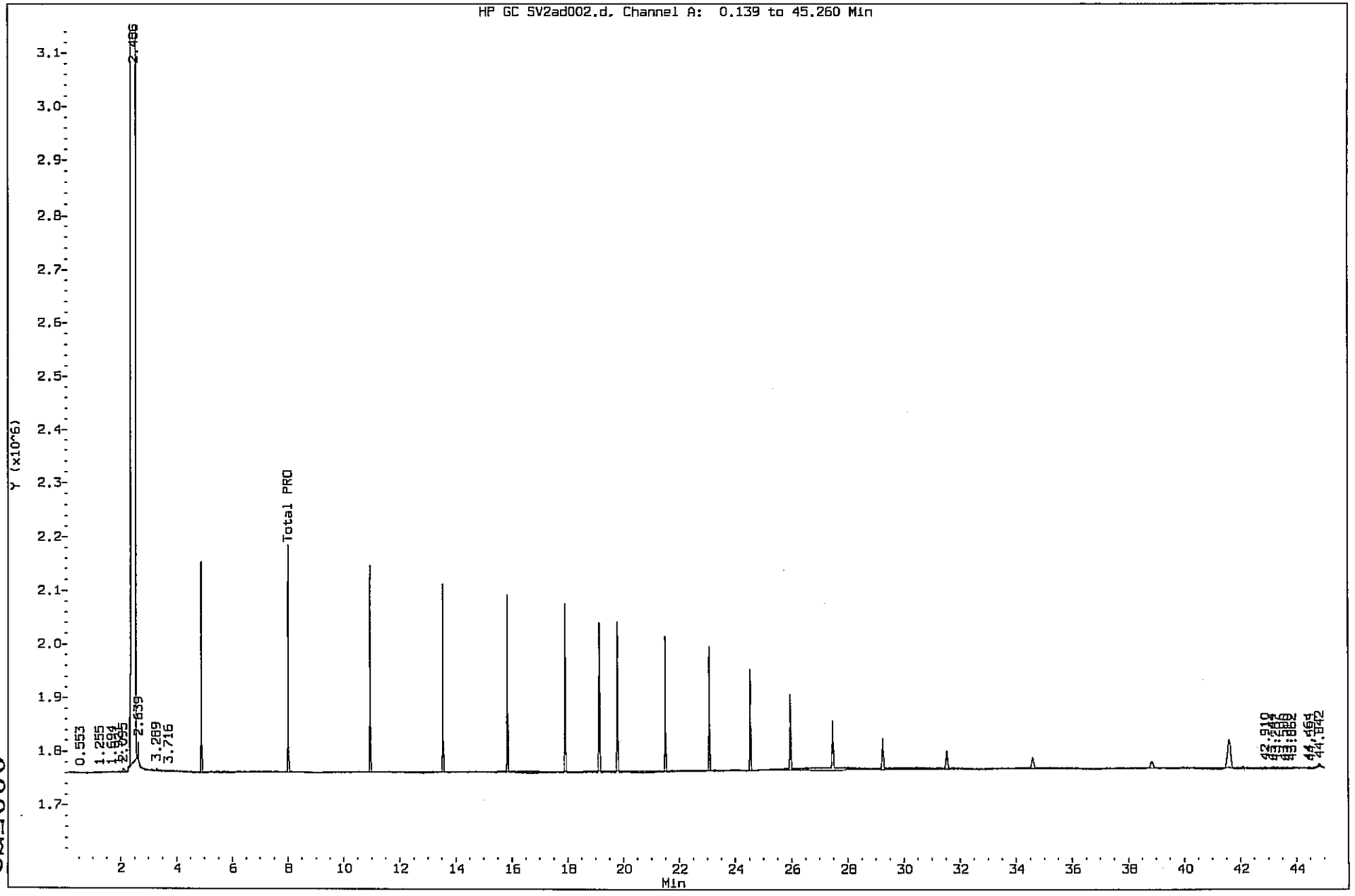
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.144	19.151	-0.007	6435825	39.4479	78.8958
$ 18 Nonatriacontane	41.606	41.659	-0.053	4301749	158.142	316.2830

10737574

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad002.d
Injection Date: 11-SEP-2003 10:31
Instrument: gcsv2ad.i
Client Sample ID:



000573

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad013.d
Lab Smp Id: 1400
Inj Date : 11-SEP-2003 21:09
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 08:31 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.890	7.691	-2.801	77413897	850.000	663.6355(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{77413897 - 13520,880}{850}$ $\frac{75168 - 78476}{78476}$ $\cdot 100 = 4.2\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad013S.d
Lab Smp Id: 1400
Inj Date : 11-SEP-2003 21:09
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

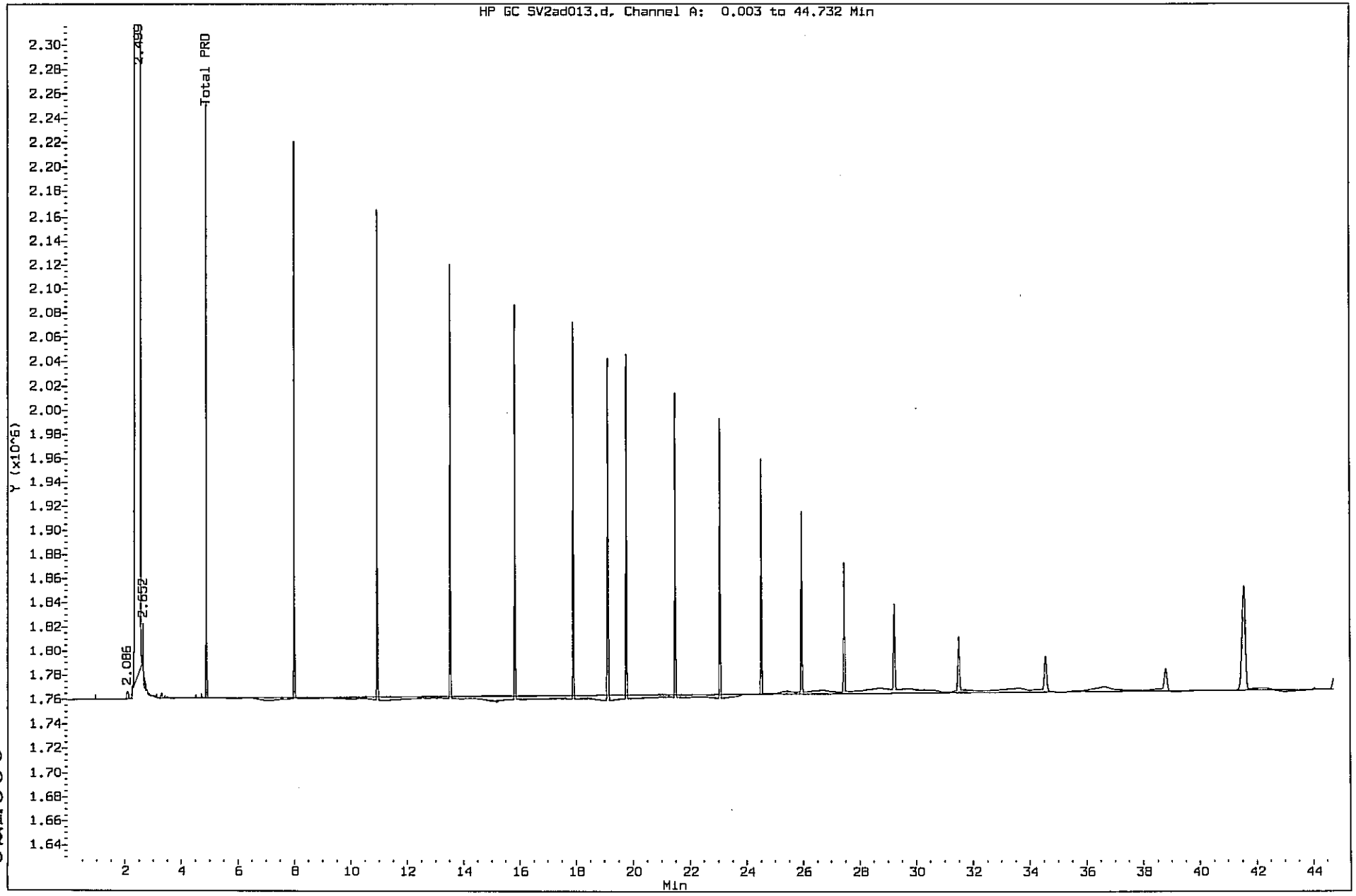
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.131	19.151	-0.020	6507985	39.8902	79.7804
$ 18 Nonatriacontane	41.581	41.659	-0.078	7012895	257.809	515.6180

13,520,880

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad013.d
Injection Date: 11-SEP-2003 21:09
Instrument: gcsv2ad.i
Client Sample ID:



000576

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad014.d
Lab Smp Id: 1400
Inj Date : 12-SEP-2003 08:37
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 09:27 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.905	7.711	-2.806	91396042	850.000	783.4984(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{91396042 - 16{,}077{,}259}{850} \qquad \frac{88610 - 78476}{78476} \cdot 100 = 12.9\%$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad014S.d
Lab Smp Id: 1400
Inj Date : 12-SEP-2003 08:37
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

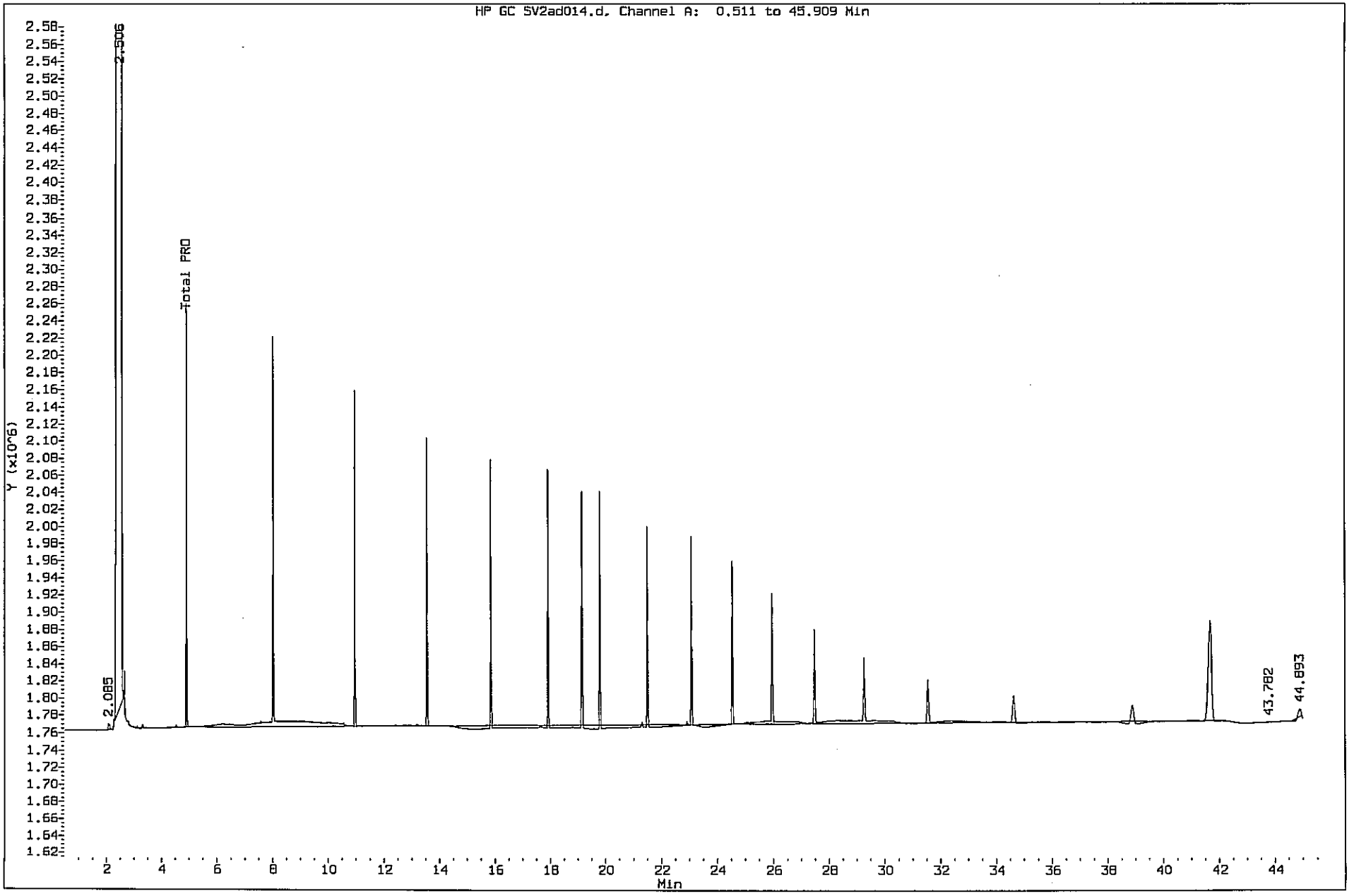
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.152	19.151	0.001	6429738	39.4106	78.8211
$ 18 Nonatriacontane	41.695	41.659	0.036	9647521	354.664	709.3270

16077,259

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad014.d
Injection Date: 12-SEP-2003 08:37
Instrument: gcsv2ad.i
Client Sample ID:



000579

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad021.d
Lab Smp Id: 1400
Inj Date : 12-SEP-2003 14:21
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~---- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 12-Sep-2003 15:11 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.890	7.690	-2.800	82220798	850.000	704.8430(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{82220798 - 14400849}{850}$ $\frac{79788 - 78476}{78476} \cdot 100 = 1.6\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad021S.d
Lab Smp Id: 1400
Inj Date : 12-SEP-2003 14:21
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

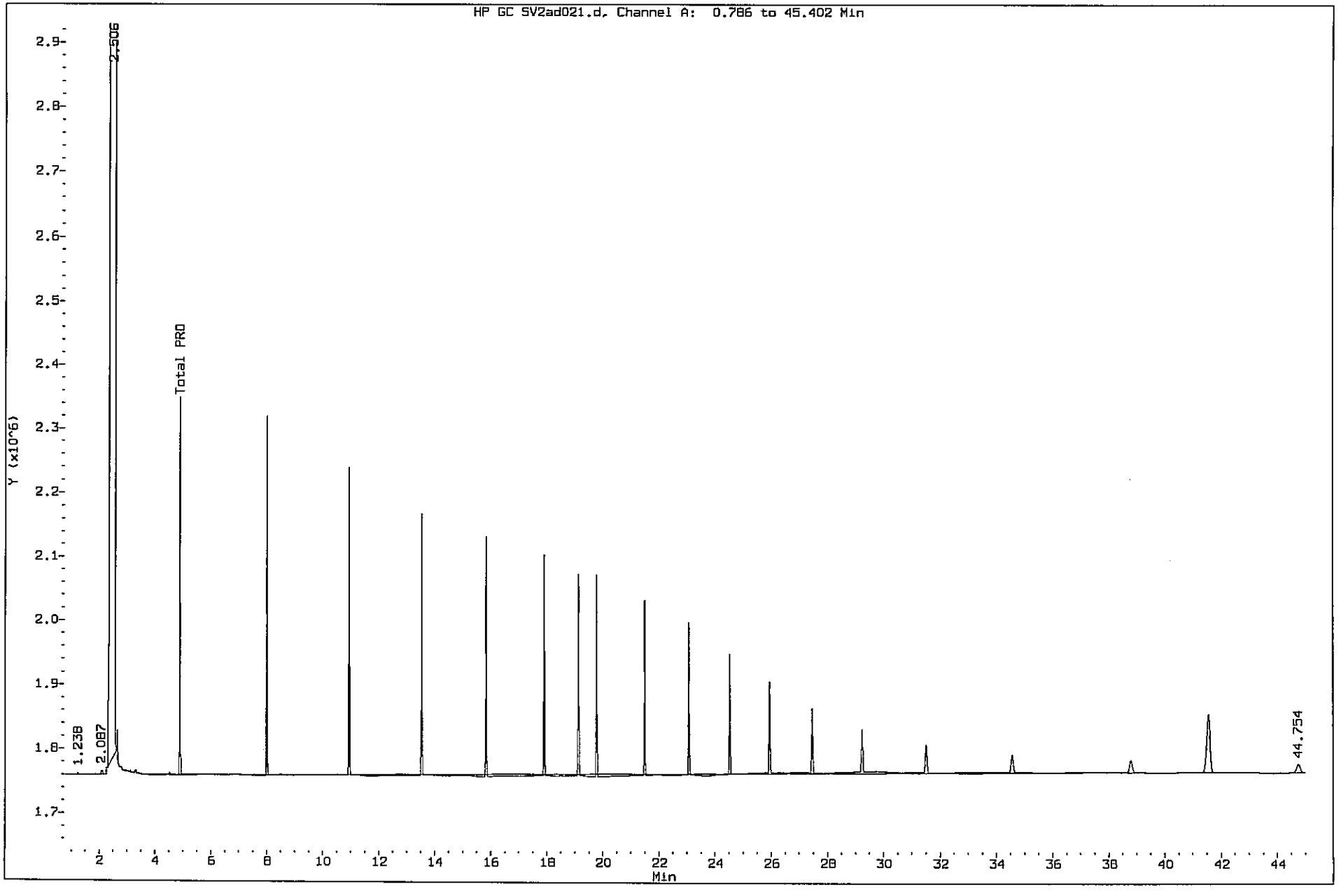
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.131	19.151	-0.020	7131693	43.7132	87.4263
$ 18 Nonatriacontane	41.565	41.659	-0.094	7269156	267.230	534.4594

14400849

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad021.d
Injection Date: 12-SEP-2003 14:21
Instrument: gcsv2ad.i
Client Sample ID:



000582

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad027.d
Lab Smp Id: 1400
Inj Date : 12-SEP-2003 21:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV-27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 08:21 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.892	7.690	-2.798	82280729	850.000	705.3568(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{82280729 - 13,786,317}{850}$$

$$\frac{80582 - 78476}{78476} \cdot 100 = 2.6\%$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad027S.d
Lab Smp Id: 1400
Inj Date : 12-SEP-2003 21:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

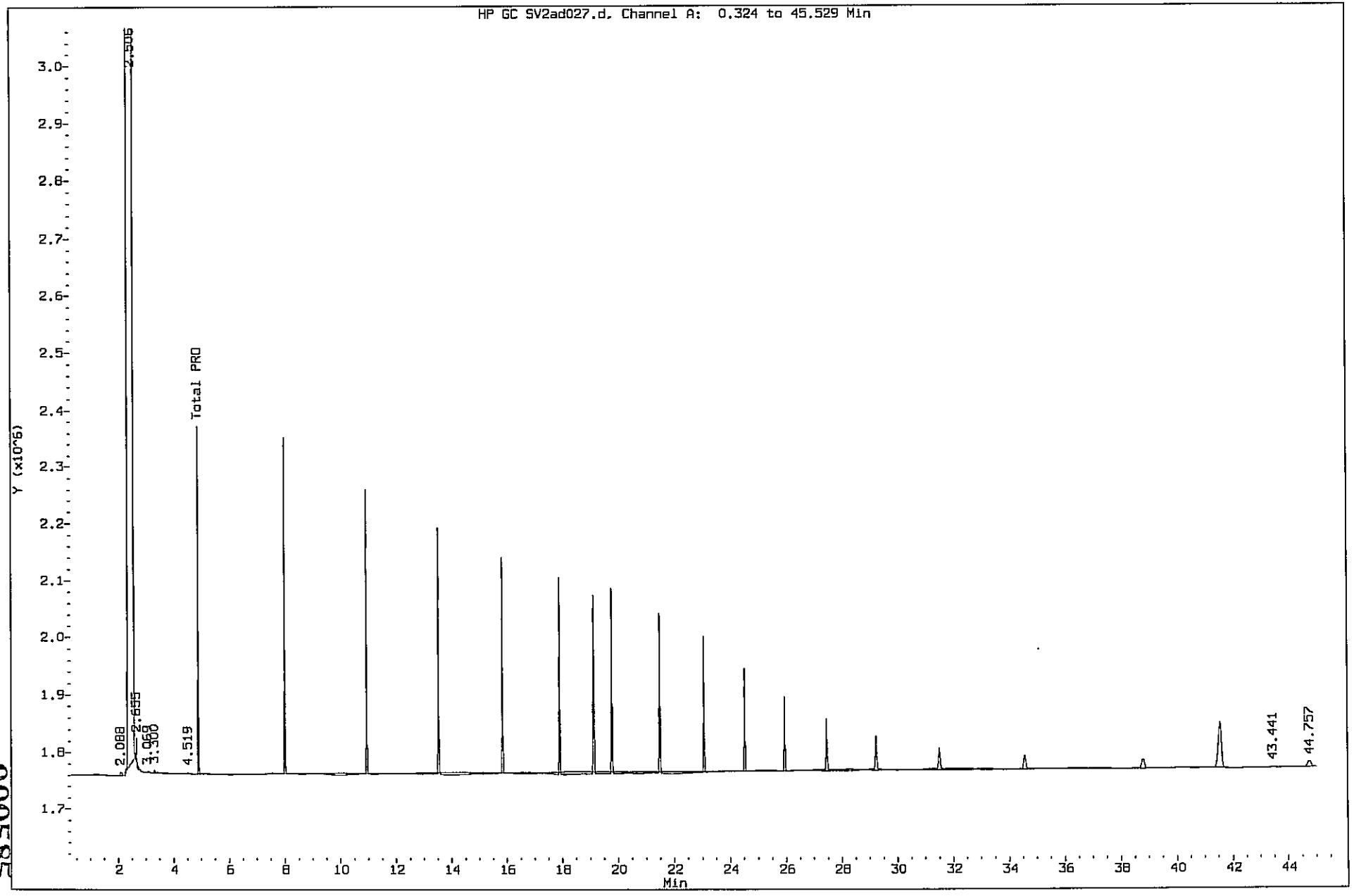
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.130	19.151	-0.021	7296118	44.7210	89.4420
$ 18 Nonatriacontane	41.570	41.659	-0.089	6490199	238.594	477.1872

13,786,317

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad027.d
Injection Date: 12-SEP-2003 21:14
Instrument: gcsv2ad.i
Client Sample ID:



000585

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad028.d
Lab Smp Id: 1400
Inj Date : 13-SEP-2003 09:55
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 10:51 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.898	10.344	-5.446	87560317	850.000	750.6164(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{87,560317 - 15,343,896}{850}$ $\frac{84960 - 78476}{78476} \cdot 100 = 8.2\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad028S.d
Lab Smp Id: 1400
Inj Date : 13-SEP-2003 09:55
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

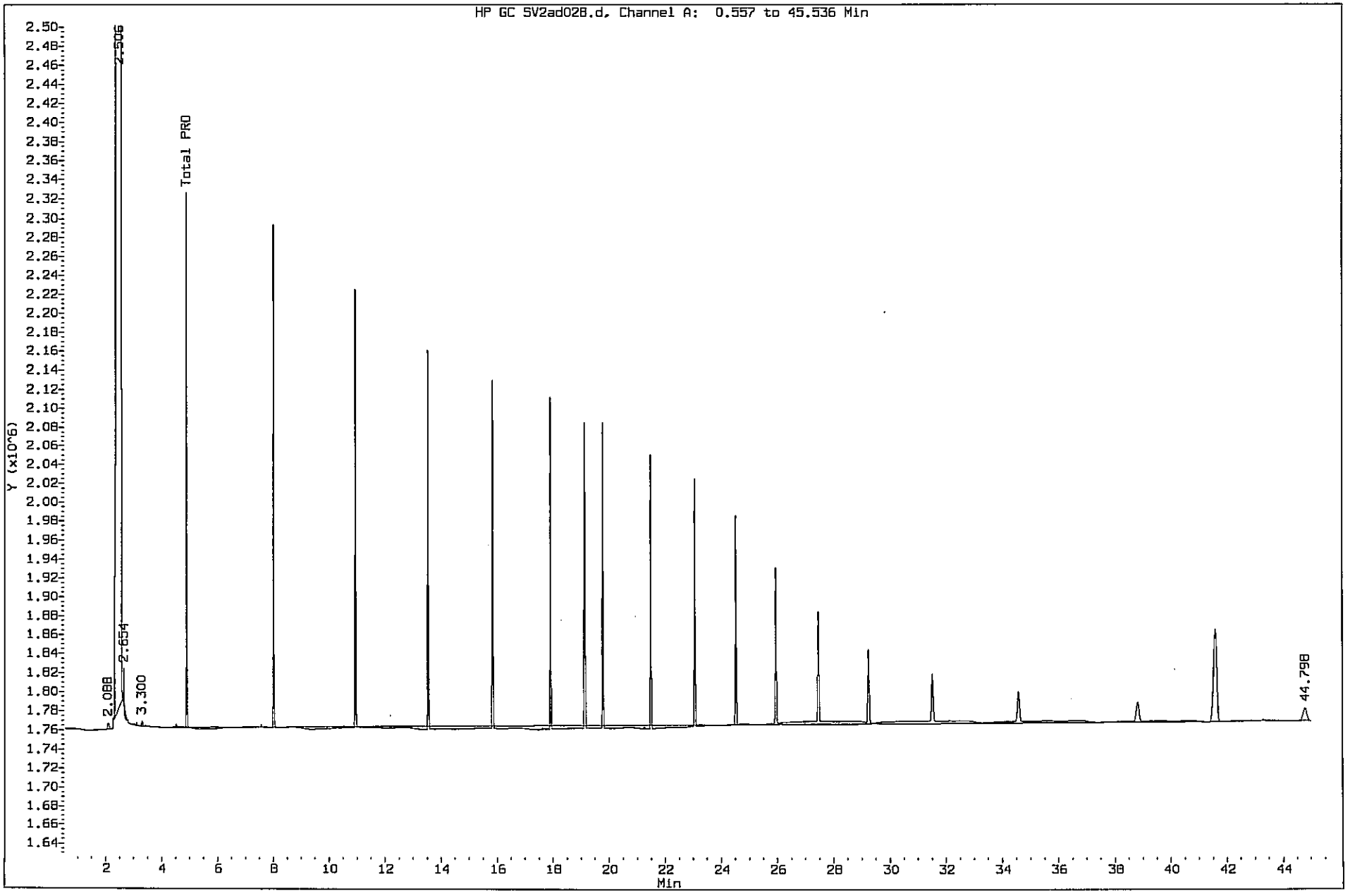
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	19.142	19.151	-0.009	7354099	45.0764	90.1527
$ 18 Nonatriacontane	41.608	41.659	-0.051	7989797	293.722	587.4440

15,343,896

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad028.d
Injection Date: 13-SEP-2003 09:55
Instrument: gcsv2ad.i
Client Sample ID:



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad030.d
Lab Smp Id: 1400
Inj Date : 13-SEP-2003 11:51
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 12:39 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	4.887	7.688	-2.801	96158555	850.000	824.3253(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{96,158,555 - 16,391,970}{850}$ $\frac{93843 - 78476}{78476} \cdot 100 = 19.5\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad030S.d
Lab Smp Id: 1400
Inj Date : 13-SEP-2003 11:51
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~27xx~--- 50 ppm flpro
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

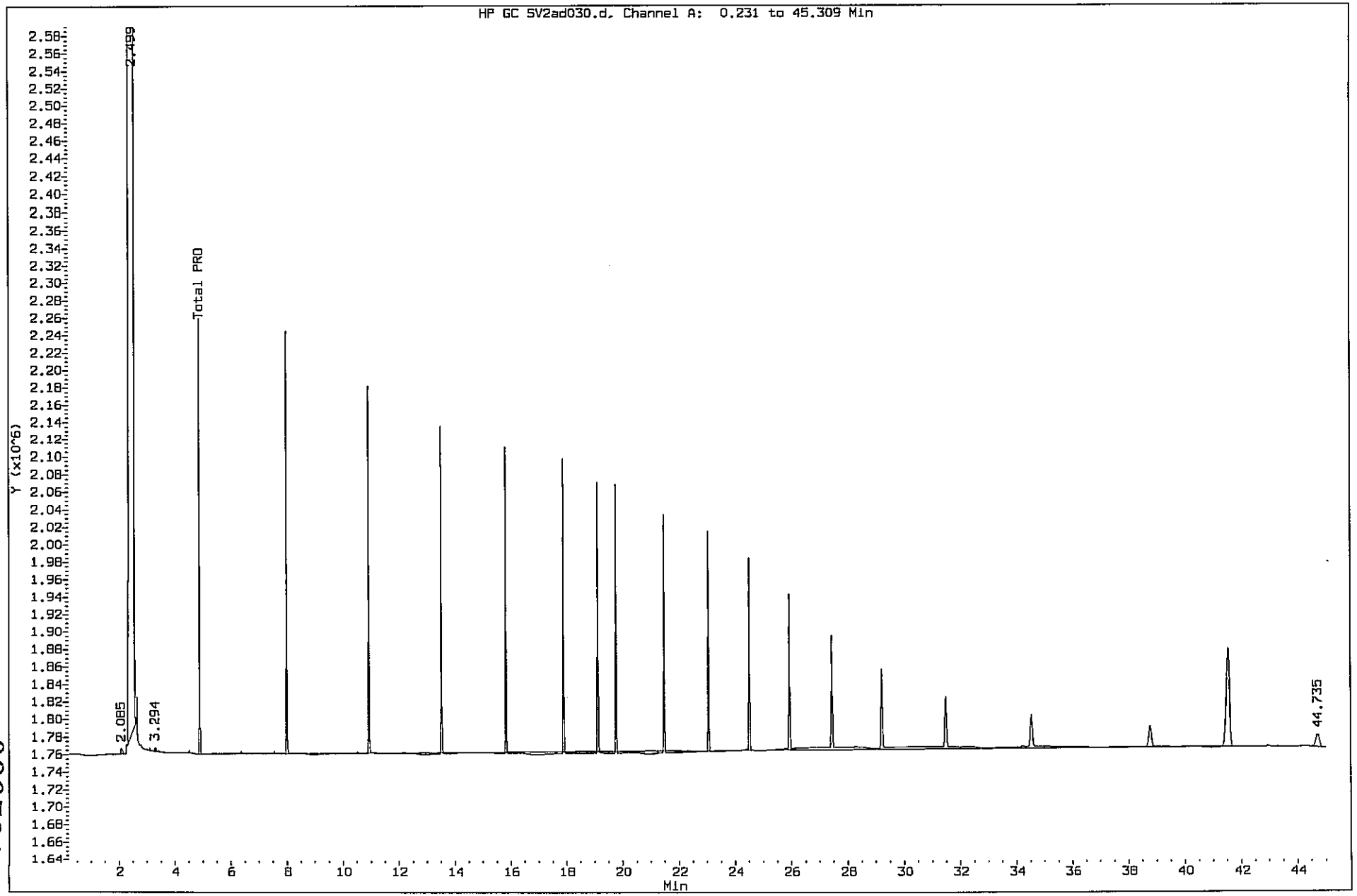
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.128	19.151	-0.023	7053317	43.2328	86.4655
$ 18 Nonatriacontane	41.558	41.659	-0.101	9338653	343.309	686.6177

16,391,970

Data File: /var/chem/gcsv2ad.i/2030911.b/5V2ad030.d
Injection Date: 13-SEP-2003 11:51
Instrument: gcsv2ad.i
Client Sample ID:



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad003.d
Lab Smp Id: 118327
Inj Date : 11-SEP-2003 11:54
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118327-1.0-GCSV~29xx~-2030910blk--blk 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 11-Sep-2003 11:43 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.143	5.222	13.921	12214866	104.713	8377.0174 (M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{12214866 - 8974225}{78476} \cdot \frac{2}{25} \cdot 1000 = 3303 \text{ ug/Kg}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad003s.d
Lab Smp Id: 118327
Inj Date : 11-SEP-2003 11:54
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118327-1.0-GCSV-29xx--2030910blk--blk 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

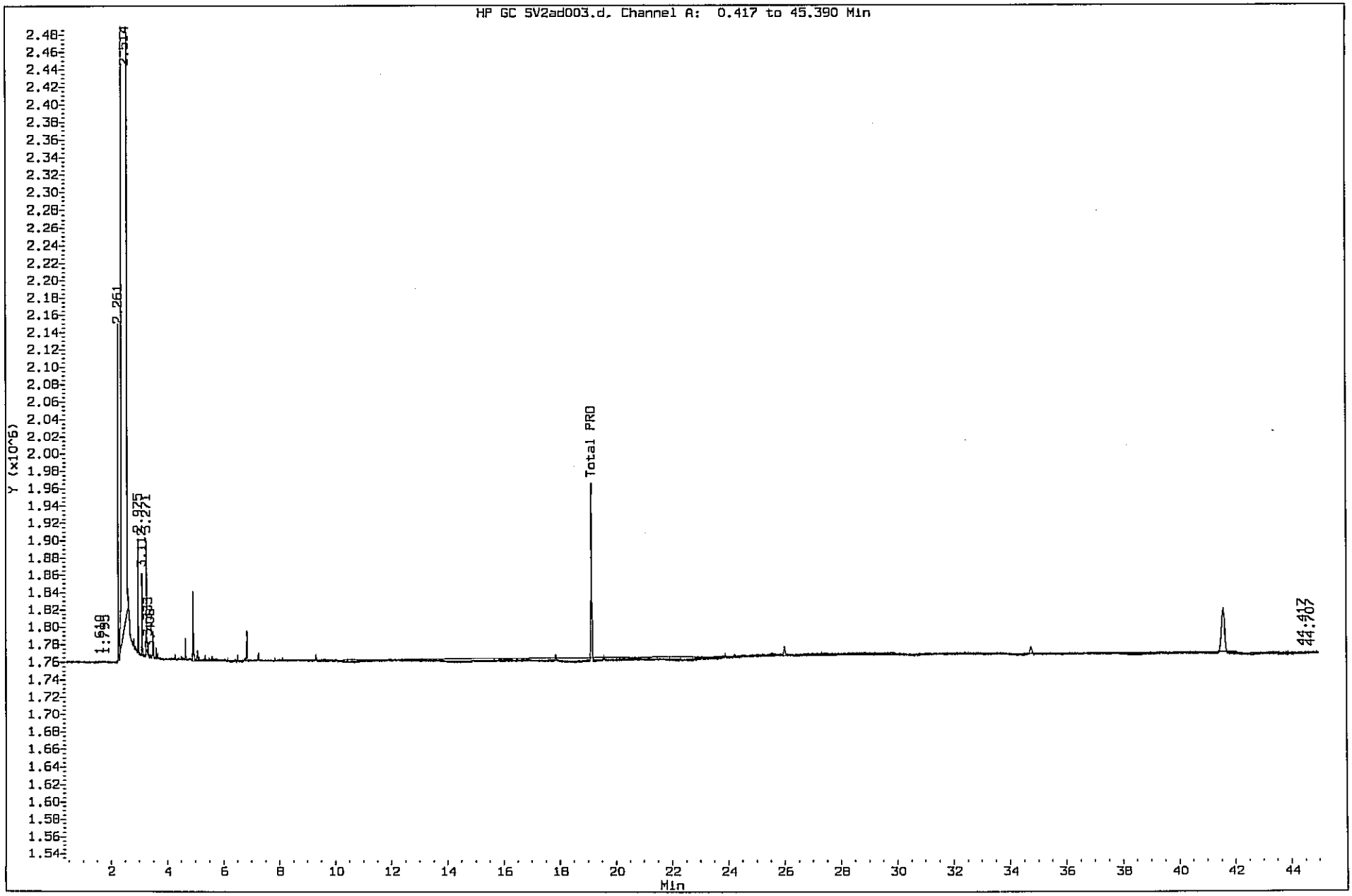
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.143	19.151	-0.008	4759863	29.1752	2334.0176(R)
$ 18 Nonatriacontane	41.604	41.659	-0.055	4214362	154.929	12394.3174(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

8974225

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad003.d
Injection Date: 11-SEP-2003 11:54
Instrument: gcsv2ad.i
Client Sample ID:



000594

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad022.d
Lab Smp Id: 118519
Inj Date : 12-SEP-2003 16:40
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118519-1.0-GCSV~29xx~-2030912blk--blk 1000 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 08:21 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 22 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	19.145	7.690	11.455	11554308	99.0500	198.1000(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{11,554,308 - 8,855,966}{78476} \cdot \frac{2}{1000} \cdot 1000 = 68.7 \text{ ug/L}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad022s.d
Lab Smp Id: 118519
Inj Date : 12-SEP-2003 16:40
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118519-1.0-GCSV~29xx~-2030912blk--blk 1000 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 22 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

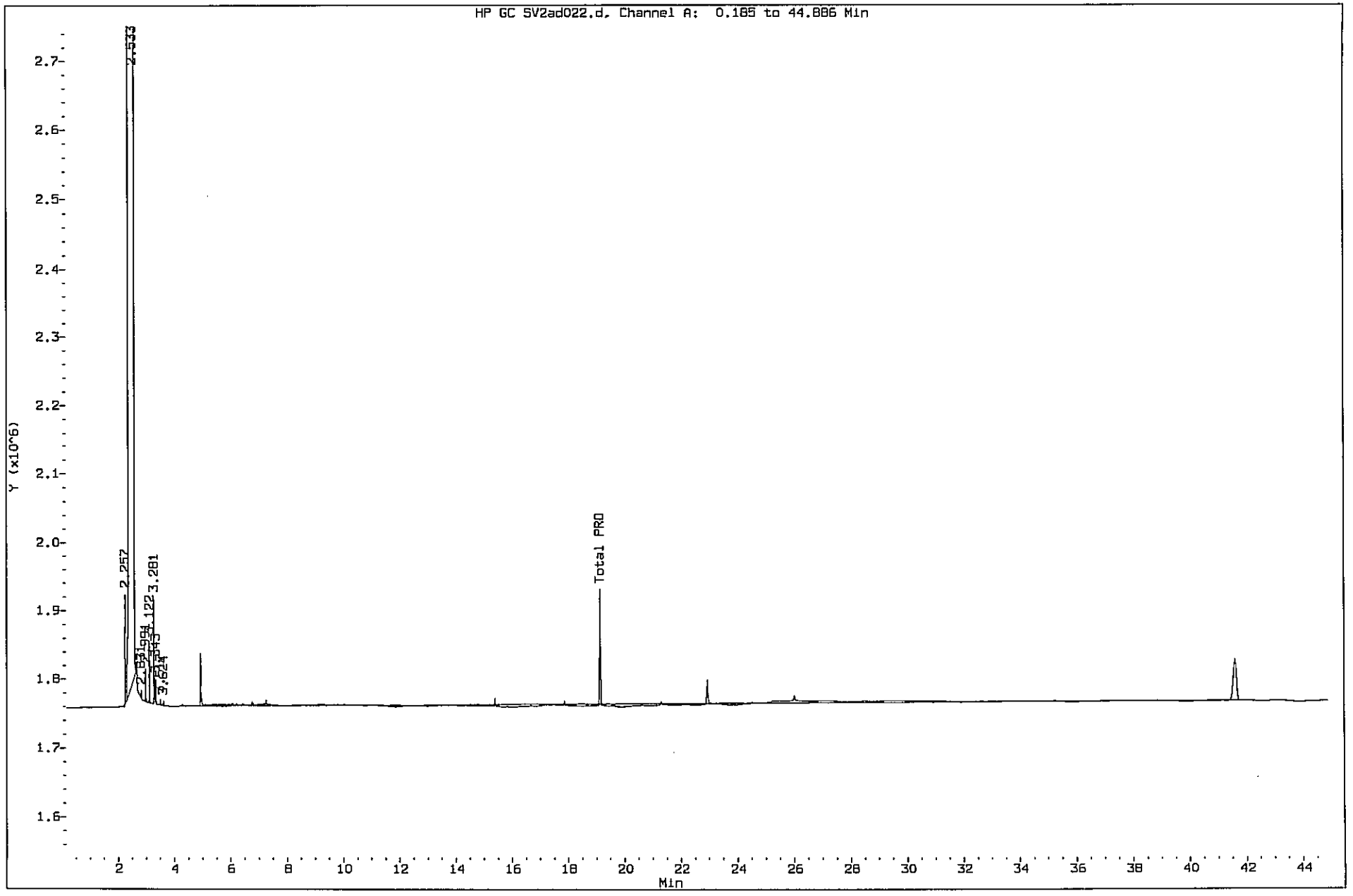
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	19.145	19.151	-0.006	3912925	23.9840	47.9679
$ 18 Nonatriacontane	41.604	41.659	-0.055	4943041	181.717	363.4335

8,855,966

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad022.d
Injection Date: 12-SEP-2003 16:40
Instrument: gcsv2ad.i
Client Sample ID:



000597

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad004.d
Lab Smp Id: 118328
Inj Date : 11-SEP-2003 12:49
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118328-1.0-GCSV~29xx~~2030910lcs--lcs 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 11-Sep-2003 11:43 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	8.003	5.222	2.781	73807859	632.723	50617.8066(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{73807859 - 8981737}{78476} \cdot \frac{2}{25} \cdot 1000 = 66{,}100$ ug/K

97.2%

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad004s.d
Lab Smp Id: 118328
Inj Date : 11-SEP-2003 12:49
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118328-1.0-GCSV~29xx~-2030910lcs--lcs 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

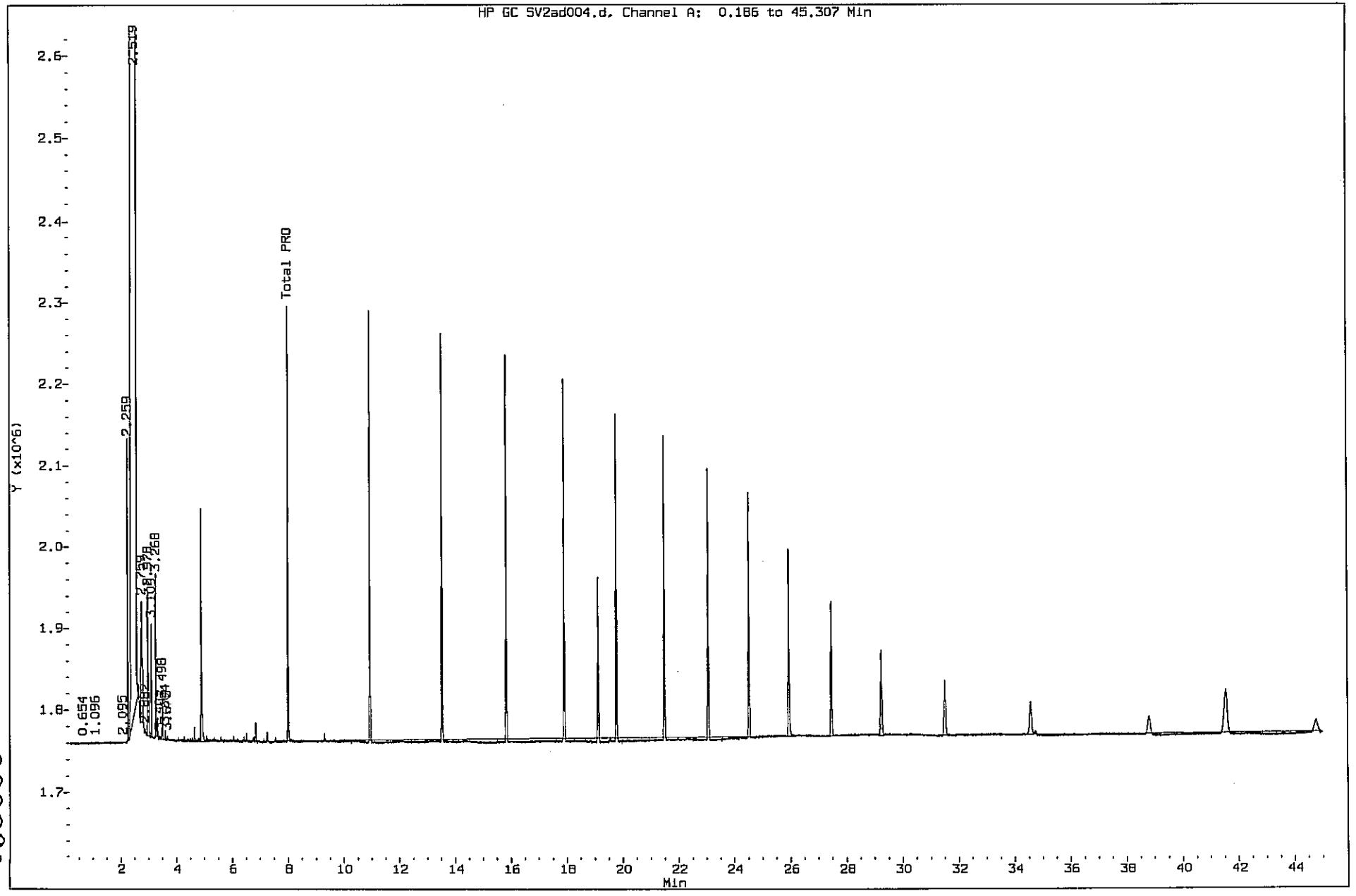
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.131	19.151	-0.020	4668110	28.6128	2289.0262(R)
$ 18 Nonatriacontane	41.558	41.659	-0.101	4313627	158.578	12686.2529(R)

QC Flag Legend

8981737

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad004.d
Injection Date: 11-SEP-2003 12:49
Instrument: gcsv2ad.i
Client Sample ID:



009000

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad023.d
Lab Smp Id: 118520
Inj Date : 12-SEP-2003 17:35
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118520-1.0-GCSV~29xx~-2030912lcs--lcs 1000 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 12:39 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 23 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	8.002	7.688	0.314	85614797	733.938	1467.8766(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{85614797 - 7509093}{78476} \cdot \frac{2}{1000} \cdot 1000 = 1991 \text{ ug/L}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad023s.d
Lab Smp Id: 118520
Inj Date : 12-SEP-2003 17:35
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118520-1.0-GCSV~29xx~-2030912lcs--lcs 1000 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 23 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

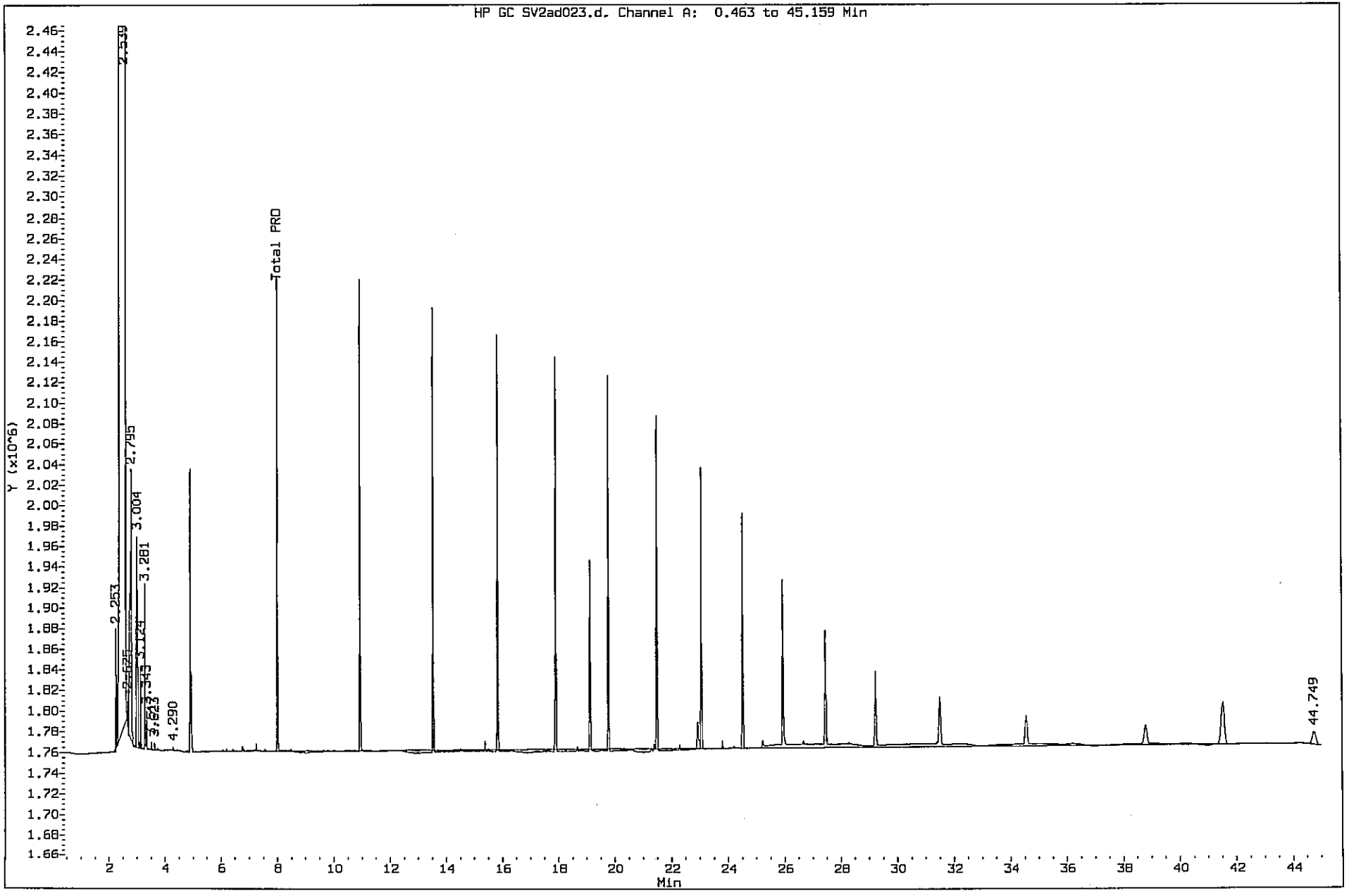
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.129	19.151	-0.022	4239504	25.9857	51.9714
$ 18 Nonatriacontane	41.540	41.659	-0.119	3269589	120.197	240.3941

7,569,093

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad023.d
Injection Date: 12-SEP-2003 17:35
Instrument: gcsv2ad.i
Client Sample ID:



000603

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad024.d
Lab Smp Id: 118521
Inj Date : 12-SEP-2003 18:30
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118521-1.0-GCSV~29xx~-2030912lcsd--lcsd 1000 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 13-Sep-2003 12:39 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 24 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.935	7.688	3.247	77524386	664.583	1329.1655(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{77524386 - 7459916}{78476} \cdot \frac{2}{1000} \cdot 1000 = 1786$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad024s.d
Lab Smp Id: 118521
Inj Date : 12-SEP-2003 18:30
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 118521-1.0-GCSV~29xx~-2030912lcsd--lcsd 1000 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 24 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

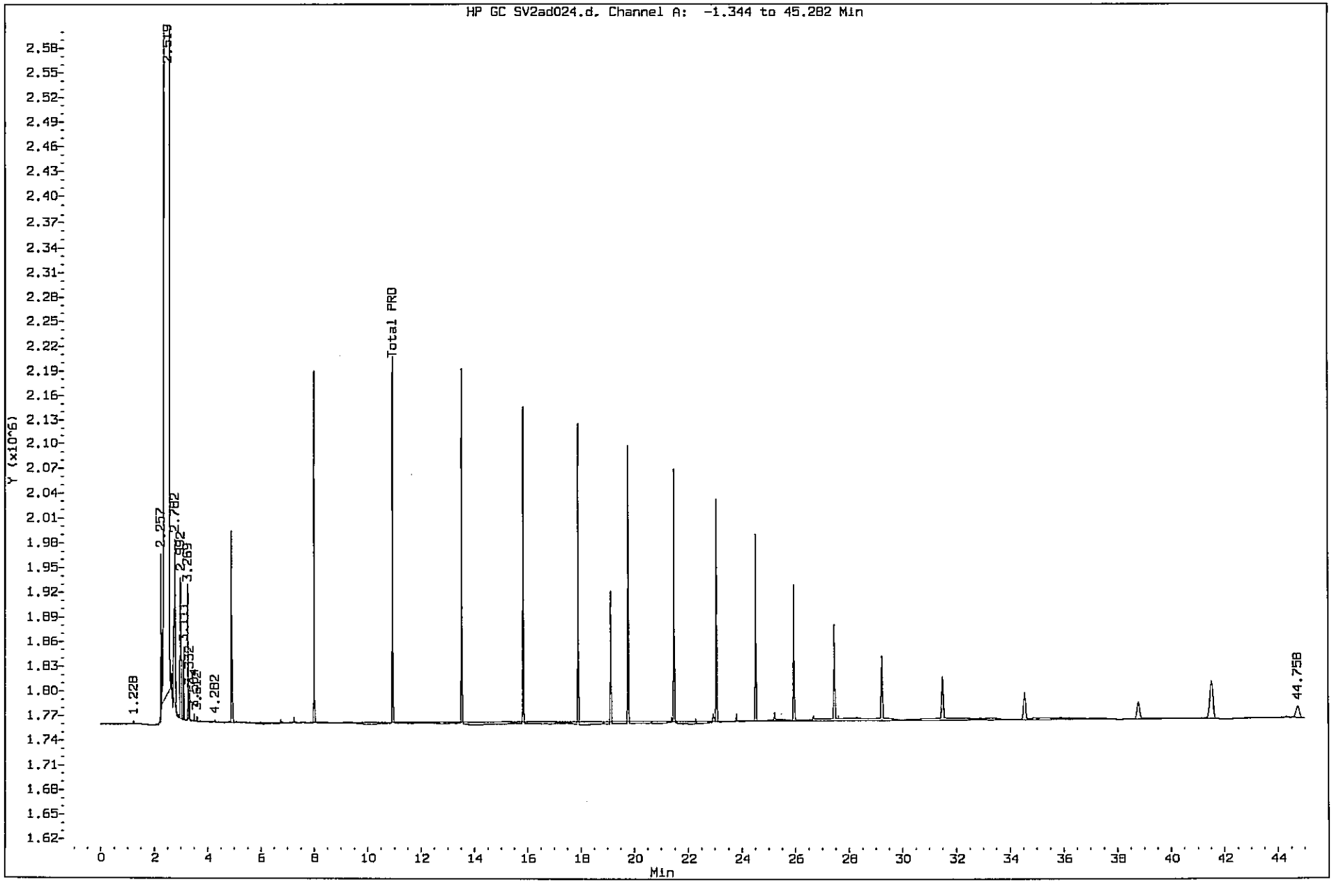
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.128	19.151	-0.023	3716947	22.7827	45.5654
$ 18 Nonatriacontane	41.533	41.659	-0.126	3742969	137.600	275.1991

7,459,916

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad024.d
Injection Date: 12-SEP-2003 18:30
Instrument: gcsv2ad.i
Client Sample ID:



909000

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad006.d
Lab Smp Id: 20309100802
Inj Date : 11-SEP-2003 14:40
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100802-1.0-GCSV~29xx~-203091008-- MS ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 11-Sep-2003 11:43 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	8.003	5.222	2.781	100776702	863.915	69113.1769(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{100,776,702 - 9,564,284}{78476} \cdot \frac{2}{25} \cdot 1000 = 92,900 / 68,000 \cdot 100 = 136\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad006s.d
Lab Smp Id: 20309100802
Inj Date : 11-SEP-2003 14:40
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100802-1.0-GCSV~29xx~-203091008-- MS ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

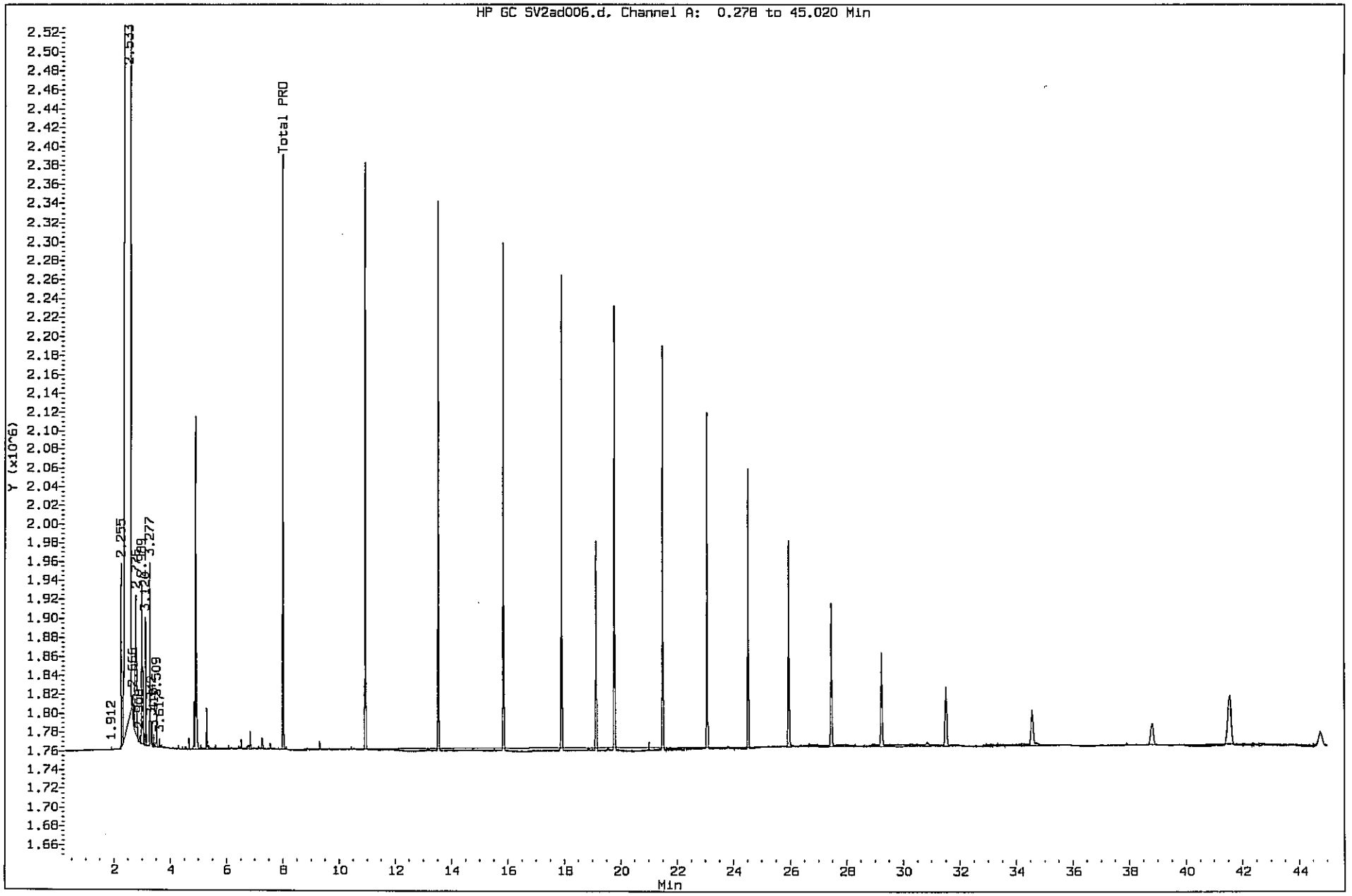
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.130	19.151	-0.021	5144144	31.5306	2522.4514
$ 18 Nonatriacontane	41.557	41.659	-0.102	4420140	162.494	12999.5046(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 9,564,284

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad006.d
Injection Date: 11-SEP-2003 14:40
Instrument: gcsv2ad.i
Client Sample ID:



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad007.d
Lab Smp Id: 20309100803
Inj Date : 11-SEP-2003 15:35
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100803-1.0-GCSV~29xx~-203091008-- MSD ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flpro.m
Meth Date : 11-Sep-2003 11:43 tls Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	8.002	5.222	2.780	94569911	810.707	64856.5279(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{94,569,911 - 8,338,155}{78476} \cdot \frac{2}{25} \cdot 1000 = 87,900 / 68,000 \cdot 100 = 129\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2030911.b/SV2ad007s.d
Lab Smp Id: 20309100803
Inj Date : 11-SEP-2003 15:35
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20309100803-1.0-GCSV~29xx~-203091008-- MSD ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2030911.b/flsur.m
Meth Date : 09-Sep-2003 08:55 dlb Quant Type: ESTD
Cal Date : 03-SEP-2003 15:24 Cal File: SV2ad006S.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

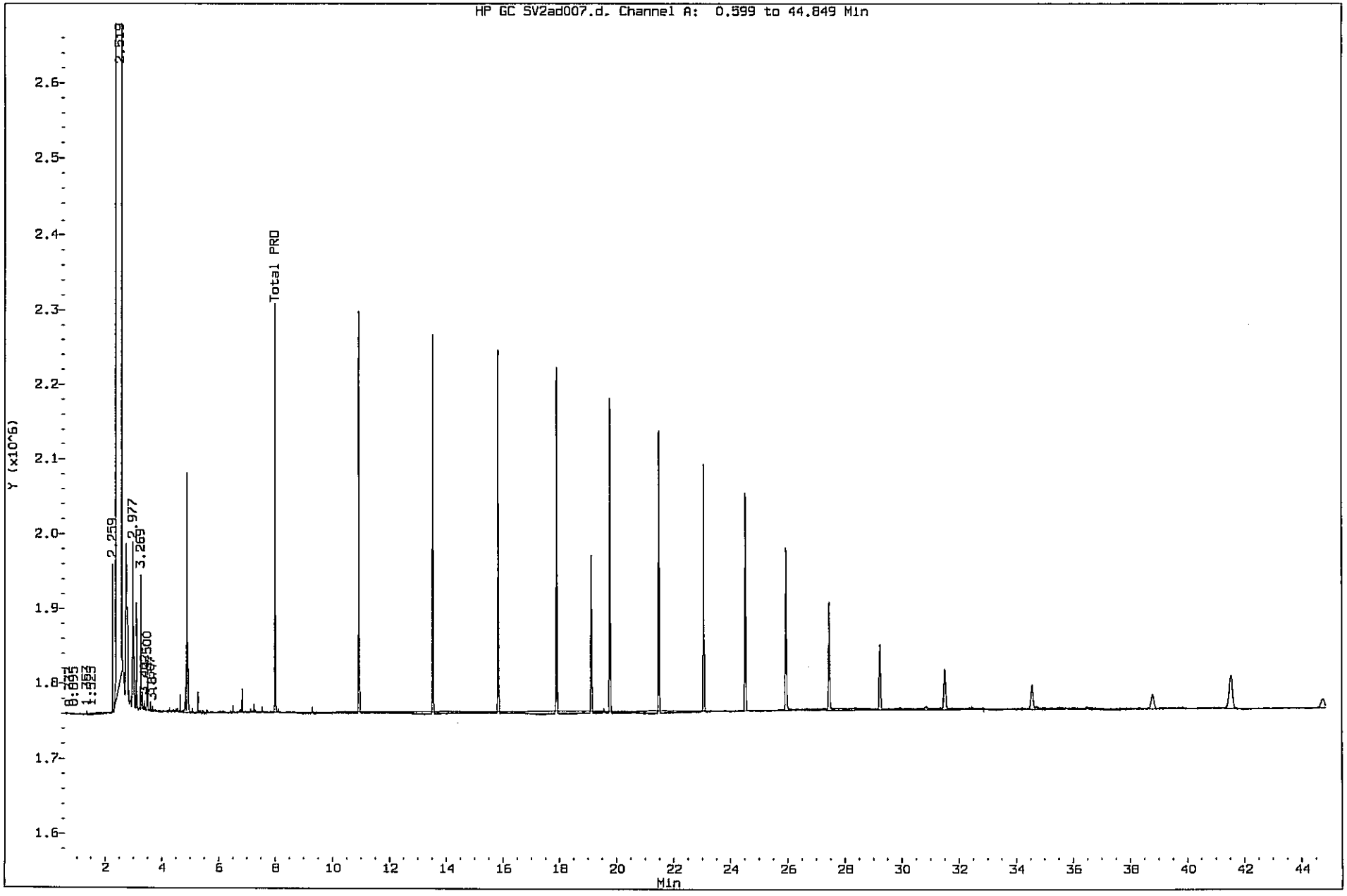
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.130	19.151	-0.021	4851397	29.7363	2378.9017(R)
$ 18 Nonatriacontane	41.549	41.659	-0.110	3486758	128.181	10254.4550(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 8,338,155

Data File: /var/chem/gcsv2ad.i/2030911.b/SV2ad007.d
Injection Date: 11-SEP-2003 15:35
Instrument: gcsv2ad.i
Client Sample ID:



0006612

LABORATORY CHRONICLE: GCSV DEPARTMENT

ate: 09/13/2003
nstrument: gcsv2ad.i
ethod File: /var/chem/gcsv2ad.i/2030911.b/flpro.m
atch: /var/chem/gcsv2ad.i/2030911.b
olumn-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
		SV2ad001.d	11-SEP-2003 09:17	1.000	tls	
1400		SV2ad002.d	11-SEP-2003 10:31	1.000	tls	
1400		SV2ad002S.d	11-SEP-2003 10:31	1.000	tls	
118327		SV2ad003.d	11-SEP-2003 11:54	1.000	tls	
118327		SV2ad003s.d	11-SEP-2003 11:54	1.000	tls	
118328		SV2ad004.d	11-SEP-2003 12:49	1.000	tls	
118328		SV2ad004s.d	11-SEP-2003 12:49	1.000	tls	
20309100801		SV2ad005.d	11-SEP-2003 13:44	1.000	tls	
20309100801		SV2ad005s.d	11-SEP-2003 13:44	1.000	tls	
20309100802		SV2ad006.d	11-SEP-2003 14:40	1.000	tls	
20309100802		SV2ad006s.d	11-SEP-2003 14:40	1.000	tls	
20309100803		SV2ad007.d	11-SEP-2003 15:35	1.000	tls	
20309100803		SV2ad007s.d	11-SEP-2003 15:35	1.000	tls	
20309100804		SV2ad008.d	11-SEP-2003 16:30	1.000	tls	
20309100804		SV2ad008s.d	11-SEP-2003 16:30	1.000	tls	
20309100805		SV2ad009.d	11-SEP-2003 17:29	1.000	tls	
20309100805		SV2ad009s.d	11-SEP-2003 17:29	1.000	tls	
20309100806		SV2ad010.d	11-SEP-2003 18:24	1.000	tls	
20309100806		SV2ad010s.d	11-SEP-2003 18:24	1.000	tls	
20309100807		SV2ad011.d	11-SEP-2003 19:19	1.000	tls	
20309100807		SV2ad011s.d	11-SEP-2003 19:19	1.000	tls	
20309100808		SV2ad012.d	11-SEP-2003 20:14	1.000	tls	
20309100808		SV2ad012s.d	11-SEP-2003 20:14	1.000	tls	
1400		SV2ad013.d	11-SEP-2003 21:09	1.000	tls	
1400		SV2ad013S.d	11-SEP-2003 21:09	1.000	tls	
1400		SV2ad014.d	12-SEP-2003 08:37	1.000	tls	
1400		SV2ad014S.d	12-SEP-2003 08:37	1.000	tls	
20309100807		SV2ad015.d	12-SEP-2003 09:33	100.000	tls	
20309100807		SV2ad015s.d	12-SEP-2003 09:33	100.000	tls	
118519		SV2ad016.d	12-SEP-2003 10:41	1.000	tls	
118519		SV2ad016s.d	12-SEP-2003 10:41	1.000	tls	
118520	RE-LCS high	SV2ad017.d	12-SEP-2003 11:36	1.000	tls	
118520		SV2ad017s.d	12-SEP-2003 11:36	1.000	tls	
118521	RE	SV2ad018.d	12-SEP-2003 12:31	1.000	tls	
118521		SV2ad018s.d	12-SEP-2003 12:31	1.000	tls	
		SV2ad019.d	12-SEP-2003 13:26	1.000	tls	

EVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

ate: 09/13/2003
nstrument: gcsv2ad.i
ethod File: /var/chem/gcsv2ad.i/2030911.b/flpro.m
atch: /var/chem/gcsv2ad.i/2030911.b
olumn-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1400		SV2ad021.d	12-SEP-2003 14:21	1.000	tls	
1400		SV2ad021S.d	12-SEP-2003 14:21	1.000	tls	
118519		SV2ad022.d	12-SEP-2003 16:40	1.000	tls	
118519		SV2ad022s.d	12-SEP-2003 16:40	1.000	tls	
118520		SV2ad023.d	12-SEP-2003 17:35	1.000	tls	
118520		SV2ad023s.d	12-SEP-2003 17:35	1.000	tls	
118521		SV2ad024.d	12-SEP-2003 18:30	1.000	tls	
118521		SV2ad024s.d	12-SEP-2003 18:30	1.000	tls	
20309100809		SV2ad025.d	12-SEP-2003 19:25	1.000	tls	
20309100809		SV2ad025s.d	12-SEP-2003 19:25	1.000	tls	
20309100810		SV2ad026.d	12-SEP-2003 20:20	1.000	tls	
20309100810		SV2ad026s.d	12-SEP-2003 20:20	1.000	tls	
1400		SV2ad027.d	12-SEP-2003 21:14	1.000	tls	
1400		SV2ad027S.d	12-SEP-2003 21:14	1.000	tls	
1400		SV2ad028.d	13-SEP-2003 09:55	1.000	tls	
1400		SV2ad028S.d	13-SEP-2003 09:55	1.000	tls	
20309100809		SV2ad029.d	13-SEP-2003 10:56	1.000	tls	
20309100809		SV2ad029s.d	13-SEP-2003 10:56	1.000	tls	
1400		SV2ad030.d	13-SEP-2003 11:51	1.000	tls	
1400		SV2ad030S.d	13-SEP-2003 11:51	1.000	tls	

EVISED 6-1-95 Supervisor Review: QA Review:

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD CONC	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
methAnol ~~EU 8-3-03 TJS~~ ICU	58-31-1	NeAt	mallinckrodt Methyl Alcohol	V079	0.1gm	100mL	1,000 ppm	Dilt20	TLS	8-03-03	1-03-04
8/24/03	dates	7/29/03-	8/3/03	Reviewed			By QA/QC				
8140 mix	58-31-2	5pm-834 200ug/mL	ultrA	50796 07/2004	1mL	50mL	4,000 ppm	Hexane 026733	TLS	8-28-03	1-28-04
O-Terph	58-31-3	1341H-02-04 10,000 mg/mL	NSI	1341H-02-04 01-2005	200uL	1mL	2000ppm	DCM 030609	dlb	9-2-3	3-1-04
FLPRO 6 ppbm dlb	58-31-4	C-443-10 2000 mg/mL IST-680 2000 mg/mL 58-31-3	NSI ultra in house	dlb 3uL C441-10 1/5 T0130 2/07 58-31-3 3/4	3uL 150uL 25uL	1mL	6 ppm 300 ppm 50 ppm	DCM 030609	dlb	9-2-3	3-1-04
FL PRO 50 ppbm dlb	58-31-5	C-443-10 2000 mg/mL IST-680 2000 mg/mL 58-31-3	"	"	25uL 150uL 25uL	1mL	50 ppm 300 ppm 50 ppm	DCM 030609	dlb	9-2-3	3-1-04
FLPRO 150 ppm	58-31-6	C-443-10 2000 mg/mL IST-680 2000 mg/mL 58-31-3	"	"	75uL 150uL 25uL	1mL	150 ppm 300 ppm 50 ppm	DCM 030609	dlb	9-2-3	3-1-04
FLPRO 250 ppm	58-31-7	C-443-10 2000 mg/mL IST-680 2000 mg/mL 58-31-3	"	"	125uL 150uL 25uL	1mL	250 ppm 300 ppm 50 ppm	DCM 030609	dlb	9-2-3	3-1-04
FLPRO 350 ppm	58-31-8	C-443-10- 2000 mg/mL IST-680 - 2000 mg/mL 58-31-3	"	"	175uL 150uL 25uL	1mL	350 ppm 300 ppm 50 ppm	DCM 030609	dlb	9-2-3	3-1-04
FL PRO 500 ppm	58-31-9	C-443-10 · 2000 mg/mL IST-680 2000 mg/mL 58-31-3	"	"	250uL 150uL 25uL	1mL	500 ppm 300 ppm 50 ppm	DCM 030609	dlb	9-2-3	03-1-04

FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	9/12/03 1200	BATCH NO:	262317
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	COMMENTS	METHOD
1	In-house QC Ac	MB for HBN 262317 [EXTO/4225]	118519	1000	2.0	7		
2	In-house QC Ac	LCS for HBN 262317 [EXTO/4225]	118520	1000	2.0	7		
3	In-house QC Ac	LCSD for HBN 262317 [EXTO/4225	118521	1000	2.0	7		SEPARATORY FUNNEL/3510 ✓
4	CH2M HILL Cons	86PREBW030908	20309100809	870	2.0	7		
5	CH2M HILL Cons	86PTEBW030909	20309100810	890	2.0	7		
6								
7								SONICATOR/3550
8								
9								
10								
11								SILICA GEL CLEANUP
12								10512-X 40619
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								MeCL2 Lot No:
24								030958
25								
26								
27								Sodium Sulfate Lot No:
28								033596

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	8-202-3	FLPRO SPIKE ID	8-193-1			TECHNICIAN	DATE
VOLUME	1.0ml	VOLUME	2004l			[signature]	9/12/03
CONCENTRATION	100/600ug/ml	CONCENTRATION	500ug/ml				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	BES						

FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	9/10/03 14:00	BATCH NO:	262263
MATRIX:	WATER ☐ SOIL ☑ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init' pH	COMMENTS	METHOD
1	In-house QC Ac	MB for HBN 262263 [EXTO/4219]	118327	25.0	2.0			
2	In-house QC Ac	LCS for HBN 262263 [EXTO/4219]	118328	25.0	2.0			
3	CH2M HILL Cons	86JT03S030908	20309100801	25.0	2.0			SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	86JT03S030908MS	20309100802	25.0	2.0			
5	CH2M HILL Cons	86JT03S030908MSD	20309100803	25.0	2.0			
6	CH2M HILL Cons	86JT04S030908	20309100804	25.0	2.0			
7	CH2M HILL Cons	86JT05S030909	20309100805	25.0	2.0			SONICATOR/3550 ✓
8	CH2M HILL Cons	86JT06S030909	20309100806	25.0	2.0			
9	CH2M HILL Cons	86JT12S030909	20309100807	25.0	2.0			
10	CH2M HILL Cons	86DUPS030908	20309100808	25.0	2.0			
11								SILICA GEL CLEANUP ✓
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								MeCL2 Lot No: 030958
24								
25								
26								
27								Sodium Sulfate Lot No: 033596
28								

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	8-202-3	FLPRO SPIKE ID	8-193-1			TECHNICIAN	DATE
VOLUME	1.0 mL	VOLUME	200 µL			Brit Jones	9/10/03
CONCENTRATION	100/600 µg/mL	CONCENTRATION	500 µg/mL				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	SKB						

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100801	86JT03S030908	Solid	09/08/2003 14:30	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	92.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100804	86JT04S030908	Solid	09/08/2003 15:15	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	83.7	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100805	86JT05S030909	Solid	09/09/2003 10:25	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.1	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100806	86JT06S030909	Solid	09/09/2003 10:50	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	87.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100807	86JT12S030909	Solid	09/09/2003 11:15	09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	85.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309100808	86DUPS030908	Solid		09/10/2003 09:30

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2003 13:45	AEL	262267

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	87.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 262267	Client ID	86JT03S030908		118258DUP		
Prep Batch N/A	GCAL ID	20309100801		118330		
	Sample Type	SAMPLE		DUP		
	Analytical Date	09/10/2003 13:45		09/10/2003 13:45		
	Matrix	Solid		Solid		
2540 G Total Solids - Solid		Units Result	% RDL	Result	RPD	RPD Limit
C-008 Total Solids		92.2	0.010	91.8	0.43	25

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TOTAL SOLIDS AND MOISTURE ANALYSIS FOR DRY WEIGHT CORRECTION

	TS	DW						
HBN	262267	262266		ANALYST:	AEL		DATE:	9/10/2003
SOLI	3226	3225		REVIEW:	SAB2 9-11-03		TIME:	13:45:00
Sample ID	Pan ID	Pan Mass (g)	Initial Mass (g) (Sample & Pan)	Final Mass (g) (Sample & Pan)	Initial Mass Less Pan (g)	Final Mass Less Pan (g)	% Moisture in Sample	% Solids in Sample
118330	801D	1.2556	11.2700	10.4482	10.0144	9.1926	8.21	91.79
20309100801	801	1.2545	11.3975	10.6103	10.1430	9.3558	7.76	92.24
20309100802 MS	802MS	1.2545	11.3975	10.6103	10.1430	9.3558	7.76	92.24
20309100803 MSD	803MSD	1.2545	11.3975	10.6103	10.1430	9.3558	7.76	92.24
20309100804	804	1.2523	11.2864	9.6533	10.0341	8.4010	16.28	83.72
20309100805	805	1.2697	11.6019	10.5798	10.3322	9.3101	9.89	90.11
20309100806	806	1.2443	11.3337	10.0500	10.0894	8.8057	12.72	87.28
20309100807	807	1.2635	11.3779	9.9239	10.1144	8.6604	14.38	85.62
20309100808	808	1.2508	11.2435	10.0087	9.9927	8.7579	12.36	87.64

TS % = (Final Sample Mass x 100) / Initial Sample Mass

TM % = 100-TS%

000625

onstructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER

171591-004 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
NAS Cecil Field	171591	Gulf Coast Labs. Dano Merril	Jeff Marks / J.A Jones Env. Services	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 Fax: 904-777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Jet Engine Test Cell - Confirmation Sampling	CTO 086		Bonnie Hogue / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	904-777-4182	Ph:(225) 769-4900		50

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BTEX + MTBE by 5035/8260B (GRAB)	TRPH by FL-PRO,16 Listed PAHs(including 1-and2-Methylnaphthalene by 8310							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86JT03S030908	Soil Boring- 03	soil	09/08/03	14:30	III/C	7	12	3							Grab / Composite	MS/MSD, OVA = 0.5 ppm	9/10 -01 -01-D
2	86JT04S030908	Soil Boring- 04	soil	09/08/03	15:15	III/C	7	4	1							Grab / Composite	OVA = 548 ppm	-04
3	86JT05S030909	Soil Boring- 05	soil	09/09/03	10:25	III/C	7	4	1							Grab / Composite	OVA = 0.30 ppm	-05
4	86JT06S030909	Soil Boring- 06	soil	09/09/03	10:50	III/C	7	4	1							Grab / Composite	OVA = 4 ppm	-06
5	86JT12S030909	Soil Boring- 12	soil	09/09/03	11:15	III/C	7	4	1							Grab / Composite		-07
6	86DUPS030908	Duplicate	soil	NA	NA	III/C	7	4	1							Grab / Composite		-08
7	86PREBW030908	Pre-equipment blank	W	09/08/03	14:15	III/C	7	3	4							Grab		-09
8	86PTEBW030908 4 Dm	Post equipment blank	W	09/09/03	11:30	III/C	7	3	4							Grab		-10
9	86JT03S030908	Trip Blank	W	NA	NA	III/C	7	3								Grab		-11
10																		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Jeff Marks J.A. Jones Environmental Services	FedEx/ Tracking # 791668906488, 791668906477. (2 Coolers)	BTEX + MTBE samples are GRAB, Soil FLO-PRO & 8310 samples are COMPOSITE. 5°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop	9/9/2003	15:00	FedEx/ Tracking # 791668906488, 791668906477. (2 Coolers)	9/9/2003	15:00
Printed Name and Signature:			Printed Name and Signature:		
FedEx 791668906477	9-10-03	0930	Richard W McCutter	9-10-03	0930

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

929000

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	203091008	Type:	D
Desc:		Report:	REVIEW_RPT
Work ID:	CTO 86 Cecil Field - South Fue	Status:	WP
Project Seq:	15087	Created:	9/10/03 10:32
Client:	4380 - CH2M HILL Constructors Inc.	QA:	
Profile:	42891 - CTO 0086 - CTO 86 Cecil Field - South Fuel Farm	PO:	

WORKORDER SAMPLES

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N\A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N\A	CONTAINER CONDITION
20309100801-1	8	NONE			X			X	OK
20309100801-2	40	NONE			X				OK
20309100801-3	40	NONE			X				OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20309100802-1	8	NONE			X			X	OK
20309100802-2	40	NONE			X				OK
20309100802-3	40	NONE			X				OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20309100803-1	8	NONE			X			X	OK
20309100803-2	40	NONE			X				OK
20309100803-3	40	NONE			X				OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20309100804-1	8	NONE			X			X	OK
20309100804-2	40	NONE			X				OK
20309100804-3	40	NONE			X				OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20309100805-1	8	NONE			X			X	OK
20309100805-2	40	NONE			X				OK
20309100805-3	40	NONE			X				OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20309100806-1	8	NONE			X			X	OK
20309100806-2	40	NONE			X				OK
20309100806-3	40	NONE			X				OK

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N\A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N\A	CONTAINER CONDITION
20309100807-1	8	NONE			X			X	OK
20309100807-2	40	NONE			X				OK
20309100807-3	40	NONE			X				OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20309100808-1	8	NONE			X			X	OK
20309100808-2	40	NONE			X				OK
20309100808-3	40	NONE			X				OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20309100809-1	40	HCL+SS	✓			✓			OK
~~20309100809-2~~	~~40~~	~~HCL+SS~~ DLH 9/12/03							OK
20309100809-3	LA	NONE			X			X	OK
20309100809-4	LA	H2SO4						X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20309100810-1	40	HCL+SS	✓			✓			OK
~~20309100810-2~~	~~40~~	~~HCL+SS~~ DLH 9/10/03							OK
20309100810-3	LA	NONE			X			X	OK
20309100810-4	LA	H2SO4						X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20309100811-1	40	HCL+SS	✓			✓			OK
~~20309100811-2~~	~~40~~	~~HCL+SS~~ DLH 9/10/03							OK

A = ACCEPTABLE
U = UNACCEPTABLE
N\A = NOT APPLICABLE

COOLER (S) TEMPERATURE (A) U LIMIT = 4C + \ - 2C

MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

Custody Seal
used [✓] Yes [ ] No
in tact [✓] Yes [ ] No

CUSTODIAN DLH

Appendix F

Waste Characterization Laboratory Analytical Reports
(provided on CD)

LEVEL III DATA PACKAGE

SDG# JETC01
STL Log Number: T373924
Project: JETC and Building 271

Prepared for
Aerostar Environmental Services, Inc.
by
STL Tallahassee
Tallahassee, Florida

Contents

Chain-of-Custody Documentation

Laboratory Report

Data Deliverables

pH *Method 150.1*

TAL Metals *Methods 6010/7471*

GC Chlorinated Herbicides *Method 8151*

GC Chlorinated Pesticides *Method 8081/8082*

GC Chlorinated Pesticides *Method 8081/8082*

GC Petroleum Range Organics *Method FL-PRO*

GC/MS Polynuclear Aromatics *Method 8270*

GC/MS Semivolatile Organics *Method 8270*

GC/MS Volatile Organics *Method 8260*

Timothy Preston
timpreston@stl-inc.com

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The pages of this report are numbered sequentially from 1 to 335.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
171591-003 Page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
JETC and Building 271	171591	STL - Tallahassee	Rick McCann / Aerostar	11181 St. Johns Ind. Pkwy. Jacksonville, FL 32246
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Backfill Characterization Sampling	0086	0103-329-09	rmccann@aerostar.net	(904) 565-2820 ph (904) 565-2830 fax
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Rick McCann		(850) 878-3994 ph (850) 878-9504 fax		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER BF005@4.0' BF001 COMP	SAMPLE DESCRIPTION/LOCATION 1405 1415	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 5035/8260B (GRAB)	TCL Semi-volatiles(8270C),TR PH (FL-PRO),16 Listed PAHs(including 1-and2-	Pesticides by 8081A, PCBs by 8082	Herbicides by 8151A	TAL Metals by 6010A/7471A	pH by 9045B			SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	086-BFC-S-0904-03	Characterization of fill material	S	09/04/03	1415	III/C	7 Day	X	X	X	X	X	X			Grab / Composite		
2																		
3	086-TB-L-0904-03	Trip Blank	L			III/C	7 Day	X									Prepared by Lab	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

SAMPLER(S) AND COMPANY: (please print)

COURIER AND SHIPPING NUMBER:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Rick McCann / Richard D. McCann	9/4/03	1515	Printed Name and Signature: PAMELA SCHNEITZER	9/4/03	1810
Printed Name and Signature:			Printed Name and Signature: M Jones	9/6/03	1245
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

T373924

Form CCI001, Rev 02/00

REPORT OF SAMPLES WITH SDG# OF JETC01

SAMPLE#	SAMPLE DESCRIPTION	DATE SAMPLED	DATE RECEIVED	MATRIX
T373924*1	086-BFC-S-0904-03	09/04/03	09/06/03	SOLID
T373924*2	086-TB-L-0904-03	09/04/03	09/06/03	LIQUID

LABORATORY REPORT

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
TCL Volatiles by GC/MS (8260)	
Chloromethane, ug/kg dw	14U
Bromomethane (Methyl bromide), ug/kg dw	14U
Vinyl chloride, ug/kg dw	1.5U*
Chloroethane, ug/kg dw	14U
Methylene chloride (Dichloromethane), ug/kg dw	7.0U
Acetone, ug/kg dw	70U
Carbon disulfide, ug/kg dw	7.0U
1,1-Dichloroethene, ug/kg dw	7.0U
1,1-Dichloroethane, ug/kg dw	7.0U
cis-1,2-Dichloroethylene, ug/kg dw	7.0U
trans-1,2-Dichloroethene, ug/kg dw	7.0U
Chloroform, ug/kg dw	7.0U
1,2-Dichloroethane, ug/kg dw	7.0U
2-Butanone (MEK), ug/kg dw	35U
1,1,1-Trichloroethane, ug/kg dw	7.0U
Carbon tetrachloride, ug/kg dw	7.0U
Bromodichloromethane, ug/kg dw	0.88U*
1,2-Dichloropropane, ug/kg dw	7.0U
cis-1,3-Dichloropropene, ug/kg dw	0.99U*
Trichloroethene, ug/kg dw	7.0U
Dibromochloromethane, ug/kg dw	0.84U*
1,1,2-Trichloroethane, ug/kg dw	7.0U

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
Benzene, ug/kg dw	7.0U
trans-1,3-Dichloropropene, ug/kg dw	2.1U*
Bromoform, ug/kg dw	7.0U
4-Methyl-2-pentanone (MIBK), ug/kg dw	35U
2-Hexanone, ug/kg dw	35U
Tetrachloroethene, ug/kg dw	7.0U
Toluene, ug/kg dw	3.2J
1,1,2,2-Tetrachloroethane, ug/kg dw	7.0U
Chlorobenzene, ug/kg dw	7.0U
Ethylbenzene, ug/kg dw	7.0U
Styrene, ug/kg dw	7.0U
Xylenes, Total, ug/kg dw	7.0U
Surrogate - Dibromofluoromethane	98 %
Surrogate - Toluene-d8	71 %
Surrogate - 4-Bromofluorobenzene	67 %
Prep Date	09.10.03
Analysis Date	09.10.03
Batch ID	VM090903M

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
TCL - Semivolatiles (8270)	
Phenol, ug/kg dw	360U
bis(2-Chloroethyl)ether, ug/kg dw	360U
2-Chlorophenol, ug/kg dw	360U
1,3-Dichlorobenzene, ug/kg dw	360U
1,4-Dichlorobenzene, ug/kg dw	360U
1,2-Dichlorobenzene, ug/kg dw	360U
2-Methylphenol (o-Cresol), ug/kg dw	360U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/kg dw	360U
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/kg dw	360U
N-Nitroso-di-n-propylamine, ug/kg dw	360U
Hexachloroethane, ug/kg dw	360U
Nitrobenzene, ug/kg dw	360U
Isophorone, ug/kg dw	360U
2-Nitrophenol, ug/kg dw	360U
2,4-Dimethylphenol, ug/kg dw	360U
bis(2-Chloroethoxy)methane, ug/kg dw	360U
2,4-Dichlorophenol, ug/kg dw	360U
1,2,4-Trichlorobenzene, ug/kg dw	360U
4-Chloroaniline, ug/kg dw	720U
Hexachlorobutadiene, ug/kg dw	360U
4-Chloro-3-methylphenol, ug/kg dw	360U

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1				
Hexachlorocyclopentadiene, ug/kg dw	360U				
2,4,6-Trichlorophenol, ug/kg dw	360U				
2,4,5-Trichlorophenol, ug/kg dw	360U				
2-Chloronaphthalene, ug/kg dw	360U				
2-Nitroaniline, ug/kg dw	1900U				
Dimethylphthalate, ug/kg dw	360U				
2,6-Dinitrotoluene, ug/kg dw	360U				
3-Nitroaniline, ug/kg dw	1900U				
2,4-Dinitrophenol, ug/kg dw	1900U				
4-Nitrophenol, ug/kg dw	1900U				
Dibenzofuran, ug/kg dw	360U				
2,4-Dinitrotoluene, ug/kg dw	360U				
Diethylphthalate, ug/kg dw	360U				
4-Chlorophenylphenyl ether, ug/kg dw	360U				
4-Nitroaniline, ug/kg dw	1900U				
4,6-Dinitro-2-methylphenol, ug/kg dw	1900U				
N-Nitrosodiphenylamine, ug/kg dw	360U				
4-Bromophenylphenyl ether, ug/kg dw	360U				
Hexachlorobenzene, ug/kg dw	360U				
Pentachlorophenol, ug/kg dw	1900U				
Carbazole, ug/kg dw	360U				
Di-n-butylphthalate, ug/kg dw	360U				
Butylbenzylphthalate, ug/kg dw	360U				

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
3,3'-Dichlorobenzidine, ug/kg dw	720U
bis(2-Ethylhexyl)phthalate, ug/kg dw	360U
Di-n-octylphthalate, ug/kg dw	360U
Surrogate - 2-Fluorophenol	43 %
Surrogate - Phenol-d5	51 %
Surrogate - Nitrobenzene - d5	53 %
Surrogate - 2-Fluorobiphenyl	56 %
Surrogate - 2,4,6-Tribromophenol	51 %
Surrogate - Terphenyl-d14	56 %
Prep Date	09.10.03
Analysis Date	09.11.03
Batch ID	SM091003M

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1		
Polynuclear Aromatics (8270)			
Acenaphthene, ug/kg dw	7.4U		
Acenaphthylene, ug/kg dw	7.4U		
Anthracene, ug/kg dw	7.4U		
Benzo(a)anthracene, ug/kg dw	7.4U		
Benzo(a)pyrene, ug/kg dw	7.4U		
Benzo(b)fluoranthene, ug/kg dw	7.4U		
Benzo(g,h,i)perylene, ug/kg dw	7.4U		
Benzo(k)fluoranthene, ug/kg dw	7.4U		
Chrysene, ug/kg dw	7.4U		
Dibenzo(a,h)anthracene, ug/kg dw	7.4U		
Fluoranthene, ug/kg dw	7.4U		
Fluorene, ug/kg dw	7.4U		
Indeno(1,2,3-cd)pyrene, ug/kg dw	7.4U		
Naphthalene, ug/kg dw	7.4U		
Phenanthrene, ug/kg dw	7.4U		
Pyrene, ug/kg dw	7.4U		
1-Methylnaphthalene, ug/kg dw	7.4U		
2-Methylnaphthalene, ug/kg dw	7.4U		
Surrogate - o-Terphenyl	67 %		
Prep Date	09.10.03		
Analysis Date	09.12.03		
Batch ID	SM091003L		

LOG NO: T3-73924
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Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
Petroleum Range Organics (FL-PRO)	
Petroleum Hydrocarbons , mg/kg dw	16
Surrogate, o-Terphenyl	55 %
Surrogate-C39	46 %
Prep Date	09.10.03
Analysis Date	09.12.03
Batch ID	SG091003J

LOG NO: T3-73924
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
TCL - Pesticides/PCB's (8081/8082)	
alpha-BHC, ug/kg dw	1.9U
beta-BHC, ug/kg dw	1.9U
delta-BHC, ug/kg dw	1.9U
gamma-BHC (Lindane), ug/kg dw	1.9U
Heptachlor, ug/kg dw	1.9U
Aldrin, ug/kg dw	1.9U
Heptachlor epoxide, ug/kg dw	1.9U
Endosulfan I, ug/kg dw	1.9U
Dieldrin, ug/kg dw	3.6U
4,4'-DDE, ug/kg dw	3.6U
Endrin, ug/kg dw	3.6U
Endosulfan II, ug/kg dw	3.6U
4,4'-DDD, ug/kg dw	3.6U
Endosulfan sulfate, ug/kg dw	3.6U
4,4'-DDT, ug/kg dw	3.6U
Methoxychlor, ug/kg dw	19U
Endrin ketone, ug/kg dw	3.6U
Endrin aldehyde, ug/kg dw	3.6U
alpha-Chlordane, ug/kg dw	1.9U
gamma-Chlordane, ug/kg dw	1.9U
Toxaphene, ug/kg dw	190U
Aroclor-1016, ug/kg dw	36U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
Aroclor-1221, ug/kg dw	74U
Aroclor-1232, ug/kg dw	36U
Aroclor-1242, ug/kg dw	36U
Aroclor-1248, ug/kg dw	36U
Aroclor-1254, ug/kg dw	36U
Aroclor-1260, ug/kg dw	36U
Surrogate - Dibutyl Chlorendate	62 %
Surrogate - Tetrachloro-m-xylene	46 %
Surrogate - Decachlorobiphenyl	68 %
Prep Date	09.11.03
Analysis Date	09.12.03
Batch ID	SG091103H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
Chlorinated Herbicides (8151)	
Bentazon, ug/kg dw	38U
2,4-D, ug/kg dw	9.1U
Dalapon, ug/kg dw	2200U
2,4-DB, ug/kg dw	9.1U
Dicamba, ug/kg dw	22U
Dichloroprop, ug/kg dw	110U
Dinoseb, ug/kg dw	110U
MCPA[(4-chloro-2-methylphenoxy)-acetic acid], ug/kg dw	2200U
MCPP[2-(4-chloro-2-methylphenoxy)-propanoic acid], ug/kg dw	2200U
Pentachlorophenol, ug/kg dw	19U
Picloram, ug/kg dw	3.6U
2,4,5-TP (Silvex), ug/kg dw	9.1U
2,4,5-T, ug/kg dw	9.1U
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	101 %
Prep Date	09.09.03
Analysis Date	09.12.03
Batch ID	SG090903H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
TAL Metals (6010)	
Aluminum, ug/l	1200
Antimony, ug/l	2.2U
Arsenic, ug/l	0.74B
Barium, ug/l	2.1
Beryllium, ug/l	0.43U
Cadmium, ug/l	0.54U
Calcium, ug/l	360
Chromium, ug/l	2.1
Cobalt, ug/l	0.22B
Copper, ug/l	0.83B
Iron, ug/l	140
Lead, ug/l	4.1
Magnesium, ug/l	36B
Manganese, ug/l	1.7
Nickel, ug/l	4.3U
Potassium, ug/l	24B
Selenium, ug/l	1.1U
Silver, ug/l	1.1U
Sodium, ug/l	54U
Thallium, ug/l	1.1U
Vanadium, ug/l	1.5
Zinc, ug/l	2.7
Prep Date	09.10.03
Analysis Date	09.11.03
Batch ID	ME091003C

LOG NO: T3-73924
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-1	086-BFC-S-0904-03	09-04-03/14:15	JETC01

PARAMETER	73924-1
Mercury (7471), mg/kg dw	0.018B
Prep Date	09.10.03
Analysis Date	09.10.03
Batch ID	ME091003R
pH (150.1), units	6.3

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-2	086-TB-L-0904-03	09-04-03	JETC01

PARAMETER	73924-2
TCL Volatiles by GC/MS (8260)	
Chloromethane, ug/l	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Chloroethane, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Acetone, ug/l	25U
Carbon disulfide, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
cis-1,2-Dichloroethylene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Chloroform, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
1,1,1-Trichloroethane, ug/l	1.0U
Carbon tetrachloride, ug/l	1.0U
Bromodichloromethane, ug/l	1.0U
1,2-Dichloropropane, ug/l	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Dibromochloromethane, ug/l	1.0U
1,1,2-Trichloroethane, ug/l	1.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-2	086-TB-L-0904-03	09-04-03	JETC01

PARAMETER	73924-2
Benzene, ug/l	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U
Bromoform, ug/l	1.0U
4-Methyl-2-pentanone (MIBK), ug/l	10U
2-Hexanone, ug/l	10U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Styrene, ug/l	1.0U
Xylenes, Total, ug/l	2.0U
Surrogate - Dibromofluoromethane	116 %
Surrogate - Toluene-d8	104 %
Surrogate - 4-Bromofluorobenzene	100 %
Analysis Date	09.09.03
Batch ID	VM090903N

LOG NO: T3-73924
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Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-9	Lab Control Standard Result		JETC01
73924-10	Lab Control Standard Duplicate Result		JETC01
73924-11	Spike Amount Added, LCS/LCSD		JETC01
73924-12	Lab Control Standard % Recovery		JETC01
73924-13	Lab Control Standard Duplicate % Recovery		JETC01

PARAMETER	73924-9	73924-10	73924-11	73924-12	73924-13
TCL Volatiles by GC/MS (8260)					
1,1-Dichloroethene, ug/kg dw	60	61	50	120 %	122 %
Trichloroethene, ug/kg dw	57	59	50	114 %	118 %
Benzene, ug/kg dw	60	60	50	120 %	120 %
Toluene, ug/kg dw	62	62	50	124 %	124 %
Chlorobenzene, ug/kg dw	66	67	50	132 %	134 %
Surrogate - Dibromofluoromethane	94 %	102 %	---	---	---
Surrogate - Toluene-d8	82 %	84 %	---	---	---
Surrogate - 4-Bromofluorobenzene	80 %	84 %	---	---	---
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.10.03	09.10.03	---	---	---
Batch ID	VM090903M	VM090903M	VM090903M	VM090903M	VM090903M

LOG NO: T3-73924
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Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-9	Lab Control Standard Result		JETC01
73924-10	Lab Control Standard Duplicate Result		JETC01
73924-11	Spike Amount Added, LCS/LCSD		JETC01
73924-12	Lab Control Standard % Recovery		JETC01
73924-13	Lab Control Standard Duplicate % Recovery		JETC01

PARAMETER	73924-9	73924-10	73924-11	73924-12	73924-13
TCL - Semivolatiles (8270)					
Phenol, ug/kg	1400	1100	3300	42 %	33 %
2-Chlorophenol, ug/kg	1500	1200	3300	45 %	36 %
1,4-Dichlorobenzene, ug/kg	700	550	1700	41 %	32 %
N-Nitroso-di-n-propylamine, ug/kg	570	550	1700	34 %	26 %
1,2,4-Trichlorobenzene, ug/kg	700	540	1700	41 %	32 %
4-Chloro-3-methylphenol, ug/kg	1600	1300	3300	48 %	39 %
Acenaphthene, ug/kg	640	510	1700	38 %	30 %
4-Nitrophenol, ug/kg	1700	1400	3300	52 %	42 %
2,4-Dinitrotoluene, ug/kg	740	640	1700	44 %	38 %
Pentachlorophenol, ug/kg	1000	680	3300	30 %	21 %
Pyrene, ug/kg	880	760	1700	52 %	45 %
Surrogate - 2-Fluorophenol	42 %	33 %	---	---	---
Surrogate - Phenol-d5	45 %	39 %	---	---	---
Surrogate - Nitrobenzene - d5	46 %	36 %	---	---	---
Surrogate - 2-Fluorobiphenyl	43 %	36 %	---	---	---
Surrogate - 2,4,6-Tribromophenol	42 %	36 %	---	---	---
Surrogate - Terphenyl-d14	50 %	43 %	---	---	---
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.11.03	09.11.03	---	---	---
Batch ID	SM091003M	SM091003M	SM091003M	SM091003M	SM091003M

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-9	Lab Control Standard Result		JETC01
73924-10	Lab Control Standard Duplicate Result		JETC01
73924-11	Spike Amount Added, LCS/LCSD		JETC01
73924-12	Lab Control Standard % Recovery		JETC01
73924-13	Lab Control Standard Duplicate % Recovery		JETC01

PARAMETER	73924-9	73924-10	73924-11	73924-12	73924-13
Polynuclear Aromatics (8270)					
Acenaphthene, ug/kg dw	79	82	130	61 %	63 %
Benzo(a)pyrene, ug/kg dw	71	73	130	55 %	56 %
Fluorene, ug/kg dw	77	82	130	59 %	63 %
Naphthalene, ug/kg dw	76	75	130	58 %	58 %
Pyrene, ug/kg dw	84	91	130	65 %	70 %
Surrogate - o-Terphenyl	67 %	73 %	---	---	---
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.12.03	09.12.03	---	---	---
Batch ID	SM091003L	SM091003L	SM091003L	SM091003L	SM091003L
Petroleum Range Organics (FL-PRO)					
Petroleum Hydrocarbons , mg/kg	38	46	91	42 %	46 %
Surrogate, o-Terphenyl	42 %	54 %	---	---	---
Surrogate-C39	38 %	45 %	---	---	---
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.12.03	09.12.03	---	---	---
Batch ID	SG091003J	SG091003J	SG091003J	SG091003J	SG091003J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-9	Lab Control Standard Result		JETC01
73924-10	Lab Control Standard Duplicate Result		JETC01
73924-11	Spike Amount Added, LCS/LCSD		JETC01
73924-12	Lab Control Standard % Recovery		JETC01
73924-13	Lab Control Standard Duplicate % Recovery		JETC01

PARAMETER	73924-9	73924-10	73924-11	73924-12	73924-13
TCL - Pesticides/PCB's (8081/8082)					
gamma-BHC (Lindane), ug/l	2.0	2.1	3.3	61 %	64 %
Heptachlor, ug/l	2.1	2.5	3.3	64 %	76 %
Aldrin, ug/l	2.2	2.6	3.3	67 %	79 %
Dieldrin, ug/l	5.4	6.2	8.3	65 %	75 %
Endrin, ug/l	5.5	6.2	8.3	66 %	75 %
4,4'-DDT, ug/l	4.9	5.5	8.3	59 %	66 %
Surrogate - Dibutyl Chlorendate	52 %	61 %	---	---	---
Surrogate - Tetrachloro-m-xylene	52 %	67 %	---	---	---
Surrogate - Decachlorobiphenyl	64 %	79 %	---	---	---
Prep Date	09.11.03	09.11.03	---	---	---
Analysis Date	09.12.03	09.12.03	---	---	---
Batch ID	SG091103H	SG091103H	SG091103H	SG091103H	SG091103H
Chlorinated Herbicides (8151)					
2,4-D, ug/kg dw	20	33	28	71 %	118 %
2,4,5-TP (Silvex), ug/kg dw	24	31	28	86 %	111 %
2,4,5-T, ug/kg dw	21	33	28	75 %	118 %
Surrogate-2,4-Dichloropheny 1 acetic acid (DCAA)	90 %	110 %	---	---	---
Prep Date	09.09.03	09.09.03	---	---	---
Analysis Date	09.12.03	09.12.03	---	---	---
Batch ID	SG090903H	SG090903H	SG090903H	SG090903H	SG090903H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-9	Lab Control Standard Result		JETC01
73924-10	Lab Control Standard Duplicate Result		JETC01
73924-11	Spike Amount Added, LCS/LCSD		JETC01
73924-12	Lab Control Standard % Recovery		JETC01
73924-13	Lab Control Standard Duplicate % Recovery		JETC01

PARAMETER	73924-9	73924-10	73924-11	73924-12	73924-13
TAL Metals (6010)					
Aluminum, mg/kg dw	200	200	200	100 %	100 %
Antimony, mg/kg dw	51	52	50	102 %	104 %
Arsenic, mg/kg dw	200	200	200	100 %	100 %
Barium, mg/kg dw	210	220	200	105 %	110 %
Beryllium, mg/kg dw	5.2	5.3	5.0	104 %	106 %
Cadmium, mg/kg dw	5.2	5.2	5.0	104 %	104 %
Calcium, mg/kg dw	480	490	500	96 %	98 %
Chromium, mg/kg dw	22	22	20	110 %	110 %
Cobalt, mg/kg dw	53	53	50	106 %	106 %
Copper, mg/kg dw	27	27	25	108 %	108 %
Iron, mg/kg dw	110	110	100	110 %	110 %
Lead, mg/kg dw	52	53	50	104 %	106 %
Magnesium, mg/kg dw	480	490	500	96 %	98 %
Manganese, mg/kg dw	53	54	50	106 %	108 %
Nickel, mg/kg dw	53	53	50	106 %	106 %
Potassium, mg/kg dw	470	480	500	94 %	96 %
Selenium, mg/kg dw	190	200	200	95 %	100 %
Silver, mg/kg dw	5.0	5.1	5.0	100 %	102 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-9	Lab Control Standard Result		JETC01
73924-10	Lab Control Standard Duplicate Result		JETC01
73924-11	Spike Amount Added, LCS/LCSD		JETC01
73924-12	Lab Control Standard % Recovery		JETC01
73924-13	Lab Control Standard Duplicate % Recovery		JETC01

PARAMETER	73924-9	73924-10	73924-11	73924-12	73924-13
Sodium, mg/kg dw	490	510	500	98 %	102 %
Thallium, mg/kg dw	210	220	200	105 %	110 %
Vanadium, mg/kg dw	54	54	50	108 %	108 %
Zinc, mg/kg dw	52	52	50	104 %	104 %
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.11.03	09.11.03	---	---	---
Batch ID	ME091003C	ME091003C	ME091003C	ME091003C	ME091003C
Mercury (7471), mg/kg dw	0.20	0.20	0.20	100 %	100 %
Batch ID	ME091003R	ME091003R	ME091003R	ME091003R	ME091003R

LOG NO: T3-73924
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-14	LCS Accuracy Control Limit (%R)		JETC01
73924-15	Precision (%RPD) of LCS/LCSD		JETC01
73924-16	LCS Precision Control Limit (Advisory) %RPD		JETC01

PARAMETER	73924-14	73924-15	73924-16
TCL Volatiles by GC/MS (8260)			
1,1-Dichloroethene, %	40-164 %	1.6 %	<46 %
Trichloroethene, %	51-146 %	3.4 %	<34 %
Benzene, %	49-142 %	0 %	<42 %
Toluene, %	38-158 %	0 %	<32 %
Chlorobenzene, %	66-135 %	1.5 %	<34 %
Surrogate - Dibromofluoromethane	58-142 %	---	---
Surrogate - Toluene-d8	64-136 %	---	---
Surrogate - 4-Bromofluorobenzene	63-135 %	---	---
Batch ID	VM090903M	VM090903M	VM090903M

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Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-14	LCS Accuracy Control Limit (%R)		JETC01
73924-15	Precision (%RPD) of LCS/LCSD		JETC01
73924-16	LCS Precision Control Limit (Advisory) %RPD		JETC01

PARAMETER	73924-14	73924-15	73924-16
TCL - Semivolatiles (8270)			
Phenol, %	13-115 %	24 %	<39 %
2-Chlorophenol, %	15-111 %	22 %	<38 %
1,4-Dichlorobenzene, %	10-105 %	24 %	<31 %
N-Nitroso-di-n-propylamine, %	11-122 %	24 %	<37 %
1,2,4-Trichlorobenzene, %	10-112 %	26 %*F99	<22 %
4-Chloro-3-methylphenol, %	22-114 %	21 %	<32 %
Acenaphthene, %	18-123 %	23 %	<49 %
4-Nitrophenol, %	15-118 %	19 %	<57 %
2,4-Dinitrotoluene, %	11-120 %	14 %	<37 %
Pentachlorophenol, %	10-140 %	38 %	<55 %
Pyrene, %	10-133 %	15 %	<42 %
Surrogate - 2-Fluorophenol	16-113 %	---	---
Surrogate - Phenol-d5	19-114 %	---	---
Surrogate - Nitrobenzene - d5	20-120 %	---	---
Surrogate - 2-Fluorobiphenyl	30-120 %	---	---
Surrogate - 2,4,6-Tribromophenol	23-129 %	---	---
Surrogate - Terphenyl-d14	30-131 %	---	---
Batch ID	SM091003M	SM091003M	SM091003M

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-14	LCS Accuracy Control Limit (%R)		JETC01
73924-15	Precision (%RPD) of LCS/LCSD		JETC01
73924-16	LCS Precision Control Limit (Advisory) %RPD		JETC01

PARAMETER	73924-14	73924-15	73924-16
Polynuclear Aromatics (8270)			
Acenaphthene, %	18-123 %	3.7 %	<49 %
Benzo(a)pyrene, %	41-142 %	2.8 %	<55 %
Fluorene, %	27-151 %	6.3 %	<50 %
Naphthalene, %	25-131 %	1.3 %	<34 %
Pyrene, %	10-133 %	8.0 %	<42 %
Surrogate - o-Terphenyl	30-130 %	---	---
Batch ID	SM091003L	SM091003L	SM091003L
Petroleum Range Organics (FL-PRO)			
Petroleum Hydrocarbons , %	26-116 %	19 %	<25 %
Surrogate, o-Terphenyl	15-154 %	---	---
Surrogate-C39	30-118 %	---	---
TCL - Pesticides/PCB's (8081/8082)			
gamma-BHC (Lindane), %	12-138 %	4.9 %	<37 %
Heptachlor, %	17-138 %	17 %	<38 %
Aldrin, %	10-144 %	17 %	<38 %
Dieldrin, %	28-137 %	14 %	<30 %
Endrin, %	33-149 %	12 %	<32 %
4,4'-DDT, %	29-134 %	12 %	<26 %
Batch ID	SG091103H	SG091103H	SG091103H

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Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-14	LCS Accuracy Control Limit (%R)		JETC01
73924-15	Precision (%RPD) of LCS/LCSD		JETC01
73924-16	LCS Precision Control Limit (Advisory) %RPD		JETC01

PARAMETER	73924-14	73924-15	73924-16
Chlorinated Herbicides (8151)			
2,4-D, %	19-153 %	49 %*F99	<47 %
2,4,5-TP (Silvex), %	27-120 %	25 %	<51 %
2,4,5-T, %	14-143 %	44 %	<59 %
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	30-189 %	---	---
Batch ID	SG090903H	SG090903H	SG090903H

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Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-14	LCS Accuracy Control Limit (%R)		JETC01
73924-15	Precision (%RPD) of LCS/LCSD		JETC01
73924-16	LCS Precision Control Limit (Advisory) %RPD		JETC01

PARAMETER	73924-14	73924-15	73924-16
TAL Metals (6010)			
Aluminum, %	75-125 %	0 %	<20 %
Antimony, %	75-125 %	1.9 %	<20 %
Arsenic, %	75-125 %	0 %	<20 %
Barium, %	75-125 %	4.6 %	<20 %
Beryllium, %	75-125 %	1.9 %	<20 %
Cadmium, %	75-125 %	0 %	<20 %
Calcium, %	75-125 %	2.1 %	<20 %
Chromium, %	75-125 %	0 %	<20 %
Cobalt, %	75-125 %	0 %	<20 %
Copper, %	75-125 %	0 %	<20 %
Iron, %	75-125 %	0 %	<20 %
Lead, %	75-125 %	1.9 %	<20 %
Magnesium, %	75-125 %	2.1 %	<20 %
Manganese, %	75-125 %	1.9 %	<20 %
Nickel, %	75-125 %	0 %	<20 %
Potassium, %	75-125 %	2.1 %	<20 %
Selenium, %	75-125 %	5.1 %	<20 %
Silver, %	75-125 %	2.0 %	<20 %
Sodium, %	75-125 %	4.0 %	<20 %
Thallium, %	75-125 %	4.6 %	<20 %
Vanadium, %	75-125 %	0 %	<20 %
Zinc, %	75-125 %	0 %	<20 %
Batch ID	ME091003C	ME091003C	ME091003C

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Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-14	LCS Accuracy Control Limit (%R)		JETC01
73924-15	Precision (%RPD) of LCS/LCSD		JETC01
73924-16	LCS Precision Control Limit (Advisory) %RPD		JETC01

PARAMETER	73924-14	73924-15	73924-16
Mercury (7471), %	80-120 %	0 %	<20 %
Batch ID	ME091003R	ME091003R	ME091003R

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Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-17	Matrix Spike Result		JETC01
73924-18	Matrix Spike Duplicate Result		JETC01
73924-19	Spike Amount Added, MS		JETC01
73924-20	Spike Amount Added, MSD		JETC01
73924-21	Matrix Spike % Recovery		JETC01

PARAMETER	73924-17	73924-18	73924-19	73924-20	73924-21
TCL Volatiles by GC/MS (8260)					
1,1-Dichloroethene, ug/kg dw	45	54	50	50	90 %
Trichloroethene, ug/kg dw	35	46	50	50	70 %
Benzene, ug/kg dw	41	52	50	50	82 %
Toluene, ug/kg dw	36	45	50	50	72 %
Chlorobenzene, ug/kg dw	31	42	50	50	62 %*F73
Surrogate - Dibromofluoromethane	88 %	89 %	---	---	---
Surrogate - Toluene-d8	88 %	88 %	---	---	---
Surrogate - 4-Bromofluorobenzene	84 %	80 %	---	---	---
Prep Date	09.15.03	09.15.03	---	---	---
Analysis Date	09.15.03	09.15.03	---	---	---
Batch ID	VM090903M	VM090903M	VM090903M	VM090903M	VM090903M

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-17	Matrix Spike Result		JETC01
73924-18	Matrix Spike Duplicate Result		JETC01
73924-19	Spike Amount Added, MS		JETC01
73924-20	Spike Amount Added, MSD		JETC01
73924-21	Matrix Spike % Recovery		JETC01

PARAMETER	73924-17	73924-18	73924-19	73924-20	73924-21
TCL - Semivolatiles (8270)					
Phenol, ug/kg	1900	1700	3700	3700	51 %
2-Chlorophenol, ug/kg	2000	1700	3700	3700	54 %
1,4-Dichlorobenzene, ug/kg	910	790	1800	1800	50 %
N-Nitroso-di-n-propylamine, ug/kg	800	690	1800	1800	44 %
1,2,4-Trichlorobenzene, ug/kg	960	830	1800	1800	53 %
4-Chloro-3-methylphenol, ug/kg	2200	2000	3700	3700	59 %
Acenaphthene, ug/kg	960	840	1800	1800	53 %
4-Nitrophenol, ug/kg	2600	2300	3700	3700	70 %
2,4-Dinitrotoluene, ug/kg	1200	980	1800	1800	67 %
Pentachlorophenol, ug/kg	2300	1900	3700	3700	62 %
Pyrene, ug/kg	1200	1100	1800	1800	67 %
Surrogate - 2-Fluorophenol	51 %	43 %	---	---	---
Surrogate - Phenol-d5	54 %	49 %	---	---	---
Surrogate - Nitrobenzene - d5	61 %	54 %	---	---	---
Surrogate - 2-Fluorobiphenyl	61 %	54 %	---	---	---
Surrogate - 2,4,6-Tribromophenol	59 %	51 %	---	---	---
Surrogate - Terphenyl-d14	67 %	56 %	---	---	---
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.11.03	09.11.03	---	---	---
Batch ID	SM091003M	SM091003M	SM091003M	SM091003M	SM091003M

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-17	Matrix Spike Result		JETC01
73924-18	Matrix Spike Duplicate Result		JETC01
73924-19	Spike Amount Added, MS		JETC01
73924-20	Spike Amount Added, MSD		JETC01
73924-21	Matrix Spike % Recovery		JETC01

PARAMETER	73924-17	73924-18	73924-19	73924-20	73924-21
Polynuclear Aromatics (8270)					
Acenaphthene, ug/kg dw	*F62	*F62	*F62	*F62	*F62
Benzo(a)pyrene, ug/kg dw	*F62	*F62	*F62	*F62	*F62
Fluorene, ug/kg dw	*F62	*F62	*F62	*F62	*F62
Naphthalene, ug/kg dw	*F62	*F62	*F62	*F62	*F62
Pyrene, ug/kg dw	*F62	*F62	*F62	*F62	*F62
Chrysene, ug/kg dw	---	*F62	---	---	---
Batch ID	SM091003L	SM091003L	SM091003L	SM091003L	SM091003L
Petroleum Range Organics (FL-PRO)					
Petroleum Hydrocarbons , mg/kg	*F62	*F62	*F62	*F62	*F62
TCL - Pesticides/PCB's (8081/8082)					
gamma-BHC (Lindane), ug/l	*F62	*F62	*F62	*F62	*F62
Heptachlor, ug/l	*F62	*F62	*F62	*F62	*F62
Aldrin, ug/l	*F62	*F62	*F62	*F62	*F62
Dieldrin, ug/l	*F62	*F62	*F62	*F62	*F62
Endrin, ug/l	*F62	*F62	*F62	*F62	*F62
4,4'-DDT, ug/l	*F62	*F62	*F62	*F62	*F62
Batch ID	SG091103H	SG091103H	SG091103H	SG091103H	SG091103H

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Project: JETC and Building 271
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-17	Matrix Spike Result		JETC01
73924-18	Matrix Spike Duplicate Result		JETC01
73924-19	Spike Amount Added, MS		JETC01
73924-20	Spike Amount Added, MSD		JETC01
73924-21	Matrix Spike % Recovery		JETC01

PARAMETER	73924-17	73924-18	73924-19	73924-20	73924-21
Chlorinated Herbicides (8151)					
2,4-D, ug/kg dw	36	34	28	28	128 %
2,4,5-TP (Silvex), ug/kg dw	32	30	28	28	114 %
2,4,5-T, ug/kg dw	34	33	28	28	121 %
Surrogate-2,4-Dichloropheny l acetic acid (DCAA)	116 %	110 %	---	---	---
Prep Date	09.09.03	09.09.03	---	---	---
Analysis Date	09.12.03	09.12.03	---	---	---
Batch ID	SG090903H	SG090903H	SG090903H	SG090903H	SG090903H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-17	Matrix Spike Result		JETC01
73924-18	Matrix Spike Duplicate Result		JETC01
73924-19	Spike Amount Added, MS		JETC01
73924-20	Spike Amount Added, MSD		JETC01
73924-21	Matrix Spike % Recovery		JETC01

PARAMETER	73924-17	73924-18	73924-19	73924-20	73924-21
TAL Metals (6010)					
Aluminum, mg/kg dw	0	0	220	220	0 %*61
Antimony, mg/kg dw	34	34	54	54	62 %*73
Arsenic, mg/kg dw	180	190	220	220	80 %
Barium, mg/kg dw	350	340	220	220	105 %
Beryllium, mg/kg dw	5.4	5.5	5.4	5.4	91 %
Cadmium, mg/kg dw	4.6	4.7	5.4	5.4	85 %
Calcium, mg/kg dw	0	0	0	0	0 %*F61
Chromium, mg/kg dw	43	44	22	22	91 %
Cobalt, mg/kg dw	47	49	54	54	85 %
Copper, mg/kg dw	28	29	27	27	91 %
Iron, mg/kg dw	0	0	110	110	0 %*F61
Lead, mg/kg dw	57	59	54	54	87 %
Magnesium, mg/kg dw	0	0	0	0	0 %*F61
Manganese, mg/kg dw	110	110	54	54	67 %*F73
Nickel, mg/kg dw	51	53	54	54	87 %
Potassium, mg/kg dw	0	0	0	0	0 %*F61
Selenium, mg/kg dw	180	180	220	220	82 %
Silver, mg/kg dw	4.9	5.0	5.4	5.4	91 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-17	Matrix Spike Result		JETC01
73924-18	Matrix Spike Duplicate Result		JETC01
73924-19	Spike Amount Added, MS		JETC01
73924-20	Spike Amount Added, MSD		JETC01
73924-21	Matrix Spike % Recovery		JETC01

PARAMETER	73924-17	73924-18	73924-19	73924-20	73924-21
Sodium, mg/kg dw	0	0	0	0	0 %*F61
Thallium, mg/kg dw	190	190	220	220	86 %
Vanadium, mg/kg dw	83	85	54	54	89 %
Zinc, mg/kg dw	61	62	54	54	81 %
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.11.03	09.11.03	---	---	---
Batch ID	ME091003C	ME091003C	ME091003C	ME091003C	ME091003C
Mercury (7471), mg/kg dw	0.11	0.11	0.091	0.091	88 %
Prep Date	09.10.03	09.10.03	---	---	---
Analysis Date	09.10.03	09.10.03	---	---	---
Batch ID	ME091003R	ME091003R	ME091003R	ME091003R	ME091003R

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-22	Matrix Spike Duplicate % Recovery		JETC01
73924-24	MS Accuracy Advisory Limit (%R)		JETC01
73924-25	Precision (%RPD) MS/MSD		JETC01
73924-26	MS Precision Advisory Limit (%RPD)		JETC01

PARAMETER	73924-22	73924-24	73924-25	73924-26
TCL Volatiles by GC/MS (8260)				
1,1-Dichloroethene, ug/l	96 %	40-164 %	18 %	<46 %
Trichloroethene, ug/l	82 %	51-146 %	27 %	<34 %
Benzene, ug/l	93 %	49-142 %	24 %	<42 %
Toluene, ug/l	80 %	38-158 %	22 %	<32 %
Chlorobenzene, ug/l	75 %	66-135 %	30 %	<34 %
Surrogate - Dibromofluoromethane	---	58-142 %	---	---
Surrogate - Toluene-d8	---	64-136 %	---	---
Surrogate - 4-Bromofluorobenzene	---	63-135 %	---	---
Batch ID	VM090903M	VM090903M	VM090903M	VM090903M

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-22	Matrix Spike Duplicate % Recovery		JETC01
73924-24	MS Accuracy Advisory Limit (%R)		JETC01
73924-25	Precision (%RPD) MS/MSD		JETC01
73924-26	MS Precision Advisory Limit (%RPD)		JETC01

PARAMETER	73924-22	73924-24	73924-25	73924-26
TCL - Semivolatiles (8270)				
Phenol, %	46 %	13-115 %	11 %	<39 %
2-Chlorophenol, %	46 %	15-111 %	16 %	<38 %
1,4-Dichlorobenzene, %	44 %	10-105 %	14 %	<31 %
N-Nitroso-di-n-propylamine, %	38 %	11-122 %	15 %	<37 %
1,2,4-Trichlorobenzene, %	46 %	10-112 %	14 %	<22 %
4-Chloro-3-methylphenol, %	54 %	22-114 %	9.5 %	<32 %
Acenaphthene, %	47 %	18-123 %	13 %	<49 %
4-Nitrophenol, %	62 %	15-118 %	12 %	<57 %
2,4-Dinitrotoluene, %	54 %	11-120 %	20 %	<37 %
Pentachlorophenol, %	51 %	10-140 %	19 %	<55 %
Pyrene, %	61 %	10-133 %	8.7 %	<42 %
Batch ID	SM091003M	SM091003M	SM091003M	SM091003M
Polynuclear Aromatics (8270)				
Acenaphthene, %	*F62	*F62	*F62	*F62
Benzo(a)pyrene, %	*F62	*F62	*F62	*F62
Fluorene, %	*F62	*F62	*F62	*F62
Naphthalene, %	*F62	*F62	*F62	*F62
Pyrene, %	*F62	*F62	*F62	*F62
Batch ID	SM091003L	SM091003L	SM091003L	SM091003L

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11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-22	Matrix Spike Duplicate % Recovery		JETC01
73924-24	MS Accuracy Advisory Limit (%R)		JETC01
73924-25	Precision (%RPD) MS/MSD		JETC01
73924-26	MS Precision Advisory Limit (%RPD)		JETC01

PARAMETER	73924-22	73924-24	73924-25	73924-26
Petroleum Range Organics (FL-PRO)				
Petroleum Hydrocarbons , mg/kg	*F62	*F62	*F62	*F62
TCL - Pesticides/PCB's (8081/8082)				
gamma-BHC (Lindane), %	*F62	*F62	*F62	*F62
Heptachlor, %	*F62	*F62	*F62	*F62
Aldrin, %	*F62	*F62	*F62	*F62
Dieldrin, %	*F62	*F62	*F62	*F62
Endrin, %	*F62	*F62	*F62	*F62
4,4'-DDT, %	*F62	*F62	*F62	*F62
Batch ID	SG091003H	SG091003H	SG091003H	SG091003H
Chlorinated Herbicides (8151)				
2,4-D, %	121 %	19-153 %	5.7 %	<47 %
2,4,5-TP (Silvex), %	107 %	27-120 %	6.4 %	<51 %
2,4,5-T, %	118 %	14-143 %	3.0 %	<59 %
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	---	30-189 %	---	---
Batch ID	SG090903H	SG090903H	SG090903H	SG090903H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-22	Matrix Spike Duplicate % Recovery		JETC01
73924-24	MS Accuracy Advisory Limit (%R)		JETC01
73924-25	Precision (%RPD) MS/MSD		JETC01
73924-26	MS Precision Advisory Limit (%RPD)		JETC01

PARAMETER	73924-22	73924-24	73924-25	73924-26
TAL Metals (6010)				
Aluminum, %	0 %F61	75-125 %	*F61	<20 %
Antimony, %	62 %*F73	75-125 %	0 %	<20 %
Arsenic, %	85 %	75-125 %	5.4 %	<20 %
Barium, %	100 %	75-125 %	2.9 %	<20 %
Beryllium, %	93 %	75-125 %	1.8 %	<20 %
Cadmium, %	87 %	75-125 %	2.2 %	<20 %
Calcium, %	0 %*F61	75-125 %	*F61	<20 %
Chromium, %	95 %	75-125 %	2.3 %	<20 %
Cobalt, %	89 %	75-125 %	4.2 %	<20 %
Copper, %	94 %	75-125 %	3.5 %	<20 %
Iron, %	0 %*F61	75-125 %	*F61	<20 %
Lead, %	91 %	75-125 %	3.4 %	<20 %
Magnesium, %	0 %*F61	75-125 %	*F61	<20 %
Manganese, %	67 %*F73	75-125 %	0 %	<20 %
Nickel, %	90 %	75-125 %	3.8 %	<20 %
Potassium, %	0 %	75-125 %	*F61	<20 %
Selenium, %	82 %	75-125 %	0 %	<20 %
Silver, %	93 %	75-125 %	2.0 %	<20 %
Sodium, %	0 %*F61	75-125 %	*F61	<20 %
Thallium, %	86 %	75-125 %	0 %	<20 %
Vanadium, %	93 %	75-125 %	2.4 %	<20 %
Zinc, %	83 %	75-125 %	1.6 %	<20 %
Batch ID	ME091003C	ME091003C	ME091003C	ME091003C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-22	Matrix Spike Duplicate % Recovery		JETC01
73924-24	MS Accuracy Advisory Limit (%R)		JETC01
73924-25	Precision (%RPD) MS/MSD		JETC01
73924-26	MS Precision Advisory Limit (%RPD)		JETC01

PARAMETER	73924-22	73924-24	73924-25	73924-26
Mercury (7471), %	88 %	80-120 %	0 %	<20 %
Batch ID	ME091003R	ME091003R	ME091003R	ME091003R

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
TCL Volatiles by GC/MS (8260)	
Chloromethane, ug/kg dw	10U
Bromomethane (Methyl bromide), ug/kg dw	10U
Vinyl chloride, ug/kg dw	10U
Chloroethane, ug/kg dw	10U
Methylene chloride (Dichloromethane), ug/kg dw	5.0U
Acetone, ug/kg dw	50U
Carbon disulfide, ug/kg dw	5.0U
1,1-Dichloroethene, ug/kg dw	5.0U
1,1-Dichloroethane, ug/kg dw	5.0U
cis-1,2-Dichloroethylene, ug/kg dw	5.0U
trans-1,2-Dichloroethene, ug/kg dw	5.0U
Chloroform, ug/kg dw	5.0U
1,2-Dichloroethane, ug/kg dw	5.0U
2-Butanone (MEK), ug/kg dw	25U
1,1,1-Trichloroethane, ug/kg dw	5.0U
Carbon tetrachloride, ug/kg dw	5.0U
Bromodichloromethane, ug/kg dw	5.0U
1,2-Dichloropropane, ug/kg dw	5.0U
cis-1,3-Dichloropropene, ug/kg dw	5.0U
Trichloroethene, ug/kg dw	5.0U
Dibromochloromethane, ug/kg dw	5.0U
1,1,2-Trichloroethane, ug/kg dw	5.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3				
Benzene, ug/kg dw	5.0U				
trans-1,3-Dichloropropene, ug/kg dw	5.0U				
Bromoform, ug/kg dw	5.0U				
4-Methyl-2-pentanone (MIBK), ug/kg dw	25U				
2-Hexanone, ug/kg dw	25U				
Tetrachloroethene, ug/kg dw	5.0U				
Toluene, ug/kg dw	5.0U				
1,1,2,2-Tetrachloroethane, ug/kg dw	5.0U				
Chlorobenzene, ug/kg dw	5.0U				
Ethylbenzene, ug/kg dw	5.0U				
Styrene, ug/kg dw	5.0U				
Xylenes, Total, ug/kg dw	5.0U				
Surrogate - Dibromofluoromethane	100 %				
Surrogate - Toluene-d8	78 %				
Surrogate - 4-Bromofluorobenzene	82 %				
Prep Date	09.10.03				
Analysis Date	09.10.03				
Batch ID	VM090903M				

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3				
TCL - Semivolatiles (8270)					
Phenol, ug/kg dw	330U				
bis(2-Chloroethyl)ether, ug/kg dw	330U				
2-Chlorophenol, ug/kg dw	330U				
1,3-Dichlorobenzene, ug/kg dw	330U				
1,4-Dichlorobenzene, ug/kg dw	330U				
1,2-Dichlorobenzene, ug/kg dw	330U				
2-Methylphenol (o-Cresol), ug/kg dw	330U				
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	330U				
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/kg dw	330U				
N-Nitroso-di-n-propylamine, ug/kg dw	330U				
Hexachloroethane, ug/kg dw	330U				
Nitrobenzene, ug/kg dw	330U				
Isophorone, ug/kg dw	330U				
2-Nitrophenol, ug/kg dw	330U				
2,4-Dimethylphenol, ug/kg dw	330U				
bis(2-Chloroethoxy)methane, ug/kg dw	330U				
2,4-Dichlorophenol, ug/kg dw	330U				
1,2,4-Trichlorobenzene, ug/kg dw	330U				
4-Chloroaniline, ug/kg dw	660U				
Hexachlorobutadiene, ug/kg dw	330U				
4-Chloro-3-methylphenol, ug/kg dw	330U				

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
Hexachlorocyclopentadiene, ug/kg dw	330U
2,4,6-Trichlorophenol, ug/kg dw	330U
2,4,5-Trichlorophenol, ug/kg dw	330U
2-Chloronaphthalene, ug/kg dw	330U
2-Nitroaniline, ug/kg dw	1700U
Dimethylphthalate, ug/kg dw	330U
2,6-Dinitrotoluene, ug/kg dw	330U
3-Nitroaniline, ug/kg dw	1700U
2,4-Dinitrophenol, ug/kg dw	1700U
4-Nitrophenol, ug/kg dw	1700U
Dibenzofuran, ug/kg dw	330U
2,4-Dinitrotoluene, ug/kg dw	330U
Diethylphthalate, ug/kg dw	330U
4-Chlorophenylphenyl ether, ug/kg dw	330U
4-Nitroaniline, ug/kg dw	1700U
4,6-Dinitro-2-methylphenol, ug/kg dw	1700U
N-Nitrosodiphenylamine, ug/kg dw	330U
4-Bromophenylphenyl ether, ug/kg dw	330U
Hexachlorobenzene, ug/kg dw	330U
Pentachlorophenol, ug/kg dw	1700U
Carbazole, ug/kg dw	330U
Di-n-butylphthalate, ug/kg dw	330U
Butylbenzylphthalate, ug/kg dw	330U

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3				
3,3'-Dichlorobenzidine, ug/kg dw	660U				
bis(2-Ethylhexyl)phthalate, ug/kg dw	330U				
Di-n-octylphthalate, ug/kg dw	330U				
Surrogate - 2-Fluorophenol	42 %				
Surrogate - Phenol-d5	48 %				
Surrogate - Nitrobenzene - d5	45 %				
Surrogate - 2-Fluorobiphenyl	45 %				
Surrogate - 2,4,6-Tribromophenol	45 %				
Surrogate - Terphenyl-d14	52 %				
Prep Date	09.10.03				
Analysis Date	09.11.03				
Batch ID	SM091003M				

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
Polynuclear Aromatics (8270)	
Acenaphthene, ug/kg dw	6.7U
Acenaphthylene, ug/kg dw	6.7U
Anthracene, ug/kg dw	6.7U
Benzo(a)anthracene, ug/kg dw	6.7U
Benzo(a)pyrene, ug/kg dw	6.7U
Benzo(b)fluoranthene, ug/kg dw	6.7U
Benzo(g,h,i)perylene, ug/kg dw	6.7U
Benzo(k)fluoranthene, ug/kg dw	6.7U
Chrysene, ug/kg dw	6.7U
Dibenzo(a,h)anthracene, ug/kg dw	6.7U
Fluoranthene, ug/kg dw	6.7U
Fluorene, ug/kg dw	6.7U
Indeno(1,2,3-cd)pyrene, ug/kg dw	6.7U
Naphthalene, ug/kg dw	6.7U
Phenanthrene, ug/kg dw	6.7U
Pyrene, ug/kg dw	6.7U
1-Methylnaphthalene, ug/kg dw	6.7U
2-Methylnaphthalene, ug/kg dw	6.7U
Surrogate - o-Terphenyl	48 %
Prep Date	09.10.03
Analysis Date	09.12.03
Batch ID	SM091003L

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
Petroleum Range Organics (FL-PRO)	
Petroleum Hydrocarbons , mg/kg dw	10U
Surrogate, o-Terphenyl	48 %
Surrogate-C39	37 %
Prep Date	09.10.03
Analysis Date	09.12.03
Batch ID	SG091003J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
TCL - Pesticides/PCB's (8081/8082)	
alpha-BHC, ug/kg dw	1.7U
beta-BHC, ug/kg dw	1.7U
delta-BHC, ug/kg dw	1.7U
gamma-BHC (Lindane), ug/kg dw	1.7U
Heptachlor, ug/kg dw	1.7U
Aldrin, ug/kg dw	1.7U
Heptachlor epoxide, ug/kg dw	1.7U
Endosulfan I, ug/kg dw	1.7U
Dieldrin, ug/kg dw	3.3U
4,4'-DDE, ug/kg dw	3.3U
Endrin, ug/kg dw	3.3U
Endosulfan II, ug/kg dw	3.3U
4,4'-DDD, ug/kg dw	3.3U
Endosulfan sulfate, ug/kg dw	3.3U
4,4'-DDT, ug/kg dw	3.3U
Methoxychlor, ug/kg dw	17U
Endrin ketone, ug/kg dw	3.3U
Endrin aldehyde, ug/kg dw	3.3U
alpha-Chlordane, ug/kg dw	1.7U
gamma-Chlordane, ug/kg dw	1.7U
Toxaphene, ug/kg dw	170U
Aroclor-1016, ug/kg dw	33U

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
Aroclor-1221, ug/kg dw	67U
Aroclor-1232, ug/kg dw	33U
Aroclor-1242, ug/kg dw	33U
Aroclor-1248, ug/kg dw	33U
Aroclor-1254, ug/kg dw	33U
Aroclor-1260, ug/kg dw	33U
Surrogate - Dibutyl Chlorendate	55 %
Surrogate - Tetrachloro-m-xylene	67 %
Surrogate - Decachlorobiphenyl	73 %
Prep Date	09.11.03
Analysis Date	09.12.03
Batch ID	SG091103H

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3
Chlorinated Herbicides (8151)	
Bentazon, ug/kg dw	35U
2,4-D, ug/kg dw	8.3U
Dalapon, ug/kg dw	2000U
2,4-DB, ug/kg dw	8.3U
Dicamba, ug/kg dw	20U
Dichloroprop, ug/kg dw	100U
Dinoseb, ug/kg dw	100U
MCPA[(4-chloro-2-methylphenoxy)-acetic acid], ug/kg dw	2000U
MCPP[2-(4-chloro-2-methylphenoxy)-propanoic acid], ug/kg dw	2000U
Pentachlorophenol, ug/kg dw	17U
Picloram, ug/kg dw	3.3U
2,4,5-TP (Silvex), ug/kg dw	8.3U
2,4,5-T, ug/kg dw	8.3U
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	101 %
Prep Date	09.09.03
Analysis Date	09.12.03
Batch ID	SG090903H

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3		
TAL Metals (6010)			
Aluminum, mg/kg dw	20U		
Antimony, mg/kg dw	2.0U		
Arsenic, mg/kg dw	1.0U		
Barium, mg/kg dw	1.0U		
Beryllium, mg/kg dw	0.40U		
Cadmium, mg/kg dw	0.50U		
Calcium, mg/kg dw	50U		
Chromium, mg/kg dw	1.0U		
Cobalt, mg/kg dw	1.0U		
Copper, mg/kg dw	2.0U		
Iron, mg/kg dw	5.0U		
Lead, mg/kg dw	0.50U		
Magnesium, mg/kg dw	50U		
Manganese, mg/kg dw	1.0U		
Nickel, mg/kg dw	4.0U		
Potassium, mg/kg dw	100U		
Selenium, mg/kg dw	1.0U		
Silver, mg/kg dw	1.0U		
Sodium, mg/kg dw	50U		
Thallium, mg/kg dw	1.0U		
Vanadium, mg/kg dw	1.0U		
Zinc, mg/kg dw	2.0U		
Prep Date	09.10.03		
Analysis Date	09.11.03		
Batch ID	ME091003C		

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73924-3	Method Blank		JETC01

PARAMETER	73924-3		
Mercury (7471), mg/kg dw	0.020U		
Prep Date	09.10.03		
Analysis Date	09.10.03		
Batch ID	ME091003R		
pH (150.1)	---		

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-6	Method Blank		JETC01

PARAMETER	73924-6				
TCL Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U				
Bromomethane (Methyl bromide), ug/l	1.0U				
Vinyl chloride, ug/l	1.0U				
Chloroethane, ug/l	1.0U				
Methylene chloride (Dichloromethane), ug/l	5.0U				
Acetone, ug/l	25U				
Carbon disulfide, ug/l	1.0U				
1,1-Dichloroethene, ug/l	1.0U				
1,1-Dichloroethane, ug/l	1.0U				
cis-1,2-Dichloroethylene, ug/l	1.0U				
trans-1,2-Dichloroethene, ug/l	1.0U				
Chloroform, ug/l	1.0U				
1,2-Dichloroethane, ug/l	1.0U				
2-Butanone (MEK), ug/l	10U				
1,1,1-Trichloroethane, ug/l	1.0U				
Carbon tetrachloride, ug/l	1.0U				
Bromodichloromethane, ug/l	1.0U				
1,2-Dichloropropane, ug/l	1.0U				
cis-1,3-Dichloropropene, ug/l	1.0U				
Trichloroethene, ug/l	1.0U				
Dibromochloromethane, ug/l	1.0U				
1,1,2-Trichloroethane, ug/l	1.0U				

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Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-6	Method Blank		JETC01

PARAMETER	73924-6
Benzene, ug/l	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U
Bromoform, ug/l	1.0U
4-Methyl-2-pentanone (MIBK), ug/l	10U
2-Hexanone, ug/l	10U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Styrene, ug/l	1.0U
Xylenes, Total, ug/l	2.0U
Surrogate - Dibromofluoromethane	112 %
Surrogate - Toluene-d8	104 %
Surrogate - 4-Bromofluorobenzene	100 %
Prep Date	09.09.03
Analysis Date	09.09.03
Batch ID	VM090903N

LOG NO: T3-73924
Received: 06 SEP 03
Reported: 15 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 134430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
73924-6	Method Blank		JETC01

PARAMETER	73924-6				

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Method: EPA SW-846, Update III; FL-PRO

Florida Department of Health Certification No.: E81005

U Analyzed for but not detected.

J Estimated value; reported between the Method Detection Limit (MDL) and the Reporting Limit (RL).

B Estimated value; reported between the Instrument Detection Limit (IDL) and the Reporting Limit (RL).

* Reported down to the Method Detection Limit.

*F61 = Recovery of the Matrix Spike is outside advisory limits due to the abundance of target analyte in the sample.

*F73 = The recovery of the Matrix Spike is outside advisory limits due to matrix interference in the sample.

*F99 = % RPD is outside advisory limits.

*F86 = Because spikes are not appropriate for this method, reported precision was calculated from duplicate analysis of a sample in the batch.

DATA DELIVERABLES

pH
Methods 150.1/9045

CASE NARRATIVE

CASE NARRATIVE
PH

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: 150.1
Cleanup: N/A
Analysis: 150.1

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

RAW DATA

pH
EPA Method 9045 (Soils)

DATE: 09.08.03

Time	Analyst	Batch ID	Log #	TU = 9.28 Sample ID	pH Units	Temp °C	Acceptance Criteria	
1030	MF	GE090803HS	QC Check	ERA 77079	9.19	19.5	+/- 0.20 pH units	123%
↓	↓	↓	Blank	Di H2O	9.09	21.4		
			T373923	Comp	7.67	19.4		
			T373924	BF001	6.31	19.3		
						MF 09/09/03		
1030	MF	GE090803HS	Lab Dup	BF001	6.42	19.3	<40% RPD	15%
↓	↓	↓	QC Check	Buffer 7	7.05	19.7	+/- 0.10 pH units	
			Blank	Di H2O	8.70	21.9		
						MF 09/09/03		
			Lab Dup				<40% RPD	
			QC Check	Buffer 7			+/- 0.10 pH units	
			Blank	Di H2O				
			Lab Dup				<40% RPD	
			QC Check	Buffer 7			+/- 0.10 pH units	
			Blank	Di H2O				

$$\%RPD = \frac{H1 - H2}{\frac{H1 + H2}{2}} \times 100$$

[H+] = antilog pH -1

H1 & H2 = hydrogen ion conc. [H+]

REVIEWED BY: DATE: 9/10/03

FGE00P2-T:06.14.01:2

STL Tallahassee

TAL METALS and MERCURY
Method 6010/ 7470

CASE NARRATIVE

CASE NARRATIVE
TAL METALS

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3005
Cleanup: N/A
Analysis: SW-846 6010/7471

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Matrix Spike recoveries for Aluminum, Antimony, Calcium, Iron, Manganese, Magnesium, Potassium, and Sodium were outside the established limits due to the abundance of target analyte in the sample.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental

SDG No.: JETC01 **Method Type:** SW846 **SOW No.:** SW846

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Lab Sample ID	Client Sample ID	QC Description
T373924-1	086-BFC-S-0904-03	

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before applications of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmetal

SDG No.: JETC01 Method Type: SW846 SOW No.: SW846

Contract: Lab Code: STLTAL Case No.: SAS No.:

Lab Sample ID	Client Sample ID	QC Description
T373924-1	086-BFC-S-0904-03	

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before applications of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or

Signature: Name:

Date: Title:

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental **SDG No.:** JETC01 **Method Type:** SW846

Sample ID: T373924-1 **Client ID:** 086-BFC-S-0904-03

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Date Received:** 9/6/03 **Level:** LOW

% Solids: 91

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	1200.00	mg/Kg dw			P	6.30	TJA61E Trace	091103
7440-36-0	Antimony	2.20	mg/Kg dw	U		P	0.54	TJA61E Trace	091103
7440-38-2	Arsenic	0.74	mg/Kg dw	B		P	0.49	TJA61E Trace	091103
7440-39-2	Barium	2.10	mg/Kg dw			P	0.17	TJA61E Trace	091103
7440-41-7	Beryllium	0.43	mg/Kg dw	U		P	0.06	TJA61E Trace	091103
7440-43-9	Cadmium	0.54	mg/Kg dw	U		P	0.09	TJA61E Trace	091103
7440-70-2	Calcium	360.00	mg/Kg dw			P	22.00	TJA61E Trace	091103
7440-47-3	Chromium	2.10	mg/Kg dw			P	0.18	TJA61E Trace	091103
7440-48-4	Cobalt	0.22	mg/Kg dw	B		P	0.21	TJA61E Trace	091103
7440-50-8	Copper	0.83	mg/Kg dw	B		P	0.78	TJA61E Trace	091103
7439-89-6	Iron	140.00	mg/Kg dw			P	4.90	TJA61E Trace	091103
7439-92-1	Lead	4.10	mg/Kg dw			P	0.46	TJA61E Trace	091103
7439-95-4	Magnesium	36.00	mg/Kg dw	B		P	7.40	TJA61E Trace	091103
7439-96-5	Manganese	1.70	mg/Kg dw			P	0.23	TJA61E Trace	091103
7440-02-0	Nickel	4.30	mg/Kg dw	U		P	0.47	TJA61E Trace	091103
7440-09-7	Potassium	24.00	mg/Kg dw	B		P	17.00	TJA61E Trace	091103
7782-49-2	Selenium	1.10	mg/Kg dw	U		P	0.47	TJA61E Trace	091103
7440-22-4	Silver	1.10	mg/Kg dw	U		P	0.21	TJA61E Trace	091103
7440-23-5	Sodium	54.00	mg/Kg dw	U		P	53.00	TJA61E Trace	091103
7440-28-0	Thallium	1.10	mg/Kg dw	U		P	0.62	TJA61E Trace	091103
7440-62-2	Vanadium	1.50	mg/Kg dw			P	0.12	TJA61E Trace	091103
7440-66-6	Zinc	2.70	mg/Kg dw			P	1.10	TJA61E Trace	091103

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmetal **SDG No.:** JETC01 **Method Type:** SW846

Sample ID: T373924-1 **Client ID:** 086-BFC-S-0904-03

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Date Received:** 9/6/03 **Level:** LOW

% Solids: 91

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-97-6	Mercury	0.018	mg/Kg dw		B	CV	0.003	CVA	0910CVSS

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After** **Artifacts:**

Comments:

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Aluminum	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Antimony	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Arsenic	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Barium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Beryllium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Cadmium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Calcium	2100.00	2000.00	105	90.0 - 110.0	P	9/11/03	08:57	091103
	Chromium	2100.00	2000.00	105	90.0 - 110.0	P	9/11/03	08:57	091103
	Cobalt	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Copper	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Iron	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Lead	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Magnesium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Manganese	2100.00	2000.00	105	90.0 - 110.0	P	9/11/03	08:57	091103
	Nickel	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Potassium	21000.00	20000.00	105	90.0 - 110.0	P	9/11/03	08:57	091103
	Selenium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Silver	1900.00	2000.00	95	90.0 - 110.0	P	9/11/03	08:57	091103
	Sodium	16000.00	17000.00	94	90.0 - 110.0	P	9/11/03	08:57	091103
	Thallium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Vanadium	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103
	Zinc	2000.00	2000.00	100	90.0 - 110.0	P	9/11/03	08:57	091103

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Arsenic	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Iron	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Lead	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Selenium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	10:49	091103

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV2									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Arsenic	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	11:59	091103
	Barium	980.00	1000.00	98	90.0 - 110.0	P	9/11/03	11:59	091103
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Cadmium	980.00	1000.00	98	90.0 - 110.0	P	9/11/03	11:59	091103
	Calcium	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	11:59	091103
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Iron	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Lead	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Nickel	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	11:59	091103
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Selenium	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	11:59	091103
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Thallium	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	11:59	091103
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	11:59	091103
	Zinc	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	11:59	091103

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV3									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Arsenic	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Barium	970.00	1000.00	97	90.0 - 110.0	P	9/11/03	12:56	091103
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Iron	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Lead	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Selenium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	12:56	091103

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV9									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Arsenic	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Iron	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	18:10	091103
	Lead	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Selenium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	18:10	091103

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10									
	Aluminum	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	19:27	091103
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Arsenic	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	19:27	091103
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Iron	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Lead	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	19:27	091103
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Selenium	990.00	1000.00	99	90.0 - 110.0	P	9/11/03	19:27	091103
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/11/03	19:27	091103

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Mercury	2.80	3.00	93.3	90.0 - 110.0	CV	9/10/03	13:35	0910CVSS
CCV1									
	Mercury	1.79	2.00	89.5	80.0 - 120.0	CV	9/10/03	14:04	0910CVSS
CCV2									
	Mercury	1.79	2.00	89.5	80.0 - 120.0	CV	9/10/03	14:18	0910CVSS

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Aluminum	200.00	200.00	100	50 - 150	P	9/11/03	10:02	091103
	Arsenic	10.00	8.00	125	50 - 150	P	9/11/03	10:02	091103
	Barium	9.60	10.00	96	50 - 150	P	9/11/03	10:02	091103
	Beryllium	3.60	4.00	90	50 - 150	P	9/11/03	10:02	091103
	Cadmium	4.40	5.00	88	50 - 150	P	9/11/03	10:02	091103
	Calcium	490.00	500.00	98	50 - 150	P	9/11/03	10:02	091103
	Chromium	9.70	10.00	97	50 - 150	P	9/11/03	10:02	091103
	Cobalt	9.70	10.00	97	50 - 150	P	9/11/03	10:02	091103
	Copper	8.20	10.00	82	50 - 150	P	9/11/03	10:02	091103
	Iron	49.00	50.00	98	50 - 150	P	9/11/03	10:02	091103
	Lead	4.90	5.00	98	50 - 150	P	9/11/03	10:02	091103
	Magnesium	470.00	500.00	94	50 - 150	P	9/11/03	10:02	091103
	Manganese	10.00	10.00	100	50 - 150	P	9/11/03	10:02	091103
	Nickel	19.00	20.00	95	50 - 150	P	9/11/03	10:02	091103
	Potassium	1000.00	1000.00	100	50 - 150	P	9/11/03	10:02	091103
	Selenium	12.00	10.00	120	50 - 150	P	9/11/03	10:02	091103
	Silver	3.80	5.00	76	50 - 150	P	9/11/03	10:02	091103
	Sodium	420.00	500.00	84	50 - 150	P	9/11/03	10:02	091103
	Vanadium	10.00	10.00	100	50 - 150	P	9/11/03	10:02	091103
	Zinc	20.00	20.00	100	50 - 150	P	9/11/03	10:02	091103
CRDL2									
	Antimony	24.00	20.00	120	50 - 150	P	9/11/03	10:19	091103
	Thallium	12.00	10.00	120	50 - 150	P	9/11/03	10:19	091103

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL3									
	Aluminum	220.00	200.00	110	50 - 150	P	9/11/03	18:39	091103
	Antimony	24.00	20.00	120	50 - 150	P	9/11/03	18:39	091103
	Arsenic	9.10	8.00	114	50 - 150	P	9/11/03	18:39	091103
	Barium	9.90	10.00	99	50 - 150	P	9/11/03	18:39	091103
	Beryllium	3.30	4.00	82	50 - 150	P	9/11/03	18:39	091103
	Cadmium	5.00	5.00	100	50 - 150	P	9/11/03	18:39	091103
	Calcium	470.00	500.00	94	50 - 150	P	9/11/03	18:39	091103
	Chromium	9.50	10.00	95	50 - 150	P	9/11/03	18:39	091103
	Cobalt	9.40	10.00	94	50 - 150	P	9/11/03	18:39	091103
	Copper	7.00	10.00	70	50 - 150	P	9/11/03	18:39	091103
	Iron	55.00	50.00	110	50 - 150	P	9/11/03	18:39	091103
	Lead	4.90	5.00	98	50 - 150	P	9/11/03	18:39	091103
	Magnesium	470.00	500.00	94	50 - 150	P	9/11/03	18:39	091103
	Manganese	10.00	10.00	100	50 - 150	P	9/11/03	18:39	091103
	Nickel	20.00	20.00	100	50 - 150	P	9/11/03	18:39	091103
	Potassium	1000.00	1000.00	100	50 - 150	P	9/11/03	18:39	091103
	Selenium	14.00	10.00	140	50 - 150	P	9/11/03	18:39	091103
	Silver	4.90	5.00	98	50 - 150	P	9/11/03	18:39	091103
	Sodium	330.00	500.00	66	50 - 150	P	9/11/03	18:39	091103
	Thallium	8.80	10.00	88	50 - 150	P	9/11/03	18:39	091103
	Vanadium	10.00	10.00	100	50 - 150	P	9/11/03	18:39	091103
	Zinc	20.00	20.00	100	50 - 150	P	9/11/03	18:39	091103

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Mercury	0.205	0.20	102.5	50 - 150	CV	9/10/03	13:40	0910CVSS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/11/03	09:09	091103
	Antimony	5.10	+/-20.00	B	5.00	20.00	P	9/11/03	09:09	091103
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/11/03	09:09	091103
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/11/03	09:09	091103
	Beryllium	4.00	+/-4.00	U	0.54	4.00	P	9/11/03	09:09	091103
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/11/03	09:09	091103
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/11/03	09:09	091103
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/11/03	09:09	091103
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	09:09	091103
	Copper	20.00	+/-20.00	U	0.90	20.00	P	9/11/03	09:09	091103
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/11/03	09:09	091103
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/11/03	09:09	091103
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/11/03	09:09	091103
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	09:09	091103
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/11/03	09:09	091103
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/11/03	09:09	091103
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/11/03	09:09	091103
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/11/03	09:09	091103
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/11/03	09:09	091103
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/11/03	09:09	091103
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/11/03	09:09	091103
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/11/03	09:09	091103

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB1										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/11/03	10:53	091103
	Antimony	20.00	+/-20.00	U	5.00	20.00	P	9/11/03	10:53	091103
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/11/03	10:53	091103
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/11/03	10:53	091103
	Beryllium	4.00	+/-4.00	U	0.54	4.00	P	9/11/03	10:53	091103
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/11/03	10:53	091103
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/11/03	10:53	091103
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/11/03	10:53	091103
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	10:53	091103
	Copper	-1.20	+/-20.00	B	0.90	20.00	P	9/11/03	10:53	091103
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/11/03	10:53	091103
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/11/03	10:53	091103
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/11/03	10:53	091103
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	10:53	091103
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/11/03	10:53	091103
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/11/03	10:53	091103
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/11/03	10:53	091103
	Silver	-2.70	+/-10.00	B	1.90	10.00	P	9/11/03	10:53	091103
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/11/03	10:53	091103
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/11/03	10:53	091103
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/11/03	10:53	091103
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/11/03	10:53	091103

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/11/03	12:02	091103
	Antimony	5.60	+/-20.00	B	5.00	20.00	P	9/11/03	12:02	091103
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/11/03	12:02	091103
	Barium	1.50	+/-10.00	B	1.20	10.00	P	9/11/03	12:02	091103
	Beryllium	1.10	+/-4.00	B	0.54	4.00	P	9/11/03	12:02	091103
	Cadmium	1.20	+/-5.00	B	0.71	5.00	P	9/11/03	12:02	091103
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/11/03	12:02	091103
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/11/03	12:02	091103
	Cobalt	1.80	+/-10.00	B	1.40	10.00	P	9/11/03	12:02	091103
	Copper	20.00	+/-20.00	U	0.90	20.00	P	9/11/03	12:02	091103
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/11/03	12:02	091103
	Lead	2.40	+/-5.00	B	1.50	5.00	P	9/11/03	12:02	091103
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/11/03	12:02	091103
	Manganese	1.40	+/-10.00	B	1.40	10.00	P	9/11/03	12:02	091103
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/11/03	12:02	091103
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/11/03	12:02	091103
	Selenium	4.80	+/-10.00	B	4.20	10.00	P	9/11/03	12:02	091103
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/11/03	12:02	091103
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/11/03	12:02	091103
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/11/03	12:02	091103
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/11/03	12:02	091103
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/11/03	12:02	091103

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB3										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/11/03	13:02	091103
	Antimony	6.80	+/-20.00	B	5.00	20.00	P	9/11/03	13:02	091103
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/11/03	13:02	091103
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/11/03	13:02	091103
	Beryllium	4.00	+/-4.00	U	0.54	4.00	P	9/11/03	13:02	091103
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/11/03	13:02	091103
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/11/03	13:02	091103
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/11/03	13:02	091103
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	13:02	091103
	Copper	20.00	+/-20.00	U	0.90	20.00	P	9/11/03	13:02	091103
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/11/03	13:02	091103
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/11/03	13:02	091103
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/11/03	13:02	091103
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	13:02	091103
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/11/03	13:02	091103
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/11/03	13:02	091103
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/11/03	13:02	091103
	Silver	-2.00	+/-10.00	B	1.90	10.00	P	9/11/03	13:02	091103
	Sodium	-410.00	+/-500.00	B	310.00	500.00	P	9/11/03	13:02	091103
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/11/03	13:02	091103
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/11/03	13:02	091103
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/11/03	13:02	091103

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB9										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/11/03	18:13	091103
	Antimony	20.00	+/-20.00	U	5.00	20.00	P	9/11/03	18:13	091103
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/11/03	18:13	091103
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/11/03	18:13	091103
	Beryllium	4.00	+/-4.00	U	0.54	4.00	P	9/11/03	18:13	091103
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/11/03	18:13	091103
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/11/03	18:13	091103
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/11/03	18:13	091103
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	18:13	091103
	Copper	-1.60	+/-20.00	B	0.90	20.00	P	9/11/03	18:13	091103
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/11/03	18:13	091103
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/11/03	18:13	091103
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/11/03	18:13	091103
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	18:13	091103
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/11/03	18:13	091103
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/11/03	18:13	091103
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/11/03	18:13	091103
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/11/03	18:13	091103
	Sodium	-320.00	+/-500.00	B	310.00	500.00	P	9/11/03	18:13	091103
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/11/03	18:13	091103
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/11/03	18:13	091103
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/11/03	18:13	091103

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB10										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/11/03	19:31	091103
	Antimony	8.00	+/-20.00	B	5.00	20.00	P	9/11/03	19:31	091103
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/11/03	19:31	091103
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/11/03	19:31	091103
	Beryllium	4.00	+/-4.00	U	0.54	4.00	P	9/11/03	19:31	091103
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/11/03	19:31	091103
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/11/03	19:31	091103
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/11/03	19:31	091103
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	19:31	091103
	Copper	-2.50	+/-20.00	B	0.90	20.00	P	9/11/03	19:31	091103
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/11/03	19:31	091103
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/11/03	19:31	091103
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/11/03	19:31	091103
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/11/03	19:31	091103
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/11/03	19:31	091103
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/11/03	19:31	091103
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/11/03	19:31	091103
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/11/03	19:31	091103
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/11/03	19:31	091103
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/11/03	19:31	091103
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/11/03	19:31	091103
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/11/03	19:31	091103

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1	Mercury	0.200	+/-0.200	U	0.072	0.200	CV	9/10/03	13:38	0910CVSS
CCB1	Mercury	0.200	+/-0.200	U	0.072	0.200	CV	9/10/03	14:06	0910CVSS
CCB2	Mercury	0.200	+/-0.200	U	0.072	0.200	CV	9/10/03	14:21	0910CVSS

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/Kg	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
PBS			SOIL							
	Aluminum	20.00	+/-20.00	U	5.80	20.00	P	9/11/03	11:24	091103
	Antimony	2.00	+/-2.00	U	0.50	2.00	P	9/11/03	11:24	091103
	Arsenic	1.00	+/-1.00	U	0.45	1.00	P	9/11/03	11:24	091103
	Barium	1.00	+/-1.00	U	0.16	1.00	P	9/11/03	11:24	091103
	Beryllium	0.40	+/-0.40	U	0.06	0.40	P	9/11/03	11:24	091103
	Cadmium	0.50	+/-0.50	U	0.09	0.50	P	9/11/03	11:24	091103
	Calcium	50.00	+/-50.00	U	20.00	50.00	P	9/11/03	11:24	091103
	Chromium	1.00	+/-1.00	U	0.17	1.00	P	9/11/03	11:24	091103
	Cobalt	1.00	+/-1.00	U	0.19	1.00	P	9/11/03	11:24	091103
	Copper	2.00	+/-2.00	U	0.72	2.00	P	9/11/03	11:24	091103
	Iron	5.00	+/-5.00	U	4.50	5.00	P	9/11/03	11:24	091103
	Lead	0.50	+/-0.50	U	0.42	0.50	P	9/11/03	11:24	091103
	Magnesium	50.00	+/-50.00	U	6.80	50.00	P	9/11/03	11:24	091103
	Manganese	1.00	+/-1.00	U	0.21	1.00	P	9/11/03	11:24	091103
	Nickel	4.00	+/-4.00	U	0.43	4.00	P	9/11/03	11:24	091103
	Potassium	100.00	+/-100.00	U	16.00	100.00	P	9/11/03	11:24	091103
	Selenium	1.00	+/-1.00	U	0.43	1.00	P	9/11/03	11:24	091103
	Silver	1.00	+/-1.00	U	0.19	1.00	P	9/11/03	11:24	091103
	Sodium	50.00	+/-50.00	U	49.00	50.00	P	9/11/03	11:24	091103
	Thallium	1.00	+/-1.00	U	0.57	1.00	P	9/11/03	11:24	091103
	Vanadium	1.00	+/-1.00	U	0.11	1.00	P	9/11/03	11:24	091103
	Zinc	2.00	+/-2.00	U	0.98	2.00	P	9/11/03	11:24	091103

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/Kg	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
PBS;0910R			**SOIL**							
	Mercury	0.020	+/-0.020	U	0.003	0.020	CV	9/10/03	13:42	0910CVSS

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Aluminum	480000.00	500000.00	96.0	80 - 120	9/11/03	10:34	091103
	Antimony	15.00			100 - 100	9/11/03	10:34	091103
	Arsenic	7.20			100 - 100	9/11/03	10:34	091103
	Barium	1.60			100 - 100	9/11/03	10:34	091103
	Beryllium	-0.60			100 - 100	9/11/03	10:34	091103
	Cadmium	-1.10			100 - 100	9/11/03	10:34	091103
	Calcium	490000.00	500000.00	98.0	80 - 120	9/11/03	10:34	091103
	Chromium	1.50			100 - 100	9/11/03	10:34	091103
	Cobalt	-1.30			100 - 100	9/11/03	10:34	091103
	Copper	1.20			100 - 100	9/11/03	10:34	091103
	Iron	200000.00	200000.00	100.0	80 - 120	9/11/03	10:34	091103
	Lead	-0.04			100 - 100	9/11/03	10:34	091103
	Magnesium	540000.00	500000.00	108.0	80 - 120	9/11/03	10:34	091103
	Manganese	-2.80			100 - 100	9/11/03	10:34	091103
	Nickel	-0.06			100 - 100	9/11/03	10:34	091103
	Potassium	-31.00			100 - 100	9/11/03	10:34	091103
	Selenium	7.20			100 - 100	9/11/03	10:34	091103
	Silver	-1.60			100 - 100	9/11/03	10:34	091103
	Sodium	-210.00			100 - 100	9/11/03	10:34	091103
	Thallium	-1.20			100 - 100	9/11/03	10:34	091103
	Vanadium	2.70			100 - 100	9/11/03	10:34	091103
	Zinc	13.00			100 - 100	9/11/03	10:34	091103

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental

SDG No.: JETC01

Contract:

Lab Code: STLTAL **Case No.:** **SAS No.:**

ICS Source:

Instrument ID: TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB1								
	Aluminum	480000.00	500000.00	96.0	80 - 120	9/11/03	10:37	091103
	Antimony	620.00	600.00	103.3	80 - 120	9/11/03	10:37	091103
	Arsenic	100.00	100.00	100.0	80 - 120	9/11/03	10:37	091103
	Barium	510.00	500.00	102.0	80 - 120	9/11/03	10:37	091103
	Beryllium	520.00	500.00	104.0	80 - 120	9/11/03	10:37	091103
	Cadmium	960.00	1000.00	96.0	80 - 120	9/11/03	10:37	091103
	Calcium	480000.00	500000.00	96.0	80 - 120	9/11/03	10:37	091103
	Chromium	510.00	500.00	102.0	80 - 120	9/11/03	10:37	091103
	Cobalt	470.00	500.00	94.0	80 - 120	9/11/03	10:37	091103
	Copper	530.00	500.00	106.0	80 - 120	9/11/03	10:37	091103
	Iron	200000.00	200000.00	100.0	80 - 120	9/11/03	10:37	091103
	Lead	960.00	1000.00	96.0	80 - 120	9/11/03	10:37	091103
	Magnesium	540000.00	500000.00	108.0	80 - 120	9/11/03	10:37	091103
	Manganese	500.00	500.00	100.0	80 - 120	9/11/03	10:37	091103
	Nickel	930.00	1000.00	93.0	80 - 120	9/11/03	10:37	091103
	Potassium	-57.00			100 - 100	9/11/03	10:37	091103
	Selenium	56.000	50.00	112.00	80 - 120	9/11/03	10:37	091103
	Silver	1100.00	1000.00	110.0	80 - 120	9/11/03	10:37	091103
	Sodium	-140.00			100 - 100	9/11/03	10:37	091103
	Thallium	89.000	100.00	89.0	80 - 120	9/11/03	10:37	091103
	Vanadium	520.00	500.00	104.0	80 - 120	9/11/03	10:37	091103
	Zinc	940.00	1000.00	94.0	80 - 120	9/11/03	10:37	091103

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A2								
	Aluminum	460000.00	500000.00	92.0	80 - 120	9/11/03	19:08	091103
	Antimony	10.00			100 - 100	9/11/03	19:08	091103
	Arsenic	3.70			100 - 100	9/11/03	19:08	091103
	Barium	1.60			100 - 100	9/11/03	19:08	091103
	Beryllium	-0.77			100 - 100	9/11/03	19:08	091103
	Cadmium	-1.50			100 - 100	9/11/03	19:08	091103
	Calcium	480000.00	500000.00	96.0	80 - 120	9/11/03	19:08	091103
	Chromium	2.90			100 - 100	9/11/03	19:08	091103
	Cobalt	-0.68			100 - 100	9/11/03	19:08	091103
	Copper	0.20			100 - 100	9/11/03	19:08	091103
	Iron	190000.00	200000.00	95.0	80 - 120	9/11/03	19:08	091103
	Lead	2.10			100 - 100	9/11/03	19:08	091103
	Magnesium	530000.00	500000.00	106.0	80 - 120	9/11/03	19:08	091103
	Manganese	-3.20			100 - 100	9/11/03	19:08	091103
	Nickel	0.66			100 - 100	9/11/03	19:08	091103
	Potassium	23.00			100 - 100	9/11/03	19:08	091103
	Selenium	7.50			100 - 100	9/11/03	19:08	091103
	Silver	1.30			100 - 100	9/11/03	19:08	091103
	Sodium	180.00			100 - 100	9/11/03	19:08	091103
	Thallium	-6.20			100 - 100	9/11/03	19:08	091103
	Vanadium	3.60			100 - 100	9/11/03	19:08	091103
	Zinc	11.00			100 - 100	9/11/03	19:08	091103

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB2								
	Aluminum	460000.00	500000.00	92.0	80 - 120	9/11/03	19:13	091103
	Antimony	580.00	600.00	96.7	80 - 120	9/11/03	19:13	091103
	Arsenic	99.00	100.00	99.0	80 - 120	9/11/03	19:13	091103
	Barium	510.00	500.00	102.0	80 - 120	9/11/03	19:13	091103
	Beryllium	510.00	500.00	102.0	80 - 120	9/11/03	19:13	091103
	Cadmium	900.00	1000.00	90.0	80 - 120	9/11/03	19:13	091103
	Calcium	480000.00	500000.00	96.0	80 - 120	9/11/03	19:13	091103
	Chromium	500.00	500.00	100.0	80 - 120	9/11/03	19:13	091103
	Cobalt	460.00	500.00	92.0	80 - 120	9/11/03	19:13	091103
	Copper	520.00	500.00	104.0	80 - 120	9/11/03	19:13	091103
	Iron	200000.00	200000.00	100.0	80 - 120	9/11/03	19:13	091103
	Lead	920.00	1000.00	92.0	80 - 120	9/11/03	19:13	091103
	Magnesium	530000.00	500000.00	106.0	80 - 120	9/11/03	19:13	091103
	Manganese	490.00	500.00	98.0	80 - 120	9/11/03	19:13	091103
	Nickel	890.00	1000.00	89.0	80 - 120	9/11/03	19:13	091103
	Potassium	-62.00			100 - 100	9/11/03	19:13	091103
	Selenium	55.000	50.00	110.00	80 - 120	9/11/03	19:13	091103
	Silver	1100.00	1000.00	110.0	80 - 120	9/11/03	19:13	091103
	Sodium	-51.00			100 - 100	9/11/03	19:13	091103
	Thallium	92.000	100.00	92.0	80 - 120	9/11/03	19:13	091103
	Vanadium	510.00	500.00	102.0	80 - 120	9/11/03	19:13	091103
	Zinc	900.00	1000.00	90.0	80 - 120	9/11/03	19:13	091103

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POST DIGEST SPIKE SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Level:** LOW **Client ID:** 086-BFC-S-0904-03A

Sample ID: T373924-1 **Spiked ID:** T373924-1A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	85 - 115	1.3000		0.2040		1.0	109.6		CV

DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmental **Level:** LOW **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Sample ID:** LCS **Client ID:** LCSD; S-2 ME091003C

Percent Solids for Sample: 100.00 **Duplicate ID:** LCSD **Percent Solids for Duplicate:** 100.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg		200		200		0		P
Antimony	mg/Kg		51		52		1.9		P
Arsenic	mg/Kg		200		200		0		P
Barium	mg/Kg		210		220		4.6		P
Beryllium	mg/Kg		5.2		5.3		1.9		P
Cadmium	mg/Kg		5.2		5.2		0		P
Calcium	mg/Kg		480		490		2.1		P
Chromium	mg/Kg		22		22		0		P
Cobalt	mg/Kg		53		53		0		P
Copper	mg/Kg		27		27		0		P
Iron	mg/Kg		110		110		0		P
Lead	mg/Kg		52		53		1.9		P
Magnesium	mg/Kg		480		490		2.1		P
Manganese	mg/Kg		53		54		1.9		P
Nickel	mg/Kg		53		53		0		P
Potassium	mg/Kg		470		480		2.1		P
Selenium	mg/Kg		190		200		5.1		P
Silver	mg/Kg		5.0		5.1		2.0		P
Sodium	mg/Kg		490		510		4.0		P
Thallium	mg/Kg		210		220		4.6		P
Vanadium	mg/Kg		54		54		0		P
Zinc	mg/Kg		52		52		0		P

DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmetal **Level:** LOW **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Sample ID:** LCS;0910R **Client ID:** LCSD;0910R

Percent Solids for Sample: 100.00 **Duplicate ID:** LCSD;0910R **Percent Solids for Duplicate:** 100.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg		0.20		0.20		0		CV

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS								
	Aluminum	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Antimony	mg/Kg	50.000	51		102	75.0 - 125.0	P
	Arsenic	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Barium	mg/Kg	200.000	210		105	75.0 - 125.0	P
	Beryllium	mg/Kg	5.000	5.2		104	75.0 - 125.0	P
	Cadmium	mg/Kg	5.000	5.2		104	75.0 - 125.0	P
	Calcium	mg/Kg	500.000	480		96	75.0 - 125.0	P
	Chromium	mg/Kg	20.000	22		110	75.0 - 125.0	P
	Cobalt	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Copper	mg/Kg	25.000	27		108	75.0 - 125.0	P
	Iron	mg/Kg	100.000	110		110	75.0 - 125.0	P
	Lead	mg/Kg	50.000	52		104	75.0 - 125.0	P
	Magnesium	mg/Kg	500.000	480		96	75.0 - 125.0	P
	Manganese	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Nickel	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Potassium	mg/Kg	500.000	470		94	75.0 - 125.0	P
	Selenium	mg/Kg	200.000	190		95	75.0 - 125.0	P
	Silver	mg/Kg	5.000	5.0		100	75.0 - 125.0	P
	Sodium	mg/Kg	500.000	490		98	75.0 - 125.0	P
	Thallium	mg/Kg	200.000	210		105	75.0 - 125.0	P
	Vanadium	mg/Kg	50.000	54		108	75.0 - 125.0	P
	Zinc	mg/Kg	50.000	52		104	75.0 - 125.0	P

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD								
	Aluminum	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Antimony	mg/Kg	50.000	52		104	75.0 - 125.0	P
	Arsenic	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Barium	mg/Kg	200.000	220		110	75.0 - 125.0	P
	Beryllium	mg/Kg	5.000	5.3		106	75.0 - 125.0	P
	Cadmium	mg/Kg	5.000	5.2		104	75.0 - 125.0	P
	Calcium	mg/Kg	500.000	490		98	75.0 - 125.0	P
	Chromium	mg/Kg	20.000	22		110	75.0 - 125.0	P
	Cobalt	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Copper	mg/Kg	25.000	27		108	75.0 - 125.0	P
	Iron	mg/Kg	100.000	110		110	75.0 - 125.0	P
	Lead	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Magnesium	mg/Kg	500.000	490		98	75.0 - 125.0	P
	Manganese	mg/Kg	50.000	54		108	75.0 - 125.0	P
	Nickel	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Potassium	mg/Kg	500.000	480		96	75.0 - 125.0	P
	Selenium	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Silver	mg/Kg	5.000	5.1		102	75.0 - 125.0	P
	Sodium	mg/Kg	500.000	510		102	75.0 - 125.0	P
	Thallium	mg/Kg	200.000	220		110	75.0 - 125.0	P
	Vanadium	mg/Kg	50.000	54		108	75.0 - 125.0	P
	Zinc	mg/Kg	50.000	52		104	75.0 - 125.0	P

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS;0910R								
	Mercury	mg/Kg	0.20	0.20		100	80.0 - 120.0	CV

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD;0910R								
	Mercury	mg/Kg	0.20	0.20		100	80.0 - 120.0	CV

METHOD DETECTION LIMITS

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Analyte	Wave- length (nm)	MDL ug/L	PQL ug/L
TJA61E Trace			**Date:**
Aluminum	308.20	58.0	200.0
Antimony	206.80	5.0	20.0
Arsenic	193.60	4.5	10.0
Barium	455.40	1.6	10.0
Beryllium	313.00	0.6	4.0
Cadmium	228.80	0.9	5.0
Calcium	317.90	200.0	500.0
Chromium	267.70	1.7	10.0
Cobalt	228.60	1.9	10.0
Copper	324.70	7.2	20.0
Iron	259.90	45.0	50.0
Lead	220.30	4.2	5.0
Magnesium	279.00	68.0	500.0
Manganese	257.60	2.1	10.0
Nickel	231.60	4.3	40.0
Potassium	766.40	160.0	1000.0
Selenium	196.00	4.3	10.0
Silver	328.00	1.9	10.0
Sodium	330.20	490.0	500.0
Thallium	190.80	5.7	10.0
Vanadium	292.40	1.1	10.0
Zinc	206.20	9.8	20.0

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METHOD DETECTION LIMITS

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

	Analyte	Wave- length (nm)	MDL ug/L	POL ug/L
CVA				Date:
	Mercury	253.70	0.0340	0.200

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ba
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000210	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001270	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.0009600
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0004880	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cd	Co	Cr	Cu	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0039980	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0001660	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	-0.0001070	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0933920	0.0006990	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0004010	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	-0.0004990	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000410
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Mo	Ni	Sb	Sn	V
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0221630
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0003210	0.0000000	0.0000000	0.0000000	0.0002950
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0067400
Lead	220.35	-0.0003160	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-0.0336840	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	-0.0004500	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0015660	0.0000000	0.0000000
Vanadium	292.40	-0.0030720	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Zn	Th			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.84	0.0000000	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.40	0.0000000	0.0000000			
Beryllium	313.04	0.0000000	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.71	0.0000000	0.0000000			
Cobalt	228.61	0.0000000	0.0000000			
Copper	324.75	0.0000000	0.0000000			
Iron	271.44	0.0000000	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Molybdenum	202.00	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.06	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0000000			
Thallium	190.86	0.0000000	0.0000000			
Tin	189.98	0.0000000	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

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LINEAR RANGES

Client: Aerostar Environmental **SDG No.:** JETC01

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Instrument ID: TJA61E Trace **Date:** 7/8/03

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10.00	1000000
Antimony	10.00	100000
Arsenic	10.00	30000
Barium	10.00	50000
Beryllium	10.00	15000
Cadmium	10.00	40000
Calcium	10.00	400000
Chromium	10.00	75000
Cobalt	10.00	75000
Copper	10.00	40000
Iron	10.00	200000
Lead	10.00	100000
Magnesium	10.00	500000
Manganese	10.00	10000
Nickel	10.00	10000
Potassium	10.00	40000
Selenium	10.00	50000
Silver	10.00	3000
Sodium	10.00	50000
Thallium	10.00	20000
Vanadium	10.00	20000
Zinc	10.00	10000

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LINEAR RANGES

Client: Aerostar Environmetal **SDG No.:** JETC01

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: CVA **Date:** _____

Analyte	Integration Time (sec)	LDR ug/L
Mercury		5

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SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmental

SDG No.: JETC01

Contract:

Lab Code: STLTAL

Method: P

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME091003C						
PBS	PBS; ME091003C	MB	SOIL	9/10/03	0.50	50.0	100.00
LCS	LCS; S-1 ME091003C	LCS	SOIL	9/10/03	0.50	50.0	100.00
LCSD	LCSD; S-2 ME091003C	LCSD	SOIL	9/10/03	0.50	50.0	100.00
T373924-1	086-BFC-S-0904-03	SAM	SOIL	9/10/03	0.51	50.0	91.00

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SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmetal

SDG No.: JETC01

Contract:

Lab Code: STLTAL

Method: CV

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME091003R						
PBS;0910R	PBS;0910R	MB	SOIL	9/10/03	0.60	50.0	100.00
LCS;0910R	LCS;0910R	LCS	SOIL	9/10/03	0.60	50.0	100.00
LCSD;0910R	LCSD;0910R	LCSD	SOIL	9/10/03	0.60	50.0	100.00
T373924-1	086-BFC-S-0904-03	SAM	SOIL	9/10/03	0.61	50.0	91.00

ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code STLTAL Case No.: SAS No.: SDG JETC01

Instrument ID Number: TJA61E Trace Method: P Run Number: 091103

Start Date: 9/11/03 End Date: 9/11/03

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	08:30		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1.00	08:31		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S2	1.00	08:32		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S3	1.00	08:33		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S4	1.00	08:34		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S5	1.00	08:35		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S6	1.00	08:36		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV1	1.00	08:57		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB1	1.00	09:09		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 4	1.00	09:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 3	1.00	09:42		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 2	1.00	09:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
FE STD	1.00	09:52		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 5	1.00	09:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL1	1.00	10:02		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	
CRDL2	1.00	10:19			X																			X			
ICS-A1	1.00	10:34		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB1	1.00	10:37		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	10:49		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB1	1.00	10:53		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.00	11:24		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS	1.00	11:27		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSD	1.00	11:29		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1.00	11:59		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB2	1.00	12:02		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T373924-1	1.00	12:09		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV3	1.00	12:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB3	1.00	13:02		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV9	1.00	18:10		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB9	1.00	18:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL3	1.00	18:39		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-A2	1.00	19:08		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB2	1.00	19:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code STLTAL Case No.: SAS No.: SDG JETC01

Instrument ID Number: TJA61E Trace Method: P Run Number: 091103

Start Date: 9/11/03 End Date: 9/11/03

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV10	1.00	19:27		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB10	1.00	19:31		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Client: Aerostar Environmetal Contract: _____

Lab Code STLTAL Case No.: _____ SAS No.: _____ SDG JETC01

Instrument ID Number: CVA Method: CV Run Number: 0910CVSS

Start Date: 9/10/03 End Date: 9/10/03

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV1	1.00	13:35																X									
ICB1	1.00	13:38																X									
CRDL1	1.00	13:40																X									
PBS;0910R	1.00	13:42																X									
LCS;0910R	1.00	13:45																X									
LCSD;0910R	1.00	13:47																X									
T373924-1	1.00	14:02																X									
CCV1	1.00	14:04																X									
CCB1	1.00	14:06																X									
T373924-1A	1.00	14:16																X									
CCV2	1.00	14:18																X									
CCB2	1.00	14:21																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

DIGESTION LOG(S)

DIGESTION SOLIDS

Job No: 262

Batch No: me091003C

Job Date: 091003

ANALYSIS

ICP | AA | HG

FLAME | TCLP

MISC

Date/Time Started: 09-10-03 17:00

Date/Time Completed: ↓ 16:00

Analyst: SK

Method/SOP: 3050B 6010B

Final Volume: 50mL

Acid Lot #(s): HNO_3: 1-me-R0008

HCl: 1-me-R0007

95°#81 H_2O_2: 4233250

Hood: CW420066 Hot Block #2

Bath Temp(Hg only):

Final Project Check:

	ID	LOT#	AMT (mL)	INIT
Spike	1	1-me-50125	0.50	SK
Spike	2	16-3-85-3	↓	↓
Spike		09-10-03 SK		
Spike				

SAMPLE ID/MTX/DESCRIPTION	D-D	SDG	BENCH	BEAKER#	WET WEIGHT(g)	DF	COMMENTS
1. T373946*1/SS/5-2 (SINGLE DRUM)	09.17		ICP		0.510		*XN|
2. T373946*2/SS/5-3 (3 OPEN DRUMS)	09.17		ICP		0.510		*XN|
3. T373946*3/SS/5-4 (PORTABLE TANK)	09.17		ICP		0.501		*XN|
4. T373946*4/SS/5-1 (SW CORNER)	09.17		ICP		0.506		*XN|
5. T373946*5/SS/5-5 (SOUTH 55 GAL)	09.17		ICP		0.509		*XN|
6. T373924*1/SS/086-BFC-S-0904-03	09.12	JETC01	ICP		0.506		R*DNAP| RUSH
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
Lab Blank					0.502		1-me-50112
Lab Spike #1					0.500		↓
Lab Spike #2					0.501		
Dup T373946-1 5-2					0.510		
MS					0.509		
MSD ↓					0.510		

09-10-03 SK

Comments: Digi tube lot# 03-06-26-8984-263-108

SL SOIL DIGESTION LOG

BATCH ID: ME091003R

LOG #'s: 73946, 73924

ANALYSIS METHOD: 7471

DIGESTION METHOD: 7471

DATE / TIME STARTED: 09.10.03 10:45 ANALYST: EO

DATE / TIME FINISHED: 09.10.03 11:15 ANALYST: EO

AQUA REGIA: 17-3-51-1

$KMnO_4$ LOT: 17-3-50-10

$K_2S_2O_8$ LOT: N/A ED 09.10.03

$NaCl/(NH_2OH_2)\cdot H_2SO_4$ LOTS: 17-3-50-3

$SnCl_2$: 17-3-50-11

DIGESTION TEMP: 95 °C

Digest. block #3 Hood: CK 411277 therm #101

SPIKE SOLN #	NAME	ID	AMT ADDED	INITIALS
1	LCS work std	14-3-53-9	0.50 mL	EO
2	MS work std	14-3-53-10	0.50 mL	EO
3				
4	EO	09.10.03		

	PROJECT ID	SAMPLE ID	BEAKER #	AMOUNT DIGESTED (g)	% SOLID	DRY WT (g)	FINAL VOLUME (ml)	COMMENTS
	ME091003R	LAB BLANK	N/A	0.616	100%	0.62	50 ml	I-ME-042
		SOIL LCS 1		0.608		0.61		LOT #: 1
		SOIL LCS 2		0.614		0.61		LOT #: 1
1	73946-1	5-2		0.603	91	0.55		
2	73946-2	5-3		0.609	92	0.56		
3	EO 09.10.03 -3	5-4		0.612	91	0.56		
4	-4	5-1		0.609	91	0.55		
5	-5	5-5		0.601	90	0.54		
7	73924-1	086-BFC		0.610	91	0.56		
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
	73946-1	DUP 5-2	N/A	0.604	91	0.55	50 mL	
		MS1		0.602	91	0.55		SPIKE SOLN #: 2
		MS2		0.602	91	0.55		SPIKE SOLN #: 2

EO 09.10.03

0074

0116

FME00A4-T:06.14.01:2

STL Tallahassee

CHLORINATED HERBICIDES
Method 8151

CASE NARRATIVE

CASE NARRATIVE
GC CHLORINATED HERBICIDES

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8151

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Relative Percent Difference (%RPD) value for 2,4-D was outside advisory limits.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/13

Timothy Preston
Project Manager

FORMS

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I12L010

Level: (low/med) LOW

Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 09/09/03

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 09/12/03

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2200	U
93-65-2	MCPP	2200	U
1918-00-9	Dicamba	22	U
94-74-6	MCPA	2200	U
120-36-5	Dichlorprop	110	U
94-75-7	2,4-D	9.1	U
87-86-5	Pentachlorophenol	19	U
93-72-1	2,4,5-TP	9.1	U
93-76-5	2,4,5-T	9.1	U
88-85-7	Dinoseb	110	U
1918-02-1	Picloram	3.6	U
25057-89-0	Bentazon	38	U
94-82-6	2,4-DB	9.1	U

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0909HMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0909HMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12L005

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/09/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2000	U
93-65-2	MCPP	2000	U
1918-00-9	Dicamba	20	U
94-74-6	MCPA	2000	U
120-36-5	Dichlorprop	100	U
94-75-7	2,4-D	8.3	U
87-86-5	Pentachlorophenol	17	U
93-72-1	2,4,5-TP	8.3	U
93-76-5	2,4,5-T	8.3	U
88-85-7	Dinoseb	100	U
1918-02-1	Picloram	3.3	U
25057-89-0	Bentazon	35	U
94-82-6	2,4-DB	8.3	U

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0909HMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0909HMBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12L006

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/09/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	38	J
93-65-2	MCPP	2600	
1918-00-9	Dicamba	31	
94-74-6	MCPA	6300	
120-36-5	Dichlorprop	21	J
94-75-7	2,4-D	20	
87-86-5	Pentachlorophenol	4.0	J
93-72-1	2,4,5-TP	24	
93-76-5	2,4,5-T	21	
88-85-7	Dinoseb	100	U
1918-02-1	Picloram	28	
62476-59-9	Acifluorfen	14	
25057-89-0	Bentazon	39	
94-82-6	2,4-DB	46	

FORM I SG

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0909HMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0909HMBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12L007

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/09/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	24	J
93-65-2	MCPP	3400	
1918-00-9	Dicamba	32	
94-74-6	MCPA	3500	
120-36-5	Dichlorprop	27	J
94-75-7	2,4-D	33	
87-86-5	Pentachlorophenol	4.4	J
93-72-1	2,4,5-TP	31	
93-76-5	2,4,5-T	33	
88-85-7	Dinoseb	3.2	J
1918-02-1	Picloram	28	
62476-59-9	Acifluorfen	24	
25057-89-0	Bentazon	36	
94-82-6	2,4-DB	31	

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0909HMBMS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0909HMBMS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12L008

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/09/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	14	J
93-65-2	MCPP	4400	
1918-00-9	Dicamba	30	
94-74-6	MCPA	3700	
120-36-5	Dichlorprop	28	J
94-75-7	2,4-D	36	
87-86-5	Pentachlorophenol	4.5	J
93-72-1	2,4,5-TP	32	
93-76-5	2,4,5-T	34	
88-85-7	Dinoseb	4.8	J
1918-02-1	Picloram	24	
25057-89-0	Bentazon	34	
94-82-6	2,4-DB	38	

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0909HMBMSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0909HMBMSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12L009

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/09/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	20	J
93-65-2	MCPP	4600	
1918-00-9	Dicamba	29	
94-74-6	MCPA	3400	
120-36-5	Dichlorprop	27	J
94-75-7	2,4-D	34	
87-86-5	Pentachlorophenol	5.4	J
93-72-1	2,4,5-TP	30	
93-76-5	2,4,5-T	33	
88-85-7	Dinoseb	5.1	J
1918-02-1	Picloram	22	
25057-89-0	Bentazon	32	
94-82-6	2,4-DB	36	

FORM 2
SOIL SG SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (DCPA) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	0909HMB	101								0
02	0909HMBLCS	90								0
03	0909HMBLCSD	110								0
04	0909HMBMS	116								0
05	0909HMBMSD	110								0
06	73924-1	101								0
07										
08										
09										
10										
11										
12										
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27										
28										
29										
30										

QC LIMITS
S1 (DCPA) = 2,4-DichlorophenylAcet (30-189)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL SG LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 0909HMB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
2,4,5-T	28	0.00	21	75	14-143
2,4,5-TP	28	0.00	24	86	27-120
2,4-D	28	0.00	20	71	19-153

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
2,4,5-T	28	33	118	96	44	59	14-143
2,4,5-TP	28	31	111	98	25	51	27-120
2,4-D	28	33	118	94	49*	47	19-153

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM III SG

FORM 3
SOIL SG MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 0909HMB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	MS CONC (ug/Kg)	MS % REC#	QC. LIMITS REC.
2,4,5-T	28	0.00	34	121	14-143
2,4,5-TP	28	0.00	32	114	27-120
2,4-D	28	0.00	36	128	19-153

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONC (ug/Kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
2,4,5-T	28	33	118	120	3.0	59	14-143
2,4,5-TP	28	30	107	110	6.4	51	27-120
2,4-D	28	34	121	124	5.7	47	19-153

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM III SG

FORM 4
SG METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0909HMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: 1I12L005 Lab Sample ID: 0909HMB

Instrument ID: TSGLECD1 Date Extracted: 09/09/03

Matrix: (soil/water) SOIL Date Analyzed: 09/12/03

Level: (low/med) LOW Time Analyzed: 1351

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0909HMBLCS	0909HMBLCS	1I12L006	09/12/03
02	0909HMBLCSD	0909HMBLCSD	1I12L007	09/12/03
03	0909HMBMS	0909HMBMS	1I12L008	09/12/03
04	0909HMBMSD	0909HMBMSD	1I12L009	09/12/03
05	73924-1	086-BFC-S-0904	1I12L010	09/12/03
06				
07				
08				
09				
10				
11				
12				
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29				
30				

COMMENTS:

FORM 6
SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGLECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0756 0911

LAB FILE ID: RF0: 1I02L003 RF0: 1I02L004 RF0: 1I02L005
RF0: 1I02L006 RF0: 1I02L007

COMPOUND	RF0	RF0	RF0	RF0	RF0
Dalapon	0.18501	0.17285	0.17953	0.15491	0.17803
MCPP	0.00029	0.00028	0.00028	0.00027	0.00027
Dicamba	0.43175	0.39018	0.38653	0.36563	0.35807
MCPA	0.00048	0.00041	0.00035	0.00033	0.00033
Dichlorprop	0.13576	0.10401	0.09968	0.09314	0.09317
2,4-D	0.10758	0.09076	0.08456	0.08271	0.08328
Pentachlorophenol	1.86361	1.80159	1.79483	1.73680	1.72172
2,4,5-TP	0.63790	0.58080	0.56189	0.52404	0.50713
2,4,5-T	0.63924	0.57579	0.53202	0.46911	0.46842
Dinoseb	0.32271	0.31600	0.31260	0.31384	0.33046
Picloram	0.88000	0.80488	0.81343	0.76751	0.74723
Bentazon	0.08390	0.07155	0.06762	0.06118	0.05828
2,4-DB	0.05464	0.04684	0.04469	0.04621	0.04856
2,4-DichlorophenylAceticAcid	0.10171	0.08692	0.08500	0.08091	0.08098

FORM VI SG

FORM 6
SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGLECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0756 0911

RF0: 1I02L008

COMPOUND	RF0	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
Dalapon		AVRG		0.17407	6.6
MCPP	0.00030	AVRG		2.817e-004	3.3
Dicamba	0.36151	AVRG		0.38228	7.2
MCPA	0.00035	AVRG		3.738e-004	15.6
Dichlorprop	0.09600	AVRG		0.10363	15.7
2,4-D	0.08983	AVRG		8.979e-002	10.4
Pentachlorophenol	1.72981	AVRG		1.77472	3.1
2,4,5-TP	0.49065	AVRG		0.55040	9.9
2,4,5-T	0.45846	AVRG		0.52384	13.9
Dinoseb	0.35397	LINR	0.00000000	2.85303	0.999
Picloram	0.74463	LINR	-0.350	1.35196	1.000
Bentazon	0.05348	AVRG		6.6e-002	16.5
2,4-DB	0.05951	AVRG		5.008e-002	11.5
2,4-DichlorophenylAceticAcid	0.08623	AVRG		8.696e-002	8.8

FORM VI SG

FORM 7
SG CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGLECD1 Calibration Date: 09/12/03 Time: 0859

Lab File ID: 1I12L004 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 0756 0911

GC Column: DB-5 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0 AMOUNT	CURVE	%D	MAX %d
Dalapon	0.629	0.614	AVRG	2.4	15.0
MCPP	13.4	14.1	AVRG	5.0	15.0
Dicamba	0.138	0.141	AVRG	2.1	15.0
MCPA	12.6	14.0	AVRG	10.0	15.0
Dichlorprop	0.130	0.141	AVRG	7.8	15.0
2,4-D	0.142	0.141	AVRG	0.7	15.0
Pentachlorophenol	0.0457	0.0475	AVRG	3.8	15.0
2,4,5-TP	0.138	0.142	AVRG	2.8	15.0
2,4,5-T	0.134	0.142	AVRG	5.6	15.0
Dinoseb	0.143	0.141	LINR	1.4	15.0
Picloram	0.193	0.189	LINR	2.1	15.0
Bentazon	0.178	0.190	AVRG	6.3	15.0
2,4-DB	0.142	0.142	AVRG	0.0	15.0
2,4-DichlorophenylAceticAcid	0.363	0.374	AVRG	2.9	15.0

FORM VII SG

FORM 8
SG INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): 1I12L004 Date Analyzed: 09/12/03

Instrument ID: TSGLECD1 Time Analyzed: 0859

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	6471	6.39				
	UPPER LIMIT	9707	6.89				
	LOWER LIMIT	3236	5.89				
	CLIENT SAMPLE NO.						
01	0909HMB	4829	6.38				
02	0909HMBLCS	4346	6.38				
03	0909HMBLCSD	4936	6.38				
04	0909HMBMS	5011	6.38				
05	0909HMBMSD	5225	6.38				
06	73924-1	5326	6.38				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Dbofb

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SG ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGLECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	RT
01		51.1 226	09/02/03	0756	5.82	
02		51.2 227	09/02/03	0811	5.81	
03		51.3 228	09/02/03	0826	5.81	
04		51.4 229	09/02/03	0841	5.81	
05		51.5 2210	09/02/03	0856	5.80	
06		51.6 231	09/02/03	0911	5.80	
07		HERB4 229	09/12/03	0859	5.80	
08	0909HMB	0909HMB	09/12/03	1351	5.81	
09	0909HMBLCS	0909HMBLCS	09/12/03	1406	5.80	
10	0909HMBLCSD	0909HMBLCSD	09/12/03	1421	5.80	
11	0909HMBMS	0909HMBMS	09/12/03	1436	5.80	
12	0909HMBMSD	0909HMBMSD	09/12/03	1451	5.80	
13	73924-1	086-BFC-S-09	09/12/03	1506	5.81	
14						
15						
16						
17						
18						
19						
20						
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31						
32						
33						
34						
35						
36						

QC LIMITS
S1 = 2,4-DichlorophenylAcet (+/- 0.04 MINUTES)

FORM VIII SG

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 268 12

Batch No: SG090903 H

Date Extracted: 09.09.03

Start Time: 1230pm

Stop Time: 2 pm

Analysis Required: 8151

Prep Method: 3510

Analyst/Activity Code* DJH/A,B,P,E,D,S,F

Initial Project Check: BE

Final Project Check: [illegible] 9.12.03

Date Concentrated: DJH 9/12/03

Initials:

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8151	6.3.70.9	1.0	BE
Surr.				
Spike	8151	6.3.71.19	1.0	BE
Spike				

Clean Up: Yes No

ACIDIFIED Na_2SO_4: Y02631

Comments

Solvent(s) Lot No:

$MeCl_2$: Y17E34

E.Ether: X45H12

MTBE: L51419

~~MeOH~~: DJH 9/10/03

HEX: Y13E22

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T373924*1/086-BFC-S-0904-03*	JETC01	SS	30.0	<4	>12/<2	5.0	09.12	09.18	RP 2/3
2. T373913*1/1309-1-LAFB*	LAG001	SS		<4	>12/<2	5.0	09.23	09.17	P 1/1 [illegible] 9/10/03
3. T373913*2/1309 Dup-LAFB*	LAG001	SS		<4	>12/<2	5.0	09.23	09.17	P 2/1
4. T373913*3/1309-2-LAFB*	LAG001	SS		<4	>12/<2	5.0	09.23	09.17	P 1/2
5. T373913*4/1309-3-LAFB*	LAG001	SS		<4	>12/<2	5.0	09.23	09.17	P 2/2
6. T373913*5/1309-4-LAFB*	LAG001	SS		<4	>12/<2	5.0	09.23	09.17	P 1/3
7. T373913*6/1309-5-LAFB*	LAG001	SS		<4	>12/<2	5.0	09.23	09.17	P 2/3
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank			30.0	<4	>12/<2	5.0			1/1
Lab Spike #1				<4	>12/<2	5.0			2/1
Lab Spike #2				<4	>12/<2	5.0			1/2
MS: T373913*3 1309-2 LAFB				<4	>12/<2	5.0			2/2
MSD: T373913*3 1309-2 LAFB				<4	>12/<2	5.0			1/3
1:3 H_2SO_4: AN.922.0004.2.5									
10 N NaOH: AN.922.0004.3.2									
NaCl: X4414									

Dets: Chlorinated Herbicides <8151> |(-)Chlorinated Herbicides <8151>|

HCL: T12027

+ Additional Dets:

[illegible] 9.15.03

0137

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: SG

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4402772	1L0902.b	1I02L003.D	CALIB_1		51.1 226	4402764		
4402772	1L0902.b	1I02L004.D	CALIB_2		51.2 227	4402765		
4402772	1L0902.b	1I02L005.D	CALIB_3		51.3 228	4402766		
4402772	1L0902.b	1I02L006.D	CALIB_4		51.4 229	4402767		
4402772	1L0902.b	1I02L007.D	CALIB_5		51.5 2210	4402768		
4402772	1L0902.b	1I02L008.D	CALIB_6		51.6 231	4402769		
4404307	1L0912.b	1I12L004.D	CCALIB_4		HERB4 229	4404306		
4404307	1L0912.b	1I12L005.D	BLANK	0909HMB	0909HMB	4404319	SG090903H	JETC01
4404307	1L0912.b	1I12L006.D	LCS	0909HMBLCS	0909HMBLCS	4404320	SG090903H	JETC01
4404307	1L0912.b	1I12L007.D	LCSD	0909HMBLCSD	0909HMBLCSD	4404321	SG090903H	JETC01
4404307	1L0912.b	1I12L008.D	MS	0909HMBMS	0909HMBMS	4404322	SG090903H	JETC01
4404307	1L0912.b	1I12L009.D	MSD	0909HMBMSD	0909HMBMSD	4404323	SG090903H	JETC01
4404307	1L0912.b	1I12L010.D	SAMPLE	73924-1	086-BFC-S-0904-0	4404325	SG090903H	JETC01

Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	RINSE~1L0902				
2	2	RINSE~1L0902				
3	3	51.1 226~1L0902				
4	4	51.2 227~1L0902				
5	5	51.3 228~1L0902				
6	6	51.4 229~1L0902				
7	7	51.5 2210~1L0902				
8	8	51.6 231~1L0902				
9	9	0826PMB~1L0902				
10	10	0826PMBLS~1L0902				
11	11	0826PMBLD~1L0902				
12	12	0826PMS~1L0902				
13	13	0826PMSD~1L0902				
14	14	73698-1~1L0902				
15	15	73698-2~1L0902				
16	16	73627-1~1L0902				
17	2	RINSE~1L0902				
18	5	51.3 228~1L0902				

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\HPCHEM\2\SEQUENCE\1I12L.S

Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	RINSE~1L0912				
2	2	RINSE~1L0912				
3	3	HERB2 227~1L0912				
4	4	HERB4 229~1L0912				
5	5	0909HMB~1l0912				
6	6	0909HMBLS~1l0912				
7	7	0909HMBLD~1l0912				
8	8	0909HMBMS~1l0912				
9	9	0909HMBMD~1l0912				
10	10	73924-1~1L0912				
11	4	HERB4 229~1L0912				

Sequence Table (Back Injector):

No entries - empty table!

ORGANOCHLORINE PESTICIDES and PCBs
Method 8081/8082

CASE NARRATIVE

CASE NARRATIVE
GC CHLORINATED PESTICIDES

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8081/8082

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Matrix Spikes were not recovered due to a sample dilution that was required prior to analysis.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

CASE NARRATIVE
GC CHLORINATED PESTICIDES

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

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HOLDING TIMES

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Sample Analysis: All holding times were met.

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Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8081/8082

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Sample preparation proceeded normally.

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SIGNED: TPrestt DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12K015

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/11/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/12/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U
57-74-9	Chlordane	19	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0911HMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0911HMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12K010

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/11/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/12/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
57-74-9	Chlordane	17	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0911HMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0911HMBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12K011

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/11/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/12/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	2.0	
76-44-8	Heptachlor	2.1	
309-00-2	Aldrin	2.2	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	5.4	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	5.5	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	4.9	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0911HMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0911HMBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12K012

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/11/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/12/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	2.1	
76-44-8	Heptachlor	2.5	
309-00-2	Aldrin	2.6	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	6.2	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	6.2	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	5.5	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U

FORM 2
SOIL PEST-PCB SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

GC Column(1): DB-5 ID: 0.32 (mm) GC Column(2): DB-17 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 1 (TCX) #	S1 2 (TCX) #	S2 1 (DCB) #	S2 2 (DCB) #	S3 1 (DBC) #	S3 2 (DBC) #	S4 1 #	S4 2 #	TOT OUT
01	0911HMB	67	64	73	70	54	67			0
02	0911HMBLCS	52	52	64	67	52	67			0
03	0911HMBLCSD	67	64	79	70	61	70			0
04	73924-1	46	89	68	122	54	128			0
05										
06										
07										
08										
09										
10										
11										
12										
13										
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28										
29										
30										

		QC LIMITS	
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)	
S2 (DCB)	= Decachlorobiphenyl	(30-150)	(advisory)
S3 (DBC)	= Dibutylchlorendate	(30-150)	

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL PEST-PCB LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 0911HMBLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
Aldrin	3.3		2.2	67	10-144
gamma-BHC (Lindane)	3.3		2.0	61	12-138
4,4'-DDT	8.3		4.9	59	29-134
Dieldrin	8.3		5.4	65	28-137
Endrin	8.3		5.5	66	33-149
Heptachlor	3.3		2.1	64	17-138

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aldrin	3.3	2.6	79	73	17	38	10-144
gamma-BHC (Lindane)	3.3	2.1	64	62	4.9	37	12-138
4,4'-DDT	8.3	5.5	66	62	12	26	29-134
Dieldrin	8.3	6.2	75	70	14	30	28-137
Endrin	8.3	6.2	75	70	12	32	33-149
Heptachlor	3.3	2.5	76	70	17	38	17-138

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM III PEST-PCB

FORM 4
PEST-PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0911HMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: 1I12K010 Lab Sample ID: 0911HMB

Instrument ID: TSGKECD1 Matrix: (soil/water) SOIL

Level: (low/med) LOW Date Extracted: 09/11/03

Date Analyzed (1): 09/12/03 Date Analyzed (2): 09/12/03

Time Analyzed (1): 1251 Time Analyzed (2): 1251

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	0911HMBLCS	0911HMBLCS	1I12K011	09/12/03	09/12/03
02	0911HMBLCSD	0911HMBLCSD	1I12K012	09/12/03	09/12/03
03	73924-1	086-BFC-S-0904	1I12K015	09/12/03	09/12/03
04					
05					
06					
07					
08					
09					
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24					
25					
26					

COMMENTS:

Report Date : 09/15/2003 16:36

Data file : 1I04K011.D
Lab Smp Id : PEM 29216
Inj Date : 04-SEP-2003 15:46
Inst ID : TSGKECD1.i
Smp Info : PEM 29216~1K0906

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	182528			N/A
4,4-DDE	1713	0.9	15.0	PASS
4,4-DDD	1909	1.0	15.0	PASS
4,4-DDD + DDE	3622	1.9	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	102615			N/A
E. Aldehyde	551	0.5	15.0	PASS
E. Ketone	1145	1.1	15.0	PASS
Ketone+Aldehyde	1696	1.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Report Date : 09/15/2003 16:36

Data file : 1I04K011.D
Lab Smp Id : PEM 29216
Inj Date : 04-SEP-2003 15:46
Inst ID : TSGKECD2.i
Smp Info : PEM 29216~1K0906

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	59333			N/A
4,4-DDE	696	1.2	15.0	PASS
4,4-DDD	1033	1.7	15.0	PASS
4,4-DDD + DDE	1729	2.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	34814			N/A
E. Aldehyde	202	0.6	15.0	PASS
E. Ketone	482	1.4	15.0	PASS
Ketone+Aldehyde	684	1.9	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Report Date : 09/12/2003 11:43

Data file : 1I12C004.D
Lab Smp Id : PEM 29216
Inj Date : 12-SEP-2003 10:10
Inst ID : TSGKECD1.i
Smp Info : PEM 29216~1K0912

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	193744			N/A
4,4-DDE	1454	0.7	15.0	PASS
4,4-DDD	2790	1.4	15.0	PASS
4,4-DDD + DDE	4244	2.1	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	106915			N/A
E. Aldehyde	2610	2.4	15.0	PASS
E. Ketone	3590	3.2	15.0	PASS
Ketone+Aldehyde	6200	5.5	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Report Date : 09/12/2003 11:42

Data file : 1I12C004.D
Lab Smp Id : PEM 29216
Inj Date : 12-SEP-2003 10:10
Inst ID : TSGKECD2.i
Smp Info : PEM 29216~1K0912

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	62476			N/A
4,4-DDE	450	0.7	15.0	PASS
4,4-DDD	1760	2.7	15.0	PASS
4,4-DDD + DDE	2210	3.4	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	36542			N/A
E. Aldehyde	1130	3.0	15.0	PASS
E. Ketone	1061	2.8	15.0	PASS
Ketone+Aldehyde	2191	5.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 1802

LAB FILE ID: RF0.005: 1I04K012 RF0.025: 1I04K013 RF0.05: 1I04K014
RF0.075: 1I04K015 RF0.1: 1I04K016

COMPOUND	RF0.005	RF0.025	RF0.05	RF0.075	RF0.1
alpha-BHC	1.40201	1.30749	1.35614	1.35945	1.33005
beta-BHC	0.68520	0.61356	0.57611	0.55149	0.53076
delta-BHC	1.24697	1.15221	1.20294	1.21037	1.19737
gamma-BHC (Lindane)	2.03418	2.09120	1.88637	1.92039	2.14871
Heptachlor	1.39921	1.22991	1.22838	1.21011	1.16321
Aldrin	1.24085	1.14360	1.11795	1.11608	1.07564
Heptachlor epoxide	1.21000	1.06648	1.02299	1.00395	0.94946
Endosulfan I	1.09805	0.99123	0.91293	0.88197	0.86047
Dieldrin	1.24340	1.15465	1.05466	1.07072	1.02475
4,4'-DDE	0.99936	0.81129	0.87702	0.88402	0.83524
Endrin	1.12686	1.02415	0.96793	0.96171	0.90791
Endosulfan II	1.04985	0.95738	0.89273	0.87713	0.82725
4,4'-DDD	0.86956	0.80280	0.79454	0.81033	0.77948
Endosulfan sulfate	1.04373	0.88329	0.81807	0.79636	0.76120
4,4'-DDT	0.98202	0.93028	0.84920	0.85968	0.84162
Methoxychlor	0.58472	0.53679	0.47400	0.44063	0.41750
Endrin ketone	1.13783	1.04776	0.95385	0.91328	0.87133
Endrin aldehyde	0.90501	0.80745	0.74669	0.73087	0.69204
alpha-Chlordane	1.15721	1.04299	1.00410	1.01822	0.94102
gamma-Chlordane	1.18144	1.07998	1.02928	1.03007	0.98668
Tetrachloro-m-xylene	1.06490	0.96066	0.90746	0.87758	0.84256
Decachlorobiphenyl	0.71269	0.62768	0.52282	0.48924	0.47156
Dibutylchlorendate	0.69208	0.62261	0.56923	0.56490	0.54689

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 1802

RF0.2: 1I04K017

COMPOUND	RF0.2
alpha-BHC	1.31569
beta-BHC	0.51646
delta-BHC	1.19038
gamma-BHC (Lindane)	1.94548
Heptachlor	1.13352
Aldrin	1.05831
Heptachlor epoxide	0.92484
Endosulfan I	0.81242
Dieldrin	0.96884
4,4'-DDE	0.86351
Endrin	0.89249
Endosulfan II	0.80585
4,4'-DDD	0.77015
Endosulfan sulfate	0.75954
4,4'-DDT	0.81744
Methoxychlor	0.40334
Endrin ketone	0.84429
Endrin aldehyde	0.67044
alpha-Chlordane	0.94684
gamma-Chlordane	0.97503
Tetrachloro-m-xylene	0.82482
Decachlorobiphenyl	0.45767
Dibutylchlorendate	0.53494

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 1802

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.00000000	0.72043	1.004e-002	1.000
beta-BHC	2ORDR	-1.56e-002	1.70842	0.1544	1.000
delta-BHC	2ORDR	5.925e-003	0.81315	7.077e-003	1.000
gamma-BHC (Lindane)	2ORDR	0.00000000	0.50011	-3.28e-004	0.994
Heptachlor	2ORDR	0.00000000	0.77551	3.142e-002	1.000
Aldrin	2ORDR	-1.51e-003	0.86159	2.663e-002	1.000
Heptachlor epoxide	2ORDR	0.00000000	0.91918	5.91e-002	1.000
Endosulfan I	2ORDR	0.00000000	1.00878	8.829e-002	1.000
Dieldrin	2ORDR	0.00000000	0.84334	6.269e-002	1.000
4,4'-DDE	2ORDR	0.00000000	1.15735	3.48e-003	0.999
Endrin	2ORDR	0.00000000	0.97869	5.41e-002	1.000
Endosulfan II	2ORDR	0.00000000	1.04931	8.03e-002	1.000
4,4'-DDD	2ORDR	0.00000000	1.20303	4.16e-002	1.000
Endosulfan sulfate	2ORDR	0.00000000	1.20168	5.349e-002	1.000
4,4'-DDT	2ORDR	0.00000000	1.11016	4.484e-002	1.000
Methoxychlor	2ORDR	0.00000000	1.98949	0.4123	1.000
Endrin ketone	2ORDR	0.00000000	0.99124	7.711e-002	1.000
Endrin aldehyde	2ORDR	0.00000000	1.24776	0.1220	1.000
alpha-Chlordane	2ORDR	0.00000000	0.95669	3.729e-002	0.999
gamma-Chlordane	2ORDR	0.00000000	0.93350	3.221e-002	1.000
Tetrachloro-m-xylene	2ORDR	-3.56e-002	1.08581	2.166e-002	1.000
Decachlorobiphenyl	2ORDR	-0.116	1.97050	7.26e-002	1.000
Dibutylchlorendate	2ORDR	-3.52e-002	1.71287	4.098e-002	1.000

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETCO1

Instrument ID: TSGKECD2 Calibration Date(s): 09/04/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1632 1802

LAB FILE ID: RF0.005: 1I04K012 RF0.025: 1I04K013 RF0.05: 1I04K014
RF0.075: 1I04K015 RF0.1: 1I04K016

COMPOUND	RF0.005	RF0.025	RF0.05	RF0.075	RF0.1
alpha-BHC	1.61025	1.65190	1.44386	1.56019	1.72297
beta-BHC	0.95462	0.91693	0.71801	0.70251	0.76027
delta-BHC	1.76295	1.71415	1.51565	1.63539	1.82961
gamma-BHC (Lindane)	1.69247	1.72492	1.44942	1.54149	1.69133
Heptachlor	1.72664	1.67524	1.40740	1.49525	1.60029
Aldrin	1.18103	1.13292	1.01780	1.00369	1.00395
Heptachlor epoxide	1.53123	1.52322	1.24289	1.29263	1.38474
Endosulfan I	1.34330	1.32212	1.08436	1.10625	1.21945
Dieldrin	1.29845	1.29220	1.07054	1.14149	1.21395
4,4'-DDE	1.21410	1.20062	1.01955	1.10595	1.21065
Endrin	1.36572	1.33349	1.11526	1.18025	1.27982
Endosulfan II	1.32408	1.41429	1.13734	1.18361	1.27745
4,4'-DDD	1.10198	1.14257	0.99320	1.04010	1.14769
Endosulfan sulfate	1.43300	1.41549	1.10116	1.14725	1.24024
4,4'-DDT	1.24613	1.26406	1.04989	1.13303	1.22426
Methoxychlor	0.62315	0.55614	0.46259	0.44638	0.42020
Endrin ketone	1.21516	1.32152	1.07082	1.07849	1.18263
Endrin aldehyde	1.18313	1.21858	0.97810	0.99776	1.08533
alpha-Chlordane	1.45969	1.43165	1.12851	1.20733	1.27712
gamma-Chlordane	1.45862	1.47594	1.16084	1.22566	1.34602
Tetrachloro-m-xylene	1.27069	1.23150	1.05687	1.09226	1.17857
Decachlorobiphenyl	0.95419	0.89801	0.68517	0.69773	0.74426
Dibutylchlorendate	0.99135	0.97031	0.83096	0.86985	0.96280

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/04/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1632 1802

RF0.2: 1I04K017

COMPOUND	RF0.2
alpha-BHC	1.61699
beta-BHC	0.71425
delta-BHC	1.77871
gamma-BHC (Lindane)	1.61904
Heptachlor	1.51385
Aldrin	1.01989
Heptachlor epoxide	1.33870
Endosulfan I	1.11346
Dieldrin	1.16585
4,4'-DDE	1.15434
Endrin	1.20696
Endosulfan II	1.18893
4,4'-DDD	1.06538
Endosulfan sulfate	1.18502
4,4'-DDT	1.18029
Methoxychlor	0.41040
Endrin ketone	1.06032
Endrin aldehyde	0.98760
alpha-Chlordane	1.19958
gamma-Chlordane	1.26884
Tetrachloro-m-xylene	1.12072
Decachlorobiphenyl	0.70424
Dibutylchlorendate	0.93878

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/04/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1632 1802

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.00000000	0.64266	-7.83e-003	0.996
beta-BHC	2ORDR	0.00000000	1.34371	1.652e-002	0.997
delta-BHC	AVRG		1.70608		6.7
gamma-BHC (Lindane)	2ORDR	0.00000000	0.65329	-9.44e-003	0.997
Heptachlor	2ORDR	0.00000000	0.66002	-2.31e-003	0.998
Aldrin	2ORDR	0.00000000	1.00182	-5.93e-003	1.000
Heptachlor epoxide	AVRG		1.38557		8.6
Endosulfan I	AVRG		1.19816		9.5
Dieldrin	2ORDR	0.00000000	0.87496	-8.15e-003	0.998
4,4'-DDE	AVRG		1.15087		6.6
Endrin	2ORDR	0.00000000	0.83704	-6.55e-003	0.997
Endosulfan II	AVRG		1.25428		8.3
4,4'-DDD	AVRG		1.08182		5.6
Endosulfan sulfate	2ORDR	-1.73e-002	0.88119	-1.27e-002	0.998
4,4'-DDT	2ORDR	0.00000000	0.89385	-1.66e-002	0.998
Methoxychlor	2ORDR	-3.81e-002	2.15567	0.2575	1.000
Endrin ketone	2ORDR	5.616e-003	0.85533	1.796e-002	0.994
Endrin aldehyde	2ORDR	2.88e-004	0.94366	1.431e-002	0.995
alpha-Chlordane	2ORDR	0.00000000	0.80655	3.552e-003	0.997
gamma-Chlordane	2ORDR	0.00000000	0.80605	-8.65e-003	0.997
Tetrachloro-m-xylene	2ORDR	-3.71e-003	0.90343	-2.91e-003	0.998
Decachlorobiphenyl	2ORDR	-7.2e-002	1.43524	-4.49e-003	0.998
Dibutylchlorendate	2ORDR	-1.03e-002	1.17693	-1.77e-002	0.998

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 2009 2139

LAB FILE ID: RF0.005: 1I04K024 RF0.025: 1I04K025 RF0.05: 1I04K026
RF0.075: 1I04K027 RF0.1: 1I04K028

COMPOUND	RF0.005	RF0.025	RF0.05	RF0.075	RF0.1
Aroclor-1016	0.05265	0.03705	0.02887	0.02941	0.02644
(2)	0.03311	0.02753	0.02218	0.02267	0.02136
(3)	0.04053	0.02913	0.02066	0.02180	0.01975
(4)	0.04454	0.03356	0.02578	0.02650	0.02446
(5)	0.03909	0.02857	0.02047	0.02138	0.01954
Aroclor-1260	0.03930	0.02612	0.01956	0.01845	0.01724
(2)	0.02361	0.01833	0.01446	0.01379	0.01292
(3)	0.05898	0.04189	0.03380	0.03222	0.03020
(4)	0.03512	0.02415	0.01872	0.01808	0.01691
(5)	0.03052	0.02170	0.01845	0.01710	0.01589
Tetrachloro-m-xylene(#)	1.77968	1.35436	1.14236	1.15044	1.07909
Decachlorobiphenyl(#)	0.93610	0.63747	0.53447	0.51162	0.47625
Dibutylchlorendate(#)	1.46405	1.11280	0.87815	0.89102	0.83830

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 2009 2139

RF0.2: 1I04K029

COMPOUND	RF0.2
Aroclor-1016	0.03113
(2)	0.02500
(3)	0.02370
(4)	0.02930
(5)	0.02363
Aroclor-1260	0.01719
(2)	0.01298
(3)	0.03021
(4)	0.01674
(5)	0.01561
Tetrachloro-m-xylene(#)	1.24126
Decachlorobiphenyl(#)	0.47587
Dibutylchlorendate(#)	1.02465

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 2009 2139

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	-4.956	47.8645	-7.747	0.990
(2)	2ORDR	-3.537	58.9037	-12.42	0.993
(3)	2ORDR	-5.803	67.9880	-17.12	0.988
(4)	2ORDR	-4.739	53.4717	-10.66	0.991
(5)	2ORDR	-5.702	69.0346	-18.00	0.988
Aroclor-1260	2ORDR	-3.686	54.4585	10.269	0.997
(2)	2ORDR	-2.415	70.6832	17.184	0.997
(3)	2ORDR	-2.600	30.6316	3.0419	0.998
(4)	2ORDR	-2.934	54.7103	10.934	0.998
(5)	2ORDR	-1.639	49.6999	22.015	0.998
Tetrachloro-m-xylene(#)	2ORDR	-0.348	1.14291	-4.35e-002	0.994
Decachlorobiphenyl(#)	2ORDR	-0.236	1.91309	0.1305	0.999
Dibutylchlorendate(#)	2ORDR	-0.461	1.59368	-0.101	0.992

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/04/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 2009 2139

LAB FILE ID: RF0.005: 1I04K024 RF0.025: 1I04K025 RF0.05: 1I04K026
RF0.075: 1I04K027 RF0.1: 1I04K028

COMPOUND	RF0.005	RF0.025	RF0.05	RF0.075	RF0.1
Aroclor-1016	0.06294	0.04443	0.03577	0.03501	0.03246
(2)	0.02661	0.02124	0.01802	0.01700	0.01556
(3)	0.02862	0.02320	0.01989	0.01900	0.01760
(4)	0.03961	0.02988	0.02483	0.02377	0.02202
(5)	0.02530	0.01857	0.01493	0.01432	0.01309
Aroclor-1260	0.08066	0.05703	0.04225	0.04241	0.03898
(2)	0.04452	0.03282	0.02540	0.02443	0.02234
(3)	0.03884	0.02805	0.02114	0.02096	0.01908
(4)	0.07898	0.05615	0.04407	0.04436	0.04244
(5)	0.04679	0.03324	0.02607	0.02569	0.02384
Tetrachloro-m-xylene (#)	1.56406	1.15461	1.02842	1.05055	0.98542
Decachlorobiphenyl (#)	1.20598	0.85020	0.67149	0.66277	0.63291
Dibutylchlorendate (#)	1.18207	0.88400	0.81337	0.78668	0.76461

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETCO1

Instrument ID: TSGKECD2 Calibration Date(s): 09/04/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 2009 2139

RF0.2: 1I04K029

COMPOUND	RF0.2
Aroclor-1016	0.03163
(2)	0.01548
(3)	0.01786
(4)	0.02200
(5)	0.01297
Aroclor-1260	0.04412
(2)	0.02557
(3)	0.02167
(4)	0.04765
(5)	0.02756
Tetrachloro-m-xylene(#)	1.08483
Decachlorobiphenyl(#)	0.73829
Dibutylchlorendate(#)	0.77163

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETCO1

Instrument ID: TSGKECD2 Calibration Date(s): 09/04/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 2009 2139

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	-1.984	26.0362	4.4541	0.999
(2)	2ORDR	-1.265	50.1241	22.011	0.998
(3)	2ORDR	-1.604	50.2997	9.2731	0.997
(4)	2ORDR	-1.888	39.3692	7.6158	0.998
(5)	2ORDR	-1.988	62.4974	28.762	0.998
Aroclor-1260	2ORDR	-5.215	32.0615	-3.014	0.991
(2)	2ORDR	-4.817	53.8616	-7.995	0.989
(3)	2ORDR	-4.968	63.7670	-11.25	0.990
(4)	2ORDR	-4.425	30.1396	-2.951	0.995
(5)	2ORDR	-4.886	53.0834	-9.194	0.992
Tetrachloro-m-xylene(#)	2ORDR	-0.258	1.17959	-3.69e-002	0.997
Decachlorobiphenyl(#)	2ORDR	-0.492	2.08765	-0.157	0.994
Dibutylchlorendate(#)	2ORDR	-0.155	1.31348	7.9e-003	1.000

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 2139

RF0.05: 1I04K018

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	0.02196	AVRG	2.196e-002	0.0
(2)	0.08493	AVRG	8.493e-002	0.0
(3)	0.02564	AVRG	2.564e-002	0.0
(4)	0.07460	AVRG	7.46e-002	0.0
(5)	0.05298	AVRG	5.298e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETCO1

Instrument ID: TSGKECD2 Calibration Date(s): 09/02/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1051 2139

RF0.05: 1I04K018

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	0.02303	AVRG	2.303e-002	0.0
(2)	0.10179	AVRG	0.10179	0.0
(3)	0.05832	AVRG	5.832e-002	0.0
(4)	0.02186	AVRG	2.186e-002	0.0
(5)	0.08177	AVRG	8.177e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 2139

RF0.05: 1I04K019

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	0.02317	AVRG	2.317e-002	0.0
(2)	0.01573	AVRG	1.573e-002	0.0
(3)	0.00927	AVRG	9.268e-003	0.0
(4)	0.01923	AVRG	1.923e-002	0.0
(5)	0.05070	AVRG	5.07e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/02/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1051 2139

RF0.05: 1I04K019

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	0.01876	AVRG	1.876e-002	0.0
(2)	0.01260	AVRG	1.26e-002	0.0
(3)	0.01386	AVRG	1.386e-002	0.0
(4)	0.02207	AVRG	2.207e-002	0.0
(5)	0.03564	AVRG	3.564e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 2139

RF0.05: 1I04K020

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.02338	AVRG	2.338e-002	0.0
(2)	0.01301	AVRG	1.301e-002	0.0
(3)	0.01375	AVRG	1.375e-002	0.0
(4)	0.01174	AVRG	1.174e-002	0.0
(5)	0.01141	AVRG	1.141e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETCO1

Instrument ID: TSGKECD2 Calibration Date(s): 09/02/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1051 2139

RF0.05: 1I04K020

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.00827	AVRG	8.269e-003	0.0
(2)	0.01996	AVRG	1.996e-002	0.0
(3)	0.01312	AVRG	1.312e-002	0.0
(4)	0.01218	AVRG	1.218e-002	0.0
(5)	0.01034	AVRG	1.034e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 2139

RF0.05: 1I04K021

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.01929	AVRG	1.929e-002	0.0
(2)	0.02548	AVRG	2.548e-002	0.0
(3)	0.02826	AVRG	2.826e-002	0.0
(4)	0.02487	AVRG	2.487e-002	0.0
(5)	0.02718	AVRG	2.718e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/02/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1051 2139

RF0.05: 1I04K021

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.03169	AVRG	3.169e-002	0.0
(2)	0.04760	AVRG	4.76e-002	0.0
(3)	0.01859	AVRG	1.859e-002	0.0
(4)	0.00657	AVRG	6.572e-003	0.0
(5)	0.02244	AVRG	2.244e-002	0.0

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 2139

RF0.05: 1I04K022

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.03016	AVRG	3.016e-002	0.0
(2)	0.04591	AVRG	4.591e-002	0.0
(3)	0.00797	AVRG	7.973e-003	0.0
(4)	0.00151	AVRG	1.506e-003	0.0
(5)	0.00160	AVRG	1.601e-003	0.0

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/02/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1051 2139

RF0.05: 1I04K022

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.00646	AVRG	6.459e-003	0.0
(2)	0.01401	AVRG	1.401e-002	0.0
(3)	0.03322	AVRG	3.322e-002	0.0
(4)	0.04033	AVRG	4.033e-002	0.0
(5)	0.04492	AVRG	4.493e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date(s): 09/04/03 09/04/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1632 2139

RF0.05: 1I04K023

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.01264	AVRG	1.265e-002	0.0
(2)	0.00924	AVRG	9.237e-003	0.0
(3)	0.02820	AVRG	2.821e-002	0.0
Aroclor-1254	0.02602	AVRG	2.602e-002	0.0
(2)	0.02700	AVRG	2.7e-002	0.0
(3)	0.01641	AVRG	1.641e-002	0.0
(4)	0.05278	AVRG	5.278e-002	0.0
(5)	0.03611	AVRG	3.611e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date(s): 09/02/03 09/04/03

Column: DB-17 ID: 0.32 (mm) Calibration Time(s): 1051 2139

RF0.05: 1I04K023

COMPOUND	RF0.05	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1254	0.02464	AVRG	2.464e-002	0.0
(2)	0.02090	AVRG	2.09e-002	0.0
(3)	0.01783	AVRG	1.783e-002	0.0
(4)	0.04315	AVRG	4.315e-002	0.0
(5)	0.02310	AVRG	2.31e-002	0.0
Aroclor-1221	0.00826	AVRG	8.26e-003	0.0
(2)	0.02323	AVRG	2.323e-002	0.0
(3)	0.00376	AVRG	3.757e-003	0.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date: 09/12/03 Time: 1028

Lab File ID: 1I12K005 Init. Calib. Date(s): 09/04/03 09/04/03

Init. Calib. Times: 1632 1802

GC Column: DB-5 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0153	0.0150	2ORDR	2.0	15.0
beta-BHC	0.0153	0.0150	2ORDR	2.0	15.0
delta-BHC	0.0157	0.0150	2ORDR	4.7	15.0
gamma-BHC (Lindane)	0.0143	0.0150	2ORDR	4.7	15.0
Heptachlor	0.0147	0.0150	2ORDR	2.0	15.0
Aldrin	0.0156	0.0150	2ORDR	4.0	15.0
Heptachlor epoxide	0.0154	0.0150	2ORDR	2.7	15.0
Endosulfan I	0.0155	0.0150	2ORDR	3.3	15.0
Dieldrin	0.0147	0.0150	2ORDR	2.0	15.0
4,4'-DDE	0.0159	0.0150	2ORDR	6.0	15.0
Endrin	0.0147	0.0150	2ORDR	2.0	15.0
Endosulfan II	0.0152	0.0150	2ORDR	1.3	15.0
4,4'-DDD	0.0155	0.0150	2ORDR	3.3	15.0
Endosulfan sulfate	0.0164	0.0150	2ORDR	9.3	15.0
4,4'-DDT	0.0145	0.0150	2ORDR	3.3	15.0
Methoxychlor	0.0144	0.0150	2ORDR	4.0	15.0
Endrin ketone	0.0156	0.0150	2ORDR	4.0	15.0
Endrin aldehyde	0.0154	0.0150	2ORDR	2.7	15.0
alpha-Chlordane	0.0152	0.0150	2ORDR	1.3	15.0
gamma-Chlordane	0.0155	0.0150	2ORDR	3.3	15.0
Tetrachloro-m-xylene	0.0385	0.0375	2ORDR	2.7	15.0
Decachlorobiphenyl	0.0370	0.0375	2ORDR	1.3	15.0
Dibutylchlorendate	0.0377	0.0375	2ORDR	0.5	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date: 09/12/03 Time: 1028

Lab File ID: 1I12K005 Init. Calib. Date(s): 09/04/03 09/04/03

Init. Calib. Times: 1632 1802

GC Column: DB-17 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0144	0.0150	2ORDR	4.0	15.0
beta-BHC	0.0155	0.0150	2ORDR	3.3	15.0
delta-BHC	0.0145	0.0150	AVRG	3.3	15.0
gamma-BHC (Lindane)	0.0149	0.0150	2ORDR	0.7	15.0
Heptachlor	0.0143	0.0150	2ORDR	4.7	15.0
Aldrin	0.0159	0.0150	2ORDR	6.0	15.0
Heptachlor epoxide	0.0143	0.0150	AVRG	4.7	15.0
Endosulfan I	0.0145	0.0150	AVRG	3.3	15.0
Dieldrin	0.0151	0.0150	2ORDR	0.7	15.0
4,4'-DDE	0.0145	0.0150	AVRG	3.3	15.0
Endrin	0.0140	0.0150	2ORDR	6.7	15.0
Endosulfan II	0.0144	0.0150	AVRG	4.0	15.0
4,4'-DDD	0.0148	0.0150	AVRG	1.3	15.0
Endosulfan sulfate	0.0150	0.0150	2ORDR	0.0	15.0
4,4'-DDT	0.0145	0.0150	2ORDR	3.3	15.0
Methoxychlor	0.0145	0.0150	2ORDR	3.3	15.0
Endrin ketone	0.0149	0.0150	2ORDR	0.7	15.0
Endrin aldehyde	0.0149	0.0150	2ORDR	0.7	15.0
alpha-Chlordane	0.0152	0.0150	2ORDR	1.3	15.0
gamma-Chlordane	0.0152	0.0150	2ORDR	1.3	15.0
Tetrachloro-m-xylene	0.0371	0.0375	2ORDR	1.1	15.0
Decachlorobiphenyl	0.0364	0.0375	2ORDR	2.9	15.0
Dibutylchlorendate	0.0372	0.0375	2ORDR	0.8	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD1 Calibration Date: 09/12/03 Time: 1046

Lab File ID: 1I12K006 Init. Calib. Date(s): 09/04/03 09/04/03

Init. Calib. Times: 2009 2139

GC Column: DB-5 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.518	0.500	2ORDR	3.6	15.0
(2)	0.537	0.500	2ORDR	7.4	15.0
(3)	0.530	0.500	2ORDR	6.0	15.0
(4)	0.525	0.500	2ORDR	5.0	15.0
(5)	0.527	0.500	2ORDR	5.4	15.0
Aroclor-1260	0.498	0.500	2ORDR	0.4	15.0
(2)	0.492	0.500	2ORDR	1.6	15.0
(3)	0.484	0.500	2ORDR	3.2	15.0
(4)	0.476	0.500	2ORDR	4.8	15.0
(5)	0.447	0.500	2ORDR	10.6	15.0
Tetrachloro-m-xylene(#)	0.0523	0.0500	2ORDR	4.6	15.0
Decachlorobiphenyl(#)	0.0471	0.0500	2ORDR	5.8	15.0
Dibutylchlorendate(#)	0.0520	0.0500	2ORDR	4.0	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGKECD2 Calibration Date: 09/12/03 Time: 1046

Lab File ID: 1I12K006 Init. Calib. Date(s): 09/04/03 09/04/03

Init. Calib. Times: 2009 2139

GC Column: DB-17 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.514	0.500	2ORDR	2.8	15.0
(2)	0.510	0.500	2ORDR	2.0	15.0
(3)	0.526	0.500	2ORDR	5.2	15.0
(4)	0.526	0.500	2ORDR	5.2	15.0
(5)	0.511	0.500	2ORDR	2.2	15.0
Aroclor-1260	0.515	0.500	2ORDR	3.0	15.0
(2)	0.524	0.500	2ORDR	4.8	15.0
(3)	0.537	0.500	2ORDR	7.4	15.0
(4)	0.514	0.500	2ORDR	2.8	15.0
(5)	0.525	0.500	2ORDR	5.0	15.0
Tetrachloro-m-xylene(#)	0.0527	0.0500	2ORDR	5.4	15.0
Decachlorobiphenyl(#)	0.0516	0.0500	2ORDR	3.2	15.0
Dibutylchlorendate(#)	0.0510	0.0500	2ORDR	2.0	15.0

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code:

Client: Project: SDG No.: JETC01

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 09/04/03 09/04/03

Instrument ID: TSGKECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
01		PEM 29216	09/04/03	1546	2.90	8.55
02		60819114	09/04/03	1632	2.89	8.56
03		6082 9115	09/04/03	1650	2.90	8.56
04		6083 9116	09/04/03	1708	2.90	8.55
05		6084 9117	09/04/03	1726	2.90	8.55
06		6085 9118	09/04/03	1744	2.90	8.55
07		6086 9119	09/04/03	1802	2.90	8.55
08		TECH 9162	09/04/03	1820		
09		TOX 91611	09/04/03	1838		
10		1232 9175	09/04/03	1856		
11		1242 9176	09/04/03	1915		
12		1248 9177	09/04/03	1933		
13		2154 9178	09/04/03	1951		
14		60-1 9102	09/04/03	2009	2.90	8.56
15		60-2 9103	09/04/03	2027	2.90	8.56
16		60-3 9104	09/04/03	2045	2.90	8.56
17		60-4 9105	09/04/03	2103	2.90	8.56
18		60-5 9106	09/04/03	2121	2.90	8.55
19		60-6 9107	09/04/03	2139	2.90	8.55
20		PEM 29216	09/12/03	1010	2.90	8.55
21		6083 9114	09/12/03	1028	2.90	8.55
22		60-3 9104	09/12/03	1046	2.90	8.55
23	0911HMB	0911HMB	09/12/03	1251	2.90	8.55
24	0911HMBLCS	0911HMBLCS	09/12/03	1309	2.90	8.55
25	0911HMBLCSD	0911HMBLCSD	09/12/03	1328	2.89	8.55
26	73924-1	086-BFC-S-09	09/12/03	1433	2.89	8.56
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.05 MINUTES)

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code:

Client: Project: SDG No.: JETC01

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 09/04/03 09/04/03

Instrument ID: TSGKECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	RT
01		PEM 29216	09/04/03	1546	7.36	
02		60819114	09/04/03	1632	7.37	
03		6082 9115	09/04/03	1650	7.36	
04		6083 9116	09/04/03	1708	7.36	
05		6084 9117	09/04/03	1726	7.36	
06		6085 9118	09/04/03	1744	7.36	
07		6086 9119	09/04/03	1802	7.36	
08		TECH 9162	09/04/03	1820		
09		TOX 91611	09/04/03	1838		
10		1232 9175	09/04/03	1856		
11		1242 9176	09/04/03	1915		
12		1248 9177	09/04/03	1933		
13		2154 9178	09/04/03	1951		
14		60-1 9102	09/04/03	2009		
15		60-2 9103	09/04/03	2027		
16		60-3 9104	09/04/03	2045		
17		60-4 9105	09/04/03	2103		
18		60-5 9106	09/04/03	2121		
19		60-6 9107	09/04/03	2139		
20		PEM 29216	09/12/03	1010	7.36	
21		6083 9114	09/12/03	1028	7.36	
22		60-3 9104	09/12/03	1046		
23	0911HMB	0911HMB	09/12/03	1251	7.36	
24	0911HMBLCS	0911HMBLCS	09/12/03	1309	7.36	
25	0911HMBLCSD	0911HMBLCSD	09/12/03	1328	7.36	
26	73924-1	086-BFC-S-09	09/12/03	1433	7.36	
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

S3 = Dibutylchlorendate

QC LIMITS
(+/- 0.05 MINUTES)

FORM VIII PEST-PCB

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code:

Client: Project: SDG No.: JETC01

GC Column: DB-17 ID: 0.32 (mm) Init. Calib. Date(s): 09/02/03 09/04/03

Instrument ID: TSGKECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
01		PEM 29216	09/04/03	1546	3.23	9.46
02		60819114	09/04/03	1632	3.22	9.46
03		6082 9115	09/04/03	1650	3.23	9.46
04		6083 9116	09/04/03	1708	3.23	9.45
05		6084 9117	09/04/03	1726	3.23	9.45
06		6085 9118	09/04/03	1744	3.24	9.45
07		6086 9119	09/04/03	1802	3.23	9.45
08		TECH 9162	09/04/03	1820		
09		TOX 91611	09/04/03	1838		
10		1232 9175	09/04/03	1857		
11		1242 9176	09/04/03	1915		
12		1248 9177	09/04/03	1933		
13		2154 9178	09/04/03	1951		
14		60-1 9102	09/04/03	2009	3.24	9.46
15		60-2 9103	09/04/03	2027	3.23	9.45
16		60-3 9104	09/04/03	2045	3.23	9.45
17		60-4 9105	09/04/03	2103	3.24	9.45
18		60-5 9106	09/04/03	2121	3.24	9.45
19		60-6 9107	09/04/03	2139	3.24	9.45
20		PEM 29216	09/12/03	1010	3.23	9.45
21		6083 9114	09/12/03	1028	3.23	9.45
22		60-3 9104	09/12/03	1046	3.23	9.45
23	0911HMB	0911HMB	09/12/03	1251	3.23	9.45
24	0911HMBLCS	0911HMBLCS	09/12/03	1309	3.23	9.45
25	0911HMBLCSD	0911HMBLCSD	09/12/03	1328	3.23	9.45
26	73924-1	086-BFC-S-09	09/12/03	1433	3.22	9.45
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.05 MINUTES)

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code:

Client: Project: SDG No.: JETC01

GC Column: DB-17 ID: 0.32 (mm) Init. Calib. Date(s): 09/02/03 09/04/03

Instrument ID: TSGKECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	RT
01		PEM 29216	09/04/03	1546	7.77	
02		60819114	09/04/03	1632	7.77	
03		6082 9115	09/04/03	1650	7.77	
04		6083 9116	09/04/03	1708	7.77	
05		6084 9117	09/04/03	1726	7.77	
06		6085 9118	09/04/03	1744	7.77	
07		6086 9119	09/04/03	1802	7.77	
08		TECH 9162	09/04/03	1820		
09		TOX 91611	09/04/03	1838		
10		1232 9175	09/04/03	1857		
11		1242 9176	09/04/03	1915		
12		1248 9177	09/04/03	1933		
13		2154 9178	09/04/03	1951		
14		60-1 9102	09/04/03	2009		
15		60-2 9103	09/04/03	2027		
16		60-3 9104	09/04/03	2045		
17		60-4 9105	09/04/03	2103		
18		60-5 9106	09/04/03	2121		
19		60-6 9107	09/04/03	2139		
20		PEM 29216	09/12/03	1010	7.77	
21		6083 9114	09/12/03	1028	7.77	
22		60-3 9104	09/12/03	1046		
23	0911HMB	0911HMB	09/12/03	1251	7.77	
24	0911HMBLCS	0911HMBLCS	09/12/03	1309	7.77	
25	0911HMBLCSD	0911HMBLCSD	09/12/03	1328	7.77	
26	73924-1	086-BFC-S-09	09/12/03	1433	7.77	
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

S3 = Dibutylchlorendate

QC LIMITS
(+/- 0.05 MINUTES)

FORM VIII PEST-PCB

FORM 8
PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): 1I12K006 Date Analyzed: 09/12/03

Instrument ID: TSGKECD1 Time Analyzed: 1046

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	47050	1.71				
	UPPER LIMIT	70575	1.76				
	LOWER LIMIT	23525	1.66				
	CLIENT SAMPLE NO.						
01	0911HMB	47180	1.71				
02	0911HMBLCS	44649	1.71				
03	0911HMBLCSD	45092	1.70				
04	73924-1	41982	1.70				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): 1I12K006 Date Analyzed: 09/12/03

Instrument ID: TSGKECD2 Time Analyzed: 1046

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	17163	2.33				
	UPPER LIMIT	25745	2.38				
	LOWER LIMIT	8582	2.28				
	CLIENT SAMPLE NO.						
01	0911HMB	16465	2.33				
02	0911HMBLCS	17197	2.33				
03	0911HMBLCSD	17354	2.32				
04	73924-1	16448	2.31				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 279 11

Batch No: SG091103H

Date Extracted: 09.10.03

Start Time: 1030 AM

Stop Time: 1130 AM

Analysis Required: 8081/8082

Prep Method: 3550

Analyst/Activity Code*: BE/A,B,S,D

Initial Project Check: BE

Final Project Check: AN

Date Concentrated: 9-16-03

Initials: DK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8081	6.3.71.2	1.0	BE
Surr.				
Spike	8080	6.3.70.8	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 HEX/ACE: AN.A28.0038.17

Na_2SO_4 POWD: X44144

Na_2SO_4 GRAN: Y02631

HEX: Y16F2L

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D.	H.D.	COMMENTS
1. T373661*18*R/3B-2*	WRG061	SS	17.16			5.0	09.08	09.01	R|
2. T373662*2*R/2D-2*	WRG060	SS	30.0			10.0	09.08	09.02	R|
3. T373662*6*R/3E-2*	WRG060	SS	20.0			5.0	09.08	09.02	R|
4. T373662*7*R/3E-3*	WRG060	SS	30.0			10.0	09.08	09.02	R|
5. T373924*1/086-BFC-S-0904-03*	JETC01	SS	30.0				09.12	09.18	RP|
6. T373659*9 2A-1		SS	0.90						
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			10.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
MS: T373662 R/3E-3		SS							
MSD: T373662 R/3E-3		SS							

AN 9-15-03

Dets: (-)Organochlorine Pesticides <8081> |TCL - Pesticides/PCB's <8081/8082>|

+ Additional Dets:

0193

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: PEST-PCB

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
712624	1K0904.b	1I04K011.D	PEM		PEM 29216	712623		
712624	1K0904.b	1I04K012.D	CALIB_1		60819114	4705933		
712624	1K0904.b	1I04K013.D	CALIB_2		6082 9115	4705934		
712624	1K0904.b	1I04K014.D	CALIB_3		6083 9116	4705935		
712624	1K0904.b	1I04K015.D	CALIB_4		6084 9117	4705936		
712624	1K0904.b	1I04K016.D	CALIB_5		6085 9118	4705937		
712624	1K0904.b	1I04K017.D	CALIB_6		6086 9119	4705938		
712624	1K0904.b	1I04K018.D	CALIB_3		TECH 9162	4705939		
712624	1K0904.b	1I04K019.D	CALIB_3		TOX 91611	4705940		
712624	1K0904.b	1I04K020.D	CALIB_3		1232 9175	4705941		
712624	1K0904.b	1I04K021.D	CALIB_3		1242 9176	4705942		
712624	1K0904.b	1I04K022.D	CALIB_3		1248 9177	4705943		
712624	1K0904.b	1I04K023.D	CALIB_3		2154 9178	4705944		
712624	1K0904.b	1I04K024.D	CALIB_1		60-1 9102	4705945		
712624	1K0904.b	1I04K025.D	CALIB_2		60-2 9103	4705946		
712624	1K0904.b	1I04K026.D	CALIB_3		60-3 9104	4705947		
712624	1K0904.b	1I04K027.D	CALIB_4		60-4 9105	4705948		
712624	1K0904.b	1I04K028.D	CALIB_5		60-5 9106	4705949		
712624	1K0904.b	1I04K029.D	CALIB_6		60-6 9107	1106822		
712629	1K0904.b	1I04K011.D	PEM		PEM 29216	712628		
712629	1K0904.b	1I04K012.D	CALIB_1		60819114	4705969		
712629	1K0904.b	1I04K013.D	CALIB_2		6082 9115	4705970		
712629	1K0904.b	1I04K014.D	CALIB_3		6083 9116	4705971		
712629	1K0904.b	1I04K015.D	CALIB_4		6084 9117	4705972		
712629	1K0904.b	1I04K016.D	CALIB_5		6085 9118	4705973		
712629	1K0904.b	1I04K017.D	CALIB_6		6086 9119	4705974		
712629	1K0904.b	1I04K018.D	CALIB_3		TECH 9162	4705975		
712629	1K0904.b	1I04K019.D	CALIB_3		TOX 91611	4705976		
712629	1K0904.b	1I04K020.D	CALIB_3		1232 9175	4705977		
712629	1K0904.b	1I04K021.D	CALIB_3		1242 9176	4705978		
712629	1K0904.b	1I04K022.D	CALIB_3		1248 9177	4705979		
712629	1K0904.b	1I04K023.D	CALIB_3		2154 9178	4705980		
712629	1K0904.b	1I04K024.D	CALIB_1		60-1 9102	4705981		
712629	1K0904.b	1I04K025.D	CALIB_2		60-2 9103	4705982		
712629	1K0904.b	1I04K026.D	CALIB_3		60-3 9104	4705983		
712629	1K0904.b	1I04K027.D	CALIB_4		60-4 9105	4705984		
712629	1K0904.b	1I04K028.D	CALIB_5		60-5 9106	4705985		
712629	1K0904.b	1I04K029.D	CALIB_6		60-6 9107	4705986		
713590	1K0912.b	1I12K004.D	PEM		PEM 29216	4801091		
713590	1K0912.b	1I12K005.D	CCALIB_3		6083 9114	4801092		
713590	1K0912.b	1I12K006.D	CCALIB_3		60-3 9104	4801093		
713590	1K0912.b	1I12K010.D	BLANK	0911HMB	0911HMB	713595	SG091103H	JETC01
713590	1K0912.b	1I12K011.D	LCS	0911HMBLCS	0911HMBLCS	713596	SG091103H	JETC01
713590	1K0312.b	1I12K012.D	LCSD	0911HMBLCSD	0911HMBLCSD	713597	SG091103H	JETC01
713590	1K0912.b	1I12K015.D	SAMPLE	73924-1	086-BFC-S-0904-0	4707258	SG091103H	JETC01
713580	1K0912.b	1I12K004.D	PEM		PEM 29216	4801088		
713580	1K0912.b	1I12K005.D	CCALIB_3		6083 9114	4801089		
713580	1K0912.b	1I12K006.D	CCALIB_3		60-3 9104	4801090		
713580	1K0912.b	1I12K010.D	BLANK	0911HMB	0911HMB	713604	SG091103H	JETC01
713580	1K0912.b	1I12K011.D	LCS	0911HMBLCS	0911HMBLCS	713605	SG091103H	JETC01
713580	1K0912.b	1I12K012.D	LCSD	0911HMBLCSD	0911HMBLCSD	713606	SG091103H	JETC01

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
713580	1K0912.b	1I12K015.D	SAMPLE	73924-1	086-BFC-S-0904-0	4707261	SG091103H	JETC01

Sequence: C:\HPCHEM\1\SEQUENCE\1I04K.S

Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	99	HEX ~1K0904				
2	99	HEX ~1K0904				
3	96	PRIM~1K0904				
4	97	PRIM~1K0904				
5	98	PRIM~1K0904				
6	99	HEX ~1K0904				
7	96	PRIM~1K0904				
8	97	PRIM~1K0904				
9	98	PRIM~1K0904				
10	99	HEX ~1K0904				
11	100	PEM 29216~1K0906				
12	1	60819114~1K0904				
13	2	6082 9115~1K0904				
14	3	6083 9116~1K0904				
15	4	6084 9117~1K0904				
16	5	6085 9118~1K0904				
17	6	6086 9119~1K0904				
18	7	TECH 9162~1K0904				
19	8	TOX 91611~1K0904				
20	9	1232 9175~1K0904				
21	10	1242 9176~1K0904				
22	11	1248 9177~1K0904				
23	12	2154 9178~1K0904				
24	13	60-1 9102~1K0904				
25	14	60-2 9103~1K0904				
26	15	60-3 9104~1K0904				
27	16	60-4 9105~1K0904				
28	17	60-5 9106~1K0904				
29	18	60-6 9107~1K0904				

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\HPCHEM\1\SEQUENCE\1I12K.S

Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	97	PRIM~1K0912				
2	98	PRIM~1K0912				
3	99	HEX ~1K0912				
4	100	PEM 29216~1K0912				
5	1	6083 9114~1K0912				
6	2	60-3 9104~1K0912				
7	3	73903-3~1K0912~F				
8	4	73903-2~1K0912~F				10
9	5	73903-2~1K0912~F				20
10	6	0911HMB~1K0912~				
11	7	0911HLCS~1K0912				
12	8	0911HLCD~1K0912				
13	9	73662-7~1K0912~M				
14	10	73662-7~1K0912~M				
15	11	73924-1~1K0912				
16	12	0910NMB~1K0912~A				
17	13	0910NLCS~1K0912				
18	14	0910NLCSD~1K0912				
19	15	0910NMS~1K0912				
20	16	0910NMSD~1K0912				
21	17	73925-1`1K0912				
22	1	6083 9114~1K0912				
23	2	60-3 9104~1K0912				

Sequence Table (Back Injector):

No entries - empty table!

PETROLEUM RANGE ORGANICS

Method FL-PRO

CASE NARRATIVE
GC PETROLEUM RANGE ORGANICS

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: FL-PRO
Cleanup: N/A
Analysis: FL-PRO

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Matrix Spikes were not recovered due to a sample dilution that was required prior to analysis.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

CASE NARRATIVE

FORMS

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12H22

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 2 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5------	FLPROTPH	16	

FORM I FL PRO

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0910JMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0910JMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12H17

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:09/10/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 09/12/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	10	U

FORM I FL PRO

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0910JLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0910JLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12H18

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 2 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5------	FLPROTPH	38	

FORM I FL PRO

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0910JLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 0910JLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I12H19

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 2 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	46	

FORM I FL PRO

FORM 2
SOIL FL PRO SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (OTP) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	0910JMB	48	37							0
02	0910JLCS	42	37							0
03	0910JLCSD	54	45							0
04	73924-1	55	46							0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (OTP)	= o-Terphenyl	(15-154)
S2	= C39	(30-118)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL FL PRO LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 0910JLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (mg/Kg)	LCS % REC#	QC. LIMITS REC.
FLPROTPH	91		38	42	26-116

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONC (mg/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
FLPROTPH	91	46	50	46	19	25	26-116

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III FL PRO

FORM 4
FL PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0910JMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: 1I12H17 Lab Sample ID: 0910JMB

Instrument ID: TSGHFID1 Date Extracted: 09/10/03

Matrix: (soil/water) SOIL Date Analyzed: 09/12/03

Level:(low/med) LOW Time Analyzed: 1110

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0910JLCS	0910JLCS	1I12H18	09/12/03
02	0910JLCSD	0910JLCSD	1I12H19	09/12/03
03	73924-1	086-BFC-S-0904	1I12H22	09/12/03
04				
05				
06				
07				
08				
09				
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COMMENTS:

FORM IV FL PRO

FORM 6
FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGHFID1 Calibration Date(s): 09/12/03 09/12/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 0840 1018

LAB FILE ID: RF0.136: 1I12H8 RF0.425: 1I12H13 RF0.85: 1I12H12
RF1.275: 1I12H5 RF2.55: 1I12H4

COMPOUND	RF0.136	RF0.425	RF0.85	RF1.275	RF2.55
FLPROTPH	1876375	1336635	1993634	1866112	1809775
o-Terphenyl	2026130	1443230	2218310	2187420	2034510
C39	1729150	1232050	1936570	1893800	1765920

FORM VI FL PRO

FORM 6
FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGHFID1 Calibration Date(s): 09/12/03 09/12/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 0840 1018

RF5.1: 1I12H11

COMPOUND	RF5.1	CURVE	AVE RRF A1	%RSD or R^2
FLPROTPH	1948413	AVRG	1805157	13.2
o-Terphenyl		AVRG	1981920	15.8
C39	1987060	AVRG	1757425	15.7

FORM VI FL PRO

FORM 7
FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSGHFID1 Calibration Date: 09/12/03 Time: 1348

Lab File ID: 1I12H31 Init. Calib. Date(s): 09/12/03 09/12/03

Init. Calib. Times: 0840 1018

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.85	MIN RRF	%D	MAX %D
FLPROTPH	1805157.4	1621585.9	0.01	10.2	25.0
o-Terphenyl	1981920.0	1795350.0	0.01	9.4	25.0
C39	1757425.0	1588790.0	0.01	9.6	25.0

FORM 8
FL PRO ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

GC Column: RTX-5 ID: 0.25 (mm) Init. Calib. Date(s): 09/12/03 09/12/03

Instrument ID: TSGHFID1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S2 RT
01	2-9-14.1	FPRO5-14.1	09/12/03	0840	0.95	3.14
02	2-9-13.10	FPRO4-13.10	09/12/03	0850	0.95	3.14
03	2-9-13.7	FPRO1-13.7	09/12/03	0920	0.95	3.13
04	2-9-14.2	FPRO6-14.2	09/12/03	0958	0.95	3.15
05	2-9-13.9	FPRO3-13.9	09/12/03	1008	0.96	3.14
06	2-9-13.8	FPRO2-13.8	09/12/03	1018	0.95	3.14
07	0910JMB	0910JMB	09/12/03	1110	0.95	3.11
08	0910JLCS	0910JLCS	09/12/03	1120	0.95	3.13
09	0910JLCSD	0910JLCSD	09/12/03	1130	0.95	3.14
10	73924-1	086-BFC-S-09	09/12/03	1200	0.96	3.10
11		FPRO3-13.9	09/12/03	1348	0.96	3.16
12						
13						
14						
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36						

	QC LIMITS
S1 = o-Terphenyl	(+/- 0.02 MINUTES)
S2 = C39	(+/- 0.06 MINUTES)

EXTRACTION LOG(S)

EXTRACTION LOG

9

Job No: 280

Batch No: SG091003 J

Date Extracted: 09.10.03

Start Time: 2 pm

Stop Time: 4 pm

Analysis Required: FL PRO

Prep Method: 3550 SGT

Analyst/Activity Code*: BE / A,B,S,D

Initial Project Check: BE

Final Project Check: JCB

Date Concentrated: 9-11-03

Initials: DK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init.
Surr.	PRO	63.70.17	2.0	BE
Surr.				
Spike	PRO	63.71.8	2.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

$MeCl_2$: Y17E34 ~~X44144~~

Na_2SO_4 POWD: ~~Y02L67~~ BE 10-3

Na_2SO_4 GRAN: Y02L31

S:1 Gel: Y3126324

CS_2: T25426

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.O	H.D	COMMENTS
1. T373922*1/B-4 (18-19')*		SS	30.0			2.0	09.15	09.19	
2. T373949*1/S001*		SS	↓			2.0	09.17	09.23	
3. T373949*2/S002*		SS	↓			2.0	09.17	09.23	
4. T373924*1/086-BFC-S-0904-03*	JETC01	SS	↓			2.0	09.12	09.18	RP|
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			2.0			
Lab Spike #1		SS	30.0			↓			
Lab Spike #2		SS	30.0						
MS: T373922 B4 (18-19')		SS	↓						
MSD: ↓ ↓		SS	↓						

JCB 9-16-03

Dets: Petroleum Range Organics <FL-PRO>|

+ Additional Dets:

0215

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: FL PRO

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4110414	1H0912.b	1I12H4.d	CALIB_5	2-9-14.1	FPRO5-14.1	4110409		
4110414	1H0912.b	1I12H5.d	CALIB_4	2-9-13.10	FPRO4-13.10	4110410		
4110414	1H0912.b	1I12H8.d	CALIB_1	2-9-13.7	FPRO1-13.7	4110413		
4110414	1H0912.b	1I12H11.d	CALIB_6	2-9-14.2	FPRO6-14.2	4110418		
4110414	1H0912.b	1I12H12.d	CALIB_3	2-9-13.9	FPRO3-13.9	4110419		
4110414	1H0912.b	1I12H13.d	CALIB_2	2-9-13.8	FPRO2-13.8	4110420		
4110414	1H0912.b	1I12H31.d	CCALIB_3		FPRO3-13.9	4110469		
4110414	1H0912.b	1I12H17.d	BLANK	0910JMB	0910JMB	4110438	SG091003J	JETC01
4110414	1H0912.b	1I12H18.d	LCS	0910JLCS	0910JLCS	4110447	SG091003J	JETC01
4110414	1H0912.b	1I12H19.d	LCSD	0910JLCSD	0910JLCSD	4110444	SG091003J	JETC01
4110414	1H0912.b	1I12H22.d	SAMPLE	73924-1	086-BFC-S-0904-0	4110451	SG091003J	JETC01

SEQUENCE FILE: 1I12H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
3	FPR06-14.2 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
4	FPR05-14.1 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
5	FPR04-13.10~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
6	FPR03-13.9 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
7	FPR02-13.8 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
8	FPR01-13.7 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
9	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
10	CRINCE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
11	FPR06-14.2~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
12	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
13	FPR02-13.8~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
14	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
15	CHKSTD-14.3~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
16	CRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
17	0910JMB ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
18	0910JLCS ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
19	0910JLCSD ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
20	73922-1~1H0912	EZFL	1I12H	1.0000	1.0000	10.0000	1.0000
21	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
22	73924-1~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
23	73922-1~1H0912	EZFL	1I12H	1.0000	1.0000	30.0000	1.0000
24	73922-1~1H0912~MS	EZFL	1I12H	1.0000	1.0000	30.0000	1.0000
25	73922-1~1H0912~MSD	EZFL	1I12H	1.0000	1.0000	30.0000	1.0000
26	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
27	73949-1~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
28	73949-2~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
29	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
30	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
31	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
32	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
33	0908BMB ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
34	0908BLCS ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
35	0908BLCSD ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
36	73909-1~1H0912~MS	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
37	73909-1~1H0912~MSD	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
38	73882-1 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
39	73882-2 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
40	73882-3 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
41	73882-4 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
42	73909-1 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
43	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
44	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
45	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
46	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
47	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
48	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
49	FRINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
50	FPR06-14.2~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
51	FPR05-14.1~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
52	FPR04-13.10~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
53	FPR03-13.9 ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
54	FPR02-13.8 ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
55	FPR01-13.7 ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
56	FRINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
57	CHKSTD-14.3~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
58	CRINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
59	0908BMB ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000

61	0908BLCSD ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
62	73909-1~2H0912~MS	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
63	73909-1~2H0912~MSD	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
64	73909-1~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
65	73882-1~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
66	73882-2~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
67	73882-3~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
68	73882-4~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
69	7RINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
70	7RINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
71	FPR03-13.9~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000

POLYNUCLEAR AROMATIC HYDROCARBONS
Method 8270

CASE NARRATIVE

CASE NARRATIVE
GC/MS POLYNUCLEAR AROMATICS

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8270

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Matrix Spikes were not recovered due to a sample dilution that was required prior to analysis.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091207

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	7.4	U
91-57-6	2-Methylnaphthalene	7.4	U
90-12-0	1-Methylnaphthalene	7.4	U
208-96-8	Acenaphthylene	7.4	U
83-32-9	Acenaphthene	7.4	U
86-73-7	Fluorene	7.4	U
85-01-8	Phenanthrene	7.4	U
120-12-7	Anthracene	7.4	U
206-44-0	Fluoranthene	7.4	U
129-00-0	Pyrene	7.4	U
56-55-3	Benzo(a)anthracene	7.4	U
218-01-9	Chrysene	7.4	U
205-99-2	Benzo(b)fluoranthene	7.4	U
207-08-9	Benzo(k)fluoranthene	7.4	U
50-32-8	Benzo(a)pyrene	7.4	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.4	U
53-70-3	Dibenzo(a,h)anthracene	7.4	U
191-24-2	Benzo(g,h,i)perylene	7.4	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091003LLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: SM091003LLB

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091204

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.7	U
91-57-6	2-Methylnaphthalene	6.7	U
90-12-0	1-Methylnaphthalene	6.7	U
208-96-8	Acenaphthylene	6.7	U
83-32-9	Acenaphthene	6.7	U
86-73-7	Fluorene	6.7	U
85-01-8	Phenanthrene	6.7	U
120-12-7	Anthracene	6.7	U
206-44-0	Fluoranthene	6.7	U
129-00-0	Pyrene	6.7	U
56-55-3	Benzo(a)anthracene	6.7	U
218-01-9	Chrysene	6.7	U
205-99-2	Benzo(b)fluoranthene	6.7	U
207-08-9	Benzo(k)fluoranthene	6.7	U
50-32-8	Benzo(a)pyrene	6.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	U
53-70-3	Dibenzo(a,h)anthracene	6.7	U
191-24-2	Benzo(g,h,i)perylene	6.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091003LLBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: SM091003LLBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091205

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	76	
91-57-6	2-Methylnaphthalene	75	
90-12-0	1-Methylnaphthalene	76	
208-96-8	Acenaphthylene	82	
83-32-9	Acenaphthene	79	
86-73-7	Fluorene	77	
85-01-8	Phenanthrene	86	
120-12-7	Anthracene	78	
206-44-0	Fluoranthene	82	
129-00-0	Pyrene	84	
56-55-3	Benzo(a)anthracene	83	
218-01-9	Chrysene	86	
205-99-2	Benzo(b)fluoranthene	70	
207-08-9	Benzo(k)fluoranthene	84	
50-32-8	Benzo(a)pyrene	71	
193-39-5	Indeno(1,2,3-cd)pyrene	83	
53-70-3	Dibenzo(a,h)anthracene	78	
191-24-2	Benzo(g,h,i)perylene	86	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091003LLBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: SM091003LLBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091206

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/12/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	75	
91-57-6	2-Methylnaphthalene	76	
90-12-0	1-Methylnaphthalene	77	
208-96-8	Acenaphthylene	84	
83-32-9	Acenaphthene	82	
86-73-7	Fluorene	82	
85-01-8	Phenanthrene	91	
120-12-7	Anthracene	82	
206-44-0	Fluoranthene	89	
129-00-0	Pyrene	91	
56-55-3	Benzo(a)anthracene	87	
218-01-9	Chrysene	90	
205-99-2	Benzo(b)fluoranthene	77	
207-08-9	Benzo(k)fluoranthene	84	
50-32-8	Benzo(a)pyrene	73	
193-39-5	Indeno(1,2,3-cd)pyrene	85	
53-70-3	Dibenzo(a,h)anthracene	79	
191-24-2	Benzo(g,h,i)perylene	89	

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (OTP) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SM091003LLB	48								0
02	SM091003LLBL	67								0
03	SM091003LLBL	73								0
04	73924-1	67								0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
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26										
27										
28										
29										
30										

S1 (OTP) = o-Terphenyl QC LIMITS (30-130)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: SM091003LLB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
Acenaphthene	130	0.00	79	61	18-123
Benzo(a)pyrene	130	0.00	71	55	41-142
Fluorene	130	0.00	77	59	27-151
Naphthalene	130	0.00	76	58	25-131
Pyrene	130	0.00	84	65	10-133

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	130	82	63	62	3.7	49	18-123
Benzo(a)pyrene	130	73	56	56	2.8	55	41-142
Fluorene	130	82	63	61	6.3	50	27-151
Naphthalene	130	75	58	58	1.3	34	25-131
Pyrene	130	91	70	68	8.0	42	10-133

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SM091003LLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: C3091204 Lab Sample ID: SM091003LLB

Instrument ID: TSMC5973 Date Extracted: 09/10/03

Matrix: (soil/water) SOIL Date Analyzed: 09/12/03

Level: (low/med) LOW Time Analyzed: 0901

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SM091003LLBL	SM091003LLBLCS	C3091205	09/12/03
02	SM091003LLBL	SM091003LLBLCS	C3091206	09/12/03
03	73924-1	086-BFC-S-0904	C3091207	09/12/03
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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28				
29				
30				

COMMENTS:

FORM IV SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: C3082210 DFTPP Injection Date: 08/22/03

Instrument ID: TSMC5973 DFTPP Injection Time: 1110

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 442	27.8
68	Less than 2.0% of mass 69	0.2 (0.7)1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	45.4 (53.9)2
197	Less than 2.0% of mass 198	0.0 (0.0)2
198	Greater than 50.0% of mass 442	84.1
199	5.0 to 9.0% of mass 198	5.7 (6.8)2
275	10.0 - 60.0% of mass 442	22.9
365	Greater than 1.0% of mass 442	3.16
441	Less than 100.0% of mass 443	14.3 (74.6)3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0% of mass 442	19.2

1-Value is % mass 69 2-Value is % mass 198
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAH0.2	PAH0.2	C3082211	08/22/03	1125
02	PAH2.5	PAH2.5	C3082212	08/22/03	1141
03	PAH5.0	PAH5.0	C3082213	08/22/03	1156
04	PAH10	PAH10	C3082214	08/22/03	1211
05	PAH12.5	PAH12.5	C3082215	08/22/03	1227
06	PAH15	PAH15	C3082216	08/22/03	1242
07	PAH17.5	PAH17.5	C3082217	08/22/03	1258
08	PAH20.0	PAH20.0	C3082218	08/22/03	1313
09					
10					
11					
12					
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17					
18					
19					
20					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: C3091201 DFTPP Injection Date: 09/12/03

Instrument ID: TSMC5973 DFTPP Injection Time: 0818

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 442	32.5
68	Less than 2.0% of mass 69	0.2 (0.5)1
69	Mass 69 relative abundance	41.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	10.0 - 80.0% of mass 198	53.2 (60.2)2
197	Less than 2.0% of mass 198	0.4 (0.5)2
198	Greater than 50.0% of mass 442	88.3
199	5.0 to 9.0% of mass 198	5.6 (6.3)2
275	10.0 - 60.0% of mass 442	23.8
365	Greater than 1.0% of mass 442	3.79
441	Less than 100.0% of mass 443	14.6 (81.3)3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0% of mass 442	17.9

1-Value is % mass 69 2-Value is % mass 198
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PAH05.0	C3091202	09/12/03	0831
02	SM091003LLB	SM091003LLB	C3091204	09/12/03	0901
03	SM091003LLBL	SM091003LLBLCS	C3091205	09/12/03	0917
04	SM091003LLBL	SM091003LLBLCS	C3091206	09/12/03	0932
05	73924-1	086-BFC-S-0904	C3091207	09/12/03	0948
06					
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FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMC5973 Calibration Date(s): 08/22/03 08/22/03

Column: ZB5 ID: 0.25 (mm) Calibration Time(s): 1125 1313

LAB FILE ID: RF0.2: C3082211 RF2.5: C3082212 RF5: C3082213
RF10: C3082214

COMPOUND	RF0.2	RF2.5	RF5	RF7.5	RF10
Naphthalene	1.138	1.075	1.046		1.073
2-Methylnaphthalene	0.625	0.727	0.708		0.731
1-Methylnaphthalene	0.609	0.768	0.750		0.751
Acenaphthylene	2.093	1.983	2.020		2.105
Acenaphthene	1.165	1.108	1.122		1.156
Fluorene	1.356	1.354	1.356		1.410
Phenanthrene	1.077	1.066	1.057		1.073
Anthracene	1.155	1.127	1.061		1.086
Fluoranthene	1.163	1.184	1.168		1.157
Pyrene	1.276	1.249	1.238		1.141
Benzo(a)anthracene	1.097	1.080	1.090		1.078
Chrysene	1.066	1.030	1.036		1.028
Benzo(b)fluoranthene	1.285	1.223	1.203		1.228
Benzo(k)fluoranthene	1.388	1.316	1.337		1.310
Benzo(a)pyrene	1.220	1.101	1.135		1.132
Indeno(1,2,3-cd)pyrene	1.274	1.277	1.269		1.251
Dibenzo(a,h)anthracene	1.008	1.032	1.050		1.042
Benzo(g,h,i)perylene	1.076	1.064	1.061		1.044
o-Terphenyl	0.641	0.617	0.590		0.590

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMC5973 Calibration Date(s): 08/22/03 08/22/03

Column: ZB5 ID: 0.25 (mm) Calibration Time(s): 1125 1313

LAB FILE ID: RF12.5: C3082215 RF15: C3082216 RF17.5: C3082217
RF20: C3082218

COMPOUND	RF12.5	RF15	RF17.5	RF20
Naphthalene	1.073	1.074	1.071	1.139
2-Methylnaphthalene	0.733	0.739	0.712	0.761
1-Methylnaphthalene	0.752	0.748	0.730	0.763
Acenaphthylene	2.093	2.101	1.871	1.844
Acenaphthene	1.173	1.157	1.142	1.205
Fluorene	1.414	1.417	1.376	1.369
Phenanthrene	1.071	1.066	1.026	0.960
Anthracene	1.089	1.090	0.997	0.931
Fluoranthene	1.198	1.171	1.123	1.090
Pyrene	1.178	1.187	1.041	1.089
Benzo(a)anthracene	1.093	1.096	1.075	1.130
Chrysene	1.045	1.033	0.996	1.035
Benzo(b)fluoranthene	1.377	1.385	1.339	1.492
Benzo(k)fluoranthene	1.185	1.304	1.303	1.359
Benzo(a)pyrene	1.184	1.193	1.196	1.251
Indeno(1,2,3-cd)pyrene	1.340	1.360	1.350	1.437
Dibenzo(a,h)anthracene	1.145	1.142	1.159	1.224
Benzo(g,h,i)perylene	1.122	1.124	1.122	1.193
o-Terphenyl	0.583	0.590	0.576	0.603

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMC5973 Calibration Date(s): 08/22/03 08/22/03

Column: ZB5 ID: 0.25 (mm) Calibration Time(s): 1125 1313

COMPOUND	CURVE	AVE RRF A1	%RSD or R^2
Naphthalene	AVRG	1.08599	3.1
2-Methylnaphthalene	AVRG	0.71721	5.6
1-Methylnaphthalene	AVRG	0.73394	7.0
Acenaphthylene	AVRG	2.01382	5.2
Acenaphthene	AVRG	1.15360	2.6
Fluorene	AVRG	1.38165	2.0
Phenanthrene	AVRG	1.04970	3.8
Anthracene	AVRG	1.06703	6.7
Fluoranthene	AVRG	1.15690	3.0
Pyrene	AVRG	1.17503	6.9
Benzo(a)anthracene	AVRG	1.09255	1.6
Chrysene	AVRG	1.03371	1.9
Benzo(b)fluoranthene	AVRG	1.31656	7.6
Benzo(k)fluoranthene	AVRG	1.31299	4.6
Benzo(a)pyrene	AVRG	1.17641	4.3
Indeno(1,2,3-cd)pyrene	AVRG	1.31991	4.8
Dibenzo(a,h)anthracene	AVRG	1.10030	7.0
Benzo(g,h,i)perylene	AVRG	1.10065	4.4
o-Terphenyl	AVRG	0.59895	3.5

FORM VI SV

FORM 7
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMC5973 Calibration Date: 09/12/03 Time: 0831

Lab File ID: C3091202 Init. Calib. Date(s): 08/22/03 08/22/03

Init. Calib. Times: 1125 1313

GC Column: ZB5 ID: 0.25 (mm)

COMPOUND	ICAL5 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Naphthalene	1.086		1.062		2.2	20.0	AVRG
2-Methylnaphthalene	0.717		0.610		14.9	20.0	AVRG
1-Methylnaphthalene	0.734		0.632		13.9	20.0	AVRG
Acenaphthylene	2.014		2.006		0.4	20.0	AVRG
Acenaphthene	1.154		1.106		4.2	20.0	AVRG
Fluorene	1.382		1.329		3.8	20.0	AVRG
Phenanthrene	1.050		1.070		1.9	20.0	AVRG
Anthracene	1.067		1.081		1.3	20.0	AVRG
Fluoranthene	1.157		1.162		0.4	20.0	AVRG
Pyrene	1.175		1.171		0.3	20.0	AVRG
Benzo(a)anthracene	1.092		1.047		4.1	20.0	AVRG
Chrysene	1.034		1.015		1.8	20.0	AVRG
Benzo(b)fluoranthene	1.316		1.209		8.1	20.0	AVRG
Benzo(k)fluoranthene	1.313		1.311		0.2	20.0	AVRG
Benzo(a)pyrene	1.176		1.093		7.0	20.0	AVRG
Indeno(1,2,3-cd)pyrene	1.320		1.136		13.9	20.0	AVRG
Dibenzo(a,h)anthracene	1.100		0.882		19.8	20.0	AVRG
Benzo(g,h,i)perylene	1.101		1.011		8.2	20.0	AVRG
o-Terphenyl	0.599		0.606		1.2		AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM VII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): C3091202 Date Analyzed: 09/12/03

Instrument ID: TSMC5973 Time Analyzed: 0831

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
	12 HOUR STD	1059312	2.72	543181	3.67	881997	4.50
	UPPER LIMIT	2118624	3.22	1086362	4.17	1763994	5.00
	LOWER LIMIT	529656	2.22	271591	3.17	440999	4.00
	CLIENT SAMPLE NO.						
01	SM091003LLB	968135	2.73	569282	3.67	940623	4.49
02	SM091003LLBL	752244	2.72	411877	3.67	712272	4.49
03	SM091003LLBL	679312	2.72	369204	3.67	615545	4.49
04	73924-1	630047	2.74	372320	3.67	597490	4.49
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21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): C3091202 Date Analyzed: 09/12/03

Instrument ID: TSMC5973 Time Analyzed: 0831

		IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	874880	6.34	754599	7.93		
	UPPER LIMIT	1749760	6.84	1509198	8.43		
	LOWER LIMIT	437440	5.84	377300	7.43		
	CLIENT SAMPLE NO.						
01	SM091003LLB	961242	6.34	950316	7.92		
02	SM091003LLBL	708142	6.34	649856	7.93		
03	SM091003LLBL	628119	6.34	584123	7.92		
04	73924-1	569414	6.34	500034	7.93		
05							
06							
07							
08							
09							
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12							
13							
14							
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16							
17							
18							
19							
20							
21							
22							

IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 288 7

Batch No: SM091003L

Date Extracted: 09.10.03

Start Time: 3pm

Stop Time: 4pm

Analysis Required: 8270 PAH

Prep Method: 3550

Analyst/Activity Code* BE /A,B,S,D

Initial Project Check: BE

Final Project Check:

Date Concentrated: 9-11-03

Initials: DK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	PAH	7.3.5.6	1.0	BE
Surr.				
Spike	PAH	7.3.5.7	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 $MeCl_2$/ACE:

AN.A28.0038.9

Na_2SO_4 POWD: X44144

Na_2SO_4 GRAN: 102631

$MeCl_2$: 116E79

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T373922*1/B-4 (18-19')*		SS	30.0			1.0	09.15	09.19	
2. T373924*1/086-BFC-S-0904-03*	JETC01	SS	↓			↓	09.12	09.18	RP]
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			1.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
MS: T373922 B-4 (18-19')		SS							
MSD: T373922 B4 (18-19')		SS	↓			↓			

Dets: Polynuclear Aromatics <8270>]

+ Additional Dets:

0240

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: SV

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
14383102	2C30822.b	C3082210.D	DFTPP	DFTPP	DFTPP	14383101		
14383102	2C30822.b	C3082211.D	CALIB_1	PAH0.2	PAH0.2	14383107	3.5.47.6	
14383102	2C30822.b	C3082212.D	CALIB_2	PAH2.5	PAH2.5	14383121	3.5.38.1	
14383102	2C30822.b	C3082213.D	CALIB_3	PAH5.0	PAH5.0	14383122	3.5.38.2	
14383102	2C30822.b	C3082214.D	CALIB_5	PAH10	PAH10	14383123	3.5.38.4	
14383102	2C30822.b	C3082215.D	CALIB_6	PAH12.5	PAH12.5	14383131	3.5.38.5	
14383102	2C30822.b	C3082216.D	CALIB_7	PAH15	PAH15	14383136	3.5.38.6	
14383102	2C30822.b	C3082217.D	CALIB_8	PAH17.5	PAH17.5	4702052	3.5.38.7	
14383102	2C30822.b	C3082218.D	CALIB_9	PAH20.0	PAH20.0	4702053	3.5.39.1	
3161024	1C30912.b	C3091201.D	DFTPP	DFTPP	DFTPP	3161023		
3161024	1C30912.b	C3091202.D	CCALIB_3		PAH05.0	3161029	3.5.54.3	
3161024	1C30912.b	C3091204.D	BLANK	SM091003LLB	SM091003LLB	2536556	SM091003L	JETC01
3161024	1C30912.b	C3091205.D	LCS	SM091003LLBLCS	SM091003LLBLCS	2536557	SM091003L	JETC01
3161024	1C30912.b	C3091206.D	LCSD	SM091003LLBLCSD	SM091003LLBLCSD	2536563	SM091003L	JETC01
3161024	1C30912.b	C3091207.D	SAMPLE	73924-1	086-BFC-S-0904-0	2536578	SM091003L	JETC01

Sequence Name: C:\MSDCHEM\1\SEQUENCE\C30822A.S
Comment: STL Instrument TSMC5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

MPF 8

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	C3082200	LLPAH4	TUNE5.0~3.5.49.4~1~8270
2	Sample	96	C3082201	LLTUN1	TUNE5.0~3.5.49.4~1~8270
3	Sample	97	C3082202	LLPAH4	PAH5.0~3.5.38.2~1~8270
4	Sample	98	C3082203	LLPAH4	PAH0.2~3.5.47.6~1~8270
5	Sample	97	C3082204	LLPAH4	PAH5.0~3.5.38.2~1~8270
6	Sample	97	C3082205	LLPAH4	PAH5.0~3.5.38.2~1~8270
7	Sample	97	C3082206	LLPAH4	PAH5.0~3.5.38.2~1~8270
8	Sample	97	C3082207	LLPAH4	PAH12.5~3.5.38.5~1~8270
9	Sample	96	C3082208	LLTUN1	TUNE5.0~3.5.49.4~1~8270
10	Sample	51	C3082209	LLPAH5	PAH0.2~3.5.47.6~1~8270
11	Sample	96	C3082210	LLTUN1	TUNE5.0~3.5.49.4~1~8270
12	Sample	51	C3082211	LLPAH5	PAH0.2~3.5.47.6~1~8270
13	Sample	52	C3082212	LLPAH5	PAH2.5~3.5.38.1~1~8270
14	Sample	53	C3082213	LLPAH5	PAH5.0~3.5.38.2~1~8270
15	Sample	54	C3082214	LLPAH5	PAH10~3.5.38.4~1~8270
16	Sample	55	C3082215	LLPAH5	PAH12.5~3.5.38.5~1~8270
17	Sample	56	C3082216	LLPAH5	PAH15~3.5.38.6~1~8270
18	Sample	57	C3082217	LLPAH5	PAH17.5~3.5.38.7~1~8270
19	Sample	58	C3082218	LLPAH5	PAH20.0~3.5.39.1~1~8270
20	Sample	59	C3082219	LLPAH5	73612-16~SM082103H~10~8270
21	Sample	60	C3082220	LLPAH5	73612-17~SM082103H~50~8270
22	Sample	61	C3082221	LLPAH5	73612-18~SM082103H~20~8270
23	Sample	62	C3082222	LLPAH5	73612-19~SM082103H~5~8270
24	Sample	1	C3082223	LLPAH5	SM081303KLB~SM081303K~1~8270
25	Sample	2	C3082224	LLPAH5	SM081303KLBLCS~SM081303K~1~82
26	Sample	3	C3082225	LLPAH5	SM081303KLBLCSD~SM081303K~1~8
27	Sample	26	C3082226	LLPAH5	SM082003DLB~SM082003D~1~8270
28	Sample	27	C3082227	LLPAH5	SM082003DLBLCS~SM082003D~1~82
29	Sample	28	C3082228	LLPAH5	SM082003DLBLCSD~SM082003D~1~8
30	Sample	29	C3082229	LLPAH5	73509-1~SM082003D~1~8270
31	Sample	30	C3082230	LLPAH5	73509-2~SM082003D~1~8270
32	Sample	31	C3082231	LLPAH5	73509-3~SM082003D~1~8270
33	Sample	32	C3082232	LLPAH5	73509-4~SM082003D~1~8270
34	Sample	33	C3082233	LLPAH5	73509-5~SM082003D~1~8270
35	Sample	34	C3082234	LLPAH5	73509-6~SM082003D~1~8270
36	Sample	35	C3082235	LLPAH5	73509-7~SM082003D~1~8270
37	Sample	36	C3082236	LLPAH5	73509-8~SM082003D~1~8270
38	Sample	37	C3082237	LLPAH5	73509-9~SM082003D~1~8270
39	Sample	38	C3082238	LLPAH5	73509-10~SM082003D~1~8270
40	Sample	39	C3082239	LLPAH5	73509-11~SM082003D~1~8270
41	Sample	40	C3082240	LLPAH5	73509-12~SM082003D~1~8270
42	Sample	41	C3082241	LLPAH5	73509-13~SM082003D~1~8270
43	Sample	42	C3082242	LLPAH5	SM0802003DMS~SM082003D~1~8270

CONT'D

Sequence Name: C:\MSDCHEM\1\SEQUENCE\C30912.S
Comment: STL Instrument TSMC5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	C3091201	LLTUN1	TUNE5.0~3.5.49.4~1~8270
2	Sample	97	C3091202	LLPAH6	PAH05.0~3.5.54.3~1~8270
3	Sample	98	C3091203	LLPAH6	PAH0.20~3.5.54.4~1~8270
4	Sample	1	C3091204	LLPAH6	SM091003LLB~3.5.54.4~1~8270
5	Sample	2	C3091205	LLPAH6	SM091003LLBLCS~3.5.54.4~1~827
6	Sample	3	C3091206	LLPAH6	SM091003LLBLCSD~3.5.54.4~1~82
7	Sample	4	C3091207	LLPAH6	~~73922-1~~~SM091003L~1~8270 T3773924
8	Sample	5	C3091208	LLPAH6	~~73924-1~~~SM091003L~1~8270 T3773922
9	Sample	6	C3091209	LLPAH6	73922-1~SM091003L~8270-MS
10	Sample	7	C3091210	LLPAH6	73922-1~SM091003L~1~8270-MSD
11	Sample	8	C3091211	LLPAH6	~~73924-1~~~SM091003L~50~8270 T3773922
12	Sample	9	C3091212	LLPAH6	~~73924-1~~~SM091003L~100~8270 T3773922
13	Sample	6	C3091213	LLPAH6	73922-1~SM091003L~8270-MS
14	Sample	7	C3091214	LLPAH6	73922-1~SM091003L~1~8270-MSD
15	Sample	100	C3091215	LLPAH6	RINSE
16	Sample	100	C3091216	LLPAH6	RINSE

SBF 9/15/03

SBF 9/12/03

SEMIVOLATILE ORGANIC COMPOUNDS
Method 8270

CASE NARRATIVE

CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8270

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Relative Percent Difference (%RPD) value for 1,2,4-Trichlorobenzene was outside advisory limits.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091121

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	3&4-Methylphenol	360	U
621-64-7	n-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethyphenol	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	360	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091121

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenylphenylether	360	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	2-Methyl-4,6-dinitrophenol	1900	U
86-30-6	Diphenylamine/n-Nitrosodiphe	360	U
101-55-3	4-Bromophenylphenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-c,d)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091003MLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: SM091003MLB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091118

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091003MLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: SM091003MLB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091118

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1MS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091122

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	2000	
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	910	
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	3&4-Methylphenol	360	U
621-64-7	n-Nitroso-di-n-propylamine	800	
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethyphenol	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	960	
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	2200	
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	960	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1MS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091122

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/11/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	2600	
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenylphenylether	360	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	2-Methyl-4,6-dinitrophenol	1900	U
86-30-6	Diphenylamine/n-Nitrosodiphe	360	U
101-55-3	4-Bromophenylphenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	2300	
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-c,d)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1MSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091123

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1700	
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	1700	
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	790	
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)ether	360	U
106-44-5	3&4-Methylphenol	360	U
621-64-7	n-Nitroso-di-n-propylamine	690	
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethyphenol	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	830	
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	2000	
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	840	

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1MSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix: (soil/water) SOIL Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091123

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: 9 decanted: (Y/N) N Date Extracted: 09/10/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/11/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	2300	
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	980	
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenylphenylether	360	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	2-Methyl-4,6-dinitrophenol	1900	U
86-30-6	Diphenylamine/n-Nitrosodiphe	360	U
101-55-3	4-Bromophenylphenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1900	
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	Bis(2-ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-c,d)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	SM091003MLB	42	48	45	45	45	52			0
02	73924-1	43	51	53	56	51	56			0
03	73924-1MS	51	54	61	61	59	67			0
04	73924-1MSD	43	49	54	54	51	56			0
05										
06										
07										
08										
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		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(16-113)
S2 (PHL)	= Phenol-d5	(19-114)
S3 (NBZ)	= Nitrobenzene-d5	(20-120)
S4 (FBP)	= 2-Fluorobiphenyl	(30-120)
S5 (TBP)	= 2,4,6-Tribromophenol	(23-129)
S6 (TPH)	= Terphenyl-d14	(30-131)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 73924-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	MS CONC (ug/Kg)	MS % REC#	QC. LIMITS REC.
Phenol	3700	0.00	1900	51	13-115
2-Chlorophenol	3700	0.00	2000	54	15-111
1,4-Dichlorobenzene	1800	0.00	910	50	10-105
n-Nitroso-di-n-prop.(1)	1800	0.00	800	44	11-122
1,2,4-Trichlorobenzene	1800	0.00	960	53	10-112
4-Chloro-3-methylphenol	3700	0.00	2200	59	22-114
Acenaphthene	1800	0.00	960	53	18-123
4-Nitrophenol	3700	0.00	2600	70	15-118
2,4-Dinitrotoluene	1800	0.00	1200	67	11-120
Pentachlorophenol	3700	0.00	2300	62	10-140
Pyrene	1800	0.00	1200	67	10-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONC (ug/Kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Phenol	3700	1700	46	48	11	39	13-115
2-Chlorophenol	3700	1700	46	50	16	38	15-111
1,4-Dichlorobenzene	1800	790	44	47	14	31	10-105
n-Nitroso-di-n-prop.(1)	1800	690	38	41	15	37	11-122
1,2,4-Trichlorobenzene	1800	830	46	50	14	22	10-112
4-Chloro-3-methylphenol	3700	2000	54	56	9.5	32	22-114
Acenaphthene	1800	840	47	50	13	49	18-123
4-Nitrophenol	3700	2300	62	66	12	57	15-118
2,4-Dinitrotoluene	1800	980	54	60	20	37	11-120
Pentachlorophenol	3700	1900	51	56	19	55	10-140
Pyrene	1800	1100	61	64	8.7	42	10-133

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM III SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SM091003MLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: A3091118 Lab Sample ID: SM091003MLB

Instrument ID: TSMA5973 Date Extracted: 09/10/03

Matrix: (soil/water) SOIL Date Analyzed: 09/11/03

Level:(low/med) LOW Time Analyzed: 2131

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73924-1	086-BFC-S-0904	A3091121	09/11/03
02	73924-1MS	086-BFC-S-0904	A3091122	09/11/03
03	73924-1MSD	086-BFC-S-0904	A3091123	09/11/03
04				
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: A3091002 DFTPP Injection Date: 09/10/03

Instrument ID: TSMA5973 DFTPP Injection Time: 1033

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	39.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	32.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	53.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 0.75% of mass 198	1.80
441	Present, but less than mass 443	9.2
442	40.0 - 110.0% of mass 198	64.5
443	15.0 - 24.0% of mass 442	12.6 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		BNA4.00	A3091005	09/10/03	1158
02		BNA10.0	A3091006	09/10/03	1223
03		BNA20.0	A3091007	09/10/03	1249
04		BNA50.0	A3091008	09/10/03	1316
05		BNA80.0	A3091009	09/10/03	1342
06		BNA100	A3091010	09/10/03	1409
07		BNA120	A3091011	09/10/03	1435
08		BNA160	A3091012	09/10/03	1501
09					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: A3091109 DFTPP Injection Date: 09/11/03

Instrument ID: TSMA5973 DFTPP Injection Time: 1744

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.6 (1.9)1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.4 (1.1)1
127	25.0 - 75.0% of mass 198	57.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 0.75% of mass 198	1.74
441	Present, but less than mass 443	9.4
442	40.0 - 110.0% of mass 198	60.5
443	15.0 - 24.0% of mass 442	11.8 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA050	BNA050	A3091110	09/11/03	1759
02	SM091003MLB	SM091003MLB	A3091118	09/11/03	2131
03	73924-1	086-BFC-S-0904	A3091121	09/11/03	2251
04	73924-1MS	086-BFC-S-0904	A3091122	09/11/03	2317
05	73924-1MSD	086-BFC-S-0904	A3091123	09/11/03	2344
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date(s): 09/10/03 09/10/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1158 1501

LAB FILE ID: RF4: A3091005 RF10: A3091006 RF20: A3091007
RF50: A3091008 RF80: A3091009

COMPOUND	RF4	RF10	RF20	RF50	RF80
Phenol	1.257	1.383	1.390	1.229	1.068
Bis(2-chloroethyl)ether	1.110	1.155	1.109	0.982	0.896
2-Chlorophenol	1.449	1.486	1.532	1.388	1.291
1,3-Dichlorobenzene	1.715	1.707	1.717	1.562	1.474
1,4-Dichlorobenzene	1.697	1.704	1.651	1.499	1.413
1,2-Dichlorobenzene	1.618	1.644	1.578	1.306	1.169
2-Methylphenol	0.918	0.965	0.977	0.924	0.888
bis(2-Chloroisopropyl)ether	2.055	2.133	2.143	1.964	1.808
3&4-Methylphenol	1.065	1.278	1.286	1.178	1.026
n-Nitroso-di-n-propylamine	0.645	0.701	0.727	0.693	0.630
Hexachloroethane	0.647	0.672	0.641	0.535	0.475
Nitrobenzene	0.256	0.263	0.267	0.254	0.237
Isophorone	0.500	0.537	0.516	0.491	0.453
2-Nitrophenol	0.207	0.222	0.220	0.223	0.208
2,4-Dimethyphenol	0.264	0.293	0.304	0.291	0.268
Bis(2-chloroethoxy)methane	0.294	0.340	0.335	0.308	0.289
2,4-Dichlorophenol	0.196	0.262	0.277	0.265	0.245
1,2,4-Trichlorobenzene	0.323	0.340	0.323	0.293	0.268
Naphthalene	1.080	1.069	1.022	0.890	0.791
4-Chloroaniline	0.324	0.407	0.423	0.370	0.337
Hexachlorobutadiene	0.156	0.159	0.151	0.136	0.126
4-Chloro-3-methylphenol	0.217	0.266	0.271	0.274	0.246
2-Methylnaphthalene	0.597	0.611	0.574	0.524	0.468
Hexachlorocyclopentadiene	0.090	0.138	0.172	0.224	0.227
2,4,6-Trichlorophenol	0.350	0.389	0.414	0.394	0.379
2,4,5-Trichlorophenol	0.448	0.411	0.434	0.406	0.368
2-Chloronaphthalene	1.344	1.405	1.334	1.206	1.129
2-Nitroaniline	0.255	0.322	0.335	0.341	0.321
Dimethylphthalate	1.473	1.513	1.475	1.386	1.311
Acenaphthylene	2.206	2.231	2.160	1.798	1.667
2,6-Dinitrotoluene	0.301	0.317	0.321	0.286	0.272
3-Nitroaniline	0.371	0.369	0.403	0.375	0.389
Acenaphthene	1.269	1.304	1.279	1.135	1.076
2,4-Dinitrophenol		0.051	0.084	0.149	0.155
4-Nitrophenol	0.118	0.145	0.155	0.181	0.184
Dibenzofuran	1.810	1.867	1.782	1.593	1.494
2,4-Dinitrotoluene	0.386	0.458	0.450	0.444	0.434
Diethylphthalate	1.661	1.684	1.629	1.437	1.363

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date(s): 09/10/03 09/10/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1158 1501

LAB FILE ID: RF4: A3091005 RF10: A3091006 RF20: A3091007
RF50: A3091008 RF80: A3091009

COMPOUND	RF4	RF10	RF20	RF50	RF80
Fluorene	1.516	1.512	1.378	1.124	1.033
4-Chlorophenylphenylether	0.633	0.653	0.597	0.499	0.458
4-Nitroaniline	0.423	0.477	0.471	0.427	0.438
2-Methyl-4,6-dinitrophenol	0.075	0.092	0.112	0.121	0.120
Diphenylamine/n-Nitrosodiphe	0.612	0.635	0.600	0.513	0.471
4-Bromophenylphenylether	0.186	0.185	0.184	0.165	0.154
Hexachlorobenzene	0.186	0.191	0.183	0.166	0.155
Pentachlorophenol	0.048	0.062	0.075	0.093	0.097
Phenanthrene	1.248	1.222	1.180	0.989	0.893
Anthracene	1.318	1.310	1.212	0.951	0.866
Carbazole	1.142	1.216	1.188	1.031	0.936
Di-n-butylphthalate	1.654	1.674	1.587	1.329	1.170
Fluoranthene	1.253	1.256	1.206	1.019	0.942
Pyrene	1.527	1.530	1.587	1.346	1.230
Butylbenzylphthalate	0.879	0.880	0.936	0.812	0.749
3,3'-Dichlorobenzidine	0.332	0.379	0.384	0.352	0.330
Benzo(a)anthracene	1.212	1.224	1.225	1.066	0.982
Chrysene	1.168	1.158	1.184	1.046	0.968
Bis(2-ethylhexyl)phthalate	1.265	1.288	1.297	1.137	1.032
Di-n-octylphthalate	2.052	2.084	2.203	1.918	1.758
Benzo(b)fluoranthene	1.252	1.327	1.316	1.287	1.174
Benzo(k)fluoranthene	1.378	1.398	1.442	1.158	1.158
Benzo(a)pyrene	1.209	1.180	1.215	1.125	1.067
Indeno(1,2,3-c,d)pyrene	1.025	1.071	1.060	1.029	0.995
Dibenzo(a,h)anthracene	0.835	0.891	0.927	0.862	0.832
Benzo(g,h,i)perylene	0.854	0.890	0.901	0.865	0.847
2-Fluorophenol	1.156	1.282	1.301	1.275	1.259
Phenol-d5	1.265	1.381	1.424	1.343	1.258
Nitrobenzene-d5	0.276	0.296	0.298	0.287	0.273
2-Fluorobiphenyl	1.360	1.401	1.341	1.156	1.093
2,4,6-Tribromophenol	0.006	0.147	0.143	0.142	0.140
Terphenyl-d14	0.889	0.904	0.902	0.825	0.771

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date(s): 09/10/03 09/10/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1158 1501

LAB FILE ID: RF100: A3091010 RF120: A3091011 RF160: A3091012

COMPOUND	RF100	RF120	RF160
Phenol	1.026	0.993	0.892
Bis(2-chloroethyl)ether	0.826	0.794	0.762
2-Chlorophenol	1.207	1.147	1.101
1,3-Dichlorobenzene	1.386	1.344	1.279
1,4-Dichlorobenzene	1.331	1.290	1.226
1,2-Dichlorobenzene	1.035	0.988	0.904
2-Methylphenol	0.863	0.823	0.787
bis(2-Chloroisopropyl)ether	1.673	1.599	1.510
3&4-Methylphenol	0.940	0.878	0.823
n-Nitroso-di-n-propylamine	0.566	0.538	0.481
Hexachloroethane	0.409	0.386	0.347
Nitrobenzene	0.225	0.217	0.200
Isophorone	0.439	0.428	0.412
2-Nitrophenol	0.196	0.191	0.179
2,4-Dimethyphenol	0.258	0.242	0.224
Bis(2-chloroethoxy)methane	0.267	0.258	0.243
2,4-Dichlorophenol	0.235	0.223	0.210
1,2,4-Trichlorobenzene	0.252	0.240	0.227
Naphthalene	0.727	0.708	0.651
4-Chloroaniline	0.293	0.275	0.250
Hexachlorobutadiene	0.117	0.115	0.107
4-Chloro-3-methylphenol	0.238	0.225	0.210
2-Methylnaphthalene	0.426	0.410	0.378
Hexachlorocyclopentadiene	0.231	0.220	0.217
2,4,6-Trichlorophenol	0.363	0.349	0.325
2,4,5-Trichlorophenol	0.373	0.350	0.311
2-Chloronaphthalene	1.040	1.009	0.931
2-Nitroaniline	0.314	0.304	0.280
Dimethylphthalate	1.259	1.206	1.126
Acenaphthylene	1.534	1.466	1.336
2,6-Dinitrotoluene	0.261	0.249	0.227
3-Nitroaniline	0.368	0.361	0.342
Acenaphthene	0.986	0.944	0.860
2,4-Dinitrophenol	0.167	0.163	0.154
4-Nitrophenol	0.180	0.177	0.159
Dibenzofuran	1.385	1.320	1.242
2,4-Dinitrotoluene	0.421	0.412	0.383
Diethylphthalate	1.262	1.190	1.101

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date(s): 09/10/03 09/10/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1158 1501

LAB FILE ID: RF100: A3091010 RF120: A3091011 RF160: A3091012

COMPOUND	RF100	RF120	RF160
Fluorene	0.947	0.886	0.805
4-Chlorophenylphenylether	0.424	0.399	0.368
4-Nitroaniline	0.433	0.416	0.376
2-Methyl-4,6-dinitrophenol	0.111	0.108	0.099
Diphenylamine/n-Nitrosodiphe	0.426	0.407	0.395
4-Bromophenylphenylether	0.147	0.143	0.139
Hexachlorobenzene	0.146	0.143	0.137
Pentachlorophenol	0.099	0.093	0.088
Phenanthrene	0.837	0.812	0.768
Anthracene	0.764	0.744	0.696
Carbazole	0.845	0.816	0.754
Di-n-butylphthalate	1.064	1.024	0.953
Fluoranthene	0.883	0.844	0.776
Pyrene	1.150	1.122	1.117
Butylbenzylphthalate	0.710	0.672	0.671
3,3'-Dichlorobenzidine	0.312	0.304	0.295
Benzo(a)anthracene	0.936	0.920	0.877
Chrysene	0.906	0.899	0.876
Bis(2-ethylhexyl)phthalate	0.974	0.933	0.914
Di-n-octylphthalate	1.633	1.574	1.519
Benzo(b)fluoranthene	1.107	1.107	1.107
Benzo(k)fluoranthene	1.122	1.090	0.958
Benzo(a)pyrene	1.019	1.007	0.954
Indeno(1,2,3-c,d)pyrene	0.948	0.939	0.894
Dibenzo(a,h)anthracene	0.785	0.791	0.732
Benzo(g,h,i)perylene	0.807	0.784	0.744
2-Fluorophenol	1.226	1.185	1.156
Phenol-d5	1.185	1.144	1.082
Nitrobenzene-d5	0.263	0.253	0.240
2-Fluorobiphenyl	1.004	0.976	0.906
2,4,6-Tribromophenol	0.138	0.135	0.124
Terphenyl-d14	0.749	0.707	0.715

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date(s): 09/10/03 09/10/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1158 1501

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Phenol	2ORDR	0.00000000	0.61669	0.1389	0.999
Bis(2-chloroethyl)ether	2ORDR	0.00000000	0.86964	0.1506	0.999
2-Chlorophenol	AVRG		1.32501		12.3
1,3-Dichlorobenzene	AVRG		1.52309		11.7
1,4-Dichlorobenzene	AVRG		1.47644		12.9
1,2-Dichlorobenzene	2ORDR	0.00000000	0.49537	0.1705	0.999
2-Methylphenol	AVRG		0.89330		7.4
bis(2-Chloroisopropyl)ether	AVRG		1.86071		13.3
3&4-Methylphenol	2ORDR	0.00000000	0.62110	0.1839	0.999
n-Nitroso-di-n-propylamine	2ORDR	0.00000000	0.92172	0.5889	0.998
Hexachloroethane	2ORDR	0.00000000	0.95325	1.3864	0.998
Nitrobenzene	AVRG		0.23987		10.1
Isophorone	AVRG		0.47207		9.6
2-Nitrophenol	AVRG		0.20584		7.7
2,4-Dimethyphenol	AVRG		0.26820		10.2
Bis(2-chloroethoxy)methane	AVRG		0.29180		12.0
2,4-Dichlorophenol	AVRG		0.23914		11.9
1,2,4-Trichlorobenzene	2ORDR	0.00000000	2.81115	1.7866	1.000
Naphthalene	2ORDR	0.00000000	0.86176	0.2615	1.000
4-Chloroaniline	2ORDR	0.00000000	1.56558	2.4372	0.997
Hexachlorobutadiene	AVRG		0.13331		14.9
4-Chloro-3-methylphenol	AVRG		0.24344		10.3
2-Methylnaphthalene	2ORDR	0.00000000	1.43420	0.8054	0.999
Hexachlorocyclopentadiene	LINR	0.00000000	4.51662		0.997
2,4,6-Trichlorophenol	AVRG		0.37041		7.9
2,4,5-Trichlorophenol	AVRG		0.38772		11.7
2-Chloronaphthalene	AVRG		1.17467		14.9
2-Nitroaniline	AVRG		0.30904		9.3
Dimethylphthalate	AVRG		1.34373		10.5
Acenaphthylene	2ORDR	0.00000000	0.39336	6.616e-002	1.000
2,6-Dinitrotoluene	AVRG		0.27917		11.9
3-Nitroaniline	AVRG		0.37245		4.9
Acenaphthene	2ORDR	0.00000000	0.64025	0.1497	0.999
2,4-Dinitrophenol	2ORDR	0.00000000	6.28262	9.161e-002	0.994
4-Nitrophenol	AVRG		0.16225		14.1
Dibenzofuran	2ORDR	0.00000000	0.50310	6.155e-002	1.000
2,4-Dinitrotoluene	AVRG		0.42369		6.7
Diethylphthalate	2ORDR	0.00000000	0.51677	8.845e-002	1.000

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date(s): 09/10/03 09/10/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1158 1501

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Fluorene	2ORDR	0.00000000	0.56430	0.2098	1.000
4-Chlorophenylphenylether	2ORDR	0.00000000	1.42140	0.8828	1.000
4-Nitroaniline	AVRG		0.43281		7.4
2-Methyl-4,6-dinitrophenol	2ORDR	0.00000000	6.76426	8.1533	0.999
Diphenylamine/n-Nitrosodiphe	2ORDR	0.00000000	1.64332	0.5876	0.998
4-Bromophenylphenylether	AVRG		0.16294		12.2
Hexachlorobenzene	AVRG		0.16356		13.0
Pentachlorophenol	2ORDR	0.00000000	9.46025	4.8212	0.997
Phenanthrene	2ORDR	0.00000000	0.84649	0.1528	0.999
Anthracene	2ORDR	0.00000000	0.77286	0.2458	0.998
Carbazole	2ORDR	0.00000000	0.72618	0.2008	0.999
Di-n-butylphthalate	2ORDR	0.00000000	0.56095	0.1310	0.999
Fluoranthene	2ORDR	0.00000000	0.74137	0.1757	1.000
Pyrene	2ORDR	0.00000000	0.71108	4.473e-002	0.998
Butylbenzylphthalate	2ORDR	0.00000000	1.14905	0.1363	0.998
3,3'-Dichlorobenzidine	AVRG		0.33601		9.9
Benzo(a)anthracene	AVRG		1.05524		13.9
Chrysene	2ORDR	0.00000000	0.90460	7.116e-002	0.999
Bis(2-ethylhexyl)phthalate	2ORDR	0.00000000	0.80182	8.435e-002	0.998
Di-n-octylphthalate	2ORDR	0.00000000	0.45762	3.437e-002	0.999
Benzo(b)fluoranthene	AVRG		1.20968		8.0
Benzo(k)fluoranthene	AVRG		1.21290		14.2
Benzo(a)pyrene	AVRG		1.09701		9.1
Indeno(1,2,3-c,d)pyrene	AVRG		0.99517		6.3
Dibenzo(a,h)anthracene	AVRG		0.83175		7.5
Benzo(g,h,i)perylene	AVRG		0.83644		6.5
2-Fluorophenol	AVRG		1.23000		4.7
Phenol-d5	AVRG		1.26028		9.4
Nitrobenzene-d5	AVRG		0.27329		7.6
2-Fluorobiphenyl	2ORDR	0.00000000	0.68394	0.1165	1.000
2,4,6-Tribromophenol	LINR	0.00000000	7.56597		0.992
Terphenyl-d14	AVRG		0.80781		10.3

FORM VI SV

FORM 7
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date: 09/11/03 Time: 1759

Lab File ID: A3091110 Init. Calib. Date(s): 09/10/03 09/10/03

Init. Calib. Times: 1158 1501

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL50 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Phenol	50	49	1.191		2.0	20.0	2ORDR
Bis(2-chloroethyl)ether	50	50	0.962		0.0	40.0	2ORDR
2-Chlorophenol	1.325		1.379		4.1	40.0	AVRG
1,3-Dichlorobenzene	1.523		1.572		3.2	40.0	AVRG
1,4-Dichlorobenzene	1.476		1.461		1.0	20.0	AVRG
1,2-Dichlorobenzene	50	46	1.224		8.0	40.0	2ORDR
2-Methylphenol	0.893		0.929		4.0	40.0	AVRG
bis(2-Chloroisopropyl)ether	1.861		1.887		1.4	40.0	AVRG
3&4-Methylphenol	50	48	1.092		4.0	40.0	2ORDR
n-Nitroso-di-n-propylamine	50	47	0.665	0.05	6.0	40.0	2ORDR
Hexachloroethane	50	45	0.498		10.0	40.0	2ORDR
Nitrobenzene	0.240		0.263		9.6	40.0	AVRG
Isophorone	0.472		0.502		6.4	40.0	AVRG
2-Nitrophenol	0.206		0.229		11.2	20.0	AVRG
2,4-Dimethyphenol	0.268		0.288		7.5	40.0	AVRG
Bis(2-chloroethoxy)methane	0.292		0.322		10.3	40.0	AVRG
2,4-Dichlorophenol	0.239		0.268		12.1	20.0	AVRG
1,2,4-Trichlorobenzene	50	52	0.301		4.0	40.0	2ORDR
Naphthalene	50	50	0.866		0.0	40.0	2ORDR
4-Chloroaniline	50	48	0.358		4.0	40.0	2ORDR
Hexachlorobutadiene	0.133		0.138		3.8	20.0	AVRG
4-Chloro-3-methylphenol	0.243		0.272		11.9	20.0	AVRG
2-Methylnaphthalene	50	50	0.513		0.0	40.0	2ORDR
Hexachlorocyclopentadiene	50	59	0.261	0.05	18.0		LINR
2,4,6-Trichlorophenol	0.370		0.416		12.4	20.0	AVRG
2,4,5-Trichlorophenol	0.388		0.420		8.2	40.0	AVRG
2-Chloronaphthalene	1.175		1.233		4.9	40.0	AVRG
2-Nitroaniline	0.309		0.358		15.8	40.0	AVRG
Dimethylphthalate	1.344		1.428		6.2	40.0	AVRG
Acenaphthylene	50	51	1.857		2.0	40.0	2ORDR
2,6-Dinitrotoluene	0.279		0.305		9.3	40.0	AVRG
3-Nitroaniline	0.372		0.387		4.0	40.0	AVRG
Acenaphthene	50	49	1.152		2.0	20.0	2ORDR
2,4-Dinitrophenol	50	49	0.156	0.05	2.0		2ORDR
4-Nitrophenol	0.162		0.218	0.05	34.6	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 7
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date: 09/11/03 Time: 1759

Lab File ID: A3091110 Init. Calib. Date(s): 09/10/03 09/10/03

Init. Calib. Times: 1158 1501

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL50 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Dibenzofuran	50	52	1.639		4.0	40.0	2ORDR
2,4-Dinitrotoluene	0.424		0.480		13.2	40.0	AVRG
Diethylphthalate	50	50	1.483		0.0	40.0	2ORDR
Fluorene	50	48	1.111		4.0	40.0	2ORDR
4-Chlorophenylphenylether	50	48	0.490		4.0	40.0	2ORDR
4-Nitroaniline	0.433		0.502		15.9	40.0	AVRG
2-Methyl-4,6-dinitrophenol	50	50	0.125		0.0	40.0	2ORDR
Diphenylamine/n-Nitrosodiphe	50	52	0.518		4.0	20.0	2ORDR
4-Bromophenylphenylether	0.163		0.167		2.4	40.0	AVRG
Hexachlorobenzene	0.163		0.164		0.6	40.0	AVRG
Pentachlorophenol	50	56	0.111		12.0	20.0	2ORDR
Phenanthrene	50	50	0.971		0.0	40.0	2ORDR
Anthracene	50	49	0.928		2.0	40.0	2ORDR
Carbazole	50	47	0.978		6.0	40.0	2ORDR
Di-n-butylphthalate	50	50	1.286		0.0	40.0	2ORDR
Fluoranthene	50	50	1.029		0.0	20.0	2ORDR
Pyrene	50	47	1.198		6.0	40.0	2ORDR
Butylbenzylphthalate	50	50	0.774		0.0	40.0	2ORDR
3,3'-Dichlorobenzidine	0.336		0.350		4.2	40.0	AVRG
Benzo(a)anthracene	1.055		1.036		1.8	40.0	AVRG
Chrysene	50	51	1.025		2.0	40.0	2ORDR
Bis(2-ethylhexyl)phthalate	50	49	1.068		2.0	40.0	2ORDR
Di-n-octylphthalate	50	49	1.832		2.0	20.0	2ORDR
Benzo(b)fluoranthene	1.210		1.180		2.5	40.0	AVRG
Benzo(k)fluoranthene	1.213		1.189		2.0	40.0	AVRG
Benzo(a)pyrene	1.097		1.091		0.5	20.0	AVRG
Indeno(1,2,3-c,d)pyrene	0.995		1.131		13.7	40.0	AVRG
Dibenzo(a,h)anthracene	0.832		0.930		11.8	40.0	AVRG
Benzo(g,h,i)perylene	0.836		0.982		17.5	40.0	AVRG
2-Fluorophenol	1.230		1.340		8.9	40.0	AVRG
Phenol-d5	1.260		1.367		8.5	40.0	AVRG
Nitrobenzene-d5	0.273		0.302		10.6	40.0	AVRG
2-Fluorobiphenyl	50	52	1.210		4.0	40.0	2ORDR
2,4,6-Tribromophenol	50	58	0.152		16.0	40.0	LINR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 7
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TSMA5973 Calibration Date: 09/11/03 Time: 1759

Lab File ID: A3091110 Init. Calib. Date(s): 09/10/03 09/10/03

Init. Calib. Times: 1158 1501

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL50 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Terphenyl-d14	0.808		0.794		1.7	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and
%D (%Difference) is reported for average curves.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): A3091110 Date Analyzed: 09/11/03

Instrument ID: TSMA5973 Time Analyzed: 1759

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	391074	5.15	1468007	6.32	665572	7.81
	UPPER LIMIT	782148	5.65	2936014	6.82	1331144	8.31
	LOWER LIMIT	195537	4.65	734004	5.82	332786	7.31
	CLIENT SAMPLE NO.						
01	SM091003MLB	339101	5.15	1263992	6.31	590856	7.81
02	73924-1	339624	5.15	1218737	6.31	525698	7.81
03	73924-1MS	336860	5.15	1215100	6.31	552516	7.80
04	73924-1MSD	335408	5.15	1196079	6.31	548982	7.81
05							
06							
07							
08							
09							
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12							
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14							
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16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): A3091110 Date Analyzed: 09/11/03

Instrument ID: TSMA5973 Time Analyzed: 1759

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1231175	9.02	988517	11.50	864727	13.09
	UPPER LIMIT	2462350	9.52	1977034	12.00	1729454	13.59
	LOWER LIMIT	615588	8.52	494259	11.00	432364	12.59
	CLIENT SAMPLE NO.						
01	SM091003MLB	978473	9.02	809572	11.48	644592	13.08
02	73924-1	879666	9.01	714720	11.48	553502	13.08
03	73924-1MS	894472	9.02	724050	11.48	570228	13.08
04	73924-1MSD	874317	9.02	694170	11.48	568884	13.08
05							
06							
07							
08							
09							
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16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

4 a

EXTRACTION LOG

Job No: 290 6

Batch No: SMD91003 M

Date Extracted: 09.10.03

Start Time: 3 pm

Stop Time: 4 pm

Analysis Required: 8270

Prep Method: 3550

Analyst/Activity Code* BE/A,B,S,D

Initial Project Check: BE

Final Project Check:

Date Concentrated: 9-11-03

Initials: DK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8270	7.3.4.1	1.0	BE
Surr.				
Spike	8270	7.3.4.13	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 MeCl2/ACETAN. A28.0028.09

Na2SO4 POWD: X44144

Na2SO4 GRAN: Y02631

MeCl2: Y16 E 79

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T373924*1/086-BFC-S-0904-03*	JETC01	SS	30.0			1.0	09.12	09.18	RP1
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			1.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
MS: T373924*1 086-BFC-S-0904-03		SS							
MSD: T373924*1 086-BFC-S-0904-03		SS							

Dets: TCL - Semivolatiles <8270>

\+ Additional Dets:

0274

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: SV

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
3160986	1A30910.b	A3091002.D	DFTPP	TUNE50	TUNE50	3160985		
3160986	1A30910.b	A3091005.D	CALIB_1		BNA4.00	2536478	3.5.50.2	
3160986	1A30910.b	A3091006.D	CALIB_2		BNA10.0	2536479	3.5.50.3	
3160986	1A30910.b	A3091007.D	CALIB_3		BNA20.0	2536480	3.5.50.4	
3160986	1A30910.b	A3091008.D	CALIB_4		BNA50.0	2536481	3.5.50.5	
3160986	1A30910.b	A3091009.D	CALIB_5		BNA80.0	2536482	3.5.51.1	
3160986	1A30910.b	A3091010.D	CALIB_6		BNA100	2536483	3.5.51.2	
3160986	1A30910.b	A3091011.D	CALIB_7		BNA120	2536484	3.5.51.3	
3160986	1A30910.b	A3091012.D	CALIB_8		BNA160	2536463	3.5.51.4	
14385362	1A30911.b	A3091109.D	DFTPP	TUNE50	TUNE50	14385355		
14385362	1A30911.b	A3091110.D	CCALIB_4	BNA050	BNA050	14385366	3.5.50.5	
14385362	1A30911.b	A3091118.D	BLANK	SM091003MLB	SM091003MLB	14385413	SM091003M	
14385362	1A30911.b	A3091122.D	MS	73924-1MS	086-BFC-S-0904-0	14385417	SM091003M	JETC01
14385362	1A30911.b	A3091123.D	MSD	73924-1MSD	086-BFC-S-0904-0	14385418	SM091003M	JETC01
14385362	1A30911.b	A3091121.D	SAMPLE	73924-1	086-BFC-S-0904-0	14385416	SM091003M	JETC01

Sequence Name: C:\HPCHEM\1\SEQUENCE\A30910.S
Comment: STL Instrument TSMA5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	A3091000	BNA9	RINSE
2	Sample	96	A3091001	TUN1	TUNE050~3.5.35.9~1~8270/625
3	Sample	96	A3091002	TUN1	TUNE050~3.5.35.9~1~8270/625
4	Sample	97	A3091003	BNA9	BNA050~3.5.50.5~1~8270/625
5	Sample	98	A3091004	BNA9	BNA010~3.5.50.3~1~8270/625
6	Sample	26	A3091005	BNA9	BNA400~3.5.50.2~1~8270/625
7	Sample	27	A3091006	BNA9	BNA100~3.5.50.1~1~8270/625
8	Sample	28	A3091007	BNA9	BNA20.0~3.5.50.4~1~8270/625
9	Sample	29	A3091008	BNA9	BNA50.0~3.5.50.5~1~8270/625
10	Sample	30	A3091009	BNA9	BNA80.0~3.5.51.1~1~8270/625
11	Sample	31	A3091010	BNA9	BNA100~3.5.51.2~1~8270/625
12	Sample	32	A3091011	BNA9	BNA120~3.5.51.3~1~8270/625
13	Sample	33	A3091012	BNA9	BNA160~3.5.51.4~1~8270/625
14	Sample	7	A3091013	BNA9	ICV050~7.3.5.9~1~8270/625
15	Sample	1	A3091014	BNA9	SM090803ALB~SM090803A~1~625
16	Sample	2	A3091015	BNA9	SM090803ALBLCS~SM090803A~1~62
17	Sample	3	A3091016	BNA9	SM090803ALBLCSD~SM090803A~1~6
18	Sample	4	A3091017	BNA9	73899-1~SM090803A~1~625
19	Sample	5	A3091018	BNA9	SM090803ALBMS~SM090803A~1~625
20	Sample	6	A3091019	BNA9	SM090803ALBMSD~SM090803A~1~62
21					

MPF 9/11/03

Sequence Name: C:\HPCHEM\1\SEQUENCE\A30911.S
Comment: STL Instrument TSMA5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	A3091100	TUN1	TUNE050~3.5.35.9~1~8270/625
2	Sample	97	A3091101	BNA9	BNA050~3.5.50.5~1~8270/625
3	Sample	98	A3091102	BNA9	BNA010~3.5.50.3~1~8270/625
4	Sample	99	A3091103	BNA9	TEST
5	Sample	99	A3091104	BNA9	TEST
6	Sample	96	A3091105	TUN1	TUNE050~3.5.35.9~1~8270/625
7	Sample	100	A3091106	BNA9	RINSE
8	Sample	100	A3091107	BNA9	RINSE
9	Sample	96	A3091108	BNA9	RINSE
10	Sample	96	A3091109	TUN1	TUNE050~3.5.35.9~1~8270/625
11	Sample	97	A3091110	BNA9	BNA050~3.5.50.5~1~8270/625
12	Sample	98	A3091111	BNA9	BNA010~3.5.50.3~1~8270/625
13	Sample	1	A3091112	BNA9	SM091003CLB~SM091003C~1~8270/
14	Sample	2	A3091113	BNA9	SM091003CLBLCS~SM091003C~1~82
15	Sample	3	A3091114	BNA9	SM091003CLBLCSD~SM091003C~1~8
16	Sample	4	A3091115	BNA9	73945-1~SM091003C~1~8270/625
17	Sample	5	A3091116	BNA9	SM091003CLBMS~SM091003C~1~827
18	Sample	6	A3091117	BNA9	SM091003CLBMSD~SM091003C~1~82
19	Sample	7	A3091118	BNA9	SM091003MLB~SM091003M~1~8270/
20	Sample	8	A3091119	BNA9	SM091003MLBLCS~SM091003M~1~82
21	Sample	9	A3091120	BNA9	SM091003MLBLCSD~SM091003M~1~8
22	Sample	10	A3091121	BNA9	73924-1~SM091003M~1~8270/625
23	Sample	11	A3091122	BNA9	73924-1~SM091003M~1~8270/625
24	Sample	12	A3091123	BNA9	73924-1~SM091003M~1~8270/625

56F 9/12/03

VOLATILE ORGANIC COMPOUNDS
Method 8260

CASE NARRATIVE

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC01

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 5030
Cleanup: N/A
Analysis: SW-846 8260

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The Matrix Spike recovery for Chlorobenzene was outside advisory limits due to matrix interference in the sample.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 2FI10011

Level: (low/med) LOW

Date Received: 09/06/03

% Moisture: not dec. 9

Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	14	U
75-01-4	VINYL CHLORIDE	14	U
74-83-9	BROMOMETHANE	14	U
75-00-3	CHLOROETHANE	14	U
75-35-4	1,1-DICHLOROETHENE	7.0	U
67-64-1	ACETONE	70	U
75-15-0	CARBON DISULFIDE	7.0	U
75-09-2	METHYLENE CHLORIDE	7.0	U
156-60-5	trans-1,2-DICHLOROETHENE	7.0	U
75-34-3	1,1-DICHLOROETHANE	7.0	U
156-59-2	cis-1,2-DICHLOROETHENE	7.0	U
540-59-0	1,2-DICHLOROETHENE (total)	7.0	U
67-66-3	CHLOROFORM	7.0	U
78-93-3	2-BUTANONE	35	U
71-55-6	1,1,1-TRICHLOROETHANE	7.0	U
56-23-5	CARBON TETRACHLORIDE	7.0	U
107-06-2	1,2-DICHLOROETHANE	7.0	U
71-43-2	BENZENE	7.0	U
79-01-6	TRICHLOROETHENE	7.0	U
78-87-5	1,2-DICHLOROPROPANE	7.0	U
75-27-4	BROMODICHLOROMETHANE	7.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	7.0	U
108-88-3	TOLUENE	3.2	J
10061-02-6	trans-1,3-DICHLOROPROPENE	7.0	U
79-00-5	1,1,2-TRICHLOROETHANE	7.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	35	U
591-78-6	2-HEXANONE	35	U
127-18-4	TETRACHLOROETHENE	7.0	U
124-48-1	DIBROMOCHLOROMETHANE	7.0	U
108-90-7	CHLOROBENZENE	7.0	U
100-41-4	ETHYLBENZENE	7.0	U
108-38-3	m,p-XYLENE	7.0	U
95-47-6	o-XYLENE	7.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 086-BFC-S-0904-03

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 2FI10011

Level: (low/med) LOW

Date Received: 09/06/03

% Moisture: not dec. 9

Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	7.0	U
100-42-5	STYRENE	7.0	U
75-25-2	BROMOFORM	7.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	7.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-2

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 086-TB-L-0904-03

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09019

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
67-64-1	ACETONE	25	U
75-15-0	CARBON DISULFIDE	1.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-2	cis-1,2-DICHLOROETHENE	1.0	U
540-59-0	1,2-DICHLOROETHENE (total)	1.0	U
67-66-3	CHLOROFORM	1.0	U
78-93-3	2-BUTANONE	10	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	1.0	U
108-88-3	TOLUENE	1.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	10	U
591-78-6	2-HEXANONE	10	U
127-18-4	TETRACHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
108-38-3	m,p-XYLENE	2.0	U
95-47-6	o-XYLENE	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73924-2

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 086-TB-L-0904-03

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09019

Level: (low/med) LOW Date Received: 09/06/03

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	2.0	U
100-42-5	STYRENE	1.0	U
75-25-2	BROMOFORM	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2G090903MB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 2G090903MB

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09008

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
67-64-1	ACETONE	25	U
75-15-0	CARBON DISULFIDE	1.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-2	cis-1,2-DICHLOROETHENE	1.0	U
540-59-0	1,2-DICHLOROETHENE (total)	1.0	U
67-66-3	CHLOROFORM	1.0	U
78-93-3	2-BUTANONE	10	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	1.0	U
108-88-3	TOLUENE	1.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	10	U
591-78-6	2-HEXANONE	10	U
127-18-4	TETRACHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
108-38-3	m,p-XYLENE	2.0	U
95-47-6	o-XYLENE	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2G090903MB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 2G090903MB

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09008

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	2.0	U
100-42-5	STYRENE	1.0	U
75-25-2	BROMOFORM	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2G090903MBLCS

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 2G090903MBLCS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09003

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	9.8	
75-01-4	VINYL CHLORIDE	9.8	
74-83-9	BROMOMETHANE	6.9	
75-00-3	CHLOROETHANE	11	
75-35-4	1,1-DICHLOROETHENE	9.0	
67-64-1	ACETONE	83	
75-15-0	CARBON DISULFIDE	8.0	
75-09-2	METHYLENE CHLORIDE	8.8	
156-60-5	trans-1,2-DICHLOROETHENE	12	
75-34-3	1,1-DICHLOROETHANE	12	
156-59-2	cis-1,2-DICHLOROETHENE	12	
540-59-0	1,2-DICHLOROETHENE (total)	23	
67-66-3	CHLOROFORM	12	
78-93-3	2-BUTANONE	81	
71-55-6	1,1,1-TRICHLOROETHANE	11	
56-23-5	CARBON TETRACHLORIDE	11	
107-06-2	1,2-DICHLOROETHANE	9.6	
71-43-2	BENZENE	11	
79-01-6	TRICHLOROETHENE	10	
78-87-5	1,2-DICHLOROPROPANE	11	
75-27-4	BROMODICHLOROMETHANE	10	
10061-01-5	cis-1,3-DICHLOROPROPENE	10	
108-88-3	TOLUENE	11	
10061-02-6	trans-1,3-DICHLOROPROPENE	10	
79-00-5	1,1,2-TRICHLOROETHANE	10	
108-10-1	4-METHYL-2-PENTANONE (MIBK)	75	
591-78-6	2-HEXANONE	74	
127-18-4	TETRACHLOROETHENE	8.4	
124-48-1	DIBROMOCHLOROMETHANE	9.5	
108-90-7	CHLOROBENZENE	10	
100-41-4	ETHYLBENZENE	10	
108-38-3	m,p-XYLENE	21	
95-47-6	o-XYLENE	10	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2G090903MBLCS

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 2G090903MBLCS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09003

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	31	
100-42-5	STYRENE	10	
75-25-2	BROMOFORM	9.7	
79-34-5	1,1,2,2-TETRACHLOROETHANE	8.9	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2G090903MBLCSD

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 2G090903MBLCSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09004

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	12	
75-01-4	VINYL CHLORIDE	10	
74-83-9	BROMOMETHANE	6.7	
75-00-3	CHLOROETHANE	10	
75-35-4	1,1-DICHLOROETHENE	9.1	
67-64-1	ACETONE	52	
75-15-0	CARBON DISULFIDE	7.9	
75-09-2	METHYLENE CHLORIDE	9.4	
156-60-5	trans-1,2-DICHLOROETHENE	11	
75-34-3	1,1-DICHLOROETHANE	11	
156-59-2	cis-1,2-DICHLOROETHENE	11	
540-59-0	1,2-DICHLOROETHENE (total)	22	
67-66-3	CHLOROFORM	11	
78-93-3	2-BUTANONE	84	
71-55-6	1,1,1-TRICHLOROETHANE	10	
56-23-5	CARBON TETRACHLORIDE	10	
107-06-2	1,2-DICHLOROETHANE	9.4	
71-43-2	BENZENE	10	
79-01-6	TRICHLOROETHENE	10	
78-87-5	1,2-DICHLOROPROPANE	10	
75-27-4	BROMODICHLOROMETHANE	10	
10061-01-5	cis-1,3-DICHLOROPROPENE	10	
108-88-3	TOLUENE	10	
10061-02-6	trans-1,3-DICHLOROPROPENE	9.9	
79-00-5	1,1,2-TRICHLOROETHANE	10	
108-10-1	4-METHYL-2-PENTANONE (MIBK)	86	
591-78-6	2-HEXANONE	87	
127-18-4	TETRACHLOROETHENE	8.1	
124-48-1	DIBROMOCHLOROMETHANE	9.6	
108-90-7	CHLOROBENZENE	10	
100-41-4	ETHYLBENZENE	9.9	
108-38-3	m,p-XYLENE	20	
95-47-6	o-XYLENE	9.9	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2G090903MBLCSD

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix: (soil/water) WATER Lab Sample ID: 2G090903MBLCSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 2GI09004

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/09/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	30	
100-42-5	STYRENE	9.5	
75-25-2	BROMOFORM	9.5	
79-34-5	1,1,2,2-TETRACHLOROETHANE	9.6	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0910MB

Lab Name: STL TALLAHASSEE Lab Code: TL

SDG No.: JETC01

Client: Project:

Matrix: (soil/water) SOIL Lab Sample ID: 2F0910MB

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 2FI10006

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1,1-DICHLOROETHENE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	5.0	U
75-34-3	1,1-DICHLOROETHANE	5.0	U
156-59-2	cis-1,2-DICHLOROETHENE	5.0	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
67-66-3	CHLOROFORM	5.0	U
78-93-3	2-BUTANONE	25	U
71-55-6	1,1,1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
107-06-2	1,2-DICHLOROETHANE	5.0	U
71-43-2	BENZENE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1,2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
108-88-3	TOLUENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
591-78-6	2-HEXANONE	25	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYLBENZENE	5.0	U
108-38-3	m,p-XYLENE	5.0	U
95-47-6	o-XYLENE	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0910MB

Lab Name: STL TALLAHASSEE Lab Code: TL

SDG No.: JETC01

Client: Project:

Matrix: (soil/water) SOIL Lab Sample ID: 2F0910MB

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 2FI10006

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0910MBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0910MBLCS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI10003

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	35	
75-01-4	VINYL CHLORIDE	38	
74-83-9	BROMOMETHANE	31	
75-00-3	CHLOROETHANE	41	
75-35-4	1,1-DICHLOROETHENE	60	
67-64-1	ACETONE	500	
75-15-0	CARBON DISULFIDE	47	
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	5.0	U
75-34-3	1,1-DICHLOROETHANE	5.0	U
156-59-2	cis-1,2-DICHLOROETHENE	5.0	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
67-66-3	CHLOROFORM	5.0	U
78-93-3	2-BUTANONE	490	E
71-55-6	1,1,1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
107-06-2	1,2-DICHLOROETHANE	5.0	U
71-43-2	BENZENE	60	
79-01-6	TRICHLOROETHENE	57	
78-87-5	1,2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
108-88-3	TOLUENE	62	
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	480	E
591-78-6	2-HEXANONE	480	E
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	66	
100-41-4	ETHYLBENZENE	5.0	U
108-38-3	m,p-XYLENE	5.0	U
95-47-6	o-XYLENE	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0910MBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0910MBLCS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI10003

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0910MBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0910MBLCSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI10004

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	36	
75-01-4	VINYL CHLORIDE	40	
74-83-9	BROMOMETHANE	34	
75-00-3	CHLOROETHANE	43	
75-35-4	1,1-DICHLOROETHENE	61	
67-64-1	ACETONE	540	
75-15-0	CARBON DISULFIDE	47	
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	5.0	U
75-34-3	1,1-DICHLOROETHANE	5.0	U
156-59-2	cis-1,2-DICHLOROETHENE	5.0	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
67-66-3	CHLOROFORM	5.0	U
78-93-3	2-BUTANONE	520	E
71-55-6	1,1,1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
107-06-2	1,2-DICHLOROETHANE	5.0	U
71-43-2	BENZENE	60	
79-01-6	TRICHLOROETHENE	59	
78-87-5	1,2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
108-88-3	TOLUENE	62	
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	500	E
591-78-6	2-HEXANONE	520	E
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	67	
100-41-4	ETHYLBENZENE	5.0	U
108-38-3	m,p-XYLENE	5.0	U
95-47-6	o-XYLENE	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0910MBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC01

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0910MBLCSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI10004

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/10/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U

FORM I VOA

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER (DCB) #	TOT OUT
01	2G090903MBLC	112	104	104	104	0
02	2G090903MBLC	112	104	104	104	0
03	2G090903MB	112	104	100	112	0
04	73924-2	116	104	100	112	0
05						
06						
07						
08						
09						
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11						
12						
13						
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27						
28						
29						
30						

		QC LIMITS
SMC1 (DFM)	= DIBROMFLUOROMETHANE	(70-130)
SMC2 (TOL)	= TOLUENE-d8	(77-122)
SMC3 (BFB)	= p-BROMOFLUOROBENZENE	(74-126)
OTHER(DCB)	= 1,2-DICHLOROBENZENE d4	(70-130)

Column to be used to flag recovery values

* Values outside of laboratory QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM)#	SMC2 (TOL)#	SMC3 (BFB)#	OTHER (DCB)#	TOT OUT
01	2F0910MBLCS	94	82	80	88	0
02	2F0910MBLCSD	102	84	84	90	0
03	2F0910MB	100	78	82	88	0
04	73924-1	98	71	67	81	0
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		QC LIMITS
SMC1 (DFM)	= DIBROMFLUOROMETHANE	(58-142)
SMC2 (TOL)	= TOLUENE-d8	(64-136)
SMC3 (BFB)	= p-BROMOFLUOROBENZENE	(63-135)
OTHER(DCB)	= 1,2-DICHLOROBENZENE d4	(70-130)

Column to be used to flag recovery values

* Values outside of laboratory QC limits

D System Monitoring Compound diluted out

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 2G090903MB

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONC (ug/L)	LCS CONC (ug/L)	LCS % REC#	QC. LIMITS REC.
BENZENE	10	0.00	11	110	62-135
CHLOROBENZENE	10	0.00	10	100	72-127
1,1-DICHLOROETHENE	10	0.00	9.0	90	46-147
TOLUENE	10	0.00	11	110	68-131
TRICHLOROETHENE	10	0.00	10	100	56-143

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONC (ug/L)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
BENZENE	10	10	100	105	9.5	37	62-135
CHLOROBENZENE	10	10	100	100	0	22	72-127
1,1-DICHLOROETHENE	10	9.1	91	90	1.1	30	46-147
TOLUENE	10	10	100	105	9.5	33	68-131
TRICHLOROETHENE	10	10	100	100	0	35	56-143

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Matrix Spike - Sample No.: 2F0910MB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
BENZENE	50	0.00	60	120	49-142
CHLOROBENZENE	50	0.00	66	132	66-135
1,1-DICHLOROETHENE	50	0.00	60	120	40-164
TOLUENE	50	0.00	62	124	38-158
TRICHLOROETHENE	50	0.00	57	114	51-146

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
BENZENE	50	60	120	120	0	42	49-142
CHLOROBENZENE	50	67	134	133	1.5	34	66-135
1,1-DICHLOROETHENE	50	61	122	121	1.6	46	40-164
TOLUENE	50	62	124	124	0	32	38-158
TRICHLOROETHENE	50	59	118	116	3.4	34	51-146

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

2G090903MB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Lab File ID: 2GI09008 Lab Sample ID: 2G090903MB

Date Analyzed: 09/09/03 Time Analyzed: 1441

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: TVMG5973

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	2G090903MBLC	2G090903MBLCS	2GI09003	1332
02	2G090903MBLC	2G090903MBLCSD	2GI09004	1345
03	73924-2	086-TB-L-0904-	2GI09019	1715
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COMMENTS:

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

2F0910MB

Lab Name: STL TALLAHASSEE Lab Code: TL

SDG No.: JETC01

Client: Project:

Lab File ID: 2FI10006 Lab Sample ID: 2F0910MB

Date Analyzed: 09/10/03 Time Analyzed: 1331

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) Y

Instrument ID: TVMF5973

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	2F0910MBLCS	2F0910MBLCS	2FI10003	1151
02	2F0910MBLCSD	2F0910MBLCSD	2FI10004	1224
03	73924-1	086-BFC-S-0904	2FI10011	1824
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Lab File ID: 1GH08001 BFB Injection Date: 08/08/03

Instrument ID: TVMG5973 BFB Injection Time: 0746

GC Column: DB-624 60 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.5
75	30.0 - 66.0% of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	91.0
175	4.0 - 9.0% of mass 174	6.6 (7.3)1
176	93.0 - 101.0% of mass 174	85.3 (93.7)1
177	5.0 - 9.0% of mass 176	5.9 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001GR	VSTD001GR	1GH08002	08/08/03	0800
02	VSTD001DS	VSTD001DS	1GH08003	08/08/03	0814
03	VSTD005GR	VSTD005GR	1GH08004	08/08/03	0828
04	VSTD005DS	VSTD005DS	1GH08005	08/08/03	0841
05	VSTD010GR	VSTD010GR	1GH08006	08/08/03	0856
06	VSTD010DS	VSTD010DS	1GH08007	08/08/03	0909
07	VSTD020GR	VSTD020GR	1GH08008	08/08/03	0924
08	VSTD020DS	VSTD020DS	1GH08009	08/08/03	0937
09	VSTD030GR	VSTD030GR	1GH08010	08/08/03	0952
10	VSTD030DS	VSTD030DS	1GH08011	08/08/03	1005
11	VSTD040GR	VSTD040GR	1GH08012	08/08/03	1020
12	VSTD040DS	VSTD040DS	1GH08013	08/08/03	1033
13	VSTD060GR	VSTD060GR	1GH08014	08/08/03	1048
14	VSTD060DS	VSTD060DS	1GH08015	08/08/03	1101
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Lab File ID: 2GI09001 BFB Injection Date: 09/09/03

Instrument ID: TVMG5973 BFB Injection Time: 1244

GC Column: DB-624 60 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 120.0% of mass 95	90.1
175	4.0 - 9.0% of mass 174	6.5 (7.2)1
176	93.0 - 101.0% of mass 174	86.8 (96.3)1
177	5.0 - 9.0% of mass 176	5.6 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	VSTD020	2GI09002	09/09/03	1257
02	2G090903MBLC	2G090903MBLCS	2GI09003	09/09/03	1332
03	2G090903MBLC	2G090903MBLCSD	2GI09004	09/09/03	1345
04	2G090903MB	2G090903MB	2GI09008	09/09/03	1441
05	73924-2	086-TB-L-0904-	2GI09019	09/09/03	1715
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FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: 2FH11001 BFB Injection Date: 08/11/03

Instrument ID: TVMF5973 BFB Injection Time: 1144

GC Column: DB-624 30 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.3
75	30.0 - 66.0% of mass 95	53.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	107.5
175	4.0 - 9.0% of mass 174	9.0 (8.4)1
176	93.0 - 101.0% of mass 174	108.2 (100.6)1
177	5.0 - 9.0% of mass 176	7.9 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 001	VSTD 001	2FH11003	08/11/03	1427
02	VSTD 02.5	VSTD 02.5	2FH11004	08/11/03	1501
03	VSTD 005	VSTD 005	2FH11005	08/11/03	1534
04	VSTD 010	VSTD 010	2FH11006	08/11/03	1607
05	VSTD 025	VSTD 025	2FH11007	08/11/03	1641
06	VSTD 050	VSTD 050	2FH11008	08/11/03	1714
07	VSTD 075	VSTD 075	2FH11009	08/11/03	1747
08	VSTD 100	VSTD 100	2FH11010	08/11/03	1820
09	VSTD 200	VSTD 200	2FH11011	08/11/03	1854
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID: 2FI10001 BFB Injection Date: 09/10/03

Instrument ID: TVMF5973 BFB Injection Time: 1000

GC Column: DB-624 30 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	111.4
175	4.0 - 9.0% of mass 174	8.3 (7.5)1
176	93.0 - 101.0% of mass 174	103.7 (93.1)1
177	5.0 - 9.0% of mass 176	6.2 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 050	VSTD 050	2FI10002	09/10/03	1033
02	2F0910MBLCS	2F0910MBLCS	2FI10003	09/10/03	1151
03	2F0910MBLCSD	2F0910MBLCSD	2FI10004	09/10/03	1224
04	2F0910MB	2F0910MB	2FI10006	09/10/03	1331
05	73924-1	086-BFC-S-0904	2FI10011	09/10/03	1824
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date(s): 07/24/03 08/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1049 1101

LAB FILE ID: RF1: 1GH08003 RF5: 1GH08005 RF10: 1GH08007
RF20: 1GH08009 RF30: 1GH08011

COMPOUND	RF1	RF5	RF10	RF20	RF30
CHLOROMETHANE	1.300	1.275	1.179	1.439	1.385
VINYL CHLORIDE	1.150	1.216	1.175	1.434	1.338
BROMOMETHANE	1.019	0.976	0.826	1.052	0.995
CHLOROETHANE	0.779	0.796	0.798	0.896	0.849
1,1-DICHLOROETHENE	1.204	1.236	1.210	1.139	1.133
ACETONE	0.119	0.122	0.116	0.108	0.109
CARBON DISULFIDE	3.837	4.337	4.531	4.069	3.933
METHYLENE CHLORIDE	1.477	1.096	1.129	1.111	1.088
trans-1,2-DICHLOROETHENE	0.930	0.830	0.846	0.881	0.929
1,1-DICHLOROETHANE	1.385	1.508	1.422	1.514	1.592
cis-1,2-DICHLOROETHENE	0.868	0.922	0.869	0.904	0.955
1,2-DICHLOROETHENE (total)	0.900	0.876	0.858	0.893	0.942
CHLOROFORM	1.434	1.406	1.422	1.420	1.494
2-BUTANONE	0.032	0.036	0.039	0.039	0.041
1,1,1-TRICHLOROETHANE	0.432	0.422	0.429	0.457	0.478
CARBON TETRACHLORIDE	0.334	0.331	0.332	0.360	0.378
1,2-DICHLOROETHANE	0.412	0.414	0.410	0.428	0.431
BENZENE	1.290	1.276	1.269	1.342	1.337
TRICHLOROETHENE	0.323	0.317	0.321	0.329	0.345
1,2-DICHLOROPROPANE	0.315	0.311	0.309	0.324	0.338
BROMODICHLOROMETHANE	0.363	0.359	0.375	0.397	0.411
cis-1,3-DICHLOROPROPENE	0.411	0.428	0.422	0.461	0.476
TOLUENE	0.817	0.773	0.776	0.822	0.837
trans-1,3-DICHLOROPROPENE	0.310	0.380	0.366	0.409	0.428
1,1,2-TRICHLOROETHANE	0.194	0.231	0.233	0.248	0.253
4-METHYL-2-PENTANONE (MIBK)	0.127	0.147	0.142	0.159	0.173
2-HEXANONE	0.658	0.729	0.735	0.760	0.844
TETRACHLOROETHENE	1.145	1.101	1.062	1.359	1.426
DIBROMOCHLOROMETHANE	0.814	0.865	0.822	0.982	1.065
CHLOROBENZENE	3.017	2.947	2.830	3.057	3.218
ETHYLBENZENE	4.738	4.931	4.702	5.158	5.453
m,p-XYLENE	1.907	1.990	1.935	2.096	2.237
o-XYLENE	1.834	1.892	1.809	2.008	2.175
XYLENE (total)	1.883	1.957	1.893	2.067	2.494
STYRENE	2.827	3.065	2.972	3.372	3.630
BROMOFORM	0.484	0.520	0.514	0.616	0.712
1,1,2,2-TETRACHLOROETHANE	1.054	1.222	1.173	1.334	1.420

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date(s): 07/24/03 08/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1049 1101

LAB FILE ID: RF1: 1GH08003 RF5: 1GH08005 RF10: 1GH08007
RF20: 1GH08009 RF30: 1GH08011

COMPOUND	RF1	RF5	RF10	RF20	RF30
DIBROMFLUOROMETHANE		0.738	0.830	0.765	0.816
TOLUENE-d8		1.055	1.212	1.122	1.165
p-BROMOFLUOROBENZENE		1.259	1.394	1.361	1.479
1,2-DICHLOROBENZENE d4		0.515	0.559	0.516	0.528

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date(s): 07/24/03 08/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1049 1101

LAB FILE ID: RF40: 1GH08013 RF60: 1GH08015

COMPOUND	RF40	RF60
CHLOROMETHANE	1.420	1.462
VINYL CHLORIDE	1.346	1.383
BROMOMETHANE	0.822	
CHLOROETHANE	0.882	
1,1-DICHLOROETHENE	1.201	1.236
ACETONE	0.118	0.114
CARBON DISULFIDE	4.232	4.350
METHYLENE CHLORIDE	1.203	1.308
trans-1,2-DICHLOROETHENE	0.921	0.915
1,1-DICHLOROETHANE	1.568	1.522
cis-1,2-DICHLOROETHENE	0.980	0.955
1,2-DICHLOROETHENE (total)	0.950	0.935
CHLOROFORM	1.495	1.445
2-BUTANONE	0.046	0.044
1,1,1-TRICHLOROETHANE	0.492	0.479
CARBON TETRACHLORIDE	0.396	0.380
1,2-DICHLOROETHANE	0.465	0.454
BENZENE	1.417	1.373
TRICHLOROETHENE	0.355	0.340
1,2-DICHLOROPROPANE	0.353	0.338
BROMODICHLOROMETHANE	0.439	0.418
cis-1,3-DICHLOROPROPENE	0.515	0.503
TOLUENE	0.887	0.839
trans-1,3-DICHLOROPROPENE	0.459	0.448
1,1,2-TRICHLOROETHANE	0.275	0.261
4-METHYL-2-PENTANONE (MIBK)	0.187	0.179
2-HEXANONE	0.894	0.845
TETRACHLOROETHENE	1.458	1.492
DIBROMOCHLOROMETHANE	1.096	1.065
CHLOROBENZENE	3.264	3.066
ETHYLBENZENE	5.513	5.202
m,p-XYLENE	2.272	2.212
o-XYLENE	2.221	2.118
XYLENE (total)	2.255	2.181
STYRENE	3.765	3.589
BROMOFORM	0.744	0.723
1,1,2,2-TETRACHLOROETHANE	1.465	1.408

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date(s): 07/24/03 08/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1049 1101

LAB FILE ID: RF40: 1GH08013 RF60: 1GH08015

COMPOUND	RF40	RF60
DIBROMFLUOROMETHANE	0.861	0.838
TOLUENE-d8	1.267	1.202
p-BROMOFLUOROBENZENE	1.565	1.465
1,2-DICHLOROBENZENE d4	0.546	0.490

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date(s): 07/24/03 08/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1049 1101

COMPOUND	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
CHLOROMETHANE	AVRG		1.35149	7.6
VINYL CHLORIDE	AVRG		1.29194	8.5
BROMOMETHANE	AVRG		0.94826	10.5
CHLOROETHANE	AVRG		0.83324	5.9
1,1-DICHLOROETHENE	AVRG		1.19425	3.5
ACETONE	AVRG		0.11537	4.4
CARBON DISULFIDE	AVRG		4.18421	5.9
METHYLENE CHLORIDE	AVRG		1.20186	12.0
trans-1,2-DICHLOROETHENE	AVRG		0.89333	4.6
1,1-DICHLOROETHANE	AVRG		1.50164	4.9
cis-1,2-DICHLOROETHENE	AVRG		0.92188	4.8
1,2-DICHLOROETHENE (total)	AVRG		0.90764	3.9
CHLOROFORM	AVRG		1.44532	2.5
2-BUTANONE	AVRG		3.947e-002	12.1
1,1,1-TRICHLOROETHANE	AVRG		0.45561	6.2
CARBON TETRACHLORIDE	AVRG		0.35893	7.5
1,2-DICHLOROETHANE	AVRG		0.43067	5.0
BENZENE	AVRG		1.32902	4.1
TRICHLOROETHENE	AVRG		0.33282	4.2
1,2-DICHLOROPROPANE	AVRG		0.32696	5.1
BROMODICHLOROMETHANE	AVRG		0.39458	7.6
cis-1,3-DICHLOROPROPENE	AVRG		0.45961	8.9
TOLUENE	AVRG		0.82171	4.8
trans-1,3-DICHLOROPROPENE	AVRG		0.39996	13.0
1,1,2-TRICHLOROETHANE	AVRG		0.24217	10.8
4-METHYL-2-PENTANONE (MIBK)	AVRG		0.15909	13.7
2-HEXANONE	AVRG		0.78061	10.6
TETRACHLOROETHENE	AVRG		1.29196	14.2
DIBROMOCHLOROMETHANE	AVRG		0.95854	12.8
CHLOROBENZENE	AVRG		3.05712	4.9
ETHYLBENZENE	AVRG		5.09967	6.3
m,p-XYLENE	AVRG		2.09274	7.2
o-XYLENE	AVRG		2.00808	8.3
XYLENE (total)	AVRG		2.10410	10.6
STYRENE	AVRG		3.31722	11.0
BROMOFORM	LINR	7.5e-002	1.32853	0.996
1,1,2,2-TETRACHLOROETHANE	AVRG		1.29684	11.7

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date(s): 07/24/03 08/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1049 1101

COMPOUND	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
DIBROMFLUOROMETHANE	AVRG		0.80811	5.8
TOLUENE-d8	AVRG		1.17058	6.4
p-BROMOFLUOROBENZENE	AVRG		1.42047	7.5
1,2-DICHLOROBENZENE d4	AVRG		0.52586	4.6

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF1: 2FH11003 RF2.5: 2FH11004 RF5: 2FG05011
RF10: 2FG05012 RF25: 2FG05013

COMPOUND	RF1	RF2.5	RF5	RF10	RF25
CHLOROMETHANE			1.506	1.417	1.447
VINYL CHLORIDE			1.631	1.753	1.664
BROMOMETHANE			1.175	1.150	1.472
CHLOROETHANE			1.006	1.064	1.032
1,1-DICHLOROETHENE			1.621	1.563	1.746
ACETONE		0.064	0.051	0.054	0.048
CARBON DISULFIDE			5.433	5.067	5.242
METHYLENE CHLORIDE			1.434	1.349	1.333
trans-1,2-DICHLOROETHENE			1.578	1.648	1.733
1,1-DICHLOROETHANE			2.376	2.319	2.408
cis-1,2-DICHLOROETHENE			1.550	1.534	1.572
1,2-DICHLOROETHENE (total)			1.564	1.591	1.653
CHLOROFORM			2.434	2.409	2.426
2-BUTANONE		0.084	0.082	0.077	0.073
1,1,1-TRICHLOROETHANE			0.622	0.636	0.631
CARBON TETRACHLORIDE			0.570	0.550	0.567
1,2-DICHLOROETHANE			0.352	0.359	0.345
BENZENE			1.430	1.404	1.455
TRICHLOROETHENE			0.409	0.397	0.411
1,2-DICHLOROPROPANE			0.276	0.281	0.273
BROMODICHLOROMETHANE			0.419	0.404	0.404
cis-1,3-DICHLOROPROPENE			0.380	0.411	0.415
TOLUENE			0.953	0.903	0.973
trans-1,3-DICHLOROPROPENE			0.308	0.299	0.309
1,1,2-TRICHLOROETHANE			0.182	0.158	0.168
4-METHYL-2-PENTANONE (MIBK)		0.073	0.061	0.065	0.064
2-HEXANONE		0.238	0.214	0.222	0.216
TETRACHLOROETHENE			0.992	0.975	1.073
DIBROMOCHLOROMETHANE			0.672	0.640	0.655
CHLOROBENZENE			2.416	2.288	2.475
ETHYLBENZENE			3.921	4.022	4.473
m,p-XYLENE			1.555	1.616	1.802
o-XYLENE			1.457	1.403	1.599
XYLENE (total)			1.522	1.545	1.734
STYRENE			2.242	2.298	2.540
BROMOFORM			0.332	0.365	0.332
1,1,2,2-TETRACHLOROETHANE			0.551	0.520	0.496

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF1: 2FH11003 RF2.5: 2FH11004 RF5: 2FG05011
RF10: 2FG05012 RF25: 2FG05013

COMPOUND	RF1	RF2.5	RF5	RF10	RF25
DIBROMFLUOROMETHANE			2.250	1.708	1.541
TOLUENE-d8			1.786	1.627	1.581
p-BROMOFLUOROBENZENE			1.176	1.091	1.013
1,2-DICHLOROBENZENE d4			1.312	1.162	1.104

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF50: 2FG05014 RF75: 2FG05015 RF100: 2FG05016
RF200: 2FG05017

COMPOUND	RF50	RF75	RF100	RF200
CHLOROMETHANE		1.431	1.513	1.354
VINYL CHLORIDE		1.769	1.887	1.620
BROMOMETHANE		1.500	1.235	0.994
CHLOROETHANE		1.084	1.159	1.062
1,1-DICHLOROETHENE		1.777	1.940	1.940
ACETONE		0.051	0.048	0.049
CARBON DISULFIDE		4.886	5.263	5.063
METHYLENE CHLORIDE		1.323	1.371	1.343
trans-1,2-DICHLOROETHENE		1.796	1.904	1.901
1,1-DICHLOROETHANE		2.428	2.641	2.520
cis-1,2-DICHLOROETHENE		1.619	1.761	1.762
1,2-DICHLOROETHENE (total)		1.708	1.832	1.831
CHLOROFORM		2.418	2.588	2.516
2-BUTANONE		0.078	0.078	0.082
1,1,1-TRICHLOROETHANE		0.729	0.736	0.744
CARBON TETRACHLORIDE		0.642	0.691	0.669
1,2-DICHLOROETHANE		0.378	0.389	0.394
BENZENE		1.597	1.681	1.659
TRICHLOROETHENE		0.445	0.467	0.465
1,2-DICHLOROPROPANE		0.302	0.313	0.311
BROMODICHLOROMETHANE		0.436	0.448	0.439
cis-1,3-DICHLOROPROPENE		0.466	0.482	0.478
TOLUENE		1.081	1.121	1.108
trans-1,3-DICHLOROPROPENE		0.377	0.378	0.382
1,1,2-TRICHLOROETHANE		0.190	0.189	0.185
4-METHYL-2-PENTANONE (MIBK)		0.075	0.071	0.076
2-HEXANONE		0.245	0.224	0.240
TETRACHLOROETHENE		1.174	1.270	1.313
DIBROMOCHLOROMETHANE		0.728	0.729	0.739
CHLOROBENZENE		2.659	2.721	2.748
ETHYLBENZENE		4.862	5.088	5.130
m,p-XYLENE		1.999	2.108	2.234
o-XYLENE		1.804	1.875	1.970
XYLENE (total)		1.934	2.031	2.146
STYRENE		2.917	3.012	3.149
BROMOFORM		0.427	0.407	0.415
1,1,2,2-TETRACHLOROETHANE		0.580	0.534	0.566

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF50: 2FG05014 RF75: 2FG05015 RF100: 2FG05016
RF200: 2FG05017

COMPOUND	RF50	RF75	RF100	RF200
DIBROMFLUOROMETHANE		1.437	1.359	1.434
TOLUENE-d8		1.584	1.665	1.627
p-BROMOFLUOROBENZENE		1.056	1.082	1.088
1,2-DICHLOROBENZENE d4		1.052	1.097	1.066

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
CHLOROMETHANE	AVRG		1.45021		3.9
VINYL CHLORIDE	AVRG		1.73866		6.0
BROMOMETHANE	2ORDR	0.1136	0.35831	0.1541	0.994
CHLOROETHANE	AVRG		1.07606		4.9
1,1-DICHLOROETHENE	2ORDR	3.12e-002	0.53291	-2.86e-003	0.999
ACETONE	2ORDR	-0.107	19.5850	0.3823	0.998
CARBON DISULFIDE	AVRG		5.14323		3.5
METHYLENE CHLORIDE	AVRG		1.36082		2.7
trans-1,2-DICHLOROETHENE	2ORDR	2.794e-002	0.53636	-1.92e-003	1.000
1,1-DICHLOROETHANE	2ORDR	3.032e-002	0.38072	1.188e-003	0.999
cis-1,2-DICHLOROETHENE	2ORDR	2.416e-002	0.58966	-3.75e-003	0.999
1,2-DICHLOROETHENE (total)	2ORDR	5.21e-002	0.56186	-1.37e-003	1.000
CHLOROFORM	AVRG		2.47242		2.7
2-BUTANONE	2ORDR	-3.43e-002	12.7334	-0.148	0.998
1,1,1-TRICHLOROETHANE	2ORDR	3.321e-002	1.30790	8.553e-003	0.999
CARBON TETRACHLORIDE	LINR	2.417e-002	1.47429		0.998
1,2-DICHLOROETHANE	2ORDR	1.952e-002	2.56377	-2.38e-002	0.999
BENZENE	2ORDR	3.709e-002	0.59243	6.069e-004	1.000
TRICHLOROETHENE	2ORDR	2.911e-002	2.12316	5.603e-003	0.999
1,2-DICHLOROPROPANE	2ORDR	2.788e-002	3.11954	5.767e-002	0.999
BROMODICHLOROMETHANE	AVRG		0.43210		5.8
cis-1,3-DICHLOROPROPENE	LINR	2.636e-002	2.07278		0.999
TOLUENE	2ORDR	3.863e-002	0.86691	5.954e-003	0.999
trans-1,3-DICHLOROPROPENE	LINR	3.848e-002	2.58667		0.999
1,1,2-TRICHLOROETHANE	AVRG		0.18257		8.3
4-METHYL-2-PENTANONE (MIBK)	2ORDR	0.1504	13.1637	1.321e-002	0.996
2-HEXANONE	2ORDR	7.615e-002	4.01895	1.509e-002	0.994
TETRACHLOROETHENE	2ORDR	3.89e-002	0.81597	-1.19e-002	0.999
DIBROMOCHLOROMETHANE	2ORDR	2.297e-002	1.33107	5.497e-003	0.999
CHLOROBENZENE	2ORDR	2.531e-002	0.36407	-2.21e-004	1.000
ETHYLBENZENE	2ORDR	3.813e-002	0.19605	-1.48e-004	1.000
m,p-XYLENE	2ORDR	7.463e-002	0.49071	-2.64e-003	1.000
o-XYLENE	2ORDR	3.962e-002	0.54425	-5.29e-003	1.000
XYLENE (total)	2ORDR	0.1140	0.50740	-1.78e-003	1.000
STYRENE	2ORDR	4.244e-002	0.33584	-1.72e-003	1.000
BROMOFORM	2ORDR	4.381e-002	2.27627	6.781e-002	0.998
1,1,2,2-TETRACHLOROETHANE	AVRG		0.55890		9.7

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
DIBROMFLUOROMETHANE	2ORDR	-8.09e-002	0.76945	-9.9e-003	0.999
TOLUENE-d8	AVRG		1.65237		4.3
p-BROMOFLUOROBENZENE	AVRG		1.08892		4.6
1,2-DICHLOROBENZENE d4	LINR	-2.45e-002	0.94085		1.000

FORM VI VOA

FORM 7
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date: 09/09/03 Time: 1257

Lab File ID: 2GI09002 Init. Calib. Date(s): 07/24/03 08/08/03

Init. Calib. Times: 1049 1101

GC Column: DB-624 60M ID: 0.32 (mm)

COMPOUND	ICAL20 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
CHLOROMETHANE	1.351		1.626	0.10	20.4		AVRG
VINYL CHLORIDE	1.292		1.533	0.01	18.6	20.0	AVRG
BROMOMETHANE	0.948		0.819	0.01	13.6		AVRG
CHLOROETHANE	0.833		0.902	0.01	8.3		AVRG
1,1-DICHLOROETHENE	1.194		1.118	0.01	6.4	20.0	AVRG
ACETONE	0.115		0.094	0.01	18.3		AVRG
CARBON DISULFIDE	4.184		3.730	0.01	10.8		AVRG
METHYLENE CHLORIDE	1.202		1.109	0.01	7.7		AVRG
trans-1,2-DICHLOROETHENE	0.893		0.939	0.01	5.2		AVRG
1,1-DICHLOROETHANE	1.502		1.604	0.10	6.8		AVRG
cis-1,2-DICHLOROETHENE	0.922		0.988	0.01	7.2		AVRG
1,2-DICHLOROETHENE (total)	0.908		0.964	0.01	6.2		AVRG
CHLOROFORM	1.445		1.528	0.01	5.7	20.0	AVRG
2-BUTANONE	0.040		0.031	0.00	22.5		AVRG
1,1,1-TRICHLOROETHANE	0.456		0.449	0.01	1.5		AVRG
CARBON TETRACHLORIDE	0.359		0.371	0.01	3.3		AVRG
1,2-DICHLOROETHANE	0.430		0.388	0.01	9.8		AVRG
BENZENE	1.329		1.299	0.01	2.2		AVRG
TRICHLOROETHENE	0.333		0.319	0.01	4.2		AVRG
1,2-DICHLOROPROPANE	0.327		0.321	0.01	1.8	20.0	AVRG
BROMODICHLOROMETHANE	0.394		0.380	0.00	3.6		AVRG
cis-1,3-DICHLOROPROPENE	0.459		0.450	0.01	2.0		AVRG
TOLUENE	0.822		0.819	0.01	0.4	20.0	AVRG
trans-1,3-DICHLOROPROPENE	0.400		0.392	0.01	2.0		AVRG
1,1,2-TRICHLOROETHANE	0.242		0.225	0.01	7.0		AVRG
4-METHYL-2-PENTANONE (MIBK)	0.159		0.121	0.01	23.9		AVRG
2-HEXANONE	0.781		0.597	0.00	23.6		AVRG
TETRACHLOROETHENE	1.292		1.122	0.01	13.2		AVRG
DIBROMOCHLOROMETHANE	0.958		0.941	0.01	1.8		AVRG
CHLOROBENZENE	3.057		2.994	0.30	2.1		AVRG
ETHYLBENZENE	5.100		5.084	0.01	0.3	20.0	AVRG
m,p-XYLENE	2.093		2.079	0.01	0.7		AVRG
o-XYLENE	2.008		2.016	0.01	0.4		AVRG
XYLENE (total)	2.104		2.058	0.01	2.2		AVRG
STYRENE	3.317		3.342	0.01	0.8		AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 7
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Instrument ID: TVMG5973 Calibration Date: 09/09/03 Time: 1257

Lab File ID: 2GI09002 Init. Calib. Date(s): 07/24/03 08/08/03

Init. Calib. Times: 1049 1101

GC Column: DB-624 60M ID: 0.32 (mm)

COMPOUND	ICAL20 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
BROMOFORM	20	18	0.602	0.10	10.0		LINR
1,1,2,2-TETRACHLOROETHANE	1.296		1.165	0.30	10.1		AVRG
DIBROMFLUOROMETHANE	0.808		0.905	0.01	12.0		AVRG
TOLUENE-d8	1.170		1.215	0.01	3.8		AVRG
p-BROMOFLUOROBENZENE	1.420		1.447	0.01	1.9		AVRG
1,2-DICHLOROBENZENE d4	0.526		0.522	0.01	0.8		AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date: 09/10/03 Time: 1033

Lab File ID: 2FI10002 Init. Calib. Date(s): 07/05/03 08/11/03

Heated Purge: (Y/N) Y Init. Calib. Times: 1544 1854

GC Column: DB-624 60M ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
CHLOROMETHANE	54	50	AVRG	8.0	100
VINYL CHLORIDE	59	50	AVRG	18.0	20.0
BROMOMETHANE	53	50	2ORDR	6.0	100
CHLOROETHANE	58	50	AVRG	16.0	100
1,1-DICHLOROETHENE	51	50	2ORDR	2.0	20.0
ACETONE	500	500	2ORDR	0.0	100
CARBON DISULFIDE	52	50	AVRG	4.0	100
METHYLENE CHLORIDE	53	50	AVRG	6.0	100
trans-1,2-DICHLOROETHENE	52	50	2ORDR	4.0	100
1,1-DICHLOROETHANE	52	50	2ORDR	4.0	100
cis-1,2-DICHLOROETHENE	54	50	2ORDR	8.0	100
1,2-DICHLOROETHENE (total)	110	100	2ORDR	10.0	100
CHLOROFORM	55	50	AVRG	10.0	20.0
2-BUTANONE	510	500	2ORDR	2.0	100
1,1,1-TRICHLOROETHANE	43	50	2ORDR	14.0	100
CARBON TETRACHLORIDE	44	50	LINR	12.0	100
1,2-DICHLOROETHANE	42	50	2ORDR	16.0	100
BENZENE	46	50	2ORDR	8.0	100
TRICHLOROETHENE	44	50	2ORDR	12.0	100
1,2-DICHLOROPROPANE	48	50	2ORDR	4.0	20.0
BROMODICHLOROMETHANE	46	50	AVRG	8.0	100
cis-1,3-DICHLOROPROPENE	45	50	LINR	10.0	100
TOLUENE	46	50	2ORDR	8.0	20.0
trans-1,3-DICHLOROPROPENE	44	50	LINR	12.0	100
1,1,2-TRICHLOROETHANE	47	50	AVRG	6.0	100
4-METHYL-2-PENTANONE (MIBK)	460	500	2ORDR	8.0	100
2-HEXANONE	460	500	2ORDR	8.0	100
TETRACHLOROETHENE	52	50	2ORDR	4.0	100
DIBROMOCHLOROMETHANE	46	50	2ORDR	8.0	100
CHLOROBENZENE	49	50	2ORDR	2.0	100
ETHYLBENZENE	50	50	2ORDR	0.0	20.0
m,p-XYLENE	100	100	2ORDR	0.0	100
o-XYLENE	50	50	2ORDR	0.0	100
XYLENE (total)	150	150	2ORDR	0.0	100
STYRENE	50	50	2ORDR	0.0	100
BROMOFORM	46	50	2ORDR	8.0	100
1,1,2,2-TETRACHLOROETHANE	46	50	AVRG	8.0	100

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Instrument ID: TVMF5973 Calibration Date: 09/10/03 Time: 1033

Lab File ID: 2FI10002 Init. Calib. Date(s): 07/05/03 08/11/03

Heated Purge: (Y/N) Y Init. Calib. Times: 1544 1854

GC Column: DB-624 60M ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
DIBROMFLUOROMETHANE	58	50	2ORDR	16.0	100
TOLUENE-d8	47	50	AVRG	6.0	100
p-BROMOFLUOROBENZENE	51	50	AVRG	2.0	100
1,2-DICHLOROBENZENE d4	48	50	LINR	4.0	100

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC01

Lab File ID (Standard): 2GI09002 Date Analyzed: 09/09/03

Instrument ID: TVMG5973 Time Analyzed: 1257

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS1(DCA) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	63545	2.61	197039	2.80	59876	4.41
	UPPER LIMIT	127090	3.11	394078	3.30	119752	4.91
	LOWER LIMIT	31773	2.11	98520	2.30	29938	3.91
	CLIENT SAMPLE NO.						
01	2G090903MBLC	60599	2.61	191710	2.80	62340	4.41
02	2G090903MBLC	55766	2.61	173431	2.80	54570	4.41
03	2G090903MB	55917	2.61	168320	2.80	53469	4.40
04	73924-2	53580	2.60	169465	2.79	55179	4.41
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22							

IS1 (DCA) = 1,2-DICHLOROETHANE-d4
IS2 (DFB) = 1,4-DIFLUOROBENZENE
IS3 (CBZ) = CHLOROBENZENE-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): 2FI10002 Date Analyzed: 09/10/03

Instrument ID: TVMF5973 Time Analyzed: 1033

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) Y

		IS1(DCA) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	54193	3.81	250294	4.09	98718	6.12
	UPPER LIMIT	108386	4.31	500588	4.59	197436	6.62
	LOWER LIMIT	27097	3.31	125147	3.59	49359	5.62
	CLIENT SAMPLE NO.						
01	2F0910MBLCS	57398	3.81	244506	4.09	99831	6.12
02	2F0910MBLCSD	53828	3.81	232888	4.09	94634	6.11
03	2F0910MB	55254	3.81	238384	4.09	94303	6.12
04	73924-1	55622	3.81	264147	4.09	89881	6.11
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22							

IS1 (DCA) = 1,2-DICHLOROETHANE-d4
IS2 (DFB) = 1,4-DIFLUOROBENZENE
IS3 (CBZ) = CHLOROBENZENE-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC01

Lab File ID (Standard): 2FI10002 Date Analyzed: 09/10/03

Instrument ID: TVMF5973 Time Analyzed: 1033

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) Y

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	108271	7.94				
	UPPER LIMIT	216542	8.44				
	LOWER LIMIT	54136	7.44				
	CLIENT SAMPLE NO.						
01	2F0910MBLCS	90676	7.94				
02	2F0910MBLCSD	87666	7.94				
03	2F0910MB	88331	7.94				
04	73924-1	60269	7.94				
05							
06							
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22							

IS4 (DCB) = 1,4-DICHLOROBENZENE d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: VOA

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
3735218	1G0808.b	1GH08001.D	BFB	1G0808BFB	1G0808BFB	3735217		
3735218	1G0808.b	1GH08002.D	CALIB_1	VSTD001GR	VSTD001GR	3735251		
3735218	1G0808.b	1GH08003.D	CALIB_1	VSTD001DS	VSTD001DS	3735252		
3735218	1G0808.b	1GH08004.D	CALIB_2	VSTD005GR	VSTD005GR	3735253		
3735218	1G0808.b	1GH08005.D	CALIB_2	VSTD005DS	VSTD005DS	3735254		
3735218	1G0808.b	1GH08006.D	CALIB_3	VSTD010GR	VSTD010GR	3735231		
3735218	1G0808.b	1GH08007.D	CALIB_3	VSTD010DS	VSTD010DS	3735232		
3735218	1G0808.b	1GH08008.D	CALIB_4	VSTD020GR	VSTD020GR	3735348		
3735218	1G0808.b	1GH08009.D	CALIB_4	VSTD020DS	VSTD020DS	3735349		
3735218	1G0808.b	1GH08010.D	CALIB_5	VSTD030GR	VSTD030GR	3735350		
3735218	1G0808.b	1GH08011.D	CALIB_5	VSTD030DS	VSTD030DS	3735351		
3735218	1G0808.b	1GH08012.D	CALIB_6	VSTD040GR	VSTD040GR	3735352		
3735218	1G0808.b	1GH08013.D	CALIB_6	VSTD040DS	VSTD040DS	3735353		
3735218	1G0808.b	1GH08014.D	CALIB_7	VSTD060GR	VSTD060GR	3735354		
3735218	1G0808.b	1GH08015.D	CALIB_7	VSTD060DS	VSTD060DS	3735355		
4307561	2G0909.b	2GI09001.D	BFB		2G090903BFB	4307560		
4307561	2G0909.b	2GI09002.D	CCALIB_4	VSTD020	VSTD020	3743678		
4307561	2G0909.b	2GI09003.D	LCS	2G090903MBLCS	2G090903MBLCS	3743688	VM090903N	JETC01
4307561	2G0909.b	2GI09004.D	LCSD	2G090903MBLCSD	2G090903MBLCSD	3743689	VM090903N	JETC01
4307561	2G0909.b	2GI09008.D	BLANK	2G090903MB	2G090903MB	3743712	VM090903N	JETC01
4307561	2G0909.b	2GI09019.D	SAMPLE	73924-2	086-TB-L-0904-03	3744321	VM090903N	JETC01

SAMPLE INFORMATION SUMMARY

Client SDG: JETC01 Sample Fraction: VOA

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4302171	2F0811-CURVE.	2FH11001.D	BFB	2F0811BFB	2F0811BFB	4308288		
4302171	2F0811-CURVE.	2FH11003.D	CALIB_1	VSTD 001	VSTD 001	4302387		
4302171	2F0811-CURVE.	2FH11004.D	CALIB_2	VSTD 02.5	VSTD 02.5	4302388		
4302171	2F0811-CURVE.	2FH11005.D	CALIB_3	VSTD 005	VSTD 005	4302389		
4302171	2F0811-CURVE.	2FH11006.D	CALIB_4	VSTD 010	VSTD 010	4302390		
4302171	2F0811-CURVE.	2FH11007.D	CALIB_5	VSTD 025	VSTD 025	4302391		
4302171	2F0811-CURVE.	2FH11008.D	CALIB_6	VSTD 050	VSTD 050	4302392		
4302171	2F0811-CURVE.	2FH11009.D	CALIB_7	VSTD 075	VSTD 075	4302393		
4302171	2F0811-CURVE.	2FH11010.D	CALIB_8	VSTD 100	VSTD 100	4302394		
4302171	2F0811-CURVE.	2FH11011.D	CALIB_9	VSTD 200	VSTD 200	4302395		
4307959	2F0910.b	2FI10001.D	BFB	2F0910BFB	2F0910BFB	4307958		
4307959	2F0910.b	2FI10002.D	CCALIB_6	VSTD 050	VSTD 050	4307964		
4307959	2F0910.b	2FI10003.D	LCS	2F0910MBLCS	2F0910MBLCS	4308065	VM090903M	JETC01
4307959	2F0910.b	2FI10004.D	LCSD	2F0910MBLCSD	2F0910MBLCSD	4308066	VM090903M	JETC01
4307959	2F0910.b	2FI10006.D	BLANK	2F0910MB	2F0910MB	4308068	VM090903M	JETC01
4307959	2F0910.b	2FI10011.D	SAMPLE	73924-1	086-BFC-S-0904-0	4308184	VM090903M	JETC01

VOA INSTRUMENT LOG - GC/MS

Date: 08-08-03	Analyst: SOB/CMR	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
Inst. ID: TVMG	Sequence: 160808	1st ISTD: 1,2-DCA-d4	3rd ISTD: Chlorobenzene-d5	BFB	56-11-42-1	2.5	100 ADD'L 1	56-11-43-4 5ug/mL
Tune File: ATUNE.4		Time: 2.61	Time: 4.41	MS INT	42-2		2	43-5 20ug/mL
Tune Method: MG SAV	EM Voltage: 1941	Area: 65203	Area: 54686	SURR	42-3			
Analysis Method:	EM Voltage:	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1,4-DCB-d4	INT/SURR	43-4	5ml/mix		
ICAL Files:		Time: 2.80	Time: 5.98	DAILY 1	44-1	5/100/1000		
Daily Clock ID: 160808		Area: 182755	Area: 160193	DAILY 2	44-2	20/400/4000		
ICAL/Clock ID: 160808				GASES 1	43-1	5/50		
Analytical Method: 8260B or 624 or 8260				GASES 2	43-2	20/200		
				REACT	43-3	10/100		
				VMSSPIL	43-6	25		
				GC GASES	40-3	10		
				REACT BLK	41-3	10/100		

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Load Initials	Target Sublist	Comments
1GH0801		BFBTUNE	32	5mL	1.0	ALL	8260/624	—	OK	CMR 8/8/03		
02		STD 001GR	1									
03		DS	2									
04		005GR	3									
05		DS	4									
06		010GR	5									
07		DS	6									
08		020GR	7									
09		DS	8									
10		030GR	9									
11		DS	10									
12		040GR	11									
13		DS	12									
14		060GR	13									
15		DS	14									
16		020 ADD'L	15									
17		160808MBLCS	16									
18		160808MBLCSD	17									
19		160808LOQ ADD'L	18									
20		CUB	19									
21		160808MB	20			VM080603A	8260	—				
22	73242-1	EB-073003	21					1.5				
23	73244-5	TRIP BLANK	22									
24	73252-1	MW-4	23	1mL/5mL	5.0	VM080403N						
25	-2	RW-1	24	50ul/5mL	100							
26	-3	RW-3	25									
27	-4	MW-9	26	1mL/5mL	5.0							
28	-5	MW-9	27	2mL/5mL	2.5							
29	-6	RW-2	28	50ul/5mL	100							
30	73230-1	CW-4	29	5mL	1.0							
31	-2	CW-3	30									
32	-3	BW-1	31									

VOA INSTRUMENT LOG - GC/MS

Date: 09/09/03	Analyst: CMR	ICAL/CCALS	
Inst. ID: TVMS	Sequence: 260909	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5
Tune File: ATUNE-4		Time: 2.61	Time: 4.41
Tune Method: MGSAV	EM Voltage: 1871	Area: 317411	Area: 595974
Analysis Method: ↓	EM Voltage: ↓	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4
ICAL Files:		Time: 2.80	Time: 5.98
Daily Clock ID: 260909		Area: 522018	Area: 1267101
ICAL/Clock ID: 160808			
Analytical Method: 8260B or 624 or 524.2			

Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
BFB	56-11-52-2	25		
MS INT	56-11-51-3	↓		
SUR	↓ -4			
INT/SUR	↓ -5	↓		
DAILY 1	56-11-53-4	5/100/1000		
DAILY 2	↓ -5	20/100/1000		
GASES 1	56-11-54-3	5/50		
GASES 2	↓ -4	20/200		
REACT	-5	10/100		
MUSE F/L	↓ -6	.25		
CC GASES	56-11-53-1	10		
REACT SPK	56-11-52-5	10/100		

Data File	SL Log #	Sample Description	ATS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Load Initials	Target Sublist	Comments
1 59001	—	BFB TUNE	1	.5mL	1.0	—	82100	—	ok	CMR		
02	—	VSTD 020	2			—		—				
03	—	260909 03 MBLCS	3			—		—				
04	—	260909 03 MBLCSD	4			—		—				
05	—	CUB	5			—		—				
06	—	260909 03 LOQ	6			—		—				
07	—	CUB	7			—		—				
08	—	260909 03 MB	8			—		—				
09	—	CUB	9			—		—				
10	73909-1	AFI 032	10			VM090203P		1.5				
11	-2	033	11									
12	-3	034 TB	12									
13	—	CUB	13			—		—				
14	73916-1	AFI 035	14			VM090203P		1.5				
15	-2	036	15									
16	-3	037	16									
17	-4	038 TB	17									
18	73932-1	CRS059	18									
19	73924-2	CB6-TB-L-0901-03	19			VM090903N						
20	73913-7	1309-FB-LAFB	20									
21	-8	1309-EB-LAFB	21									
22	-9	TB	22									
23	—	SPLP BLK 090603	23			VM090403P						
24	—	090703	24									
25	—	090803	25									
26	—	090603 LCS	26									
27	—	090603 LCSD	27									
28	86875A-11	TM-1 POST 2 (8-12) STEAM	28									
29	-12	TM-2 ↓	29									
30	-1	TM-1 POST 2 (8-12)	30									
31	-2	(16-20)	31									
32	-3	(24-28)	32									

VOA INSTRUMENT LOG - GC/MS

: 09/09/03	Analyst: CMR	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
ID:	Sequence: 2L70909	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5					
e File:		Time:	Time:					
e Method:	EM Voltage:	Area:	Area:					
lysis Method:	EM Voltage:	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4					
1. Files:		Time:	Time:					
s Clock ID:		Area:	Area:					
1./Clock ID:							See Previous Page	
ethod: 8260B or 624 or 524.2								

a File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Load Initials	Target Sublist	Comments
09033	86875A-4	TM-1 POST 2 (20-40)	1	5 mL	1.0	VM090407P	8260	1.5	✓ok	CMR		
34	-5	↓ (44-48)	2									
35	-6	TM-2 POST 2 (8-12)	3									
36	-7	↓ (16-20)	4									
37	—	CUB	5									
38	86875A-8	TM-2 POST 2 (24-28)	6									
39	—	CUB	7									
40	86875A-9	TM-2 POST 2 (36-40)	8									
41	73913-7	1309 - FB - LAF B	9			VM090903N						
42	86875A-10	TM-2 POST 2 (44-48)	10			VM090403A						
43	73909-1	AFI 032 MS	11									
44	-1	↓ MSD	12									
45	73932-2	TB	13									
46	—	CONTROL BLK 090903	14									
47	—	624 CK STD	15			VM090903N	624					
48	—	3L090903MB	16									
49	—	3L090903LCS(MB)	17									
50	—	3L090903MBLCSD	18									
51	73920-1	Avg. Rec. Groundwater	19	5mL/5mL	1,000							
52	73921-1	Scrubber Blowdown Water	20	100µL/5mL	50							
53	73911-1	C-EFF	21	5mL	1.0							
54	-2	C-INF	22									
55	-3	TB	23									
56	-1	C-EFF MS	24									
57	-1	↓ MSD	25									
58	73920-1	Avg. Rec. Groundwater	26									
59	73921-1	Scrubber Blowdown Water	27									
60	73920-1	Avg. Rec. Groundwater	28	200µL/5mL	25							
61	73921-1	Scrubber Blowdown Water	29	50µL/5mL	100							
							} CMR 9/10/03					NFE CMR 9/10/03

Date: 8/11/3	Analyst: AC	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
Inst. ID: VMF	Sequence:	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5	BFB	8/6 Sb. 11.42.1	25		
Tune File: ATune.U		Time: 3.82	Time: 6.11	VM Std Mix	42.3	25		
Tune Method: PTS	EM Voltage: 1671	Area: 77K	Area: 131K	Daily 1	44.1	5/100/1000		
Analysis Method: PTS	EM Voltage: 1671	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4	↓ 2	44.2	20/400/4000		
ICAL Files: 2FH081103 → 11		Time: 4.09	Time: 7.44	Reactives	43.3	10/100		
Daily Clock ID: 1FO811.b		Area: 301K	Area: 140K	Gas 1	43.1	5/50		
ICAL/Clock ID: ↓				↓ 2	43.2	20/200		
Analytical Method: 8260B or 624 or 524.2				Spike	N/A	25		Reac Spike Sb. 11.47.3
				Archon IS	Sb. 11. 35.4	250		
				↓ ↓ ↓	↓ 35.5	210		
				VG Gas Mix	N/A	10		

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Lead Initials	Target Sublist	Comments
2FH11001	—	BFB	2	5ml	—	—	—	N/A		JC		
2		VMSTD 050	4									
3		001	6									
4		02.5	8									
5		005	10									
6		010	12									
7		025	14									
8		050	16									
9		075	18									
10		100	20									
11		200	22									
12		Rinse	24									
NFE JC 8/14/3												

0334

C2

Date: 9/10/3	Analyst: JG	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
Inst. ID: TVMF	Sequence:	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5	BFB	5b·11·51·2	25		
Tune File: ATune.U		Time: 3.81	Time: 6.12	VM Daily 1		53·3	5/160/1000	
Tune Method: PTS	EM Voltage: 1671	Area: 54K	Area: 98K	↓ 2		53·4	20/40/4000	
Analysis Method: PTS	EM Voltage: 1671	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4	GAS 1		54·3	5/50	
ICAL Files: 2FH11003 → 11		Time: 4.09	Time: 7.94	↓ 2		54·4	20/200	
Daily Clock ID: 2F0910.b		Area: 270K	Area: 108K	SPIKE		52·5	25	
ICAL/Clock ID: 2F0811.b				SUR		57·4	↓	
Analytical Method: (8260B) or 624 or 524.2				REAC		54·5	10/100	
				Archon TS		56·4	250	
SoiLS				↓		56·5	310	
				VG GAS Mx		53·2	10	

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT (g)	Dilution Factor	QVM Batch	Det Code	pH	Chloring check	Load Initials	Target Sublist	Comments
2FI10001		BFB	2	5ml								
2		VMSTD 050	4	1				NA	NA	JG		
3		2F0910 MB LCS	6	1								
4		LCSD	8	1								
5		LOO	10	1								
6		MB	12	1								
7	T373924-1	086-BFC-S-0904-03	14	1 6.72	1.0	VM090903M	8260BSS				TCL-U-3/10	IS ↓
8	T373922-1	B-4 (18-A')	16	1 4.22	100							
10 JG	T373924-1	086-BFC-SC904-03	20	1 5.30	1.00							not needed
11 JG			22	1 3.45	1.0							IS OK!
9 JG	S386953	I-3 POST 2(8-12)	18	1 4.30	1000						B4CX	inserted Rush sample
12	S387037-1	SB-1	24	1 4.81	1.0	VM041103M					TCL-U	
13	-2	-2	26	1 4.40								
14	-3	-3	28	1 4.84								
15	-4	-4	30	1 4.66								
16	-5	-5	32	1 4.02								
17	—	Blank	34	1 —	—	—	—				—	
18	—	Blank — Rinse	36	1 —	—	—	—				—	
NFE JG												

C335

FVM00C-T:05.21.03:5

SFL TALLAHASSEE

LEVEL III DATA PACKAGE

SDG# JETC02
STL Log Number: T373964
Project: JETC and Building 271

Prepared for
Aerostar Environmental Services, Inc.
by
STL Tallahassee
Tallahassee, Florida

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GC Chlorinated Pesticides *Method 8081/8082*

GC Petroleum Range Organics *Method FL-PRO*

GC/MS Polynuclear Aromatics *Method 8270*

GC/MS Semivolatile Organics *Method 8270*

GC/MS Volatile Organics *Method 8260*

Timothy Preston
timpreston@stl-inc.com

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The pages of this report are numbered sequentially from 1 to 316.

CHAIN-OF-CUSTODY DOCUMENTATION

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
171591-005 Page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
JETC and Building 271	171591	STL - Tallahassee		
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Backfill Characterization Sampling	0086			
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (Calendar days)	TCL Volatiles by 5035/8260B (GRAB)	TCL Semi-volatiles(8270C),TRPH (FL-PRO),16 Listed PAHs(including 1-and2-	Pesticides by 8081A, PCBs by 8082	Herbicides by 8151A	TAL Metals by 6010A/7471A	pH by 9045B			SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86LRCS090903	Characterization of fill material	S	09/09/03		III/C	7 Day	X	X	X	X	X	X			Grab / Composite		
2																		
3	86TBL090903	Trip Blank	L			III/C	7 Day	X									Prepared by Lab	
4																		
5																		
6																		
7																		
8																		
9																		
10																		

SAMPLER(S) AND COMPANY: (please print)

COURIER AND SHIPPING NUMBER: T373964

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: GEOFF REICHOLD	9-9-03	1335	Printed Name and Signature: PAMELA SCHNITZLER	9/9/2003	1335
Printed Name and Signature:			Printed Name and Signature: M. Owens / Miron Owens	9/10/03	920
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

REPORT OF SAMPLES WITH SDG# OF JETC02

SAMPLE#	SAMPLE DESCRIPTION	DATE SAMPLED	DATE RECEIVED	MATRIX
T373964*1	086-LRC-S-0909-03	09/09/03	09/10/03	SOLID

LABORATORY REPORT

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
TCL Volatiles by GC/MS (8260)	
Chloromethane, ug/kg dw	11U
Bromomethane (Methyl bromide), ug/kg dw	11U
Vinyl chloride, ug/kg dw	1.5U*
Chloroethane, ug/kg dw	11U
Methylene chloride (Dichloromethane), ug/kg dw	5.7U
Acetone, ug/kg dw	57U
Carbon disulfide, ug/kg dw	5.7U
1,1-Dichloroethene, ug/kg dw	5.7U
1,1-Dichloroethane, ug/kg dw	5.7U
cis-1,2-Dichloroethylene, ug/kg dw	5.7U
trans-1,2-Dichloroethene, ug/kg dw	5.7U
Chloroform, ug/kg dw	5.7U
1,2-Dichloroethane, ug/kg dw	5.7U
2-Butanone (MEK), ug/kg dw	29U
1,1,1-Trichloroethane, ug/kg dw	5.7U
Carbon tetrachloride, ug/kg dw	5.7U
Bromodichloromethane, ug/kg dw	0.88U*
1,2-Dichloropropane, ug/kg dw	5.7U
cis-1,3-Dichloropropene, ug/kg dw	0.99U*
Trichloroethene, ug/kg dw	5.7U
Dibromochloromethane, ug/kg dw	0.84U*
1,1,2-Trichloroethane, ug/kg dw	5.7U

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

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11181 St. Johns Industrial Parkway, N
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Benzene, ug/kg dw	5.7U
trans-1,3-Dichloropropene, ug/kg dw	2.1U*
Bromoform, ug/kg dw	5.7U
4-Methyl-2-pentanone (MIBK), ug/kg dw	29U
2-Hexanone, ug/kg dw	29U
Tetrachloroethene, ug/kg dw	5.7U
Toluene, ug/kg dw	5.7U
1,1,2,2-Tetrachloroethane, ug/kg dw	5.7U
Chlorobenzene, ug/kg dw	5.7U
Ethylbenzene, ug/kg dw	5.7U
Styrene, ug/kg dw	5.7U
Xylenes, Total, ug/kg dw	5.7U
Surrogate - Dibromofluoromethane	110 %
Surrogate - Toluene-d8	91 %
Surrogate - 4-Bromofluorobenzene	89 %
Prep Date	09.09.03
Analysis Date	09.11.03
Batch ID	VM091103M

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
TCL - Semivolatiles (8270)	
Phenol, ug/kg dw	340U
bis(2-Chloroethyl)ether, ug/kg dw	340U
2-Chlorophenol, ug/kg dw	340U
1,3-Dichlorobenzene, ug/kg dw	340U
1,4-Dichlorobenzene, ug/kg dw	340U
1,2-Dichlorobenzene, ug/kg dw	340U
2-Methylphenol (o-Cresol), ug/kg dw	340U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	340U
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/kg dw	340U
N-Nitroso-di-n-propylamine, ug/kg dw	340U
Hexachloroethane, ug/kg dw	340U
Nitrobenzene, ug/kg dw	340U
Isophorone, ug/kg dw	340U
2-Nitrophenol, ug/kg dw	340U
2,4-Dimethylphenol, ug/kg dw	340U
bis(2-Chloroethoxy)methane, ug/kg dw	340U
2,4-Dichlorophenol, ug/kg dw	340U
1,2,4-Trichlorobenzene, ug/kg dw	340U
Naphthalene, ug/kg dw	340U
4-Chloroaniline, ug/kg dw	690U
Hexachlorobutadiene, ug/kg dw	340U

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
4-Chloro-3-methylphenol, ug/kg dw	340U
2-Methylnaphthalene, ug/kg dw	340U
Hexachlorocyclopentadiene, ug/kg dw	340U
2,4,6-Trichlorophenol, ug/kg dw	340U
2,4,5-Trichlorophenol, ug/kg dw	340U
2-Chloronaphthalene, ug/kg dw	340U
2-Nitroaniline, ug/kg dw	1800U
Dimethylphthalate, ug/kg dw	340U
Acenaphthylene, ug/kg dw	340U
2,6-Dinitrotoluene, ug/kg dw	340U
3-Nitroaniline, ug/kg dw	1800U
Acenaphthene, ug/kg dw	340U
2,4-Dinitrophenol, ug/kg dw	1800U
4-Nitrophenol, ug/kg dw	1800U
Dibenzofuran, ug/kg dw	340U
2,4-Dinitrotoluene, ug/kg dw	340U
Diethylphthalate, ug/kg dw	340U
4-Chlorophenylphenyl ether, ug/kg dw	340U
Fluorene, ug/kg dw	340U
4-Nitroaniline, ug/kg dw	1800U
4,6-Dinitro-2-methylphenol, ug/kg dw	1800U
N-Nitrosodiphenylamine, ug/kg dw	340U
4-Bromophenylphenyl ether, ug/kg dw	340U

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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Hexachlorobenzene, ug/kg dw	340U
Pentachlorophenol, ug/kg dw	1800U
Phenanthrene, ug/kg dw	340U
Anthracene, ug/kg dw	340U
Carbazole, ug/kg dw	340U
Di-n-butylphthalate, ug/kg dw	340U
Fluoranthene, ug/kg dw	340U
Pyrene, ug/kg dw	340U
Butylbenzylphthalate, ug/kg dw	340U
3,3'-Dichlorobenzidine, ug/kg dw	690U
Benzo(a)anthracene, ug/kg dw	340U
Chrysene, ug/kg dw	340U
bis(2-Ethylhexyl)phthalate, ug/kg dw	340U
Di-n-octylphthalate, ug/kg dw	340U
Benzo(b)fluoranthene, ug/kg dw	340U
Benzo(k)fluoranthene, ug/kg dw	340U
Benzo(a)pyrene, ug/kg dw	340U
Indeno(1,2,3-cd)pyrene, ug/kg dw	340U
Dibenzo(a,h)anthracene, ug/kg dw	340U
Benzo(g,h,i)perylene, ug/kg dw	340U
Surrogate - 2-Fluorophenol	57 %
Surrogate - Phenol-d5	57 %
Surrogate - Nitrobenzene - d5	65 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Surrogate - 2-Fluorobiphenyl	59 %
Surrogate - 2,4,6-Tribromophenol	63 %
Surrogate - Terphenyl-d14	76 %
Prep Date	09.16.03
Analysis Date	09.16.03
Batch ID	SM091603I

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Polynuclear Aromatics (8270)	
Acenaphthene, ug/kg dw	7.0U
Acenaphthylene, ug/kg dw	7.0U
Anthracene, ug/kg dw	7.0U
Benzo(a)anthracene, ug/kg dw	7.0U
Benzo(a)pyrene, ug/kg dw	7.0U
Benzo(b)fluoranthene, ug/kg dw	7.0U
Benzo(g,h,i)perylene, ug/kg dw	7.0U
Benzo(k)fluoranthene, ug/kg dw	7.0U
Chrysene, ug/kg dw	7.0U
Dibenzo(a,h)anthracene, ug/kg dw	7.0U
Fluoranthene, ug/kg dw	7.0U
Fluorene, ug/kg dw	7.0U
Indeno(1,2,3-cd)pyrene, ug/kg dw	7.0U
Naphthalene, ug/kg dw	7.0U
Phenanthrene, ug/kg dw	7.0U
Pyrene, ug/kg dw	7.0U
1-Methylnaphthalene, ug/kg dw	7.0U
2-Methylnaphthalene, ug/kg dw	7.0U
Surrogate - o-Terphenyl	71 %
Prep Date	09.12.03
Analysis Date	09.16.03
Batch ID	SM091203H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Petroleum Range Organics (FL-PRO)	
Petroleum Hydrocarbons , mg/kg dw	10U
Surrogate, o-Terphenyl	55 %
Surrogate-C39	45 %
Prep Date	09.12.03
Analysis Date	09.16.03
Batch ID	SG091203I

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Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
TCL - Pesticides/PCB's (8081/8082)	
alpha-BHC, ug/kg dw	1.8U
beta-BHC, ug/kg dw	1.8U
delta-BHC, ug/kg dw	1.8U
gamma-BHC (Lindane), ug/kg dw	1.8U
Heptachlor, ug/kg dw	1.8U
Aldrin, ug/kg dw	1.8U
Heptachlor epoxide, ug/kg dw	1.8U
Endosulfan I, ug/kg dw	1.8U
Dieldrin, ug/kg dw	3.4U
4,4'-DDE, ug/kg dw	3.4U
Endrin, ug/kg dw	3.4U
Endosulfan II, ug/kg dw	3.4U
4,4'-DDD, ug/kg dw	3.4U
Endosulfan sulfate, ug/kg dw	3.4U
4,4'-DDT, ug/kg dw	3.4U
Methoxychlor, ug/kg dw	18U
Endrin ketone, ug/kg dw	3.4U
Endrin aldehyde, ug/kg dw	3.4U
alpha-Chlordane, ug/kg dw	1.8U
gamma-Chlordane, ug/kg dw	1.8U
Toxaphene, ug/kg dw	180U
Aroclor-1016, ug/kg dw	34U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Aroclor-1221, ug/kg dw	70U
Aroclor-1232, ug/kg dw	34U
Aroclor-1242, ug/kg dw	34U
Aroclor-1248, ug/kg dw	34U
Aroclor-1254, ug/kg dw	34U
Aroclor-1260, ug/kg dw	34U
Surrogate - Dibutyl Chlorendate	63 %
Surrogate - Tetrachloro-m-xylene	15 %*F36
Surrogate - Decachlorobiphenyl	66 %
Prep Date	09.16.03
Analysis Date	09.16.03
Batch ID	SG091603H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Chlorinated Herbicides (8151)	
Bentazon, ug/kg dw	36U
2,4-D, ug/kg dw	8.6U
Dalapon, ug/kg dw	2100U
2,4-DB, ug/kg dw	8.6U
Dicamba, ug/kg dw	21U
Dichloroprop, ug/kg dw	100U
Dinoseb, ug/kg dw	100U
MCPA[(4-chloro-2-methylphenoxy)-acetic acid], ug/kg dw	2100U
MCPP[2-(4-chloro-2-methylphenoxy)-propanoic acid], ug/kg dw	2100U
Pentachlorophenol, ug/kg dw	18U
Picloram, ug/kg dw	3.4U
2,4,5-TP (Silvex), ug/kg dw	8.6U
2,4,5-T, ug/kg dw	8.6U
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	84 %
Prep Date	09.12.03
Analysis Date	09.16.03
Batch ID	SG091203L

LOG NO: T3-73964
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Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
TAL Metals (6010)	
Aluminum, mg/kg dw	710
Antimony, mg/kg dw	2.1U
Arsenic, mg/kg dw	1.1
Barium, mg/kg dw	3.4
Beryllium, mg/kg dw	0.41U
Cadmium, mg/kg dw	0.52U
Calcium, mg/kg dw	390000
Chromium, mg/kg dw	3.2
Cobalt, mg/kg dw	1.0U
Copper, mg/kg dw	2.1U
Iron, mg/kg dw	250
Lead, mg/kg dw	1.0U*F65
Magnesium, mg/kg dw	1100
Manganese, mg/kg dw	3.5
Nickel, mg/kg dw	1.9B
Potassium, mg/kg dw	120
Selenium, mg/kg dw	0.62B
Silver, mg/kg dw	0.30B
Sodium, mg/kg dw	1200
Thallium, mg/kg dw	1.0U
Vanadium, mg/kg dw	1.9
Zinc, mg/kg dw	2.1U
Prep Date	09.12.03
Analysis Date	09.12.03
Batch ID	ME091203C

LOG NO: T3-73964
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Project: JETC and Building 271
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Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
73964-1	086-LRC-S-0909-03	09-09-03	JETC02

PARAMETER	73964-1
Mercury (7471), mg/kg dw	0.020U
Prep Date	09.15.03
Analysis Date	09.15.03
Batch ID	ME091503R
pH (150.1), units	8.4
Prep Date	09.10.03
Analysis Date	09.10.03
Batch ID	GE091003HS

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
TCL Volatiles by GC/MS (8260)					
Chloromethane, ug/kg dw	10U	---	---	---	---
Bromomethane (Methyl bromide), ug/kg dw	10U	---	---	---	---
Vinyl chloride, ug/kg dw	10U	---	---	---	---
Chloroethane, ug/kg dw	10U	---	---	---	---
Methylene chloride (Dichloromethane), ug/kg dw	5.0U	---	---	---	---
Acetone, ug/kg dw	50U	---	---	---	---
Carbon disulfide, ug/kg dw	5.0U	---	---	---	---
1,1-Dichloroethene, ug/kg dw	5.0U	53	48	50	106 %
1,1-Dichloroethane, ug/kg dw	5.0U	---	---	---	---
cis-1,2-Dichloroethylene, ug/kg dw	5.0U	---	---	---	---
trans-1,2-Dichloroethene, ug/kg dw	5.0U	---	---	---	---
Chloroform, ug/kg dw	5.0U	---	---	---	---
1,2-Dichloroethane, ug/kg dw	5.0U	---	---	---	---
2-Butanone (MEK), ug/kg dw	25U	---	---	---	---
1,1,1-Trichloroethane, ug/kg dw	5.0U	---	---	---	---
Carbon tetrachloride, ug/kg dw	5.0U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Bromodichloromethane, ug/kg dw	5.0U	---	---	---	---
1,2-Dichloropropane, ug/kg dw	5.0U	---	---	---	---
cis-1,3-Dichloropropene, ug/kg dw	5.0U	---	---	---	---
Trichloroethene, ug/kg dw	5.0U	47	42	50	94 %
Dibromochloromethane, ug/kg dw	5.0U	---	---	---	---
1,1,2-Trichloroethane, ug/kg dw	5.0U	---	---	---	---
Benzene, ug/kg dw	5.0U	48	45	50	96 %
trans-1,3-Dichloropropene, ug/kg dw	5.0U	---	---	---	---
Bromoform, ug/kg dw	5.0U	---	---	---	---
4-Methyl-2-pentanone (MIBK), ug/kg dw	25U	---	---	---	---
2-Hexanone, ug/kg dw	25U	---	---	---	---
Tetrachloroethene, ug/kg dw	5.0U	---	---	---	---
Toluene, ug/kg dw	5.0U	49	45	50	98 %
1,1,2,2-Tetrachloroethane, ug/kg dw	5.0U	---	---	---	---
Chlorobenzene, ug/kg dw	5.0U	51	45	50	102 %
Ethylbenzene, ug/kg dw	5.0U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Styrene, ug/kg dw	5.0U	---	---	---	---
Xylenes, Total, ug/kg dw	5.0U	---	---	---	---
Surrogate - Dibromofluoromethane	96 %	94 %	100 %	---	---
Surrogate - Toluene-d8	74 %	80 %	82 %	---	---
Surrogate - 4-Bromofluorobenzene	80 %	84 %	84 %	---	---
Prep Date	09.11.03	09.11.03	09.11.03	---	---
Analysis Date	09.11.03	09.11.03	09.11.03	---	---
Batch ID	VM091103M	VM091103M	VM091103M	VM091103M	VM091103M

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
TCL - Semivolatiles (8270)					
Phenol, ug/kg dw	330U	1900	1900	3300	58 %
bis(2-Chloroethyl)ether, ug/kg dw	330U	---	---	---	---
2-Chlorophenol, ug/kg dw	330U	1900	1700	3300	58 %
1,3-Dichlorobenzene, ug/kg dw	330U	---	---	---	---
1,4-Dichlorobenzene, ug/kg dw	330U	950	920	1700	56 %
1,2-Dichlorobenzene, ug/kg dw	330U	---	---	---	---
2-Methylphenol (o-Cresol), ug/kg dw	330U	---	---	---	---
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	330U	---	---	---	---
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/kg dw	330U	---	---	---	---
N-Nitroso-di-n-propylamine, ug/kg dw	330U	700	650	1700	41 %
Hexachloroethane, ug/kg dw	330U	---	---	---	---
Nitrobenzene, ug/kg dw	330U	---	---	---	---
Isophorone, ug/kg dw	330U	---	---	---	---

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73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
2-Nitrophenol, ug/kg dw	330U	---	---	---	---
2,4-Dimethylphenol, ug/kg dw	330U	---	---	---	---
bis(2-Chloroethoxy)methane, ug/kg dw	330U	---	---	---	---
2,4-Dichlorophenol, ug/kg dw	330U	---	---	---	---
1,2,4-Trichlorobenzene, ug/kg dw	330U	890	860	1700	52 %
Naphthalene, ug/kg dw	330U	---	---	---	---
4-Chloroaniline, ug/kg dw	660U	---	---	---	---
Hexachlorobutadiene, ug/kg dw	330U	---	---	---	---
4-Chloro-3-methylphenol, ug/kg dw	330U	2000	1900	3300	61 %
2-Methylnaphthalene, ug/kg dw	330U	---	---	---	---
Hexachlorocyclopentadiene, ug/kg dw	330U	---	---	---	---
2,4,6-Trichlorophenol, ug/kg dw	330U	---	---	---	---
2,4,5-Trichlorophenol, ug/kg dw	330U	---	---	---	---
2-Chloronaphthalene, ug/kg dw	330U	---	---	---	---
2-Nitroaniline, ug/kg dw	1700U	---	---	---	---
Dimethylphthalate, ug/kg dw	330U	---	---	---	---
Acenaphthylene, ug/kg dw	330U	---	---	---	---

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73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
2,6-Dinitrotoluene, ug/kg dw	330U	---	---	---	---
3-Nitroaniline, ug/kg dw	1700U	---	---	---	---
Acenaphthene, ug/kg dw	330U	800	790	1700	47 %
2,4-Dinitrophenol, ug/kg dw	1700U	---	---	---	---
4-Nitrophenol, ug/kg dw	1700U	2000	2000	3300	61 %
Dibenzofuran, ug/kg dw	330U	---	---	---	---
2,4-Dinitrotoluene, ug/kg dw	330U	970	1000	1700	57 %
Diethylphthalate, ug/kg dw	330U	---	---	---	---
4-Chlorophenylphenyl ether, ug/kg dw	330U	---	---	---	---
Fluorene, ug/kg dw	330U	---	---	---	---
4-Nitroaniline, ug/kg dw	1700U	---	---	---	---
4,6-Dinitro-2-methylphenol, ug/kg dw	1700U	---	---	---	---
N-Nitrosodiphenylamine, ug/kg dw	330U	---	---	---	---
4-Bromophenylphenyl ether, ug/kg dw	330U	---	---	---	---
Hexachlorobenzene, ug/kg dw	330U	---	---	---	---
Pentachlorophenol, ug/kg dw	1700U	1700	1500	3300	52 %

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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Phenanthrene, ug/kg dw	330U	---	---	---	---
Anthracene, ug/kg dw	330U	---	---	---	---
Carbazole, ug/kg dw	330U	---	---	---	---
Di-n-butylphthalate, ug/kg dw	330U	---	---	---	---
Fluoranthene, ug/kg dw	330U	---	---	---	---
Pyrene, ug/kg dw	330U	1200	1200	1700	70 %
Butylbenzylphthalate, ug/kg dw	330U	---	---	---	---
3,3'-Dichlorobenzidine, ug/kg dw	660U	---	---	---	---
Benzo(a)anthracene, ug/kg dw	330U	---	---	---	---
Chrysene, ug/kg dw	330U	---	---	---	---
bis(2-Ethylhexyl)phthalate, ug/kg dw	330U	---	---	---	---
Di-n-octylphthalate, ug/kg dw	330U	---	---	---	---
Benzo(b)fluoranthene, ug/kg dw	330U	---	---	---	---
Benzo(k)fluoranthene, ug/kg dw	330U	---	---	---	---
Benzo(a)pyrene, ug/kg dw	330U	---	---	---	---
Indeno(1,2,3-cd)pyrene, ug/kg dw	330U	---	---	---	---
Dibenzo(a,h)anthracene, ug/kg dw	330U	---	---	---	---
Benzo(g,h,i)perylene, ug/kg dw	330U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Surrogate - 2-Fluorophenol	67 %	61 %	61 %	---	---
Surrogate - Phenol-d5	73 %	64 %	61 %	---	---
Surrogate - Nitrobenzene - d5	70 %	65 %	65 %	---	---
Surrogate - 2-Fluorobiphenyl	65 %	65 %	59 %	---	---
Surrogate - 2,4,6-Tribromophenol	73 %	67 %	67 %	---	---
Surrogate - Terphenyl-d14	88 %	82 %	82 %	---	---
Prep Date	09.16.03	09.16.03	09.16.03	---	---
Analysis Date	09.16.03	09.16.03	09.16.03	---	---
Batch ID	SM091603I	SM091603I	SM091603I	SM091603I	SM091603I

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73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Polynuclear Aromatics (8270)					
Acenaphthene, ug/kg dw	6.7U	93	67	130	72 %
Acenaphthylene, ug/kg dw	6.7U	---	---	---	---
Anthracene, ug/kg dw	6.7U	---	---	---	---
Benzo(a)anthracene, ug/kg dw	6.7U	---	---	---	---
Benzo(a)pyrene, ug/kg dw	6.7U	89	67	130	68 %
Benzo(b)fluoranthene, ug/kg dw	6.7U	---	---	---	---
Benzo(g,h,i)perylene, ug/kg dw	6.7U	---	---	---	---
Benzo(k)fluoranthene, ug/kg dw	6.7U	---	---	---	---
Chrysene, ug/kg dw	6.7U	---	---	---	---
Dibenzo(a,h)anthracene, ug/kg dw	6.7U	---	---	---	---
Fluoranthene, ug/kg dw	6.7U	---	---	---	---
Fluorene, ug/kg dw	6.7U	93	70	130	72 %
Indeno(1,2,3-cd)pyrene, ug/kg dw	6.7U	---	---	---	---
Naphthalene, ug/kg dw	6.7U	65	66	130	65 %
Phenanthrene, ug/kg dw	6.7U	---	---	---	---
Pyrene, ug/kg dw	6.7U	100	75	130	77 %
1-Methylnaphthalene, ug/kg dw	6.7U	---	---	---	---
2-Methylnaphthalene, ug/kg dw	6.7U	---	---	---	---
Surrogate - o-Terphenyl	75 %	75 %	55 %	---	---
Prep Date	09.12.03	09.12.03	09.12.03	---	---
Analysis Date	09.15.03	09.16.03	09.16.03	---	---
Batch ID	SM091203H	SM091203H	SM091203H	SM091203H	SM091203H

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Petroleum Range Organics (FL-PRO)					
Petroleum Hydrocarbons , mg/kg dw	10U	49	45	91	54 %
Surrogate, o-Terphenyl	79 %	82 %	52 %	---	---
Surrogate-C39	67 %	66 %	45 %	---	---
Prep Date	09.12.03	09.12.03	09.12.03	---	---
Analysis Date	09.16.03	09.16.03	09.16.03	---	---
Batch ID	SG091203I	SG091203I	SG091203I	SG091203I	SG091203I

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73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
TCL - Pesticides/PCB's (8081/8082)					
alpha-BHC, ug/kg dw	1.7U	---	---	---	---
beta-BHC, ug/kg dw	1.7U	---	---	---	---
delta-BHC, ug/kg dw	1.7U	---	---	---	---
gamma-BHC (Lindane), ug/kg dw	1.7U	0.93	1.3	3.3	28 %
Heptachlor, ug/kg dw	1.7U	1.4	1.9	3.3	42 %
Aldrin, ug/kg dw	1.7U	1.2	1.7	3.3	36 %
Heptachlor epoxide, ug/kg dw	1.7U	---	---	---	---
Endosulfan I, ug/kg dw	1.7U	---	---	---	---
Dieldrin, ug/kg dw	3.3U	4.0	4.7	8.3	48 %
4,4'-DDE, ug/kg dw	3.3U	---	---	---	---
Endrin, ug/kg dw	3.3U	4.3	4.9	8.3	52 %
Endosulfan II, ug/kg dw	3.3U	---	---	---	---
4,4'-DDD, ug/kg dw	3.3U	---	---	---	---
Endosulfan sulfate, ug/kg dw	3.3U	---	---	---	---
4,4'-DDT, ug/kg dw	3.3U	5.7	6.2	8.3	69 %
Methoxychlor, ug/kg dw	17U	---	---	---	---
Endrin ketone, ug/kg dw	3.3U	---	---	---	---
Endrin aldehyde, ug/kg dw	3.3U	---	---	---	---

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73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
alpha-Chlordane, ug/kg dw	1.7U	---	---	---	---
gamma-Chlordane, ug/kg dw	1.7U	---	---	---	---
Toxaphene, ug/kg dw	170U	---	---	---	---
Aroclor-1016, ug/kg dw	33U	---	---	---	---
Aroclor-1221, ug/kg dw	67U	---	---	---	---
Aroclor-1232, ug/kg dw	33U	---	---	---	---
Aroclor-1242, ug/kg dw	33U	---	---	---	---
Aroclor-1248, ug/kg dw	33U	---	---	---	---
Aroclor-1254, ug/kg dw	33U	---	---	---	---
Aroclor-1260, ug/kg dw	33U	---	---	---	---
Surrogate - Dibutyl Chlorendate	58 %	79 %	82 %	---	---
Surrogate - Tetrachloro-m-xylene	22 %*F99	33 %	45 %	---	---
Surrogate - Decachlorobiphenyl	58 %	82 %	82 %	---	---
Prep Date	09.16.03	09.16.03	09.16.03	---	---
Analysis Date	09.16.03	09.16.03	09.16.03	---	---
Batch ID	SG091603H	SG091603H	SG091603H	SG091603H	SG0091603H

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REPORT OF RESULTS

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73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Chlorinated Herbicides (8151)					
Bentazon, ug/kg dw	35U	---	---	---	---
2,4-D, ug/kg dw	8.3U	21	18	28	75 %
Dalapon, ug/kg dw	2000U	---	---	---	---
2,4-DB, ug/kg dw	8.3U	---	---	---	---
Dicamba, ug/kg dw	20U	---	---	---	---
Dichloroprop, ug/kg dw	100U	---	---	---	---
Dinoseb, ug/kg dw	100U	---	---	---	---
MCPA[(4-chloro-2-methylphen oxy)-acetic acid], ug/kg dw	2000U	---	---	---	---
MCPP[2-(4-chloro-2-methylph enoxy)-propanoic acid], ug/kg dw	2000U	---	---	---	---
Pentachlorophenol, ug/kg dw	17U	---	---	---	---
Picloram, ug/kg dw	3.3U	---	---	---	---
2,4,5-TP (Silvex), ug/kg dw	8.3U	25	19	28	89 %
2,4,5-T, ug/kg dw	8.3U	27	22	28	96 %
Surrogate-2,4-Dichloropheny l acetic acid (DCAA)	90 %	91 %	64 %	---	---
Prep Date	09.12.03	09.12.03	09.12.03	---	---
Analysis Date	09.16.03	09.16.03	09.16.03	---	---
Batch ID	SG091203L	SG091203L	SG091203L	SG091203L	SG091203L

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Project: JETC and Building 271
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
TAL Metals (6010)					
Aluminum, mg/kg dw	20U	190	190	200	95 %
Antimony, mg/kg dw	2.0U	47	48	50	94 %
Arsenic, mg/kg dw	1.0U	180	190	200	90 %
Barium, mg/kg dw	1.0U	200	200	200	100 %
Beryllium, mg/kg dw	0.40U	4.9	5.0	5.0	98 %
Cadmium, mg/kg dw	0.50U	4.9	5.0	5.0	98 %
Calcium, mg/kg dw	50U	470	480	500	94 %
Chromium, mg/kg dw	1.0U	20	21	20	100 %
Cobalt, mg/kg dw	1.0U	50	51	50	100 %
Copper, mg/kg dw	2.0U	26	27	25	104 %
Iron, mg/kg dw	5.0U	100	100	100	100 %
Lead, mg/kg dw	0.50U	48	49	50	96 %
Magnesium, mg/kg dw	50U	450	460	500	90 %
Manganese, mg/kg dw	1.0U	50	51	50	100 %
Nickel, mg/kg dw	4.0U	50	50	50	100 %
Potassium, mg/kg dw	100U	460	460	500	92 %
Selenium, mg/kg dw	1.0U	180	180	200	90 %
Silver, mg/kg dw	1.0U	5.5	5.8	5.0	110 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-2	Method Blank		JETC02
73964-5	Lab Control Standard Result		JETC02
73964-6	Lab Control Standard Duplicate Result		JETC02
73964-7	Spike Amount Added, LCS/LCSD		JETC02
73964-8	Lab Control Standard % Recovery		JETC02

PARAMETER	73964-2	73964-5	73964-6	73964-7	73964-8
Sodium, mg/kg dw	50U	530	540	500	106 %
Thallium, mg/kg dw	1.0U	200	200	200	100 %
Vanadium, mg/kg dw	1.0U	53	54	50	106 %
Zinc, mg/kg dw	2.0U	48	48	50	96 %
Prep Date	09.12.03	09.12.03	09.12.03	---	---
Analysis Date	09.12.03	09.12.03	09.12.03	---	---
Batch ID	ME091203C	ME091203C	ME091203C	ME091203C	ME091203C
Mercury (7471), mg/kg dw	0.020U	0.19	0.19	0.20	95 %
Prep Date	09.15.03	09.15.03	09.15.03	---	---
Analysis Date	09.15.03	09.15.03	09.15.03	---	---
Batch ID	ME091503R	ME091503R	ME091503R	ME091503R	ME091503R

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12
TCL Volatiles by GC/MS (8260)				
1,1-Dichloroethene, %	96 %	40-164 %	9.9 %	<46 %
Trichloroethene, %	84 %	51-146 %	11 %	<34 %
Benzene, %	90 %	49-142 %	6.4 %	<42 %
Toluene, %	90 %	38-158 %	8.5 %	<32 %
Chlorobenzene, %	90 %	66-135 %	12 %	<34 %
Surrogate - Dibromofluoromethane	---	58-142 %	---	---
Surrogate - Toluene-d8	---	64-136 %	---	---
Surrogate - 4-Bromofluorobenzene	---	63-135 %	---	---
Batch ID	VM091103M	---	VM091103M	---

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12
TCL - Semivolatiles (8270)				
Phenol, %	58 %	13-115 %	0 %	<39 %
2-Chlorophenol, %	52 %	15-111 %	11 %	<38 %
1,4-Dichlorobenzene, %	54 %	10-105 %	3.2 %	<31 %
N-Nitroso-di-n-propylamine, %	38 %	11-122 %	7.4 %	<37 %
1,2,4-Trichlorobenzene, %	50 %	10-112 %	3.4 %	<22 %
4-Chloro-3-methylphenol, %	58 %	22-114 %	5.1 %	<32 %
Acenaphthene, %	46 %	18-123 %	1.2 %	<49 %
4-Nitrophenol, %	61 %	15-118 %	0 %	<57 %
2,4-Dinitrotoluene, %	59 %	11-120 %	3.0 %	<37 %
Pentachlorophenol, %	45 %	10-140 %	12 %	<55 %
Pyrene, %	70 %	10-133 %	0 %	<42 %
Surrogate - 2-Fluorophenol	---	16-113 %	---	---
Surrogate - Phenol-d5	---	19-114 %	---	---
Surrogate - Nitrobenzene - d5	---	20-120 %	---	---
Surrogate - 2-Fluorobiphenyl	---	30-120 %	---	---
Surrogate - 2,4,6-Tribromophenol	---	23-129 %	---	---
Surrogate - Terphenyl-d14	---	30-131 %	---	---
Batch ID	SM091603I	---	SM091603I	---

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73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12
Polynuclear Aromatics (8270)				
Acenaphthene, %	52 %	18-123 %	32 %	<49 %
Benzo(b)fluoranthene, %	52 %	---	---	---
Fluorene, %	70 %	27-151 %	28 %	<50 %
Naphthalene, %	51 %	25-131 %	25 %	<34 %
Pyrene, %	58 %	10-133 %	28 %	<42 %
Benzo(a)pyrene, %	---	41-142 %	28 %	<55 %
Surrogate - o-Terphenyl	---	30-130 %	---	---
Batch ID	SM091203H	---	SM091203H	---
Petroleum Range Organics (FL-PRO)				
Petroleum Hydrocarbons , %	49 %	26-116 %	8.5 %	<25 %
Surrogate, o-Terphenyl	---	15-154 %	---	---
Surrogate-C39	---	30-118 %	---	---
Batch ID	SG091203I	---	SG091203I	---

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12
TCL - Pesticides/PCB's (8081/8082)				
gamma-BHC (Lindane), ug/l	39 %	12-138 %	33 %	<37 %
Heptachlor, ug/l	58 %	17-138 %	30 %	<38 %
Aldrin, ug/l	52 %	10-144 %	34 %	<38 %
Dieldrin, ug/l	57 %	28-137 %	16 %	<30 %
Endrin, ug/l	59 %	33-149 %	13 %	<32 %
4,4'-DDT, ug/l	75 %	29-134 %	8.4 %	<26 %
Surrogate - Dibutyl Chlorendate	---	30-150 %	---	---
Surrogate - Tetrachloro-m-xylene	---	30-150 %	---	---
Surrogate - Decachlorobiphenyl	---	30-150 %	---	---
Batch ID	SG091603H	---	SG091603H	---
Chlorinated Herbicides (8151)				
2,4-D, %	64 %	19-153 %	15 %	<47 %
2,4,5-TP (Silvex), %	68 %	27-120 %	27 %	<51 %
2,4,5-T, %	78 %	14-143 %	20 %	<59 %
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	---	30-189 %	---	---
Batch ID	SG091203L	---	SG091203L	---

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12
TAL Metals (6010)				
Aluminum, %	95 %	75-125 %	0 %	<20 %
Antimony, %	96 %	75-125 %	2.1 %	<20 %
Arsenic, %	95 %	75-125 %	5.4 %	<20 %
Barium, %	100 %	75-125 %	0 %	<20 %
Beryllium, %	100 %	75-125 %	2.0 %	<20 %
Cadmium, %	100 %	75-125 %	2.0 %	<20 %
Calcium, %	96 %	75-125 %	2.1 %	<20 %
Chromium, %	105 %	75-125 %	4.9 %	<20 %
Cobalt, %	102 %	75-125 %	2.0 %	<20 %
Copper, %	108 %	75-125 %	3.8 %	<20 %
Iron, %	100 %	75-125 %	0 %	<20 %
Lead, %	98 %	75-125 %	2.1 %	<20 %
Magnesium, %	92 %	75-125 %	2.2 %	<20 %
Manganese, %	102 %	75-125 %	2.0 %	<20 %
Nickel, %	100 %	75-125 %	0 %	<20 %
Potassium, %	92 %	75-125 %	0 %	<20 %
Selenium, %	90 %	75-125 %	0 %	<20 %
Silver, %	116 %	75-125 %	5.3 %	<20 %
Sodium, %	108 %	75-125 %	1.9 %	<20 %
Thallium, %	100 %	75-125 %	0 %	<20 %
Vanadium, %	108 %	75-125 %	1.9 %	<20 %
Zinc, %	96 %	75-125 %	0 %	<20 %
Batch ID	ME091203C	---	ME091203C	---

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12
Mercury (7471), %	95 %	80-120 %	0 %	<20 %
Batch ID	ME092503R	---	ME091503R	---

LOG NO: T3-73964
Received: 10 SEP 03
Reported: 18 SEP 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 174430918

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
73964-9	Lab Control Standard Duplicate % Recovery		JETC02
73964-10	LCS Accuracy Control Limit (%R)		JETC02
73964-11	Precision (%RPD) of LCS/LCSD		JETC02
73964-12	LCS Precision Control Limit (Advisory) %RPD		JETC02

PARAMETER	73964-9	73964-10	73964-11	73964-12

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Method: EPA SW-846, Update III; FL-PRO

Florida Department of Health Certification No.: E81005

U = Compound was not detected; result is less than the project quantitation limit or if estimated results (J flags) are to be reported, less than the MDL.

*F65 = Elevated detection limits were reported due to sample matrix interference which required sample or extract dilution.

*F86 = Because spikes are not appropriate for this method, reported precision was calculated from duplicate analysis of a sample in the batch.

*F99 = Surrogate recovery is outside established limits. Two of the three surrogates being evaluated were within the limits; therefore, no corrective action was taken.

*F36 = Surrogate recovery is outside the established limit due to matrix interference in the sample.

* Reported down to the Method Detection Limit.

DATA DELIVERABLES

pH
Methods 150.1/9045

CASE NARRATIVE

CASE NARRATIVE
PH

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: 150.1
Cleanup: N/A
Analysis: 150.1

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

RAW DATA

pH
EPA Method 9045 (Soils)

DATE: 09.10.03

Time	Analyst	Batch ID	Lot#	Sample ID	pH Units	Temp °C	Acceptance Criteria
1530	MR	GE091003HS	QC Check	ERA 77079	9.12	22.3	+/- 0.20 pH units
			Blank	Di H2O	8.84	22.3	
			T373964	86LRCS	8.38	23.0	
						MR 091103	
1530	MR	GE091003HS	Lab Dup	86LRCS	8.46	22.5	<40% RPD
			QC Check	Buffer 7	6.99	22.2	+/- 0.10 pH units
			Blank	Di H2O	9.05	22.0	
							MR 091103
			Lab Dup				<40% RPD
			QC Check	Buffer 7			+/- 0.10 pH units
			Blank	Di H2O			
			Lab Dup				<40% RPD
			QC Check	Buffer 7			+/- 0.10 pH units
			Blank	Di H2O			

145

39

$$\%RPD = \frac{H1 - H2}{\frac{H1 + H2}{2}} \times 100$$

[H+] = antilog pH -1

H1 & H2 = hydrogen ion conc. [H+]

FGE00P2-T:06.14.01:2

STL Tallahassee

TAL METALS and MERCURY
Method 6010/ 7470

CASE NARRATIVE

CASE NARRATIVE
TAL METALS

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3005
Cleanup: N/A
Analysis: SW-846 6010/7471

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental

SDG No.: JETC02 **Method Type:** SW846 **SOW No.:** SW846

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Lab Sample ID	Client Sample ID	QC Description
T373964-1	086-LRC-S-0909-03	

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before applications of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmetal

SDG No.: JETC02 Method Type: SW846 SOW No.: SW846

Contract: Lab Code: STLTAL Case No.: SAS No.:

Lab Sample ID	Client Sample ID	QC Description
T373964-1	086-LRC-S-0909-03	

Were ICP interelement corrections applied?	Yes/No	Yes
Were ICP background corrections applied?	Yes/No	Yes
If yes - were raw data generated before applications of background corrections?	Yes/No	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or

Signature: Name:

Date: Title:

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental **SDG No.:** JETC02 **Method Type:** SW846

Sample ID: T373964-1 **Client ID:** 086-LRC-S-0909-03

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Date Received:** 9/10/03 **Level:** LOW

% Solids: 96

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	710.00	mg/Kg dw			P	6.00	TJA61E Trace	091203
7440-36-0	Antimony	2.10	mg/Kg dw	U		P	0.52	TJA61E Trace	091203
7440-38-2	Arsenic	1.10	mg/Kg dw			P	0.47	TJA61E Trace	091203
7440-39-2	Barium	3.40	mg/Kg dw			P	0.17	TJA61E Trace	091203
7440-41-7	Beryllium	0.41	mg/Kg dw	U		P	0.06	TJA61E Trace	091203
7440-43-9	Cadmium	0.52	mg/Kg dw	U		P	0.09	TJA61E Trace	091203
7440-70-2	Calcium	390000.00	mg/Kg dw			P	2100.00	TJA61E Trace	091203
7440-47-3	Chromium	3.20	mg/Kg dw			P	0.18	TJA61E Trace	091203
7440-48-4	Cobalt	1.00	mg/Kg dw	U		P	0.20	TJA61E Trace	091203
7440-50-8	Copper	2.10	mg/Kg dw	U		P	0.74	TJA61E Trace	091203
7439-89-6	Iron	250.00	mg/Kg dw			P	4.70	TJA61E Trace	091203
7439-92-1	Lead	1.00	mg/Kg dw	U		P	0.87	TJA61E Trace	091203
7439-95-4	Magnesium	1100.00	mg/Kg dw			P	7.00	TJA61E Trace	091203
7439-96-5	Manganese	3.50	mg/Kg dw			P	0.22	TJA61E Trace	091203
7440-02-0	Nickel	1.90	mg/Kg dw	B		P	0.44	TJA61E Trace	091203
7440-09-7	Potassium	120.00	mg/Kg dw			P	17.00	TJA61E Trace	091203
7782-49-2	Selenium	0.62	mg/Kg dw	B		P	0.44	TJA61E Trace	091203
7440-22-4	Silver	0.30	mg/Kg dw	B		P	0.20	TJA61E Trace	091203
7440-23-5	Sodium	1200.00	mg/Kg dw			P	51.00	TJA61E Trace	091203
7440-28-0	Thallium	1.00	mg/Kg dw	U		P	0.59	TJA61E Trace	091203
7440-62-2	Vanadium	1.90	mg/Kg dw			P	0.11	TJA61E Trace	091203
7440-66-6	Zinc	2.10	mg/Kg dw	U		P	1.00	TJA61E Trace	091203

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmetal **SDG No.:** JETC02 **Method Type:** SW846

Sample ID: T373964-1 **Client ID:** 086-LRC-S-0909-03

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Date Received:** 9/10/03 **Level:** LOW

% Solids: 96

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-97-6	Mercury	0.020	mg/Kg dw		U	CV	0.003	CVA	0915CVSS

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After** **Artifacts:**

Comments:

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Aluminum	1900.00	2000.00	95	90.0 - 110.0	P	9/12/03	09:23	091203
	Antimony	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Arsenic	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Barium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Beryllium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Cadmium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Calcium	2100.00	2000.00	105	90.0 - 110.0	P	9/12/03	09:23	091203
	Chromium	2100.00	2000.00	105	90.0 - 110.0	P	9/12/03	09:23	091203
	Cobalt	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Copper	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Iron	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Lead	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Magnesium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Manganese	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Nickel	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Potassium	21000.00	20000.00	105	90.0 - 110.0	P	9/12/03	09:23	091203
	Selenium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Silver	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Sodium	17000.00	17000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Thallium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Vanadium	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203
	Zinc	2000.00	2000.00	100	90.0 - 110.0	P	9/12/03	09:23	091203

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Arsenic	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Iron	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Lead	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Selenium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:24	091203

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV2									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Arsenic	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Iron	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	11:47	091203
	Lead	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	11:47	091203
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Selenium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	11:47	091203
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	11:47	091203

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV4									
	Aluminum	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Antimony	950.00	1000.00	95	90.0 - 110.0	P	9/12/03	14:28	091203
	Arsenic	950.00	1000.00	95	90.0 - 110.0	P	9/12/03	14:28	091203
	Barium	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Beryllium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	14:28	091203
	Cadmium	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Calcium	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Chromium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	14:28	091203
	Cobalt	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	14:28	091203
	Iron	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	14:28	091203
	Lead	960.00	1000.00	96	90.0 - 110.0	P	9/12/03	14:28	091203
	Magnesium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	14:28	091203
	Manganese	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	14:28	091203
	Nickel	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Potassium	9700.00	10000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Selenium	960.00	1000.00	96	90.0 - 110.0	P	9/12/03	14:28	091203
	Silver	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	14:28	091203
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/12/03	14:28	091203
	Thallium	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	14:28	091203
	Vanadium	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	14:28	091203
	Zinc	960.00	1000.00	96	90.0 - 110.0	P	9/12/03	14:28	091203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV5									
	Aluminum	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	15:35	091203
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Arsenic	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Iron	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	15:35	091203
	Lead	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	15:35	091203
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Selenium	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	15:35	091203
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	15:35	091203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV6									
	Aluminum	960.00	1000.00	96	90.0 - 110.0	P	9/12/03	16:37	091203
	Antimony	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	16:37	091203
	Arsenic	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	16:37	091203
	Barium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Beryllium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Cadmium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Calcium	960.00	1000.00	96	90.0 - 110.0	P	9/12/03	16:37	091203
	Chromium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Cobalt	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Copper	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Iron	960.00	1000.00	96	90.0 - 110.0	P	9/12/03	16:37	091203
	Lead	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Magnesium	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	16:37	091203
	Manganese	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Nickel	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	16:37	091203
	Potassium	9800.00	10000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Selenium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Silver	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/12/03	16:37	091203
	Thallium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Vanadium	980.00	1000.00	98	90.0 - 110.0	P	9/12/03	16:37	091203
	Zinc	970.00	1000.00	97	90.0 - 110.0	P	9/12/03	16:37	091203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV7									
	Aluminum	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Antimony	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Arsenic	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	17:59	091203
	Barium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Beryllium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Cadmium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Calcium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Chromium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Cobalt	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Copper	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Iron	990.00	1000.00	99	90.0 - 110.0	P	9/12/03	17:59	091203
	Lead	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Magnesium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Manganese	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Nickel	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Potassium	10000.00	10000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Selenium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Silver	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Sodium	11000.00	11000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Thallium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Vanadium	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203
	Zinc	1000.00	1000.00	100	90.0 - 110.0	P	9/12/03	17:59	091203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Mercury	2.80	3.00	93.3	90.0 - 110.0	CV	9/15/03	12:20	0915CVSS
CCV1									
	Mercury	1.82	2.00	91.0	80.0 - 120.0	CV	9/15/03	12:49	0915CVSS

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Aluminum	230.00	200.00	115	50 - 150	P	9/12/03	10:41	091203
	Antimony	14.00	20.00	70	50 - 150	P	9/12/03	10:41	091203
	Arsenic	10.00	8.00	125	50 - 150	P	9/12/03	10:41	091203
	Barium	9.20	10.00	92	50 - 150	P	9/12/03	10:41	091203
	Beryllium	3.10	4.00	78	50 - 150	P	9/12/03	10:41	091203
	Cadmium	4.30	5.00	86	50 - 150	P	9/12/03	10:41	091203
	Calcium	500.00	500.00	100	50 - 150	P	9/12/03	10:41	091203
	Chromium	10.00	10.00	100	50 - 150	P	9/12/03	10:41	091203
	Cobalt	8.80	10.00	88	50 - 150	P	9/12/03	10:41	091203
	Copper	9.40	10.00	94	50 - 150	P	9/12/03	10:41	091203
	Iron	36.00	50.00	72	50 - 150	P	9/12/03	10:41	091203
	Lead	5.10	5.00	102	50 - 150	P	9/12/03	10:41	091203
	Magnesium	460.00	500.00	92	50 - 150	P	9/12/03	10:41	091203
	Manganese	10.00	10.00	100	50 - 150	P	9/12/03	10:41	091203
	Nickel	18.00	20.00	90	50 - 150	P	9/12/03	10:41	091203
	Potassium	940.00	1000.00	94	50 - 150	P	9/12/03	10:41	091203
	Selenium	14.00	10.00	140	50 - 150	P	9/12/03	10:41	091203
	Silver	7.40	5.00	148	50 - 150	P	9/12/03	10:41	091203
	Thallium	10.00	10.00	100	50 - 150	P	9/12/03	10:41	091203
	Vanadium	12.00	10.00	120	50 - 150	P	9/12/03	10:41	091203
	Zinc	20.00	20.00	100	50 - 150	P	9/12/03	10:41	091203
CRDL2									
	Sodium	350.00	500.00	70	50 - 150	P	9/12/03	10:57	091203

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL3									
	Aluminum	210.00	200.00	105	50 - 150	P	9/12/03	17:33	091203
	Antimony	23.00	20.00	115	50 - 150	P	9/12/03	17:33	091203
	Barium	10.00	10.00	100	50 - 150	P	9/12/03	17:33	091203
	Beryllium	2.90	4.00	72	50 - 150	P	9/12/03	17:33	091203
	Cadmium	5.20	5.00	104	50 - 150	P	9/12/03	17:33	091203
	Calcium	470.00	500.00	94	50 - 150	P	9/12/03	17:33	091203
	Chromium	11.00	10.00	110	50 - 150	P	9/12/03	17:33	091203
	Cobalt	9.60	10.00	96	50 - 150	P	9/12/03	17:33	091203
	Copper	8.70	10.00	87	50 - 150	P	9/12/03	17:33	091203
	Lead	4.90	5.00	98	50 - 150	P	9/12/03	17:33	091203
	Magnesium	470.00	500.00	94	50 - 150	P	9/12/03	17:33	091203
	Manganese	10.00	10.00	100	50 - 150	P	9/12/03	17:33	091203
	Nickel	19.00	20.00	95	50 - 150	P	9/12/03	17:33	091203
	Potassium	1100.00	1000.00	110	50 - 150	P	9/12/03	17:33	091203
	Selenium	12.00	10.00	120	50 - 150	P	9/12/03	17:33	091203
	Silver	4.30	5.00	86	50 - 150	P	9/12/03	17:33	091203
	Sodium	680.00	500.00	136	50 - 150	P	9/12/03	17:33	091203
	Thallium	8.00	10.00	80	50 - 150	P	9/12/03	17:33	091203
	Vanadium	9.80	10.00	98	50 - 150	P	9/12/03	17:33	091203
	Zinc	20.00	20.00	100	50 - 150	P	9/12/03	17:33	091203
CRDL4									
	Arsenic	12.00	8.00	150	50 - 150	P	9/12/03	17:40	091203
	Iron	52.00	50.00	104	50 - 150	P	9/12/03	17:40	091203

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Mercury	0.207	0.20	103.5	50 - 150	CV	9/15/03	12:25	0915CVSS

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/12/03	09:35	091203
	Antimony	20.00	+/-20.00	U	5.00	20.00	P	9/12/03	09:35	091203
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/12/03	09:35	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	09:35	091203
	Beryllium	-0.64	+/-4.00	B	0.54	4.00	P	9/12/03	09:35	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	09:35	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	09:35	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	09:35	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	09:35	091203
	Copper	1.10	+/-20.00	B	0.90	20.00	P	9/12/03	09:35	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	09:35	091203
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/12/03	09:35	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	09:35	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	09:35	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	09:35	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	09:35	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	09:35	091203
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/12/03	09:35	091203
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/12/03	09:35	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	09:35	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	09:35	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	09:35	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB1										
	Aluminum	53.00	+/-200.00	B	27.00	200.00	P	9/12/03	11:27	091203
	Antimony	20.00	+/-20.00	U	5.00	20.00	P	9/12/03	11:27	091203
	Arsenic	4.90	+/-10.00	B	3.20	10.00	P	9/12/03	11:27	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	11:27	091203
	Beryllium	-0.60	+/-4.00	B	0.54	4.00	P	9/12/03	11:27	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	11:27	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	11:27	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	11:27	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	11:27	091203
	Copper	20.00	+/-20.00	U	0.90	20.00	P	9/12/03	11:27	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	11:27	091203
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/12/03	11:27	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	11:27	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	11:27	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	11:27	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	11:27	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	11:27	091203
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/12/03	11:27	091203
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/12/03	11:27	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	11:27	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	11:27	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	11:27	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB2										
	Aluminum	37.00	+/-200.00	B	27.00	200.00	P	9/12/03	11:50	091203
	Antimony	20.00	+/-20.00	U	5.00	20.00	P	9/12/03	11:50	091203
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/12/03	11:50	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	11:50	091203
	Beryllium	4.00	+/-4.00	U	0.54	4.00	P	9/12/03	11:50	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	11:50	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	11:50	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	11:50	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	11:50	091203
	Copper	20.00	+/-20.00	U	0.90	20.00	P	9/12/03	11:50	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	11:50	091203
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/12/03	11:50	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	11:50	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	11:50	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	11:50	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	11:50	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	11:50	091203
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/12/03	11:50	091203
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/12/03	11:50	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	11:50	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	11:50	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	11:50	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB4										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/12/03	14:33	091203
	Antimony	20.00	+/-20.00	U	5.00	20.00	P	9/12/03	14:33	091203
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/12/03	14:33	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	14:33	091203
	Beryllium	-0.78	+/-4.00	B	0.54	4.00	P	9/12/03	14:33	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	14:33	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	14:33	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	14:33	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	14:33	091203
	Copper	-1.80	+/-20.00	B	0.90	20.00	P	9/12/03	14:33	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	14:33	091203
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/12/03	14:33	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	14:33	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	14:33	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	14:33	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	14:33	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	14:33	091203
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/12/03	14:33	091203
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/12/03	14:33	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	14:33	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	14:33	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	14:33	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB5										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/12/03	15:38	091203
	Antimony	-7.30	+/-20.00	B	5.00	20.00	P	9/12/03	15:38	091203
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/12/03	15:38	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	15:38	091203
	Beryllium	-0.69	+/-4.00	B	0.54	4.00	P	9/12/03	15:38	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	15:38	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	15:38	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	15:38	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	15:38	091203
	Copper	-1.80	+/-20.00	B	0.90	20.00	P	9/12/03	15:38	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	15:38	091203
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/12/03	15:38	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	15:38	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	15:38	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	15:38	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	15:38	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	15:38	091203
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/12/03	15:38	091203
	Sodium	-310.00	+/-500.00	B	310.00	500.00	P	9/12/03	15:38	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	15:38	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	15:38	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	15:38	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB6										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/12/03	16:42	091203
	Antimony	-7.40	+/-20.00	B	5.00	20.00	P	9/12/03	16:42	091203
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/12/03	16:42	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	16:42	091203
	Beryllium	-0.60	+/-4.00	B	0.54	4.00	P	9/12/03	16:42	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	16:42	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	16:42	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	16:42	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	16:42	091203
	Copper	-2.50	+/-20.00	B	0.90	20.00	P	9/12/03	16:42	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	16:42	091203
	Lead	5.00	+/-5.00	U	1.50	5.00	P	9/12/03	16:42	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	16:42	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	16:42	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	16:42	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	16:42	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	16:42	091203
	Silver	2.40	+/-10.00	B	1.90	10.00	P	9/12/03	16:42	091203
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/12/03	16:42	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	16:42	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	16:42	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	16:42	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
CCB7										
	Aluminum	200.00	+/-200.00	U	27.00	200.00	P	9/12/03	18:04	091203
	Antimony	-8.80	+/-20.00	B	5.00	20.00	P	9/12/03	18:04	091203
	Arsenic	10.00	+/-10.00	U	3.20	10.00	P	9/12/03	18:04	091203
	Barium	10.00	+/-10.00	U	1.20	10.00	P	9/12/03	18:04	091203
	Beryllium	-0.89	+/-4.00	B	0.54	4.00	P	9/12/03	18:04	091203
	Cadmium	5.00	+/-5.00	U	0.71	5.00	P	9/12/03	18:04	091203
	Calcium	500.00	+/-500.00	U	44.00	500.00	P	9/12/03	18:04	091203
	Chromium	10.00	+/-10.00	U	1.70	10.00	P	9/12/03	18:04	091203
	Cobalt	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	18:04	091203
	Copper	-3.00	+/-20.00	B	0.90	20.00	P	9/12/03	18:04	091203
	Iron	50.00	+/-50.00	U	18.00	50.00	P	9/12/03	18:04	091203
	Lead	1.70	+/-5.00	B	1.50	5.00	P	9/12/03	18:04	091203
	Magnesium	500.00	+/-500.00	U	110.00	500.00	P	9/12/03	18:04	091203
	Manganese	10.00	+/-10.00	U	1.40	10.00	P	9/12/03	18:04	091203
	Nickel	40.00	+/-40.00	U	4.70	40.00	P	9/12/03	18:04	091203
	Potassium	1000.00	+/-1000.00	U	190.00	1000.00	P	9/12/03	18:04	091203
	Selenium	10.00	+/-10.00	U	4.20	10.00	P	9/12/03	18:04	091203
	Silver	10.00	+/-10.00	U	1.90	10.00	P	9/12/03	18:04	091203
	Sodium	500.00	+/-500.00	U	310.00	500.00	P	9/12/03	18:04	091203
	Thallium	10.00	+/-10.00	U	4.90	10.00	P	9/12/03	18:04	091203
	Vanadium	10.00	+/-10.00	U	2.20	10.00	P	9/12/03	18:04	091203
	Zinc	20.00	+/-20.00	U	5.90	20.00	P	9/12/03	18:04	091203

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
ICB1	Mercury	0.200	+/-0.200	U	0.072	0.200	CV	9/15/03	12:22	0915CVSS
CCB1	Mercury	0.200	+/-0.200	U	0.072	0.200	CV	9/15/03	12:51	0915CVSS

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/Kg	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
PBS			SOIL							
	Aluminum	20.00	+/-20.00	U	5.80	20.00	P	9/12/03	14:43	091203
	Antimony	2.00	+/-2.00	U	0.50	2.00	P	9/12/03	14:43	091203
	Arsenic	1.00	+/-1.00	U	0.45	1.00	P	9/12/03	14:43	091203
	Barium	1.00	+/-1.00	U	0.16	1.00	P	9/12/03	14:43	091203
	Beryllium	0.40	+/-0.40	U	0.06	0.40	P	9/12/03	14:43	091203
	Cadmium	0.50	+/-0.50	U	0.09	0.50	P	9/12/03	14:43	091203
	Calcium	50.00	+/-50.00	U	20.00	50.00	P	9/12/03	14:43	091203
	Chromium	1.00	+/-1.00	U	0.17	1.00	P	9/12/03	14:43	091203
	Cobalt	1.00	+/-1.00	U	0.19	1.00	P	9/12/03	14:43	091203
	Copper	2.00	+/-2.00	U	0.72	2.00	P	9/12/03	14:43	091203
	Iron	5.00	+/-5.00	U	4.50	5.00	P	9/12/03	14:43	091203
	Lead	0.50	+/-0.50	U	0.42	0.50	P	9/12/03	14:43	091203
	Magnesium	50.00	+/-50.00	U	6.80	50.00	P	9/12/03	14:43	091203
	Manganese	1.00	+/-1.00	U	0.21	1.00	P	9/12/03	14:43	091203
	Nickel	4.00	+/-4.00	U	0.43	4.00	P	9/12/03	14:43	091203
	Potassium	100.00	+/-100.00	U	16.00	100.00	P	9/12/03	14:43	091203
	Selenium	1.00	+/-1.00	U	0.43	1.00	P	9/12/03	14:43	091203
	Silver	1.00	+/-1.00	U	0.19	1.00	P	9/12/03	14:43	091203
	Sodium	50.00	+/-50.00	U	49.00	50.00	P	9/12/03	14:43	091203
	Thallium	1.00	+/-1.00	U	0.57	1.00	P	9/12/03	14:43	091203
	Vanadium	1.00	+/-1.00	U	0.11	1.00	P	9/12/03	14:43	091203
	Zinc	2.00	+/-2.00	U	0.98	2.00	P	9/12/03	14:43	091203

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/Kg	Acceptance Limit	Conc Qual	MDL	PQL	M	Analysis Date	Analysis Time	Run
PBS;0915R			**SOIL**							
	Mercury	0.020	+/-0.020	U	0.003	0.020	CV	9/15/03	12:27	0915CVSS

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental

SDG No.: JETC02

Contract:

Lab Code: STLTAL **Case No.:** **SAS No.:**

ICS Source:

Instrument ID: TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Aluminum	470000.00	500000.00	94.0	80 - 120	9/12/03	11:15	091203
	Antimony	13.00			100 - 100	9/12/03	11:15	091203
	Arsenic	-5.60			100 - 100	9/12/03	11:15	091203
	Barium	-0.12			100 - 100	9/12/03	11:15	091203
	Beryllium	-0.86			100 - 100	9/12/03	11:15	091203
	Cadmium	0.25			100 - 100	9/12/03	11:15	091203
	Calcium	480000.00	500000.00	96.0	80 - 120	9/12/03	11:15	091203
	Chromium	2.50			100 - 100	9/12/03	11:15	091203
	Cobalt	-1.30			100 - 100	9/12/03	11:15	091203
	Copper	1.90			100 - 100	9/12/03	11:15	091203
	Iron	190000.00	200000.00	95.0	80 - 120	9/12/03	11:15	091203
	Lead	3.00			100 - 100	9/12/03	11:15	091203
	Magnesium	530000.00	500000.00	106.0	80 - 120	9/12/03	11:15	091203
	Manganese	3.50			100 - 100	9/12/03	11:15	091203
	Nickel	-0.39			100 - 100	9/12/03	11:15	091203
	Potassium	2.80			100 - 100	9/12/03	11:15	091203
	Selenium	-3.50			100 - 100	9/12/03	11:15	091203
	Silver	2.80			100 - 100	9/12/03	11:15	091203
	Sodium	-140.00			100 - 100	9/12/03	11:15	091203
	Thallium	-5.60			100 - 100	9/12/03	11:15	091203
	Vanadium	4.90			100 - 100	9/12/03	11:15	091203
	Zinc	11.00			100 - 100	9/12/03	11:15	091203

INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental

SDG No.: JETC02

Contract:

Lab Code: STLTAL **Case No.:** **SAS No.:**

ICS Source:

Instrument ID: TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB1								
	Aluminum	490000.00	500000.00	98.0	80 - 120	9/12/03	11:32	091203
	Antimony	610.00	600.00	101.7	80 - 120	9/12/03	11:32	091203
	Arsenic	94.00	100.00	94.0	80 - 120	9/12/03	11:32	091203
	Barium	520.00	500.00	104.0	80 - 120	9/12/03	11:32	091203
	Beryllium	510.00	500.00	102.0	80 - 120	9/12/03	11:32	091203
	Cadmium	970.00	1000.00	97.0	80 - 120	9/12/03	11:32	091203
	Calcium	460000.00	500000.00	92.0	80 - 120	9/12/03	11:32	091203
	Chromium	500.00	500.00	100.0	80 - 120	9/12/03	11:32	091203
	Cobalt	480.00	500.00	96.0	80 - 120	9/12/03	11:32	091203
	Copper	530.00	500.00	106.0	80 - 120	9/12/03	11:32	091203
	Iron	200000.00	200000.00	100.0	80 - 120	9/12/03	11:32	091203
	Lead	970.00	1000.00	97.0	80 - 120	9/12/03	11:32	091203
	Magnesium	520000.00	500000.00	104.0	80 - 120	9/12/03	11:32	091203
	Manganese	510.00	500.00	102.0	80 - 120	9/12/03	11:32	091203
	Nickel	940.00	1000.00	94.0	80 - 120	9/12/03	11:32	091203
	Potassium	19.00			100 - 100	9/12/03	11:32	091203
	Selenium	48.000	50.00	96.00	80 - 120	9/12/03	11:32	091203
	Silver	1200.00	1000.00	120.0	80 - 120	9/12/03	11:32	091203
	Sodium	71.00			100 - 100	9/12/03	11:32	091203
	Thallium	90.000	100.00	90.0	80 - 120	9/12/03	11:32	091203
	Vanadium	510.00	500.00	102.0	80 - 120	9/12/03	11:32	091203
	Zinc	950.00	1000.00	95.0	80 - 120	9/12/03	11:32	091203

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-A2								
	Aluminum	490000.00	500000.00	98.0	80 - 120	9/12/03	17:45	091203
	Antimony	8.90			100 - 100	9/12/03	17:45	091203
	Arsenic	-2.90			100 - 100	9/12/03	17:45	091203
	Barium	-0.44			100 - 100	9/12/03	17:45	091203
	Beryllium	-1.20			100 - 100	9/12/03	17:45	091203
	Cadmium	1.30			100 - 100	9/12/03	17:45	091203
	Calcium	450000.00	500000.00	90.0	80 - 120	9/12/03	17:45	091203
	Chromium	1.60			100 - 100	9/12/03	17:45	091203
	Cobalt	-1.80			100 - 100	9/12/03	17:45	091203
	Copper	-0.58			100 - 100	9/12/03	17:45	091203
	Iron	190000.00	200000.00	95.0	80 - 120	9/12/03	17:45	091203
	Lead	-0.58			100 - 100	9/12/03	17:45	091203
	Magnesium	520000.00	500000.00	104.0	80 - 120	9/12/03	17:45	091203
	Manganese	3.00			100 - 100	9/12/03	17:45	091203
	Nickel	-0.66			100 - 100	9/12/03	17:45	091203
	Potassium	9.10			100 - 100	9/12/03	17:45	091203
	Selenium	1.40			100 - 100	9/12/03	17:45	091203
	Silver	-1.50			100 - 100	9/12/03	17:45	091203
	Sodium	-330.00			100 - 100	9/12/03	17:45	091203
	Thallium	-2.20			100 - 100	9/12/03	17:45	091203
	Vanadium	1.50			100 - 100	9/12/03	17:45	091203
	Zinc	11.00			100 - 100	9/12/03	17:45	091203

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INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window %Rec	Analysis Date	Analysis Time	Run Number
ICS-AB2								
	Aluminum	490000.00	500000.00	98.0	80 - 120	9/12/03	17:49	091203
	Antimony	600.00	600.00	100.0	80 - 120	9/12/03	17:49	091203
	Arsenic	89.00	100.00	89.0	80 - 120	9/12/03	17:49	091203
	Barium	520.00	500.00	104.0	80 - 120	9/12/03	17:49	091203
	Beryllium	510.00	500.00	102.0	80 - 120	9/12/03	17:49	091203
	Cadmium	970.00	1000.00	97.0	80 - 120	9/12/03	17:49	091203
	Calcium	450000.00	500000.00	90.0	80 - 120	9/12/03	17:49	091203
	Chromium	490.00	500.00	98.0	80 - 120	9/12/03	17:49	091203
	Cobalt	470.00	500.00	94.0	80 - 120	9/12/03	17:49	091203
	Copper	520.00	500.00	104.0	80 - 120	9/12/03	17:49	091203
	Iron	190000.00	200000.00	95.0	80 - 120	9/12/03	17:49	091203
	Lead	970.00	1000.00	97.0	80 - 120	9/12/03	17:49	091203
	Magnesium	520000.00	500000.00	104.0	80 - 120	9/12/03	17:49	091203
	Manganese	500.00	500.00	100.0	80 - 120	9/12/03	17:49	091203
	Nickel	940.00	1000.00	94.0	80 - 120	9/12/03	17:49	091203
	Potassium	61.00			100 - 100	9/12/03	17:49	091203
	Selenium	51.000	50.00	102.00	80 - 120	9/12/03	17:49	091203
	Silver	1200.00	1000.00	120.0	80 - 120	9/12/03	17:49	091203
	Sodium	83.00			100 - 100	9/12/03	17:49	091203
	Thallium	87.000	100.00	87.0	80 - 120	9/12/03	17:49	091203
	Vanadium	510.00	500.00	102.0	80 - 120	9/12/03	17:49	091203
	Zinc	930.00	1000.00	93.0	80 - 120	9/12/03	17:49	091203

DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmental **Level:** LOW **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Sample ID:** LCS **Client ID:** LCSD; S-2 ME091203C

Percent Solids for Sample: 100.00 **Duplicate ID:** LCSD **Percent Solids for Duplicate:** 100.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg		190		190		0		P
Antimony	mg/Kg		47		48		2.1		P
Arsenic	mg/Kg		180		190		5.4		P
Barium	mg/Kg		200		200		0		P
Beryllium	mg/Kg		4.9		5.0		2.0		P
Cadmium	mg/Kg		4.9		5.0		2.0		P
Calcium	mg/Kg		470		480		2.1		P
Chromium	mg/Kg		20		21		4.9		P
Cobalt	mg/Kg		50		51		2.0		P
Copper	mg/Kg		26		27		3.8		P
Iron	mg/Kg		100		100		0		P
Lead	mg/Kg		48		49		2.1		P
Magnesium	mg/Kg		450		460		2.2		P
Manganese	mg/Kg		50		51		2.0		P
Nickel	mg/Kg		50		50		0		P
Potassium	mg/Kg		460		460		0		P
Selenium	mg/Kg		180		180		0		P
Silver	mg/Kg		5.5		5.8		5.3		P
Sodium	mg/Kg		530		540		1.9		P
Thallium	mg/Kg		200		200		0		P
Vanadium	mg/Kg		53		54		1.9		P
Zinc	mg/Kg		48		48		0		P

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DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmetal **Level:** LOW **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Matrix: SOIL **Sample ID:** LCS;0915R **Client ID:** LCSD;0915R

Percent Solids for Sample: 100.00 **Duplicate ID:** LCSD;0915R **Percent Solids for Duplicate:** 100.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg		0.19		0.19		0.0		CV

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS								
	Aluminum	mg/Kg	200.000	190		95	75.0 - 125.0	P
	Antimony	mg/Kg	50.000	47		94	75.0 - 125.0	P
	Arsenic	mg/Kg	200.000	180		90	75.0 - 125.0	P
	Barium	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Beryllium	mg/Kg	5.000	4.9		98	75.0 - 125.0	P
	Cadmium	mg/Kg	5.000	4.9		98	75.0 - 125.0	P
	Calcium	mg/Kg	500.000	470		94	75.0 - 125.0	P
	Chromium	mg/Kg	20.000	20		100	75.0 - 125.0	P
	Cobalt	mg/Kg	50.000	50		100	75.0 - 125.0	P
	Copper	mg/Kg	25.000	26		104	75.0 - 125.0	P
	Iron	mg/Kg	100.000	100		100	75.0 - 125.0	P
	Lead	mg/Kg	50.000	48		96	75.0 - 125.0	P
	Magnesium	mg/Kg	500.000	450		90	75.0 - 125.0	P
	Manganese	mg/Kg	50.000	50		100	75.0 - 125.0	P
	Nickel	mg/Kg	50.000	50		100	75.0 - 125.0	P
	Potassium	mg/Kg	500.000	460		92	75.0 - 125.0	P
	Selenium	mg/Kg	200.000	180		90	75.0 - 125.0	P
	Silver	mg/Kg	5.000	5.5		110	75.0 - 125.0	P
	Sodium	mg/Kg	500.000	530		106	75.0 - 125.0	P
	Thallium	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Vanadium	mg/Kg	50.000	53		106	75.0 - 125.0	P
	Zinc	mg/Kg	50.000	48		96	75.0 - 125.0	P

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD								
	Aluminum	mg/Kg	200.000	190		95	75.0 - 125.0	P
	Antimony	mg/Kg	50.000	48		96	75.0 - 125.0	P
	Arsenic	mg/Kg	200.000	190		95	75.0 - 125.0	P
	Barium	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Beryllium	mg/Kg	5.000	5.0		100	75.0 - 125.0	P
	Cadmium	mg/Kg	5.000	5.0		100	75.0 - 125.0	P
	Calcium	mg/Kg	500.000	480		96	75.0 - 125.0	P
	Chromium	mg/Kg	20.000	21		105	75.0 - 125.0	P
	Cobalt	mg/Kg	50.000	51		102	75.0 - 125.0	P
	Copper	mg/Kg	25.000	27		108	75.0 - 125.0	P
	Iron	mg/Kg	100.000	100		100	75.0 - 125.0	P
	Lead	mg/Kg	50.000	49		98	75.0 - 125.0	P
	Magnesium	mg/Kg	500.000	460		92	75.0 - 125.0	P
	Manganese	mg/Kg	50.000	51		102	75.0 - 125.0	P
	Nickel	mg/Kg	50.000	50		100	75.0 - 125.0	P
	Potassium	mg/Kg	500.000	460		92	75.0 - 125.0	P
	Selenium	mg/Kg	200.000	180		90	75.0 - 125.0	P
	Silver	mg/Kg	5.000	5.8		116	75.0 - 125.0	P
	Sodium	mg/Kg	500.000	540		108	75.0 - 125.0	P
	Thallium	mg/Kg	200.000	200		100	75.0 - 125.0	P
	Vanadium	mg/Kg	50.000	54		108	75.0 - 125.0	P
	Zinc	mg/Kg	50.000	48		96	75.0 - 125.0	P

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS;0915R								
	Mercury	mg/Kg (	0.20	0.19		95	80.0 - 120.0	CV

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: **Lab Code:** STLTAL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Unit	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD;0915R								
	Mercury	mg/Kg (	0.20	0.19		95	80.0 - 120.0	CV

METHOD DETECTION LIMITS

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Analyte	Wave- length (nm)	MDL ug/L	PQL ug/L
TJA61E Trace			**Date:**
Aluminum	308.20	58.0	200.0
Antimony	206.80	5.0	20.0
Arsenic	193.60	4.5	10.0
Barium	455.40	1.6	10.0
Beryllium	313.00	0.6	4.0
Cadmium	228.80	0.9	5.0
Calcium	317.90	200.0	500.0
Chromium	267.70	1.7	10.0
Cobalt	228.60	1.9	10.0
Copper	324.70	7.2	20.0
Iron	259.90	45.0	50.0
Lead	220.30	4.2	5.0
Magnesium	279.00	68.0	500.0
Manganese	257.60	2.1	10.0
Nickel	231.60	4.3	40.0
Potassium	766.40	160.0	1000.0
Selenium	196.00	4.3	10.0
Silver	328.00	1.9	10.0
Sodium	330.20	490.0	500.0
Thallium	190.80	5.7	10.0
Vanadium	292.40	1.1	10.0
Zinc	206.20	9.8	20.0

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METHOD DETECTION LIMITS

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

	Analyte	Wave- length (nm)	MDL ug/L	PQL ug/L
CVA				Date:
	Mercury	253.70	0.0340	0.200

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ba
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000210	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001270	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.0009600
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0004880	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Cd	Co	Cr	Cu	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0039980	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0001660	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	-0.0001070	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0933920	0.0006990	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0004010	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	-0.0004990	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000410
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Mo	Ni	Sb	Sn	V
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0221630
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0003210	0.0000000	0.0000000	0.0000000	0.0002950
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0067400
Lead	220.35	-0.0003160	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-0.0336840	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	-0.0004500	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0015660	0.0000000	0.0000000
Vanadium	292.40	-0.0030720	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: TJA61E Trace **Date:** 7/8/03

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Zn	Th			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.84	0.0000000	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.40	0.0000000	0.0000000			
Beryllium	313.04	0.0000000	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.71	0.0000000	0.0000000			
Cobalt	228.61	0.0000000	0.0000000			
Copper	324.75	0.0000000	0.0000000			
Iron	271.44	0.0000000	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Molybdenum	202.00	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.06	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0000000			
Thallium	190.86	0.0000000	0.0000000			
Tin	189.98	0.0000000	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

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LINEAR RANGES

Client: Aerostar Environmental

SDG No.: JETC02

Contract:

Lab Code: STLTAL

Case No.:

SAS No.:

Instrument ID: TJA61E Trace

Date: 7/8/03

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10.00	1000000
Antimony	10.00	100000
Arsenic	10.00	30000
Barium	10.00	50000
Beryllium	10.00	15000
Cadmium	10.00	40000
Calcium	10.00	400000
Chromium	10.00	75000
Cobalt	10.00	75000
Copper	10.00	40000
Iron	10.00	200000
Lead	10.00	100000
Magnesium	10.00	500000
Manganese	10.00	10000
Nickel	10.00	10000
Potassium	10.00	40000
Selenium	10.00	50000
Silver	10.00	3000
Sodium	10.00	50000
Thallium	10.00	20000
Vanadium	10.00	20000
Zinc	10.00	10000

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LINEAR RANGES

Client: Aerostar Environmetal **SDG No.:** JETC02

Contract: _____ **Lab Code:** STLTAL **Case No.:** _____ **SAS No.:** _____

Instrument ID: CVA **Date:** _____

Analyte	Integration Time (sec)	LDR ug/L
Mercury		5

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SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmental

SDG No.: JETC02

Contract:

Lab Code: STLTAL

Method: P

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME091203C						
PBS	PBS; ME091203C	MB	SOIL	9/12/03	0.50	50.0	100.00
LCS	LCS; S-1 ME091203C	LCS	SOIL	9/12/03	0.50	50.0	100.00
LCSD	LCSD; S-2 ME091203C	LCSD	SOIL	9/12/03	0.50	50.0	100.00
T373964-1	086-LRC-S-0909-03	SAM	SOIL	9/12/03	0.50	50.0	96.00

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SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmetal

SDG No.: JETC02

Contract:

Lab Code: STLTAL

Method: CV

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME091503R						
PBS;0915R	PBS;0915R	MB	SOIL	9/15/03	0.62	50.0	100.00
LCS;0915R	LCS;0915R	LCS	SOIL	9/15/03	0.62	50.0	100.00
LCSD;0915R	LCSD;0915R	LCSD	SOIL	9/15/03	0.62	50.0	100.00
T373964-1	086-LRC-S-0909-03	SAM	SOIL	9/15/03	0.61	50.0	96.00

ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code STLTAL Case No.: SAS No.: SDG JETC02

Instrument ID Number: TJA61E Trace Method: P Run Number: 091203

Start Date: 9/12/03 End Date: 9/12/03

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	08:16		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1.00	08:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S2	1.00	08:18		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S3	1.00	08:19		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S4	1.00	08:20		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S5	1.00	08:21		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S6	1.00	08:22		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV1	1.00	09:23		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB1	1.00	09:35		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 4	1.00	09:53		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 3	1.00	09:59		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 2	1.00	10:20		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 5	1.00	10:29		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL1	1.00	10:41		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CRDL2	1.00	10:57																					X				
ICS-A1	1.00	11:15		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	11:24		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB1	1.00	11:27		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB1	1.00	11:32		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1.00	11:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB2	1.00	11:50		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV4	1.00	14:28		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB4	1.00	14:33		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.00	14:43		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS	1.00	14:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSD	1.00	15:00		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV5	1.00	15:35		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB5	1.00	15:38		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T373964-1	1.00	16:18		X	X	X	X	X	X		X	X	X	X		X	X		X	X	X	X	X	X	X	X	
T373964-1	2.00	16:25													X												
T373964-1	100.00	16:31								X																	
CCV6	1.00	16:37		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB6	1.00	16:42		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

-14-
ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code STLTAL Case No.: SAS No.: SDG JETC02

Instrument ID Number: TJA61E Trace Method: P Run Number: 091203

Start Date: 9/12/03 End Date: 9/12/03

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CRDL3	1.00	17:33		X	X		X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
CRDL4	1.00	17:40				X								X													
ICS-A2	1.00	17:45		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB2	1.00	17:49		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV7	1.00	17:59		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB7	1.00	18:04		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Client: Aerostar Environmetal Contract:

Lab Code STLTAL Case No.: SAS No.: SDG JETC02

Instrument ID Number: CVA Method: CV Run Number: 0915CVSS

Start Date: 9/15/03 End Date: 9/15/03

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV1	1.00	12:20																X									
ICB1	1.00	12:22																X									
CRDL1	1.00	12:25																X									
PBS;0915R	1.00	12:27																X									
LCS;0915R	1.00	12:29																X									
LCSD;0915R	1.00	12:32																X									
T373964-1	1.00	12:37																X									
CCV1	1.00	12:49																X									
CCB1	1.00	12:51																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

DIGESTION LOG(S)

DIGESTION SOLIDS

Job No: 278

Batch No: me091203C

Job Date: 09.12.03

ANALYSIS

ICP | AA | HG

FLAME | TCLP

MISC

Date/Time Started: 09-12-03 10:00

Date/Time Completed: ↓ 14:00

Analyst: SK

Method/SOP: 3050B 6010B 200.7

Final Volume: 50mL

Acid Lot #(s): HNO_3: 1-me-R0008

HCl: 1-me-R0007

95°#79 H_2O_2: 42331250

Hood: CW420066 Hot Block #1

Bath Temp(Hg only):

Final Project Check:

	ID	LOT#	AMT (mL)	INIT
Spike	1	1-me-50125	0.50	SK
Spike	2	16-3-85-3	↓	↓
Spike				
Spike		09-12-03		SK

SAMPLE ID/MTX/DESCRIPTION	D-D	SDG	BENCH	BEAKER#	WET WEIGHT(g)	DF	COMMENTS
1. T374001*1/SS/0073-FY(A)-55-12	09.15	RCSJ83	ICP		0.505		RM*NDPAEX| RUSH
2. T374001*2/SS/2165-BY-52-12	09.15	RCSJ83	ICP		0.509		RM*NDPAEX|
3. T374001*3/SS/2165-BY-55-12	09.15	RCSJ83	ICP		0.503		RM*NDPAEX|
4. T374001*4/SS/2629-LY-55-12	09.15	RCSJ83	ICP		0.509		RM*NDPAEX|
5. T374001*5/SS/4191-BY-55-12	09.15	RCSJ83	ICP		0.510		RM*NDPAEX|
6. T374001*6/SS/4191-FY-55-12	09.15	RCSJ83	ICP		0.500		RM*NDPAEX|
7. T374001*7/SS/4355-BY-55-12	09.15	RCSJ83	ICP		0.510		RM*NDPAEX|
8. T374001*8/SS/4355-FY-55-12	09.15	RCSJ83	ICP		0.506		RM*NDPAEX|
9. T374001*9/SS/4716-FY-55-12	09.15	RCSJ83	ICP		0.506		RM*NDPAEX|
10. T374001*10/SS/5031-FY-52-12	09.15	RCSJ83	ICP		0.510		RM*NDPAEX|
11. T374001*11/SS/5031-FY-55-12	09.15	RCSJ83	ICP		0.509		RM*NDPAEX|
12. T373964*1/SS/086-LRC-S-0909-03	09.16	JETC02	ICP		0.504		R*X|
13. T374002-1 TP-1 5'					0.506		
14. ↓ -? ↓ 10'					0.508		↓
15.							
16.							
17.							
18.							
19.							
20.							
Lab Blank					0.501		1-me-0112
Lab Spike #1					0.501		↓
Lab Spike #2					0.502		
Dup T374001-1					0.506		
MS					0.505		
MSD ↓					0.505		

09-12-03 SK

Comments: Dig. tube lot# 03-06-26-8984-263-108

6600

Severn Trent Laboratories, Inc.
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A part of Severn Trent plc

SL SOIL DIGESTION LOG

BATCH ID: ME091503R

LOG #'s: 74012, 73964

ANALYSIS METHOD: 7471

DIGESTION METHOD: 7471

DATE / TIME STARTED: 09.15.03 9.50 ANALYST: ED

DATE / TIME FINISHED: 09.15.03 10:20 ANALYST: ED

AQUA REGIA: 17-3-57-1

$KMnO_4$ LOT: 17-3-50-10

$K_2S_2O_8$ LOT: n/a 09.15.03

$NaCl/(NH_2OH_R)\cdot H_2SO_4$ LOTS: 17-3-50-3

$SnCl_2$: 17-3-51-2

DIGESTION TEMP: 95 °C

Digest. block #3 Hood: CK 441277 Therm #101

SPIKE SOLN #	NAME	ID	AMT ADDED	INITIALS
1	LCS work std.	14-3-53-9	0.50mL	ED
2	MS work Std	14-3-53-10	↓	↓
3		ED 09.15.03		
4				

	PROJECT ID	SAMPLE ID	BEAKER #	AMOUNT DIGESTED (g)	% SOLID	DRY WT (g)	FINAL VOLUME (ml)	COMMENTS
	ME091503R	LAB BLANK	n/a	0.620	100%	0.62	50mL	1-ME-042
	↓	SOIL LCS 1	↓	0.617	↓	↓	↓	LOT #: 1
	↓	SOIL LCS 2	↓	0.617	↓	↓	↓	LOT #: 1
1	T374012-2	33-1	↓	0.611	0il	0.61	↓	
2	T373964-1	086-LRCS	↓	0.610	96%	0.58	↓	
3								
4								
5								
7								
7								
8								
9			ED					
10								
11				09.15.03				
12								
13								
14								
15								
16								
17								
18								
19								
0						ED 09.16.03		
	T374012-2	DUP 33-1	n/a	0.607	0il ~~100%~~	0.61	50mL	
	↓	MS1	↓	0.604	↓	0.60	↓	SPIKE SOLN #: 2
	↓	MS2	↓	0.604	↓	0.60	↓	SPIKE SOLN #: 2

CHLORINATED HERBICIDES
Method 8151

CASE NARRATIVE

CASE NARRATIVE
GC CHLORINATED HERBICIDES

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8151

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16L010

Level: (low/med) LOW

Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/12/03

Concentrated Extract Volume: 5 (mL)

Date Analyzed: 09/16/03

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2100	U
93-65-2	MCPP	2100	U
1918-00-9	Dicamba	21	U
94-74-6	MCPA	2100	U
120-36-5	Dichlorprop	100	U
94-75-7	2,4-D	8.6	U
87-86-5	Pentachlorophenol	18	U
93-72-1	2,4,5-TP	8.6	U
93-76-5	2,4,5-T	8.6	U
88-85-7	Dinoseb	100	U
1918-02-1	Picloram	3.4	U
25057-89-0	Bentazon	36	U
94-82-6	2,4-DB	8.6	U

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0912LMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0912LMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16L005

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2000	U
93-65-2	MCPP	2000	U
1918-00-9	Dicamba	20	U
94-74-6	MCPA	2000	U
120-36-5	Dichlorprop	100	U
94-75-7	2,4-D	8.3	U
87-86-5	Pentachlorophenol	17	U
93-72-1	2,4,5-TP	8.3	U
93-76-5	2,4,5-T	8.3	U
88-85-7	Dinoseb	100	U
1918-02-1	Picloram	3.3	U
25057-89-0	Bentazon	35	U
94-82-6	2,4-DB	8.3	U

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0912LMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0912LMBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16L006

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2000	U
93-65-2	MCPP	3000	
1918-00-9	Dicamba	25	
94-74-6	MCPA	2800	
120-36-5	Dichlorprop	22	J
94-75-7	2,4-D	21	
87-86-5	Pentachlorophenol	3.1	J
93-72-1	2,4,5-TP	25	
93-76-5	2,4,5-T	27	
88-85-7	Dinoseb	1.3	J
1918-02-1	Picloram	26	
25057-89-0	Bentazon	29	J
94-82-6	2,4-DB	22	

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0912LMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0912LMBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16L007

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2000	U
93-65-2	MCPP	2100	
1918-00-9	Dicamba	18	J
94-74-6	MCPA	2000	
120-36-5	Dichlorprop	20	J
94-75-7	2,4-D	18	
87-86-5	Pentachlorophenol	2.4	J
93-72-1	2,4,5-TP	19	
93-76-5	2,4,5-T	22	
88-85-7	Dinoseb	0.98	J
1918-02-1	Picloram	12	
25057-89-0	Bentazon	21	J
94-82-6	2,4-DB	15	

FORM I SG

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0912MBMS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0912MBMS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16L008

Level: (low/med) LOW Date Received: 09/09/03

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 09/16/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2000	U
93-65-2	MCPP	4300	
1918-00-9	Dicamba	28	
94-74-6	MCPA	4400	
120-36-5	Dichlorprop	22	J
94-75-7	2,4-D	27	
87-86-5	Pentachlorophenol	4.1	J
93-72-1	2,4,5-TP	27	
93-76-5	2,4,5-T	28	
88-85-7	Dinoseb	1.7	J
1918-02-1	Picloram	23	
25057-89-0	Bentazon	30	J
94-82-6	2,4-DB	26	

FORM 1
SG ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0912LMBMSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0912LMBMSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16L009

Level: (low/med) LOW Date Received: 09/09/03

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.5 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	2000	U
93-65-2	MCPP	3600	
1918-00-9	Dicamba	25	
94-74-6	MCPA	3700	
120-36-5	Dichlorprop	20	J
94-75-7	2,4-D	24	
87-86-5	Pentachlorophenol	3.7	J
93-72-1	2,4,5-TP	24	
93-76-5	2,4,5-T	25	
88-85-7	Dinoseb	1.5	J
1918-02-1	Picloram	20	
25057-89-0	Bentazon	25	J
94-82-6	2,4-DB	23	

FORM 2
SOIL SG SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (DCPA) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	0912LMB	90								0
02	0912LMBLCS	91								0
03	0912LMBLCSD	64								0
04	0912MBMS	109								0
05	0912LMBMSD	101								0
06	73964-1	84								0
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS
S1 (DCPA) = 2,4-DichlorophenylAcet (30-189)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL SG LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 0912LMB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
2,4,5-T	28	0.00	27	96	14-143
2,4,5-TP	28	0.00	25	89	27-120
2,4-D	28	0.00	21	75	19-153

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
2,4,5-T	28	22	78	87	20	59	14-143
2,4,5-TP	28	19	68	78	27	51	27-120
2,4-D	28	18	64	70	15	47	19-153

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM III SG

FORM 3
SOIL SG MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 0912LMB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	MS CONC (ug/Kg)	MS % REC#	QC. LIMITS REC.
2,4,5-T	28		28	100	14-143
2,4,5-TP	28		27	96	27-120
2,4-D	28		27	96	19-153

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONC (ug/Kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
2,4,5-T	28	25	89	94	11	59	14-143
2,4,5-TP	28	24	86	91	12	51	27-120
2,4-D	28	24	86	91	12	47	19-153

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM III SG

FORM 4
SG METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0912LMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Lab File ID: 1I16L005

Lab Sample ID: 0912LMB

Instrument ID: TSGLECD1

Date Extracted: 09/12/03

Matrix: (soil/water) SOIL

Date Analyzed: 09/16/03

Level: (low/med) LOW

Time Analyzed: 1357

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	0912LMBLCS	0912LMBLCS	1I16L006	09/16/03
02	0912LMBLCSD	0912LMBLCSD	1I16L007	09/16/03
03	0912MBMS	0912MBMS	1I16L008	09/16/03
04	0912LMBMSD	0912LMBMSD	1I16L009	09/16/03
05	73964-1	086-LRC-S-0909	1I16L010	09/16/03
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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27				
28				
29				
30				

COMMENTS:

FORM IV SG

FORM 6
SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGLECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0756 0911

LAB FILE ID: RF0: 1I02L003 RF0: 1I02L004 RF0: 1I02L005
RF0: 1I02L006 RF0: 1I02L007

COMPOUND	RF0	RF0	RF0	RF0	RF0
Dalapon	0.18501	0.17285	0.17953	0.15491	0.17803
MCPP	0.00029	0.00028	0.00028	0.00027	0.00027
Dicamba	0.43175	0.39018	0.38653	0.36563	0.35807
MCPA	0.00048	0.00041	0.00035	0.00033	0.00033
Dichlorprop	0.13576	0.10401	0.09968	0.09314	0.09317
2,4-D	0.10758	0.09076	0.08456	0.08271	0.08328
Pentachlorophenol	1.86361	1.80159	1.79483	1.73680	1.72172
2,4,5-TP	0.63790	0.58080	0.56189	0.52404	0.50713
2,4,5-T	0.63924	0.57579	0.53202	0.46911	0.46842
Dinoseb	0.32271	0.31600	0.31260	0.31384	0.33046
Picloram	0.88000	0.80488	0.81343	0.76751	0.74723
Bentazon	0.08390	0.07155	0.06762	0.06118	0.05828
2,4-DB	0.05464	0.04684	0.04469	0.04621	0.04856
2,4-DichlorophenylAceticAcid	0.10171	0.08692	0.08500	0.08091	0.08098

FORM VI SG

FORM 6
SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGLECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0756 0911

RF0: 1I02L008

COMPOUND	RF0	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
Dalapon		AVRG		0.17407	6.6
MCPP	0.00030	AVRG		2.817e-004	3.3
Dicamba	0.36151	AVRG		0.38228	7.2
MCPA	0.00035	AVRG		3.738e-004	15.6
Dichlorprop	0.09600	AVRG		0.10363	15.7
2,4-D	0.08983	AVRG		8.979e-002	10.4
Pentachlorophenol	1.72981	AVRG		1.77472	3.1
2,4,5-TP	0.49065	AVRG		0.55040	9.9
2,4,5-T	0.45846	AVRG		0.52384	13.9
Dinoseb	0.35397	LINR	0.00000000	2.85303	0.999
Picloram	0.74463	LINR	-0.350	1.35196	1.000
Bentazon	0.05348	AVRG		6.6e-002	16.5
2,4-DB	0.05951	AVRG		5.008e-002	11.5
2,4-DichlorophenylAceticAcid	0.08623	AVRG		8.696e-002	8.8

FORM VI SG

FORM 7
SG CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGLECD1 Calibration Date: 09/16/03 Time: 0853

Lab File ID: 1I16L004 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 0756 0911

GC Column: DB-5 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0 AMOUNT	CURVE	%D	MAX %d
Dalapon	0.636	0.614	AVRG	3.6	15.0
MCPP	13.6	14.1	AVRG	3.5	15.0
Dicamba	0.142	0.141	AVRG	0.7	15.0
MCPA	13.1	14.0	AVRG	6.4	15.0
Dichlorprop	0.133	0.141	AVRG	5.7	15.0
2,4-D	0.131	0.141	AVRG	7.1	15.0
Pentachlorophenol	0.0464	0.0475	AVRG	2.3	15.0
2,4,5-TP	0.143	0.142	AVRG	0.7	15.0
2,4,5-T	0.149	0.142	AVRG	4.9	15.0
Dinoseb	0.150	0.141	LINR	6.4	15.0
Picloram	0.201	0.189	LINR	6.3	15.0
Bentazon	0.183	0.190	AVRG	3.7	15.0
2,4-DB	0.123	0.142	AVRG	13.4	15.0
2,4-DichlorophenylAceticAcid	0.374	0.374	AVRG	0.0	15.0

FORM VII SG

FORM 8
SG INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): 1I16L004 Date Analyzed: 09/16/03

Instrument ID: TSGLECD1 Time Analyzed: 0853

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	6569	6.38				
	UPPER LIMIT	9854	6.88				
	LOWER LIMIT	3285	5.88				
	CLIENT SAMPLE NO.						
01	0912LMB	5930	6.38				
02	0912LMBLCS	5976	6.38				
03	0912LMBLCSD	6953	6.38				
04	0912LMBMS	6391	6.38				
05	0912LMBMSD	6304	6.38				
06	73964-1	6881	6.38				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Dbofb

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SG ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGLECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	RT
01		51.1 226	09/02/03	0756	5.82	
02		51.2 227	09/02/03	0811	5.81	
03		51.3 228	09/02/03	0826	5.81	
04		51.4 229	09/02/03	0841	5.81	
05		51.5 2210	09/02/03	0856	5.80	
06		51.6 231	09/02/03	0911	5.80	
07	ZZZZZ	ZZZZZ	09/02/03	1218	5.82	
08		HERB4 229	09/16/03	0853	5.80	
09	0912LMB	0912LMB	09/16/03	1357	5.81	
10	0912LMBLCS	0912LMBLCS	09/16/03	1412	5.81	
11	0912LMBLCSD	0912LMBLCSD	09/16/03	1427	5.80	
12	0912LMBMS	0912LMBMS	09/16/03	1442	5.80	
13	0912LMBMSD	0912LMBMSD	09/16/03	1457	5.80	
14	73964-1	086-LRC-S-09	09/16/03	1512	5.81	
15	ZZZZZ	ZZZZZ	09/16/03	1527	5.81	
16	ZZZZZ	ZZZZZ	09/16/03	1543	5.81	
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS
S1 = 2,4-DichlorophenylAcet (+/- 0.04 MINUTES)

FORM VIII SG

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 309 8

Batch No: SG091203L

Date Extracted: 09.12.03

Start Time: 1pm

Stop Time:

Analysis Required: 8151

Prep Method: 3550/3510

Analyst/Activity Code* DJH/A,B,S,P,D,F,E

Initial Project Check: DJH

Final Project Check: MA 9.16.03

Date Concentrated: 9.16.03

Initials: DJH

Extract Box ID:

	ID	Lot #	Amt (ml)	Init.
Surr.	8151	6.3.70.9	1.0	BE
Surr.				
Spike	8151	6.3.71.9	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

$MeCl_2$:

E. Ether: X49H02

MTBE:

HEX:

ACIDIFIED Na_2SO_4:

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D.	H.D.	COMMENTS
1. T373936*1/220626-1*		SS	30.0	<2	>12/<2	5.0	09.17	09.22	*Water in sample
2. T373936*2/220626-2*		SS	↓	<2	>12/<2	5.0	09.17	09.22	
3. T373964*1/086-LRC-S-0909-03*	JETC02	SS	↓	<2	>12/<2	5.0	09.16	09.23	R|
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.	MA 9.16.03								
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank			30.0	<2	>12/<2	5.0			
Lab Spike #1			↓	<2	>12/<2	5.0			
Lab Spike #2				<2	>12/<2	5.0			
MS: T373936 220626-1				<2	>12/<2	5.0			
MSD: ↓ ↓			↓	<2	>12/<2	5.0			
HCL:									
1:3 H_2SO_4:									
10 N NaOH:									

Dets: Chlorinated Herbicides <8151>|

37% KOH: NA NaCl:

+ Additional Dets:

0121

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC02 Sample Fraction: SG

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4402772	1L0902.b	1I02L003.D	CALIB_1		51.1 226	4402764		
4402772	1L0902.b	1I02L004.D	CALIB_2		51.2 227	4402765		
4402772	1L0902.b	1I02L005.D	CALIB_3		51.3 228	4402766		
4402772	1L0902.b	1I02L006.D	CALIB_4		51.4 229	4402767		
4402772	1L0902.b	1I02L007.D	CALIB_5		51.5 2210	4402768		
4402772	1L0902.b	1I02L008.D	CALIB_6		51.6 231	4402769		
4404514	1L0916.b	1I16L004.D	CCALIB_4		HERB4 229	4404513		
4404514	1L0916.b	1I16L005.D	BLANK	0912LMB	0912LMB	4404528	SG091203L	JETC02
4404514	1L0916.b	1I16L006.D	LCS	0912LMBLCS	0912LMBLCS	4404529	SG091203L	JETC02
4404514	1L0916.b	1I16L007.D	LCSD	0912LMBLCSD	0912LMBLCSD	4404530	SG091203L	JETC02
4404514	1L0916.b	1I16L008.D	MS	0912LMBMS	0912LMBMS	4404531	SG091203L	JETC02
4404514	1L0916.b	1I16L009.D	MSD	0912LMBMSD	0912LMBMSD	4404532	SG091203L	JETC02
4404514	1L0916.b	1I16L010.D	SAMPLE	73964-1	086-LRC-S-0909-0	4404533	SG091203L	JETC02

Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	RINSE~1L0902				
2	2	RINSE~1L0902				
3	3	51.1 226~1L0902				
4	4	51.2 227~1L0902				
5	5	51.3 228~1L0902				
6	6	51.4 229~1L0902				
7	7	51.5 2210~1L0902				
8	8	51.6 231~1L0902				
9	9	0826PMB~1L0902				
10	10	0826PMBLS~1L0902				
11	11	0826PMBLD~1L0902				
12	12	0826PMS~1L0902				
13	13	0826PMSD~1L0902				
14	14	73698-1~1L0902				
15	15	73698-2~1L0902				
16	16	73627-1~1L0902				
17	2	RINSE~1L0902				
18	5	51.3 228~1L0902				

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\HPCHEM\2\SEQUENCE\1I16L.S

Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	RINSE~1L0916				
2	2	RINSE~1L0916				
3	3	HERB2 227~1L0916				
4	4	HERB4 229~1L0916				
5	5	0912LMB~1L0916				
6	6	0912LMBLS~1L0916				
7	7	0912LMBLD~1L0916				
8	8	73936-1~1L0916~S				
9	9	73936-1~1L0916~D				
10	10	73964-1~1L0916				
11	11	73936-1~1L0916				
12	12	73936-2~1L0916				
13	4	HERB4 229~1L0916				

Sequence Table (Back Injector):

No entries - empty table!

GC CHLORINATED PESTICIDES

Method 8081/8082

CASE NARRATIVE

CASE NARRATIVE
GC CHLORINATED PESTICIDES

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8081/8082

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

CASE NARRATIVE
GC CHLORINATED PESTICIDES

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8081/8082

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: The recovery for Tetrachlorometaxylene was outside the established limits in sample 086-LRC-S-0909-03 and the Method Blank. Decachlorobiphenyl is evaluated as the primary surroate for this analysis, and it was within the range; therefore, no corrective action was taken.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16C13

Level: (low/med) LOW

Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/16/03

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 09/16/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U
57-74-9	Chlordane	18	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0916HMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0916HMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16C10

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/16/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
57-74-9	Chlordane	17	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0916HMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0916HMBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16C11

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/16/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	0.93	J
76-44-8	Heptachlor	1.4	J
309-00-2	Aldrin	1.2	J
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	4.0	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	4.3	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	5.7	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
57-74-9	Chlordane	17	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0916HMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 0916HMBLCSD

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16C12

Level: (low/med) LOW

Date Received: _____

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 09/16/03

Concentrated Extract Volume: 10 (mL)

Date Analyzed: 09/16/03

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.3	J
76-44-8	Heptachlor	1.9	
309-00-2	Aldrin	1.7	
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	4.7	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	4.9	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	6.2	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
57-74-9	Chlordane	17	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0916HMS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0916HMS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16C14

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/16/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.1	J
76-44-8	Heptachlor	1.5	J
309-00-2	Aldrin	1.5	J
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.8	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	4.2	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	4.9	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
57-74-9	Chlordane	17	U

FORM 1
PEST-PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0916HMSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 0916HMSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1I16C15

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 09/16/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.1	J
76-44-8	Heptachlor	1.4	J
309-00-2	Aldrin	1.4	J
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.9	
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	4.2	
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	5.1	
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U
57-74-9	Chlordane	17	U

FORM 2
SOIL PEST-PCB SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column(1): DB-5 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 (TCX) #	S1 2 (TCX) #	S2 1 (DCB) #	S2 2 (DCB) #	S3 1 (DBC) #	S3 2 (DBC) #	S4 1 #	S4 2 #	TOT OUT
01	0916HMB	22*	21*	58	58	58	52			2
02	0916HMBLCS	33	33	79	82	79	79			0
03	0916HMBLCSD	45	45	82	82	82	79			0
04	73964-1	14*	15*	63	66	60	63			2
05	0916HMS	25*	25*	61	67	61	61			2
06	0916HMSD	24*	24*	64	70	64	64			2
07										
08										
09										
10										
11										
12										
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25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)	
S2 (DCB)	= Decachlorobiphenyl	(30-150)	(advisory)
S3 (DBC)	= Dibutylchlorendate	(30-150)	

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL PEST-PCB LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 0916HMB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC (ug/kg)	LCS CONC (ug/kg)	LCS % REC#	QC. LIMITS REC.
Aldrin	3.3	0.00	1.2	36	10-144
gamma-BHC (Lindane)	3.3	0.00	0.93	28	12-138
4,4'-DDT	8.3	0.00	5.7	69	29-134
Dieldrin	8.3	0.00	4.0	48	28-137
Endrin	8.3	0.00	4.3	52	33-149
Heptachlor	3.3	0.00	1.4	42	17-138

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONC (ug/kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aldrin	3.3	1.7	52	44	34	38	10-144
gamma-BHC (Lindane)	3.3	1.3	39	34	33	37	12-138
4,4'-DDT	8.3	6.2	75	72	8.4	26	29-134
Dieldrin	8.3	4.7	57	52	16	30	28-137
Endrin	8.3	4.9	59	56	13	32	33-149
Heptachlor	3.3	1.9	58	50	30	38	17-138

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM III PEST-PCB

FORM 3
SOIL PEST-PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 0916H Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC (ug/Kg)	MS CONC (ug/kg)	MS % REC#	QC. LIMITS REC.
Aldrin	3.3		1.5	45	10-144
gamma-BHC (Lindane)	3.3		1.1	33	12-138
4,4'-DDT	8.3		4.9	59	29-134
Dieldrin	8.3		3.8	46	28-137
Endrin	8.3		4.2	51	33-149
Heptachlor	3.3		1.5	45	17-138

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONC (ug/kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aldrin	3.3	1.4	42	44	6.9	38	10-144
gamma-BHC (Lindane)	3.3	1.1	33	33	0	37	12-138
4,4'-DDT	8.3	5.1	61	60	4.0	26	29-134
Dieldrin	8.3	3.9	47	46	2.6	30	28-137
Endrin	8.3	4.2	51	51	0	32	33-149
Heptachlor	3.3	1.4	42	44	6.9	38	17-138

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM 4
PEST-PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0916HMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: 1I16C10 Lab Sample ID: 0916HMB

Instrument ID: TSGCECD1 Matrix: (soil/water) SOIL

Level: (low/med) LOW Date Extracted: 09/16/03

Date Analyzed (1): 09/16/03 Date Analyzed (2): 09/16/03

Time Analyzed (1): 1644 Time Analyzed (2): 1644

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	0916HMBLCS	0916HMBLCS	1I16C11	09/16/03	09/16/03
02	0916HMBLCSD	0916HMBLCSD	1I16C12	09/16/03	09/16/03
03	73964-1	086-LRC-S-0909	1I16C13	09/16/03	09/16/03
04	0916HMS	0916HMS	1I16C14	09/16/03	09/16/03
05	0916HMSD	0916HMSD	1I16C15	09/16/03	09/16/03
06					
07					
08					
09					
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25					
26					

COMMENTS:

Report Date : 09/02/2003 11:48

Data file : 1I02C4.d
Lab Smp Id : PEM 29216
Inj Date : 02-SEP-2003 11:03
Inst ID : TSGCECD1.i
Smp Info : PEM 29216 ~1C0902

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	295133			N/A
4,4-DDE	1243	0.4	15.0	PASS
4,4-DDD	7217	2.4	15.0	PASS
4,4-DDD + DDE	8460	2.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	196428			N/A
E. Aldehyde	1801	0.9	15.0	PASS
E. Ketone	3258	1.6	15.0	PASS
Ketone+Aldehyde	5059	2.5	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Report Date : 09/02/2003 11:41

Data file : 2I02C4.d
Lab Smp Id : PEM 29216
Inj Date : 02-SEP-2003 11:03
Inst ID : TSGCECD2.i
Smp Info : PEM 29216~1C0902

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	320281			N/A
4,4-DDE	1036	0.3	15.0	PASS
4,4-DDD	7636	2.3	15.0	PASS
4,4-DDD + DDE	8672	2.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	167659			N/A
E. Aldehyde	1730	1.0	15.0	PASS
E. Ketone	5159	3.0	15.0	PASS
Ketone+Aldehyde	6889	3.9	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Report Date : 09/16/2003 12:49

Data file : 1I16C3.d
Lab Smp Id : PEM 29216
Inj Date : 16-SEP-2003 11:29
Inst ID : TSGCECD1.i
Smp Info : PEM 29216~1C0916

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	334709			N/A
4,4-DDE	1785	0.5	15.0	PASS
4,4-DDD	14359	4.1	15.0	PASS
4,4-DDD + DDE	16144	4.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	219708			N/A
E. Aldehyde	1172	0.5	15.0	PASS
E. Ketone	2978	1.3	15.0	PASS
Ketone+Aldehyde	4150	1.9	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Report Date : 09/16/2003 12:50

Data file : 2I16C3.d
Lab Smp Id : PEM 29216
Inj Date : 16-SEP-2003 11:29
Inst ID : TSGCECD2.i
Smp Info : PEM 29216~1C0916

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	317124			N/A
4,4-DDE	1570	0.5	15.0	PASS
4,4-DDD	12044	3.7	15.0	PASS
4,4-DDD + DDE	13614	4.1	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	174198			N/A
E. Aldehyde	1523	0.9	15.0	PASS
E. Ketone	5079	2.8	15.0	PASS
Ketone+Aldehyde	6602	3.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 1433

LAB FILE ID: RF0.005: 1I02C5 RF0.02: 1I02C6 RF0.04: 1I02C7
RF0.08: 1I02C8 RF0.1: 1I02C9

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
alpha-BHC	1.85561	1.79073	1.88475	1.94502	1.88008
gamma-BHC (Lindane)	1.80864	1.85198	2.00297	1.96322	1.89378
Heptachlor	1.21352	1.08819	1.14299	1.22869	1.17480
Endosulfan I	1.04264	0.96560	1.02644	1.02713	1.07490
Dieldrin	1.36512	1.29705	1.36530	1.40755	1.33107
Endrin	0.82781	0.81298	0.88338	0.87059	0.84645
4,4'-DDD	0.93779	0.87907	0.92260	0.98282	0.95463
4,4'-DDT	0.86759	0.79164	0.83912	0.90141	0.87632
Methoxychlor	0.35249	0.36456	0.38778	0.39793	0.37533
Tetrachloro-m-xylene	0.78030	0.65326	0.64917	0.69268	0.65879
Decachlorobiphenyl	0.98317	0.84864	0.81945	0.85460	0.81086
Dibutylchlorendate	0.89595	0.79642	0.82044	0.87716	0.84500

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 1433

RF0.16: 1I02C10

COMPOUND	RF0.16
alpha-BHC	1.81972
gamma-BHC (Lindane)	1.81518
Heptachlor	1.21161
Endosulfan I	1.04700
Dieldrin	1.24384
Endrin	0.76789
4,4'-DDD	0.95340
4,4'-DDT	0.91178
Methoxychlor	0.33596
Tetrachloro-m-xylene	0.69245
Decachlorobiphenyl	0.82738
Dibutylchlorendate	0.87555

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 1433

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.00000000	0.50694	4.51e-003	0.999
gamma-BHC (Lindane)	2ORDR	0.00000000	0.47854	7.901e-003	0.999
Heptachlor	2ORDR	0.00000000	0.87244	-8.03e-003	0.999
Endosulfan I	2ORDR	0.00000000	0.97284	-4.22e-003	0.999
Dieldrin	2ORDR	0.00000000	0.66064	1.124e-002	0.998
Endrin	2ORDR	0.00000000	1.00485	3.778e-002	0.999
4,4'-DDD	2ORDR	0.00000000	1.05933	-1.44e-003	0.999
4,4'-DDT	2ORDR	0.00000000	1.20097	-1.17e-002	0.999
Methoxychlor	2ORDR	0.00000000	2.16429	4.693e-002	0.998
Tetrachloro-m-xylene	2ORDR	0.00000000	1.54885	-3.01e-002	0.999
Decachlorobiphenyl	2ORDR	-5.08e-002	1.22218	-7.78e-004	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.22061	-9.14e-003	0.999

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 1433

LAB FILE ID: RF0.005: 2I02C5 RF0.002: 2I02C6 RF0.04: 2I02C7
RF0.08: 2I02C8 RF0.1: 2I02C9

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
alpha-BHC	1.50825	1.76254	2.19358	2.23396	2.28747
gamma-BHC (Lindane)	1.35830	1.47605	1.77719	1.85629	1.92952
Heptachlor	1.31196	1.12555	1.31033	1.38671	1.46232
Endosulfan I	0.89415	0.89541	1.01871	1.12834	1.14095
Dieldrin	1.14908	1.23688	1.52611	1.56417	1.58884
Endrin	0.84465	0.89728	1.05502	1.12701	1.17748
4,4'-DDD	0.79223	0.84888	0.99157	1.06695	1.12069
4,4'-DDT	0.76421	0.80434	0.95563	1.04766	1.09186
Methoxychlor	0.32169	0.41172	0.49505	0.48968	0.47589
Tetrachloro-m-xylene	0.69977	0.68562	0.69776	0.69961	0.74342
Decachlorobiphenyl	0.95111	0.79611	0.78166	0.77441	0.79741
Dibutylchlorendate	0.83496	0.81176	0.91063	0.95496	1.03224

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 1433

RF0.16: 2I02C10

COMPOUND	RF0.16
alpha-BHC	2.17254
gamma-BHC (Lindane)	1.89733
Heptachlor	1.57720
Endosulfan I	1.27544
Dieldrin	1.47867
Endrin	1.19292
4,4'-DDD	1.18266
4,4'-DDT	1.16004
Methoxychlor	0.40436
Tetrachloro-m-xylene	0.85917
Decachlorobiphenyl	0.87917
Dibutylchlorendate	1.11488

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 1433

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.1336	0.40465	3.734e-003	0.997
gamma-BHC (Lindane)	2ORDR	0.1174	0.51921	-7.96e-004	0.998
Heptachlor	2ORDR	0.00000000	0.79917	-2.13e-002	0.998
Endosulfan I	2ORDR	0.00000000	1.01875	-3.73e-002	0.998
Dieldrin	2ORDR	0.2730	0.56209	6.145e-003	0.997
Endrin	2ORDR	0.00000000	0.95793	-1.05e-002	0.997
4,4'-DDD	2ORDR	0.00000000	1.03700	-1.66e-002	0.998
4,4'-DDT	2ORDR	0.00000000	1.07013	-1.84e-002	0.997
Methoxychlor	2ORDR	1.7319	1.31626	5.152e-002	0.995
Tetrachloro-m-xylene	2ORDR	0.00000000	1.56592	-9.36e-002	1.000
Decachlorobiphenyl	2ORDR	0.00000000	1.37504	-2.68e-002	1.000
Dibutylchlorendate	2ORDR	0.00000000	1.15023	-2.31e-002	0.998

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1500 1716

LAB FILE ID: RF0.005: 1I02C11 RF0.02: 1I02C12 RF0.04: 1I02C13
RF0.08: 1I02C14 RF0.1: 1I02C15

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
beta-BHC	0.59504	0.51607	0.53836	0.52110	0.53937
delta-BHC	1.60783	1.56147	1.63925	1.61820	1.65152
Aldrin	1.53043	1.39621	1.45422	1.45155	1.49029
Heptachlor epoxide	1.36388	1.24426	1.29509	1.28588	1.32687
4,4'-DDE	1.18046	1.13223	1.21161	1.19050	1.22926
Endosulfan II	1.19885	1.01610	1.07458	1.06375	1.08574
Endosulfan sulfate	1.03910	0.88467	0.91435	0.90767	0.94386
Endrin ketone	1.02380	0.96931	1.01837	1.01194	1.03269
Endrin aldehyde	0.77405	0.70470	0.73980	0.72667	0.76524
alpha-Chlordane	1.25733	1.11957	1.14130	1.14142	1.16515
gamma-Chlordane	1.45131	1.26574	1.30534	1.33876	1.35336
Tetrachloro-m-xylene	0.78030	0.65326	0.64917	0.69268	0.65879
Decachlorobiphenyl	0.98317	0.84864	0.81945	0.85460	0.81086
Dibutylchlorendate	0.89595	0.79642	0.82044	0.87716	0.84500

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1500 1716

RF0.16: 1I02C16

COMPOUND	RF0.16
beta-BHC	0.58388
delta-BHC	1.64813
Aldrin	1.44301
Heptachlor epoxide	1.30189
4,4'-DDE	1.13713
Endosulfan II	1.03433
Endosulfan sulfate	0.96005
Endrin ketone	0.97404
Endrin aldehyde	0.76577
alpha-Chlordane	1.20309
gamma-Chlordane	1.34477
Tetrachloro-m-xylene	0.69245
Decachlorobiphenyl	0.82738
Dibutylchlorendate	0.87555

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1500 1716

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	2.01614	-0.103	1.000
delta-BHC	2ORDR	0.00000000	0.61994	-1.7e-003	1.000
Aldrin	2ORDR	0.00000000	0.67756	1.819e-003	1.000
Heptachlor epoxide	2ORDR	0.00000000	0.77259	-1.e-003	1.000
4,4'-DDE	2ORDR	0.00000000	0.78316	7.978e-003	0.999
Endosulfan II	2ORDR	0.00000000	0.90426	5.693e-003	0.999
Endosulfan sulfate	2ORDR	0.00000000	1.12695	-9.05e-003	1.000
Endrin ketone	2ORDR	0.00000000	0.94199	8.217e-003	0.999
Endrin aldehyde	2ORDR	0.00000000	1.38817	-1.12e-002	0.999
alpha-Chlordane	2ORDR	0.00000000	0.90578	-1.24e-002	1.000
gamma-Chlordane	2ORDR	0.00000000	0.76102	-2.87e-003	1.000
Tetrachloro-m-xylene	2ORDR	0.00000000	1.54885	-3.01e-002	0.999
Decachlorobiphenyl	2ORDR	-5.08e-002	1.22218	-7.78e-004	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.22061	-9.14e-003	0.999

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1500 1716

LAB FILE ID: RF0.005: 2I02C11 RF0.002: 2I02C12 RF0.04: 2I02C13
RF0.08: 2I02C14 RF0.1: 2I02C15

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
beta-BHC	0.61838	0.50926	0.53319	0.53754	0.57858
delta-BHC	1.30017	1.42896	1.69268	1.73993	1.82480
Aldrin	1.34109	1.30317	1.50093	1.57652	1.69703
Heptachlor epoxide	1.15884	1.12883	1.21441	1.25577	1.35477
4,4'-DDE	1.06067	1.11882	1.37183	1.40392	1.45182
Endosulfan II	0.95104	0.96316	1.11538	1.16362	1.22823
Endosulfan sulfate	0.84605	0.82727	0.89753	0.93693	0.99678
Endrin ketone	0.91529	0.89508	1.00769	1.05675	1.13030
Endrin aldehyde	0.67571	0.66330	0.71290	0.73002	0.78783
alpha-Chlordane	1.16753	1.05578	1.11356	1.14886	1.24028
gamma-Chlordane	1.13321	1.13922	1.20718	1.27478	1.19053
Tetrachloro-m-xylene	0.69977	0.68562	0.69776	0.69961	0.74342
Decachlorobiphenyl	0.95111	0.79611	0.78166	0.77441	0.79741
Dibutylchlorendate	0.83496	0.81176	0.91063	0.95496	1.03224

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1500 1716

RF0.16: 2I02C16

COMPOUND	RF0.16
beta-BHC	0.68850
delta-BHC	1.83238
Aldrin	1.74120
Heptachlor epoxide	1.52568
4,4'-DDE	1.39170
Endosulfan II	1.25012
Endosulfan sulfate	1.10131
Endrin ketone	1.18869
Endrin aldehyde	0.89548
alpha-Chlordane	1.45500
gamma-Chlordane	1.59130
Tetrachloro-m-xylene	0.85917
Decachlorobiphenyl	0.87917
Dibutylchlorendate	1.11488

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1500 1716

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	2.06232	-0.177	1.000
delta-BHC	2ORDR	9.93e-002	0.56550	-3.61e-003	0.998
Aldrin	2ORDR	9.135e-002	0.64327	-9.49e-003	0.998
Heptachlor epoxide	2ORDR	0.00000000	0.87966	-2.96e-002	0.999
4,4'-DDE	2ORDR	0.2450	0.65957	2.656e-003	0.997
Endosulfan II	2ORDR	0.1793	0.86482	-6.64e-003	0.998
Endosulfan sulfate	2ORDR	0.00000000	1.17881	-2.48e-002	0.999
Endrin ketone	2ORDR	0.1462	0.98175	-1.32e-002	0.998
Endrin aldehyde	2ORDR	0.00000000	1.51143	-4.44e-002	0.999
alpha-Chlordane	2ORDR	0.00000000	0.97055	-3.91e-002	0.999
gamma-Chlordane	2ORDR	0.00000000	0.93963	-3.9e-002	0.998
Tetrachloro-m-xylene	2ORDR	0.00000000	1.56592	-9.36e-002	1.000
Decachlorobiphenyl	2ORDR	0.00000000	1.37504	-2.68e-002	1.000
Dibutylchlorendate	2ORDR	0.00000000	1.15023	-2.31e-002	0.998

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 2027 2243

LAB FILE ID: RF0.005: 1I02C23 RF0.02: 1I02C24 RF0.04: 1I02C25
RF0.08: 1I02C26 RF0.1: 1I02C27

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
Aroclor-1016	0.01518	0.01188	0.01059	0.01042	0.00958
(2)	0.02087	0.01533	0.01254	0.01255	0.01173
(3)	0.01029	0.00799	0.00701	0.00712	0.00656
(4)	0.01504	0.01135	0.00969	0.00967	0.00891
(5)	0.00986	0.00780	0.00712	0.00688	0.00628
Aroclor-1260	0.06123	0.04775	0.04434	0.04374	0.04043
(2)	0.03924	0.02981	0.02791	0.02750	0.02525
(3)	0.06002	0.04784	0.04264	0.04230	0.03869
(4)	0.04027	0.03188	0.02843	0.02825	0.02578
(5)	0.03636	0.02935	0.02707	0.02646	0.02429
Tetrachloro-m-xylene (#)	0.89429	0.71028	0.67945	0.70506	0.67357
Decachlorobiphenyl (#)	1.14006	0.93059	0.82812	0.81354	0.75402
Dibutylchlorendate (#)	0.71933	0.55195	0.54528	0.57015	0.55363

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 2027 2243

RF0.16: 1I02C28

COMPOUND	RF0.16
Aroclor-1016	0.00996
(2)	0.01158
(3)	0.00651
(4)	0.00907
(5)	0.00650
Aroclor-1260	0.04336
(2)	0.02676
(3)	0.04094
(4)	0.02694
(5)	0.02547
Tetrachloro-m-xylene (#)	0.71432
Decachlorobiphenyl (#)	0.80082
Dibutylchlorendate (#)	0.60080

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 2027 2243

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	-1.699	100.363	9.7043	0.997
(2)	2ORDR	-1.956	78.4313	20.452	0.999
(3)	2ORDR	-1.084	134.406	71.930	0.999
(4)	2ORDR	-1.884	106.478	19.952	0.998
(5)	2ORDR	-1.381	144.317	49.458	0.996
Aroclor-1260	2ORDR	0.00000000	22.5902	0.4250	0.995
(2)	2ORDR	0.00000000	35.0396	2.2700	0.996
(3)	2ORDR	0.00000000	22.4803	1.1951	0.995
(4)	2ORDR	0.00000000	32.8880	3.6727	0.996
(5)	2ORDR	0.00000000	35.3287	3.6690	0.996
Tetrachloro-m-xylene (#)	2ORDR	0.00000000	1.50014	-2.39e-002	0.998
Decachlorobiphenyl (#)	2ORDR	0.00000000	1.17890	2.388e-002	0.995
Dibutylchlorendate (#)	2ORDR	0.00000000	1.94066	-8.66e-002	0.998

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2027 2243

LAB FILE ID: RF0.005: 2I02C23 RF0.002: 2I02C24 RF0.04: 2I02C25
RF0.08: 2I02C26 RF0.1: 2I02C27

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
Aroclor-1016	0.02620	0.01125	0.01038	0.00996	0.00953
(2)	0.02646	0.02137	0.01785	0.01742	0.01625
(3)	0.02657	0.02003	0.01728	0.01675	0.01610
(4)	0.02181	0.01365	0.01170	0.01116	0.01059
(5)	0.01331	0.01232	0.01064	0.01008	0.00953
Aroclor-1260	0.06564	0.04388	0.03901	0.03672	0.03625
(2)	0.04086	0.02945	0.02932	0.02713	0.02467
(3)	0.03752	0.02941	0.02666	0.02587	0.02460
(4)	0.06058	0.04629	0.04156	0.04100	0.03960
(5)	0.05334	0.04059	0.03674	0.03533	0.03351
Tetrachloro-m-xylene (#)	0.92787	0.73852	0.75368	0.78351	0.81232
Decachlorobiphenyl (#)	1.18054	0.88408	0.79855	0.78279	0.74960
Dibutylchlorendate (#)	0.76397	0.62790	0.66966	0.70138	0.74423

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2027 2243

RF0.16: 2I02C28

COMPOUND	RF0.16
Aroclor-1016	0.00906
(2)	0.01729
(3)	0.01800
(4)	0.01112
(5)	0.01070
Aroclor-1260	0.03579
(2)	0.02512
(3)	0.02518
(4)	0.04069
(5)	0.03435
Tetrachloro-m-xylene (#)	0.87784
Decachlorobiphenyl (#)	0.78601
Dibutylchlorendate (#)	0.83197

FORM VI PEST-PCB

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 2027 2243

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	0.00000000	73.7287	82.280	0.996
(2)	2ORDR	0.00000000	53.8638	6.1964	0.994
(3)	2ORDR	0.00000000	61.4214	-5.056	0.993
(4)	2ORDR	0.00000000	80.7933	20.504	0.994
(5)	2ORDR	0.00000000	100.209	-8.153	0.991
Aroclor-1260	2ORDR	0.00000000	23.1446	2.8522	0.998
(2)	2ORDR	0.00000000	30.3046	8.0980	0.995
(3)	2ORDR	0.00000000	35.4089	3.9011	0.998
(4)	2ORDR	0.00000000	23.2020	0.8438	0.998
(5)	2ORDR	0.00000000	25.5683	2.3459	0.998
Tetrachloro-m-xylene (#)	2ORDR	-9.07e-002	1.52207	-8.24e-002	1.000
Decachlorobiphenyl (#)	2ORDR	0.00000000	1.23595	1.483e-002	0.997
Dibutylchlorendate (#)	2ORDR	-5.79e-002	1.72431	-0.122	1.000

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 1I02C17

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	0.01755	AVRG	1.755e-002	0.0
(2)	0.10642	AVRG	0.10642	0.0
(3)	0.02163	AVRG	2.163e-002	0.0
(4)	0.08281	AVRG	8.281e-002	0.0
(5)	0.05479	AVRG	5.479e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 2I02C17

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	0.01830	AVRG	1.83e-002	0.0
(2)	0.01663	AVRG	1.663e-002	0.0
(3)	0.15293	AVRG	0.15293	0.0
(4)	0.02105	AVRG	2.105e-002	0.0
(5)	0.08829	AVRG	8.829e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 1I02C18

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	0.01220	AVRG	1.22e-002	0.0
(2)	0.00661	AVRG	6.611e-003	0.0
(3)	0.00771	AVRG	7.71e-003	0.0
(4)	0.01096	AVRG	1.096e-002	0.0
(5)	0.00826	AVRG	8.261e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 2I02C18

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	0.01081	AVRG	1.081e-002	0.0
(2)	0.01155	AVRG	1.155e-002	0.0
(3)	0.01864	AVRG	1.864e-002	0.0
(4)	0.01944	AVRG	1.944e-002	0.0
(5)	0.02936	AVRG	2.936e-002	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 1I02C19

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.00725	AVRG	7.247e-003	0.0
(2)	0.00239	AVRG	2.387e-003	0.0
(3)	0.00359	AVRG	3.588e-003	0.0
(4)	0.00347	AVRG	3.471e-003	0.0
(5)	0.00557	AVRG	5.57e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 2I02C19

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.01077	AVRG	1.077e-002	0.0
(2)	0.00710	AVRG	7.1e-003	0.0
(3)	0.00691	AVRG	6.907e-003	0.0
(4)	0.00201	AVRG	2.009e-003	0.0
(5)	0.00392	AVRG	3.92e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 1I02C20

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.00875	AVRG	8.753e-003	0.0
(2)	0.00671	AVRG	6.713e-003	0.0
(3)	0.02080	AVRG	2.08e-002	0.0
(4)	0.01357	AVRG	1.357e-002	0.0
(5)	0.00886	AVRG	8.865e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 2I02C20

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.01328	AVRG	1.328e-002	0.0
(2)	0.00728	AVRG	7.275e-003	0.0
(3)	0.01318	AVRG	1.318e-002	0.0
(4)	0.00874	AVRG	8.741e-003	0.0
(5)	0.00313	AVRG	3.133e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 1I02C21

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.00893	AVRG	8.929e-003	0.0
(2)	0.01193	AVRG	1.193e-002	0.0
(3)	0.01569	AVRG	1.569e-002	0.0
(4)	0.00680	AVRG	6.8e-003	0.0
(5)	0.00540	AVRG	5.396e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 2I02C21

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.00447	AVRG	4.472e-003	0.0
(2)	0.01343	AVRG	1.343e-002	0.0
(3)	0.01244	AVRG	1.244e-002	0.0
(4)	0.00850	AVRG	8.495e-003	0.0
(5)	0.00516	AVRG	5.162e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/02/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 1I02C22

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.00517	AVRG	5.172e-003	0.0
(2)	0.00420	AVRG	4.202e-003	0.0
(3)	0.01360	AVRG	1.361e-002	0.0
Aroclor-1254	0.00665	AVRG	6.651e-003	0.0
(2)	0.00652	AVRG	6.523e-003	0.0
(3)	0.00570	AVRG	5.695e-003	0.0
(4)	0.02307	AVRG	2.307e-002	0.0
(5)	0.00608	AVRG	6.081e-003	0.0

FORM 6
PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date(s): 09/02/03 09/02/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1216 2243

RF0.04: 2I02C22

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.00552	AVRG	5.518e-003	0.0
(2)	0.00404	AVRG	4.037e-003	0.0
(3)	0.01181	AVRG	1.181e-002	0.0
Aroclor-1254	0.00596	AVRG	5.964e-003	0.0
(2)	0.00673	AVRG	6.732e-003	0.0
(3)	0.00644	AVRG	6.445e-003	0.0
(4)	0.01349	AVRG	1.349e-002	0.0
(5)	0.00964	AVRG	9.643e-003	0.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date: 09/16/03 Time: 1157

Lab File ID: 1I16C4 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 1216 1433

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0392	0.0400	2ORDR	2.0	15.0
gamma-BHC (Lindane)	0.0398	0.0400	2ORDR	0.5	15.0
Heptachlor	0.0431	0.0400	2ORDR	7.8	15.0
Endosulfan I	0.0386	0.0400	2ORDR	3.5	15.0
Dieldrin	0.0787	0.0800	2ORDR	1.6	15.0
Endrin	0.0807	0.0800	2ORDR	0.9	15.0
4,4'-DDD	0.0815	0.0800	2ORDR	1.9	15.0
4,4'-DDT	0.0776	0.0800	2ORDR	3.0	15.0
Methoxychlor	0.401	0.400	2ORDR	0.2	15.0
Tetrachloro-m-xylene	0.0391	0.0400	2ORDR	2.2	15.0
Decachlorobiphenyl	0.0792	0.0800	2ORDR	1.0	15.0
Dibutylchlorendate	0.0780	0.0800	2ORDR	2.5	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date: 09/16/03 Time: 1157

Lab File ID: 2I16C4 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 1216 1433

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0380	0.0400	2ORDR	5.0	15.0
gamma-BHC (Lindane)	0.0378	0.0400	2ORDR	5.5	15.0
Heptachlor	0.0413	0.0400	2ORDR	3.2	15.0
Endosulfan I	0.0368	0.0400	2ORDR	8.0	15.0
Dieldrin	0.0770	0.0800	2ORDR	3.8	15.0
Endrin	0.0779	0.0800	2ORDR	2.6	15.0
4,4'-DDD	0.0799	0.0800	2ORDR	0.1	15.0
4,4'-DDT	0.0718	0.0800	2ORDR	10.2	15.0
Methoxychlor	0.374	0.400	2ORDR	6.5	15.0
Tetrachloro-m-xylene	0.0393	0.0400	2ORDR	1.8	15.0
Decachlorobiphenyl	0.0824	0.0800	2ORDR	3.0	15.0
Dibutylchlorendate	0.0747	0.0800	2ORDR	6.6	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date: 09/16/03 Time: 1224

Lab File ID: 1I16C5 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 1500 1716

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0399	0.0400	2ORDR	0.2	15.0
delta-BHC	0.0408	0.0400	2ORDR	2.0	15.0
Aldrin	0.0399	0.0400	2ORDR	0.2	15.0
Heptachlor epoxide	0.0398	0.0400	2ORDR	0.5	15.0
4,4'-DDE	0.0812	0.0800	2ORDR	1.5	15.0
Endosulfan II	0.0804	0.0800	2ORDR	0.5	15.0
Endosulfan sulfate	0.0801	0.0800	2ORDR	0.1	15.0
Endrin ketone	0.0792	0.0800	2ORDR	1.0	15.0
Endrin aldehyde	0.0797	0.0800	2ORDR	0.4	15.0
alpha-Chlordane	0.0404	0.0400	2ORDR	1.0	15.0
gamma-Chlordane	0.0395	0.0400	2ORDR	1.2	15.0
Tetrachloro-m-xylene	0.0397	0.0400	2ORDR	0.8	15.0
Decachlorobiphenyl	0.0834	0.0800	2ORDR	4.2	15.0
Dibutylchlorendate	0.0806	0.0800	2ORDR	0.8	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date: 09/16/03 Time: 1224

Lab File ID: 2I16C5 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 1500 1716

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0408	0.0400	2ORDR	2.0	15.0
delta-BHC	0.0392	0.0400	2ORDR	2.0	15.0
Aldrin	0.0381	0.0400	2ORDR	4.8	15.0
Heptachlor epoxide	0.0394	0.0400	2ORDR	1.5	15.0
4,4'-DDE	0.0792	0.0800	2ORDR	1.0	15.0
Endosulfan II	0.0782	0.0800	2ORDR	2.2	15.0
Endosulfan sulfate	0.0789	0.0800	2ORDR	1.4	15.0
Endrin ketone	0.0772	0.0800	2ORDR	3.5	15.0
Endrin aldehyde	0.0791	0.0800	2ORDR	1.1	15.0
alpha-Chlordane	0.0399	0.0400	2ORDR	0.2	15.0
gamma-Chlordane	0.0422	0.0400	2ORDR	5.5	15.0
Tetrachloro-m-xylene	0.0397	0.0400	2ORDR	0.8	15.0
Decachlorobiphenyl	0.0832	0.0800	2ORDR	4.0	15.0
Dibutylchlorendate	0.0782	0.0800	2ORDR	2.2	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD1 Calibration Date: 09/16/03 Time: 1602

Lab File ID: 1I16C9 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 2027 2243

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.499	0.500	2ORDR	0.2	15.0
(2)	0.478	0.500	2ORDR	4.4	15.0
(3)	0.471	0.500	2ORDR	5.8	15.0
(4)	0.501	0.500	2ORDR	0.2	15.0
(5)	0.462	0.500	2ORDR	7.6	15.0
Aroclor-1260	0.474	0.500	2ORDR	5.2	15.0
(2)	0.487	0.500	2ORDR	2.6	15.0
(3)	0.503	0.500	2ORDR	0.6	15.0
(4)	0.493	0.500	2ORDR	1.4	15.0
(5)	0.506	0.500	2ORDR	1.2	15.0
Tetrachloro-m-xylene (#)	0.0488	0.0500	2ORDR	2.4	15.0
Decachlorobiphenyl (#)	0.0502	0.0500	2ORDR	0.4	15.0
Dibutylchlorendate (#)	0.0453	0.0500	2ORDR	9.4	15.0

FORM 7
PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGCECD2 Calibration Date: 09/16/03 Time: 1602

Lab File ID: 2I16C9 Init. Calib. Date(s): 09/02/03 09/02/03

Init. Calib. Times: 2027 2243

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	0.444	0.500	2ORDR	11.2	15.0	
(2)	0.514	0.500	2ORDR	2.8	15.0	
(3)	0.555	0.500	2ORDR	11.0	15.0	
(4)	0.505	0.500	2ORDR	1.0	15.0	
(5)	0.570	0.500	2ORDR	14.0	15.0	
Aroclor-1260	0.459	0.500	2ORDR	8.2	15.0	
(2)	0.544	0.500	2ORDR	8.8	15.0	
(3)	0.587	0.500	2ORDR	17.4	15.0	<-
(4)	0.527	0.500	2ORDR	5.4	15.0	
(5)	0.494	0.500	2ORDR	1.2	15.0	
Tetrachloro-m-xylene (#)	0.0467	0.0500	2ORDR	6.6	15.0	
Decachlorobiphenyl (#)	0.0478	0.0500	2ORDR	4.4	15.0	
Dibutylchlorendate (#)	0.0453	0.0500	2ORDR	9.4	15.0	

FORM 8
PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): 1I16C9 Date Analyzed: 09/16/03

Instrument ID: TSGCECD1 Time Analyzed: 1602

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	78318	3.82				
	UPPER LIMIT	156636	3.87				
	LOWER LIMIT	39159	3.77				
	CLIENT SAMPLE NO.						
01	0916HMB	77399	3.82				
02	0916HMBLCS	80429	3.78				
03	0916HMBLCSD	79016	3.77				
04	73964-1	83650	3.77				
05	0916HMS	82154	3.78				
06	0916HMSD	83760	3.78				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): 2I16C9 Date Analyzed: 09/16/03

Instrument ID: TSGCECD2 Time Analyzed: 1602

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	67700	3.75				
	UPPER LIMIT	135400	3.80				
	LOWER LIMIT	33850	3.70				
	CLIENT SAMPLE NO.						
01	0916HMB	67228	3.75				
02	0916HMBLCS	65245	3.72				
03	0916HMBLCSD	66719	3.72				
04	73964-1	67506	3.72				
05	0916HMS	65629	3.73				
06	0916HMSD	66852	3.73				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGCECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		PEM 29216	09/02/03	1103		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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34						
35						
36						

QC LIMITS

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGCECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
	==========	==========	==========	==========	========	========
01		PEM 29216	09/02/03	1103		
02						
03						
04						
05						
06						
07						
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34						
35						
36						

QC LIMITS

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGCECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
01		A-1 2962	09/02/03	1216	6.53	24.06
02		A-2 2963	09/02/03	1244	6.50	24.05
03		A-3 2964	09/02/03	1311	6.50	24.05
04		A-4 2965	09/02/03	1338	6.50	24.07
05		A-5 2966	09/02/03	1405	6.50	24.05
06		A-6 2967	09/02/03	1433	6.51	24.09
07		B-1 2968	09/02/03	1500	6.51	24.07
08		B-2 2969	09/02/03	1527	6.51	24.06
09		B-3 29610	09/02/03	1554	6.50	24.06
10		B-4 2971	09/02/03	1622	6.50	24.07
11		B-5 2972	09/02/03	1649	6.50	24.05
12		B-6 2973	09/02/03	1716	6.50	24.05
13		TECH 29162	09/02/03	1743		
14		TOX 291611	09/02/03	1811		
15		1232 29175	09/02/03	1838		
16		1242 29176	09/02/03	1905		
17		1248 29177	09/02/03	1932		
18		2154 29178	09/02/03	1959		
19		1660-1 9102	09/02/03	2027		
20		1660-2 9103	09/02/03	2054		
21		1660-3 9104	09/02/03	2121		
22		1660-4 9105	09/02/03	2148		
23		1660-5 9106	09/02/03	2216		
24		1660-6 9107	09/02/03	2243		
25		PEM 29216	09/16/03	1129		
26		A-3 2964	09/16/03	1157	6.49	24.03
27		B-3 29610	09/16/03	1224	6.49	24.02
28		1660-3 9104	09/16/03	1602		
29	0916HMB	0916HMB	09/16/03	1644	6.53	24.07
30	0916HMBLCS	0916HMBLCS	09/16/03	1711	6.49	24.03
31	0916HMBLCSD	0916HMBLCSD	09/16/03	1738	6.49	24.03
32	73964-1	086-LRC-S-09	09/16/03	1806	6.49	24.02
33	0916HMS	0916HMS	09/16/03	1833	6.49	24.03
34	0916HMSD	0916HMSD	09/16/03	1900	6.49	24.01
35						
36						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.05 MINUTES)

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGCECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	RT
01		A-1 2962	09/02/03	1216	17.36	
02		A-2 2963	09/02/03	1244	17.35	
03		A-3 2964	09/02/03	1311	17.35	
04		A-4 2965	09/02/03	1338	17.35	
05		A-5 2966	09/02/03	1405	17.35	
06		A-6 2967	09/02/03	1433	17.36	
07		B-1 2968	09/02/03	1500	17.36	
08		B-2 2969	09/02/03	1527	17.35	
09		B-3 29610	09/02/03	1554	17.35	
10		B-4 2971	09/02/03	1622	17.35	
11		B-5 2972	09/02/03	1649	17.35	
12		B-6 2973	09/02/03	1716	17.35	
13		TECH 29162	09/02/03	1743		
14		TOX 291611	09/02/03	1811		
15		1232 29175	09/02/03	1838		
16		1242 29176	09/02/03	1905		
17		1248 29177	09/02/03	1932		
18		2154 29178	09/02/03	1959		
19		1660-1 9102	09/02/03	2027		
20		1660-2 9103	09/02/03	2054		
21		1660-3 9104	09/02/03	2121		
22		1660-4 9105	09/02/03	2148		
23		1660-5 9106	09/02/03	2216		
24		1660-6 9107	09/02/03	2243		
25		PEM 29216	09/16/03	1129		
26		A-3 2964	09/16/03	1157	17.34	
27		B-3 29610	09/16/03	1224	17.33	
28		1660-3 9104	09/16/03	1602		
29	0916HMB	0916HMB	09/16/03	1644	17.36	
30	0916HMBLCS	0916HMBLCS	09/16/03	1711	17.33	
31	0916HMBLCSD	0916HMBLCSD	09/16/03	1738	17.34	
32	73964-1	086-LRC-S-09	09/16/03	1806	17.33	
33	0916HMS	0916HMS	09/16/03	1833	17.34	
34	0916HMSD	0916HMSD	09/16/03	1900	17.33	
35						
36						

S3 = Dibutylchlorendate QC LIMITS (+/- 0.05 MINUTES)

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGCECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
01		A-1 2962	09/02/03	1216	5.30	
02		A-2 2963	09/02/03	1244	5.29	
03		A-3 2964	09/02/03	1311	5.29	
04		A-4 2965	09/02/03	1338	5.29	
05		A-5 2966	09/02/03	1405	5.29	
06		A-6 2967	09/02/03	1433	5.29	
07		B-1 2968	09/02/03	1500	5.29	21.51
08		B-2 2969	09/02/03	1527	5.29	21.50
09		B-3 29610	09/02/03	1554	5.29	21.49
10		B-4 2971	09/02/03	1622	5.29	21.50
11		B-5 2972	09/02/03	1649	5.29	21.49
12		B-6 2973	09/02/03	1716	5.29	21.49
13		TECH 29162	09/02/03	1743		
14		TOX 291611	09/02/03	1811		
15		1232 29175	09/02/03	1838		
16		1242 29176	09/02/03	1905		
17		1248 29177	09/02/03	1932		
18		2154 29178	09/02/03	1959		
19		1660-1 9102	09/02/03	2027		
20		1660-2 9103	09/02/03	2054		
21		1660-3 9104	09/02/03	2121		
22		1660-4 9105	09/02/03	2148		
23		1660-5 9106	09/02/03	2216		
24		1660-6 9107	09/02/03	2243		
25		PEM 29216	09/16/03	1129		
26		A-3 2964	09/16/03	1157	5.28	21.47
27		B-3 29610	09/16/03	1224	5.28	21.47
28		1660-3 9104	09/16/03	1602		
29	0916HMB	0916HMB	09/16/03	1644	5.30	21.49
30	0916HMBLCS	0916HMBLCS	09/16/03	1711	5.28	21.47
31	0916HMBLCSD	0916HMBLCSD	09/16/03	1738	5.27	21.46
32	73964-1	086-LRC-S-09	09/16/03	1806	5.27	21.47
33	0916HMS	0916HMS	09/16/03	1833	5.28	21.47
34	0916HMSD	0916HMSD	09/16/03	1900	5.28	21.46
35						
36						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.05 MINUTES)

FORM 8
PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/02/03

Instrument ID: TSGCECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	RT
01		A-1 2962	09/02/03	1216	15.37	
02		A-2 2963	09/02/03	1244	15.36	
03		A-3 2964	09/02/03	1311	15.37	
04		A-4 2965	09/02/03	1338	15.37	
05		A-5 2966	09/02/03	1405	15.37	
06		A-6 2967	09/02/03	1433	15.38	
07		B-1 2968	09/02/03	1500	15.38	
08		B-2 2969	09/02/03	1527	15.37	
09		B-3 29610	09/02/03	1554	15.37	
10		B-4 2971	09/02/03	1622	15.37	
11		B-5 2972	09/02/03	1649	15.37	
12		B-6 2973	09/02/03	1716	15.37	
13		TECH 29162	09/02/03	1743		
14		TOX 291611	09/02/03	1811		
15		1232 29175	09/02/03	1838		
16		1242 29176	09/02/03	1905		
17		1248 29177	09/02/03	1932		
18		2154 29178	09/02/03	1959		
19		1660-1 9102	09/02/03	2027		
20		1660-2 9103	09/02/03	2054		
21		1660-3 9104	09/02/03	2121		
22		1660-4 9105	09/02/03	2148		
23		1660-5 9106	09/02/03	2216		
24		1660-6 9107	09/02/03	2243		
25		PEM 29216	09/16/03	1129		
26		A-3 2964	09/16/03	1157	15.35	
27		B-3 29610	09/16/03	1224	15.35	
28		1660-3 9104	09/16/03	1602		
29	0916HMB	0916HMB	09/16/03	1644	15.37	
30	0916HMBLCS	0916HMBLCS	09/16/03	1711	15.35	
31	0916HMBLCSD	0916HMBLCSD	09/16/03	1738	15.35	
32	73964-1	086-LRC-S-09	09/16/03	1806	15.35	
33	0916HMS	0916HMS	09/16/03	1833	15.36	
34	0916HMSD	0916HMSD	09/16/03	1900	15.35	
35						
36						

S3 = Dibutylchlorendate

QC LIMITS
(+/- 0.05 MINUTES)

FORM VIII PEST-PCB

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 320 23

Batch No: SG091603 H

Date Extracted: 09.16.03

Start Time: 9 AM

Stop Time: 11 AM

Analysis Required: 8081/8082/8141

Prep Method: 3550

Analyst/Activity Code* BE / A,B,S,D

Initial Project Check: BE

Final Project Check: 9-17-03

Date Concentrated: 9-16-03

Initials: DK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8081	6.3.72.1	1.0	BE
Surr.				
Spike	8080	6.3.70.8	1.0	BE
Spike	8141	6.3.70.14	1.0	BE

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 HEX/ACE:

AN.AZ8.0038.18

Na_2SO_4 PDWD: X44144

Na_2SO_4 GRAN: Y02631

HEX: Y13E22

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D	H.D	COMMENTS
1. T373976*1/S001*		SS	30.0			10.0	09.19	09.24	
2. T373976*2/S002*		SS					09.19	09.24	
3. T373999*2/S002*		SS					09.19	09.25	
4. T373999*3/S003*		SS					09.19	09.25	
5. T373999*4/S004*		SS					09.19	09.25	
6. T373999*5/S005*		SS					09.19	09.25	
7. T373999*6/SD001*		SS					09.19	09.25	
8. T373964*1*R/086-LRC-S-0909-03*	JETC02	SS					09.16	09.23	R|
9. T373913*1*R/1309-1-LAFB*	LAG001	SS					09.23	09.17	P|
10. T373913*2*R/1309 Dup-LAFB*	LAG001	SS					09.23	09.17	P|
11. T373913*3*R/1309-2-LAFB*	LAG001	SS					09.23	09.17	P|
12. T373913*4*R/1309-3-LAFB*	LAG001	SS					09.23	09.17	P|
13. T373913*5*R/1309-4-LAFB*	LAG001	SS					09.23	09.17	P|
14. T373913*6*R/1309-5-LAFB*	LAG001	SS					09.23	09.17	P|
15. MS:	8080	SS							
16. MSD:		SS							
17. MS: T373913 1309-2	8141	SS							
18. MSD: T373913 1309-2		SS							
19.									
20.									
Lab Blank	8080	SS	30.0			10.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
LCS #3	8141	SS	30.0						
LCS #4		SS	30.0						

Dets: Organophosphorus Pesticides <8141> |TCL - Pesticides/PCB's <8081/8082> |(-)Organophosphorus Pesticides <8141>|

+ Additional Dets:

0190

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC02 Sample Fraction: PEST-PCB

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4705177	1C0902.b	1I02C4.d	PEM		PEM 29216	4705188		
4705177	1C0902.b	1I02C5.d	CALIB_1		A-1 2962	4705408		
4705177	1C0902.b	1I02C6.d	CALIB_2		A-2 2963	4705409		
4705177	1C0902.b	1I02C7.d	CALIB_3		A-3 2964	4705410		
4705177	1C0902.b	1I02C8.d	CALIB_4		A-4 2965	4705411		
4705177	1C0902.b	1I02C9.d	CALIB_5		A-5 2966	4705412		
4705177	1C0902.b	1I02C10.d	CALIB_6		A-6 2967	4705404		
4705177	1C0902.b	1I02C11.d	CALIB_1		B-1 2968	4705405		
4705177	1C0902.b	1I02C12.d	CALIB_2		B-2 2969	4707585		
4705177	1C0902.b	1I02C13.d	CALIB_3		B-3 29610	4707586		
4705177	1C0902.b	1I02C14.d	CALIB_4		B-4 2971	712394		
4705177	1C0902.b	1I02C15.d	CALIB_5		B-5 2972	4707587		
4705177	1C0902.b	1I02C16.d	CALIB_6		B-6 2973	4707588		
4705177	1C0902.b	1I02C17.d	CALIB_3		TECH 29162	4705571		
4705177	1C0902.b	1I02C18.d	CALIB_3		TOX 291611	4705572		
4705177	1C0902.b	1I02C19.d	CALIB_3		1232 29175	4705573		
4705177	1C0902.b	1I02C20.d	CALIB_3		1242 29176	4705574		
4705177	1C0902.b	1I02C21.d	CALIB_3		1248 29177	4705575		
4705177	1C0902.b	1I02C22.d	CALIB_3		2154 29178	4705576		
4705177	1C0902.b	1I02C23.d	CALIB_1		1660-1 9102	712391		
4705177	1C0902.b	1I02C24.d	CALIB_2		1660-2 9103	712392		
4705177	1C0902.b	1I02C25.d	CALIB_3		1660-3 9104	712393		
4705177	1C0902.b	1I02C26.d	CALIB_4		1660-4 9105	4707589		
4705177	1C0902.b	1I02C27.d	CALIB_5		1660-5 9106	4707590		
4705177	1C0902.b	1I02C28.d	CALIB_6		1660-6 9107	4707591		
4705175	1C0902.b	2I02C4.d	PEM		PEM 29216	4705185		
4705175	1C0902.b	2I02C5.d	CALIB_1		A-1 2962	4705428		
4705175	1C0902.b	2I02C6.d	CALIB_2		A-2 2963	4705429		
4705175	1C0902.b	2I02C7.d	CALIB_3		A-3 2964	4705430		
4705175	1C0902.b	2I02C8.d	CALIB_4		A-4 2965	4705431		
4705175	1C0902.b	2I02C9.d	CALIB_5		A-5 2966	4705432		
4705175	1C0902.b	2I02C10.d	CALIB_6		A-6 2967	4705424		
4705175	1C0902.b	2I02C11.d	CALIB_1		B-1 2968	712454		
4705175	1C0902.b	2I02C12.d	CALIB_2		B-2 2969	712456		
4705175	1C0902.b	2I02C13.d	CALIB_3		B-3 29610	712457		
4705175	1C0902.b	2I02C14.d	CALIB_4		B-4 2971	712458		
4705175	1C0902.b	2I02C15.d	CALIB_5		B-5 2972	712459		
4705175	1C0902.b	2I02C16.d	CALIB_6		B-6 2973	4705600		
4705175	1C0902.b	2I02C17.d	CALIB_3		TECH 29162	4705601		
4705175	1C0902.b	2I02C18.d	CALIB_3		TOX 291611	4705602		
4705175	1C0902.b	2I02C19.d	CALIB_3		1232 29175	4705603		
4705175	1C0902.b	2I02C20.d	CALIB_3		1242 29176	4705604		
4705175	1C0902.b	2I02C21.d	CALIB_3		1248 29177	4705605		
4705175	1C0902.b	2I02C22.d	CALIB_3		2154 29178	4705606		
4705175	1C0902.b	2I02C23.d	CALIB_1		1660-1 9102	712425		
4705175	1C0902.b	2I02C24.d	CALIB_2		1660-2 9103	712426		
4705175	1C0902.b	2I02C25.d	CALIB_3		1660-3 9104	712427		
4705175	1C0902.b	2I02C26.d	CALIB_4		1660-4 9105	4705610		
4705175	1C0902.b	2I02C27.d	CALIB_5		1660-5 9106	712428		
4705175	1C0902.b	2I02C28.d	CALIB_6		1660-6 9107	712429		
713819	1C0916.b	1I16C3.d	PEM		PEM 29216	713816		
713819	1C0916.b	1I16C4.d	CCALIB_3		A-3 2964	713817		

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
713819	1C0916.b	1I16C5.d	CCALIB_3		B-3 29610	713818		
713819	1C0916.b	1I16C9.d	CCALIB_3		1660-3 9104	4707504		
713819	1C0916.b	1I16C10.d	BLANK	0916HMB	0916HMB	4707513	SG091603H	JETC02
713819	1C0916.b	1I16C11.d	LCS	0916HMBLCS	0916HMBLCS	4707514	SG091603H	JETC02
713819	1C0916.b	1I16C12.d	LCSD	0916HMBLCSD	0916HMBLCSD	4707515	SG091603H	JETC02
713819	1C0916.b	1I16C14.d	MS	0916HMS	0916HMS	4707544	SG091603H	JETC02
713819	1C0916.b	1I16C15.d	MSD	0916HMSD	0916HMSD	4707518	SG091603H	JETC02
713819	1C0916.b	1I16C13.d	SAMPLE	73964-1	086-LRC-S-0909-0	4707516	SG091603H	JETC02
713832	1C0916.b	2I16C3.d	PEM		PEM 29216	713827		
713832	1C0916.b	2I16C4.d	CCALIB_3		A-3 2964	713828		
713832	1C0916.b	2I16C5.d	CCALIB_3		B-3 29610	713829		
713832	1C0916.b	2I16C9.d	CCALIB_3		1660-3 9104	4707592		
713832	1C0916.b	2I16C10.d	BLANK	0916HMB	0916HMB	4707525	SG091603H	JETC02
713832	1C0916.b	2I16C11.d	LCS	0916HMBLCS	0916HMBLCS	4707526	SG091603H	JETC02
713832	1C0916.b	2I16C12.d	LCSD	0916HMBLCSD	0916HMBLCSD	4707527	SG091603H	JETC02
713832	1C0916.b	2I16C14.d	MS	0916HMS	0916HMS	4707529	SG091603H	JETC02
713832	1C0916.b	2I16C15.d	MSD	0916HMSD	0916HMSD	4707530	SG091603H	JETC02
713832	1C0916.b	2I16C13.d	SAMPLE	73964-1	086-LRC-S-0909-0	4707528	SG091603H	JETC02

SEQUENCE FILE: 1I02C

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	PRIM~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
2	PRIM~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
3	HEX ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
4	PEM 29216~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
5	A-1 2962 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
6	A-2 2963 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
7	A-3 2964 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
8	A-4 2965 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
9	A-5 2966 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
10	A-6 2967 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
11	B-1 2968 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
12	B-2 2969 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
13	B-3 29610~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
14	B-4 2971 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
15	B-5 2972 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
16	B-6 2973 ~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
17	TECH 29162~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
18	TOX 291611~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
19	1232 29175~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
20	1242 29176~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
21	1248 29177~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
22	2154 29178~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
23	1660-1 9102~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
24	1660-2 9103~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
25	1660-3 9104~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
26	1660-4 9105~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
27	1660-5 9106~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000
28	1660-6 9107~1C0902	E	1I02C	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 1I16C

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	PRIM~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
2	HEX~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
3	PEM 29216~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
4	A-3 2964~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
5	B-3 29610~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
6	73913-6~1C0916	E	1I16C	1.0000	1.0000	9.0000	1.0000
7	A-3 2964~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
8	B-3 29610~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
9	1660-3 9104~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
10	0916HMB ~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
11	0916HMBLCS ~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
12	0916HMBLCSD~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
13	73964-1~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
14	0916HMS ~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
15	0916HMSD~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
16	A-3 2964~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
17	B-3 29610~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000
18	1660-3 9104~1C0916	E	1I16C	1.0000	1.0000	1.0000	1.0000

PETROLEUM RANGE ORGANICS

Method FL-PRO

CASE NARRATIVE

CASE NARRATIVE
GC PETROLEUM RANGE ORGANICS

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: FL-PRO
Cleanup: N/A
Analysis: FL-PRO

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16H13

Level: (low/med) LOW

Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 09/12/03

Concentrated Extract Volume: 2 (mL)

Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	10	U

FORM I FL PRO

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

0912IMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 0912IMB

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16H6

Level: (low/med) LOW

Date Received: _____

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 09/12/03

Concentrated Extract Volume: 2 (mL)

Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	10	U

FORM I FL PRO

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73950-1MS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: SB-7A-11 FTMS

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16H9

Level: (low/med) LOW

Date Received: 09/10/03

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 09/12/03

Concentrated Extract Volume: 2 (mL)

Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	68	

FORM I FL PRO

FORM 1
FL PRO ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73950-1MSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: SB-7A-11 FTMSD

Sample wt/vol: 30 (g/mL) G

Lab File ID: 1I16H10

Level: (low/med) LOW

Date Received: 09/10/03

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 09/12/03

Concentrated Extract Volume: 2 (mL)

Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	63	

FORM I FL PRO

FORM 2
SOIL FL PRO SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (OTP) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	0912IMB	79	67							0
02	73950-1MS	63	56							0
03	73950-1MSD	56	52							0
04	73964-1	55	45							0
05										
06										
07										
08										
09										
10										
11										
12										
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28										
29										
30										

		QC LIMITS
S1 (OTP)	= o-Terphenyl	(15-154)
S2	= C39	(30-118)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL FL PRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 73950-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONC (mg/Kg)	MS CONC (mg/Kg)	MS % REC#	QC. LIMITS REC.
FLPROTPH	110	0.00	68	62	26-116

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONC (mg/Kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
FLPROTPH	110	63	57	60	7.6	25	26-116

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 4
FL PRO METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

0912IMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Lab File ID: 1I16H6

Lab Sample ID: 0912IMB

Instrument ID: TSGHFID1

Date Extracted: 09/12/03

Matrix: (soil/water) SOIL

Date Analyzed: 09/16/03

Level:(low/med) LOW

Time Analyzed: 0905

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	73950-1MS	SB-7A-11 FTMS	1I16H9	09/16/03
02	73950-1MSD	SB-7A-11 FTMSD	1I16H10	09/16/03
03	73964-1	086-LRC-S-0909	1I16H13	09/16/03
04				
05				
06				
07				
08				
09				
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30				

COMMENTS:

FORM IV FL PRO

FORM 6
FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGHFID1 Calibration Date(s): 09/12/03 09/12/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 1731 1821

LAB FILE ID: RF0.136: 1I12H55 RF0.425: 1I12H54 RF0.85: 1I12H53
RF1.275: 1I12H52 RF2.55: 1I12H51

COMPOUND	RF0.136	RF0.425	RF0.85	RF1.275	RF2.55
FLPROTPH	1845059	1387720	1315047	1804536	1334029
o-Terphenyl	2001870	1419170	1486410	2119090	1528100
C39	1731160	1234660	1278560	1819380	1302610

FORM VI FL PRO

FORM 6
FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGHFID1 Calibration Date(s): 09/12/03 09/12/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 1731 1821

RF5.1: 1I12H50

COMPOUND	RF5.1	CURVE	AVE RRF A1	%RSD or R^2
FLPROTPH	1313651	AVRG	1500007	16.9
o-Terphenyl		AVRG	1710928	18.9
C39	1310850	AVRG	1446203	17.8

FORM VI FL PRO

FORM 7
FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGHFID1 Calibration Date: 09/16/03 Time: 0841

Lab File ID: 1I16H4 Init. Calib. Date(s): 09/12/03 09/12/03

Init. Calib. Times: 1731 1821

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.85	MIN RRF	%D	MAX %D
FLPROTPH	1500007.1	1629660.0	0.01	8.6	25.0
o-Terphenyl	1710928.0	1855820.0	0.01	8.5	25.0
C39	1446203.3	1549970.0	0.01	7.2	25.0

FORM 7
FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSGHFID1 Calibration Date: 09/16/03 Time: 1121

Lab File ID: 1I16H20 Init. Calib. Date(s): 09/12/03 09/12/03

Init. Calib. Times: 1731 1821

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF 0.85	MIN RRF	%D	MAX %D
FLPROTPH	1500007.1	1659551.8	0.01	10.6	25.0
o-Terphenyl	1710928.0	1836620.0	0.01	7.3	25.0
C39	1446203.3	1614170.0	0.01	11.6	25.0

FORM 8
FL PRO ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

GC Column: RTX-5 ID: 0.25 (mm) Init. Calib. Date(s): 09/12/03 09/12/03

Instrument ID: TSGHFID1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S2 RT
01	2-9-14.2	FPRO6-14.2	09/12/03	1731	0.96	3.12
02	2-9-14.1	FPRO5-14.1	09/12/03	1741	0.96	3.13
03	2-9-13.10	FPRO4-13.10	09/12/03	1751	0.96	3.14
04	2-9-13.9	FPRO3-13.9	09/12/03	1801	0.96	3.13
05	2-9-13.8	FPRO2-13.8	09/12/03	1811	0.95	3.12
06	2-9-13.7	FPRO1-13.7	09/12/03	1821	0.96	3.13
07		FPRO3-13.9	09/16/03	0841	0.95	3.11
08	0912IMB	0912IMB	09/16/03	0905	0.96	3.14
09	73950-1MS	SB-7A-11 FTM	09/16/03	0934	0.95	3.13
10	73950-1MSD	SB-7A-11 FTM	09/16/03	0944	0.95	3.11
11	73964-1	086-LRC-S-09	09/16/03	1013	0.95	3.09
12		FPRO3-13.9	09/16/03	1121	0.95	3.10
13						
14						
15						
16						
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32						
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34						
35						
36						

S1 = o-Terphenyl
S2 = C39

QC LIMITS
(+/- 0.02 MINUTES)
(+/- 0.06 MINUTES)

FORM VIII FL PRO

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 305
Batch No: SG091203I
Date Extracted: 09.12.03
Start Time: 9AM
Stop Time: 11AM
Analysis Required: FL PRO
Prep Method: 3550
Analyst/Activity Code* BE /A,B,S,D
Initial Project Check: BE
Final Project Check: JCB
Date Concentrated: 9-15-03
Initials: DK
Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	PRO	6.3.72.2	2.0	BE
Surr.				
Spike	PRO	6.3.71-8	2.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:
$MeCl_2$: Y17E34
Na_2SO_4 POWD: X44144
Na_2SO_4 GRAN: Y02631
Sil Gel: Y3126314
CS_2: T254286
DK 9-15-03

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T373950*1/SB-7A-11 FT*		SS	30.0			2.0	09.17	09.23	
2. T373950*2/SB-4A-2 FT*		SS					09.17	09.23	
3. T373950*3/SB-4A-6 FT*		SS					09.17	09.23	
4. T373950*4/SB-1A-2 FT*		SS					09.17	09.23	
5. T373950*5/SB-2A-3 FT*		SS					09.17	09.23	possibly
6. T373950*6/SB-13A-1 FT*		SS					09.17	09.23	double surrogate
7. T373978*1/Soil Boring 12*		SS					09.17	09.23	
8. T373978*3/Soil Boring 5*		SS					09.17	09.24	
9. T373976*1/S001*		SS					09.19	09.24	
10. T373976*2/S002*		SS					09.19	09.24	
11. T373964*1/086-LRC-S-0909-03*	JETC02	SS					09.16	09.23	R|
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			2.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
MS: T373950 SB-7A-11FT		SS							
MSD:		SS							

JCB 9-16-03

Dets: Petroleum Range Organics <FL-PRO>|

+ Additional Dets:

0213

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC02 Sample Fraction: FL PRO

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4110558	2H0912.b	1I12H50.d	CALIB_6	2-9-14.2	FPRO6-14.2	4110898		
4110558	2H0912.b	1I12H51.d	CALIB_5	2-9-14.1	FPRO5-14.1	4110553		
4110558	2H0912.b	1I12H52.d	CALIB_4	2-9-13.10	FPRO4-13.10	4110554		
4110558	2H0912.b	1I12H53.d	CALIB_3	2-9-13.9	FPRO3-13.9	4110555		
4110558	2H0912.b	1I12H54.d	CALIB_2	2-9-13.8	FPRO2-13.8	4110556		
4110558	2H0912.b	1I12H55.d	CALIB_1	2-9-13.7	FPRO1-13.7	4110557		
4110712	1H0916.b	1I16H4.d	CCALIB_3		FPRO3-13.9	4110716		
4110712	1H0916.b	1I16H20.d	CCALIB_3		FPRO3-13.9	4110787		
4110712	1H0916.b	1I16H6.d	BLANK	0912IMB	0912IMB	4110764	SG091203I	JETC02
4110712	1H0916.b	1I16H9.d	MS	73950-1MS	SB-7A-11 FTMS	4110767	SG091203I	JETC02
4110712	1H0916.b	1I16H10.d	MSD	73950-1MSD	SB-7A-11 FTMSD	4110763	SG091203I	JETC02
4110712	1H0916.b	1I16H13.d	SAMPLE	73964-1	086-LRC-S-0909-0	4110771	SG091203I	JETC02

SEQUENCE FILE: 1I12H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
3	FPR06-14.2 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
4	FPR05-14.1 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
5	FPR04-13.10~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
6	FPR03-13.9 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
7	FPR02-13.8 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
8	FPR01-13.7 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
9	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
10	CRINCE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
11	FPR06-14.2~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
12	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
13	FPR02-13.8~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
14	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
15	CHKSTD-14.3~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
16	CRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
17	0910JMB ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
18	0910JLCS ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
19	0910JLCSD ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
20	73922-1~1H0912	EZFL	1I12H	1.0000	1.0000	10.0000	1.0000
21	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
22	73924-1~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
23	73922-1~1H0912	EZFL	1I12H	1.0000	1.0000	30.0000	1.0000
24	73922-1~1H0912~MS	EZFL	1I12H	1.0000	1.0000	30.0000	1.0000
25	73922-1~1H0912~MSD	EZFL	1I12H	1.0000	1.0000	30.0000	1.0000
26	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
27	73949-1~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
28	73949-2~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
29	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
30	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
31	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
32	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
33	0908BMB ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
34	0908BLCS ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
35	0908BLCSD ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
36	73909-1~1H0912~MS	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
37	73909-1~1H0912~MSD	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
38	73882-1 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
39	73882-2 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
40	73882-3 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
41	73882-4 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
42	73909-1 ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
43	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
44	7RINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
45	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
46	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
47	FRINSE ~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
48	FPR03-13.9~1H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
49	FRINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
50	FPR06-14.2~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
51	FPR05-14.1~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
52	FPR04-13.10~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
53	FPR03-13.9 ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
54	FPR02-13.8 ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
55	FPR01-13.7 ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
56	FRINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
57	CHKSTD-14.3~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000

58	CRINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
59	0908BMB ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
60	0908BLCS ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
61	0908BLCSD ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
62	73909-1~2H0912~MS	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
63	73909-1~2H0912~MSD	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
64	73909-1~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
65	73882-1~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
66	73882-2~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
67	73882-3~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
68	73882-4~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
69	7RINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
70	7RINSE ~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000
71	FPR03-13.9~2H0912	EZFL	1I12H	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 1I16H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
3	PQL-13.7 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
4	FPR03-13.9~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
5	FRINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
6	0912IMB ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
7	0912ILCS ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
8	0912ILCSD ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
9	73950-1~1H0916~MS	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
10	73950-1~1H0916~MSD	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
11	73950-1~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
12	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
13	73964-1~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
14	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
15	73950-2~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
16	73950-3~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
17	73950-4~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
18	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
19	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
20	FPR03-13.9~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
21	0912ILCSD ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
22	73950-5 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
23	73950-6 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
24	0RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
25	0912ILCS ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
26	73978-1 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
27	73978-3 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
28	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
29	73976-1 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
30	73976-2 ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
31	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
32	7RINSE ~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000
33	FPR03-13.9~1H0916	EZFL	1I16H	1.0000	1.0000	1.0000	1.0000

POLYNUCLEAR AROMATIC HYDROCARBONS
Method 8270

CASE NARRATIVE

CASE NARRATIVE
GC/MS POLYNUCLEAR AROMATICS

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8270

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091608

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	7.0	U
91-57-6	2-Methylnaphthalene	7.0	U
90-12-0	1-Methylnaphthalene	7.0	U
208-96-8	Acenaphthylene	7.0	U
83-32-9	Acenaphthene	7.0	U
86-73-7	Fluorene	7.0	U
85-01-8	Phenanthrene	7.0	U
120-12-7	Anthracene	7.0	U
206-44-0	Fluoranthene	7.0	U
129-00-0	Pyrene	7.0	U
56-55-3	Benzo(a)anthracene	7.0	U
218-01-9	Chrysene	7.0	U
205-99-2	Benzo(b)fluoranthene	7.0	U
207-08-9	Benzo(k)fluoranthene	7.0	U
50-32-8	Benzo(a)pyrene	7.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.0	U
53-70-3	Dibenzo(a,h)anthracene	7.0	U
191-24-2	Benzo(g,h,i)perylene	7.0	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091203HLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091203HLB

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091538

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/15/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.7	U
91-57-6	2-Methylnaphthalene	6.7	U
90-12-0	1-Methylnaphthalene	6.7	U
208-96-8	Acenaphthylene	6.7	U
83-32-9	Acenaphthene	6.7	U
86-73-7	Fluorene	6.7	U
85-01-8	Phenanthrene	6.7	U
120-12-7	Anthracene	6.7	U
206-44-0	Fluoranthene	6.7	U
129-00-0	Pyrene	6.7	U
56-55-3	Benzo(a)anthracene	6.7	U
218-01-9	Chrysene	6.7	U
205-99-2	Benzo(b)fluoranthene	6.7	U
207-08-9	Benzo(k)fluoranthene	6.7	U
50-32-8	Benzo(a)pyrene	6.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	U
53-70-3	Dibenzo(a,h)anthracene	6.7	U
191-24-2	Benzo(g,h,i)perylene	6.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091203HLBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091203HLBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: C3091539

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/12/03

Concentrated Extract Volume: 1.0 (mL) Date Analyzed: 09/15/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	85	
91-57-6	2-Methylnaphthalene	83	
90-12-0	1-Methylnaphthalene	84	
208-96-8	Acenaphthylene	94	
83-32-9	Acenaphthene	93	
86-73-7	Fluorene	93	
85-01-8	Phenanthrene	100	
120-12-7	Anthracene	94	
206-44-0	Fluoranthene	100	
129-00-0	Pyrene	100	
56-55-3	Benzo(a)anthracene	100	
218-01-9	Chrysene	100	
205-99-2	Benzo(b)fluoranthene	95	
207-08-9	Benzo(k)fluoranthene	100	
50-32-8	Benzo(a)pyrene	89	
193-39-5	Indeno(1,2,3-cd)pyrene	100	
53-70-3	Dibenzo(a,h)anthracene	98	
191-24-2	Benzo(g,h,i)perylene	110	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091203HLBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: SM091203HLBLCSD

Sample wt/vol: 30 (g/mL) G

Lab File ID: C3091540

Level: (low/med) LOW

Date Received: _____

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 09/12/03

Concentrated Extract Volume: 1.0 (mL)

Date Analyzed: 09/15/03

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	66	
91-57-6	2-Methylnaphthalene	63	
90-12-0	1-Methylnaphthalene	65	
208-96-8	Acenaphthylene	71	
83-32-9	Acenaphthene	67	
86-73-7	Fluorene	70	
85-01-8	Phenanthrene	75	
120-12-7	Anthracene	73	
206-44-0	Fluoranthene	74	
129-00-0	Pyrene	75	
56-55-3	Benzo(a)anthracene	74	
218-01-9	Chrysene	78	
205-99-2	Benzo(b)fluoranthene	68	
207-08-9	Benzo(k)fluoranthene	83	
50-32-8	Benzo(a)pyrene	67	
193-39-5	Indeno(1,2,3-cd)pyrene	78	
53-70-3	Dibenzo(a,h)anthracene	74	
191-24-2	Benzo(g,h,i)perylene	82	

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (OTP) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SM091203HLB	75								0
02	SM091203HLBL	75								0
03	SM091203HLBL	55								0
04	73964-1	71								0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
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19										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

S1 (OTP) = o-Terphenyl QC LIMITS (30-130)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: SM091203HLB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
Acenaphthene	130	0.00	93	72	18-123
Benzo(a)pyrene	130	0.00	89	68	41-142
Fluorene	130	0.00	93	72	27-151
Naphthalene	130	0.00	85	65	25-131
Pyrene	130	0.00	100	77	10-133

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	130	67	52	62	32	49	18-123
Benzo(a)pyrene	130	67	52	60	28	55	41-142
Fluorene	130	70	54	63	28	50	27-151
Naphthalene	130	66	51	58	25	34	25-131
Pyrene	130	75	58	68	28	42	10-133

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SM091203HLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: C3091538 Lab Sample ID: SM091203HLB

Instrument ID: TSMC5973 Date Extracted: 09/12/03

Matrix: (soil/water) SOIL Date Analyzed: 09/15/03

Level: (low/med) LOW Time Analyzed: 1859

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SM091203HLBL	SM091203HLBLCS	C3091539	09/15/03
02	SM091203HLBL	SM091203HLBLCS	C3091540	09/15/03
03	73964-1	086-LRC-S-0909	C3091608	09/16/03
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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30				

COMMENTS:

FORM IV SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: C3082210 DFTPP Injection Date: 08/22/03

Instrument ID: TSMC5973 DFTPP Injection Time: 1110

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 442	27.8
68	Less than 2.0% of mass 69	0.2 (0.7)1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	45.4 (53.9)2
197	Less than 2.0% of mass 198	0.0 (0.0)2
198	Greater than 50.0% of mass 442	84.1
199	5.0 to 9.0% of mass 198	5.7 (6.8)2
275	10.0 - 60.0% of mass 442	22.9
365	Greater than 1.0% of mass 442	3.16
441	Less than 100.0% of mass 443	14.3 (74.6)3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0% of mass 442	19.2

1-Value is % mass 69 2-Value is % mass 198
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAH0.2	PAH0.2	C3082211	08/22/03	1125
02	PAH2.5	PAH2.5	C3082212	08/22/03	1141
03	PAH5.0	PAH5.0	C3082213	08/22/03	1156
04	PAH10	PAH10	C3082214	08/22/03	1211
05	PAH12.5	PAH12.5	C3082215	08/22/03	1227
06	PAH15	PAH15	C3082216	08/22/03	1242
07	PAH17.5	PAH17.5	C3082217	08/22/03	1258
08	PAH20.0	PAH20.0	C3082218	08/22/03	1313
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: C3091507 DFTPP Injection Date: 09/15/03

Instrument ID: TSMC5973 DFTPP Injection Time: 1050

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 442	38.9
68	Less than 2.0% of mass 69	0.5 (1.0)1
69	Mass 69 relative abundance	46.1
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	10.0 - 80.0% of mass 198	62.5 (62.2)2
197	Less than 2.0% of mass 198	0.0 (0.0)2
198	Greater than 50.0% of mass 442	100.5
199	5.0 to 9.0% of mass 198	7.9 (7.9)2
275	10.0 - 60.0% of mass 442	26.3
365	Greater than 1.0% of mass 442	4.43
441	Less than 100.0% of mass 443	15.7 (82.3)3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0% of mass 442	19.0

1-Value is % mass 69 2-Value is % mass 198
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PAH05.0	PAH05.0	C3091509	09/15/03	1126
02	SM091203HLB	SM091203HLB	C3091538	09/15/03	1859
03	SM091203HLBL	SM091203HLBLCS	C3091539	09/15/03	1914
04	SM091203HLBL	SM091203HLBLCS	C3091540	09/15/03	1930
05					
06					
07					
08					
09					
10					
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13					
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15					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: C3091605 DFTPP Injection Date: 09/16/03

Instrument ID: TSMC5973 DFTPP Injection Time: 0952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 442	40.4
68	Less than 2.0% of mass 69	0.7 (1.5)1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	10.0 - 80.0% of mass 198	61.2 (60.9)2
197	Less than 2.0% of mass 198	0.0 (0.0)2
198	Greater than 50.0% of mass 442	100.5
199	5.0 to 9.0% of mass 198	7.4 (7.3)2
275	10.0 - 60.0% of mass 442	26.3
365	Greater than 1.0% of mass 442	4.14
441	Less than 100.0% of mass 443	14.3 (75.4)3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0% of mass 442	19.0

1-Value is % mass 69 2-Value is % mass 198
3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PAH05.0	C3091606	09/16/03	1005
02	73964-1	086-LRC-S-0909	C3091608	09/16/03	1036
03					
04					
05					
06					
07					
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20					

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMC5973 Calibration Date(s): 08/22/03 08/22/03

Column: ZB5 ID: 0.25 (mm) Calibration Time(s): 1125 1313

LAB FILE ID: RF0.2: C3082211 RF2.5: C3082212 RF5: C3082213
RF10: C3082214

COMPOUND	RF0.2	RF2.5	RF5	RF7.5	RF10
Naphthalene	1.138	1.075	1.046		1.073
2-Methylnaphthalene	0.625	0.727	0.708		0.731
1-Methylnaphthalene	0.609	0.768	0.750		0.751
Acenaphthylene	2.093	1.983	2.020		2.105
Acenaphthene	1.165	1.108	1.122		1.156
Fluorene	1.356	1.354	1.356		1.410
Phenanthrene	1.077	1.066	1.057		1.073
Anthracene	1.155	1.127	1.061		1.086
Fluoranthene	1.163	1.184	1.168		1.157
Pyrene	1.276	1.249	1.238		1.141
Benzo(a)anthracene	1.097	1.080	1.090		1.078
Chrysene	1.066	1.030	1.036		1.028
Benzo(b)fluoranthene	1.285	1.223	1.203		1.228
Benzo(k)fluoranthene	1.388	1.316	1.337		1.310
Benzo(a)pyrene	1.220	1.101	1.135		1.132
Indeno(1,2,3-cd)pyrene	1.274	1.277	1.269		1.251
Dibenzo(a,h)anthracene	1.008	1.032	1.050		1.042
Benzo(g,h,i)perylene	1.076	1.064	1.061		1.044
o-Terphenyl	0.641	0.617	0.590		0.590

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMC5973 Calibration Date(s): 08/22/03 08/22/03

Column: ZB5 ID: 0.25 (mm) Calibration Time(s): 1125 1313

LAB FILE ID: RF12.5: C3082215 RF15: C3082216 RF17.5: C3082217
RF20: C3082218

COMPOUND	RF12.5	RF15	RF17.5	RF20
Naphthalene	1.073	1.074	1.071	1.139
2-Methylnaphthalene	0.733	0.739	0.712	0.761
1-Methylnaphthalene	0.752	0.748	0.730	0.763
Acenaphthylene	2.093	2.101	1.871	1.844
Acenaphthene	1.173	1.157	1.142	1.205
Fluorene	1.414	1.417	1.376	1.369
Phenanthrene	1.071	1.066	1.026	0.960
Anthracene	1.089	1.090	0.997	0.931
Fluoranthene	1.198	1.171	1.123	1.090
Pyrene	1.178	1.187	1.041	1.089
Benzo(a)anthracene	1.093	1.096	1.075	1.130
Chrysene	1.045	1.033	0.996	1.035
Benzo(b)fluoranthene	1.377	1.385	1.339	1.492
Benzo(k)fluoranthene	1.185	1.304	1.303	1.359
Benzo(a)pyrene	1.184	1.193	1.196	1.251
Indeno(1,2,3-cd)pyrene	1.340	1.360	1.350	1.437
Dibenzo(a,h)anthracene	1.145	1.142	1.159	1.224
Benzo(g,h,i)perylene	1.122	1.124	1.122	1.193
o-Terphenyl	0.583	0.590	0.576	0.603

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMC5973 Calibration Date(s): 08/22/03 08/22/03

Column: ZB5 ID: 0.25 (mm) Calibration Time(s): 1125 1313

COMPOUND	CURVE	AVE RRF A1	%RSD or R^2
Naphthalene	AVRG	1.08599	3.1
2-Methylnaphthalene	AVRG	0.71721	5.6
1-Methylnaphthalene	AVRG	0.73394	7.0
Acenaphthylene	AVRG	2.01382	5.2
Acenaphthene	AVRG	1.15360	2.6
Fluorene	AVRG	1.38165	2.0
Phenanthrene	AVRG	1.04970	3.8
Anthracene	AVRG	1.06703	6.7
Fluoranthene	AVRG	1.15690	3.0
Pyrene	AVRG	1.17503	6.9
Benzo(a)anthracene	AVRG	1.09255	1.6
Chrysene	AVRG	1.03371	1.9
Benzo(b)fluoranthene	AVRG	1.31656	7.6
Benzo(k)fluoranthene	AVRG	1.31299	4.6
Benzo(a)pyrene	AVRG	1.17641	4.3
Indeno(1,2,3-cd)pyrene	AVRG	1.31991	4.8
Dibenzo(a,h)anthracene	AVRG	1.10030	7.0
Benzo(g,h,i)perylene	AVRG	1.10065	4.4
o-Terphenyl	AVRG	0.59895	3.5

FORM 7
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMC5973 Calibration Date: 09/15/03 Time: 1126

Lab File ID: C3091509 Init. Calib. Date(s): 08/22/03 08/22/03

Init. Calib. Times: 1125 1313

GC Column: ZB5 ID: 0.25 (mm)

COMPOUND	ICAL5 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Naphthalene	1.086		1.068		1.6	20.0	AVRG
2-Methylnaphthalene	0.717		0.699		2.5	20.0	AVRG
1-Methylnaphthalene	0.734		0.721		1.8	20.0	AVRG
Acenaphthylene	2.014		2.019		0.2	20.0	AVRG
Acenaphthene	1.154		1.105		4.2	20.0	AVRG
Fluorene	1.382		1.395		0.9	20.0	AVRG
Phenanthrene	1.050		1.042		0.8	20.0	AVRG
Anthracene	1.067		1.085		1.7	20.0	AVRG
Fluoranthene	1.157		1.146		1.0	20.0	AVRG
Pyrene	1.175		1.106		5.9	20.0	AVRG
Benzo(a)anthracene	1.092		1.051		3.8	20.0	AVRG
Chrysene	1.034		1.027		0.7	20.0	AVRG
Benzo(b)fluoranthene	1.316		1.209		8.1	20.0	AVRG
Benzo(k)fluoranthene	1.313		1.261		4.0	20.0	AVRG
Benzo(a)pyrene	1.176		1.101		6.4	20.0	AVRG
Indeno(1,2,3-cd)pyrene	1.320		1.162		12.0	20.0	AVRG
Dibenzo(a,h)anthracene	1.100		0.895		18.6	20.0	AVRG
Benzo(g,h,i)perylene	1.101		0.991		10.0	20.0	AVRG
o-Terphenyl	0.599		0.553		7.7		AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 7
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMC5973 Calibration Date: 09/16/03 Time: 1005

Lab File ID: C3091606 Init. Calib. Date(s): 08/22/03 08/22/03

Init. Calib. Times: 1125 1313

GC Column: ZB5 ID: 0.25 (mm)

COMPOUND	ICAL5 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Naphthalene	1.086		1.055		2.8	20.0	AVRG
2-Methylnaphthalene	0.717		0.610		14.9	20.0	AVRG
1-Methylnaphthalene	0.734		0.629		14.3	20.0	AVRG
Acenaphthylene	2.014		2.112		4.9	20.0	AVRG
Acenaphthene	1.154		1.148		0.5	20.0	AVRG
Fluorene	1.382		1.432		3.6	20.0	AVRG
Phenanthrene	1.050		1.068		1.7	20.0	AVRG
Anthracene	1.067		1.055		1.1	20.0	AVRG
Fluoranthene	1.157		1.135		1.9	20.0	AVRG
Pyrene	1.175		1.077		8.3	20.0	AVRG
Benzo(a)anthracene	1.092		1.029		5.8	20.0	AVRG
Chrysene	1.034		0.995		3.8	20.0	AVRG
Benzo(b)fluoranthene	1.316		1.189		9.6	20.0	AVRG
Benzo(k)fluoranthene	1.313		1.324		0.8	20.0	AVRG
Benzo(a)pyrene	1.176		1.096		6.8	20.0	AVRG
Indeno(1,2,3-cd)pyrene	1.320		1.260		4.5	20.0	AVRG
Dibenzo(a,h)anthracene	1.100		0.981		10.8	20.0	AVRG
Benzo(g,h,i)perylene	1.101		1.082		1.7	20.0	AVRG
o-Terphenyl	0.599		0.546		8.8		AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): C3091509 Date Analyzed: 09/15/03

Instrument ID: TSMC5973 Time Analyzed: 1126

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
	12 HOUR STD	966241	2.70	593322	3.63	1048627	4.45
	UPPER LIMIT	1932482	3.20	1186644	4.13	2097254	4.95
	LOWER LIMIT	483121	2.20	296661	3.13	524314	3.95
	CLIENT SAMPLE NO.						
01	SM091203HLB	801354	2.69	435031	3.63	780003	4.44
02	SM091203HLBL	820755	2.69	440245	3.63	794670	4.44
03	SM091203HLBL	657258	2.69	360829	3.63	663031	4.44
04							
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21							
22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): C3091509 Date Analyzed: 09/15/03

Instrument ID: TSMC5973 Time Analyzed: 1126

		IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	1072252	6.27	961801	7.81		
	UPPER LIMIT	2144504	6.77	1923602	8.31		
	LOWER LIMIT	536126	5.77	480901	7.31		
	CLIENT SAMPLE NO.						
01	SM091203HLB	777458	6.26	712800	7.79		
02	SM091203HLBL	833510	6.27	751086	7.80		
03	SM091203HLBL	679984	6.27	602632	7.79		
04							
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22							

IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): C3091606 Date Analyzed: 09/16/03

Instrument ID: TSMC5973 Time Analyzed: 1005

		IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
	12 HOUR STD	730565	2.68	365374	3.61	663946	4.42
	UPPER LIMIT	1461130	3.18	730748	4.11	1327892	4.92
	LOWER LIMIT	365283	2.18	182687	3.11	331973	3.92
	CLIENT SAMPLE NO.						
01	73964-1	827499	2.68	457211	3.61	799108	4.42
02							
03							
04							
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22							

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): C3091606 Date Analyzed: 09/16/03

Instrument ID: TSMC5973 Time Analyzed: 1005

		IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
	12 HOUR STD	690178	6.24	615028	7.75		
	UPPER LIMIT	1380356	6.74	1230056	8.25		
	LOWER LIMIT	345089	5.74	307514	7.25		
	CLIENT SAMPLE NO.						
01	73964-1	760747	6.24	676930	7.75		
02							
03							
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19							
20							
21							
22							

IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 304 14

Batch No: SM091203 H

Date Extracted: 09.12.03

Start Time: 9 AM

Stop Time: 11 AM

Analysis Required: 8270 PAH

Prep Method: 3550

Analyst/Activity Code* BE / A,B,S,D

Initial Project Check: BE

Final Project Check:

Date Concentrated: 9-12-03

Initials: DK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	PAH	7.3.5.6	1.0	BE
Surr.				
Spike	PAH	7.3.5.7	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 $MeCl_2$/ACE:

AN.A28.0038.9

Na_2SO_4 POWD: X44144

Na_2SO_4 GRAN: Y02631

$MeCl_2$: Y16E79

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D	H.D	COMMENTS
1. T373950*1/SB-7A-11 FT*		SS	30.0			1.0	09.17	09.23	
2. T373950*2/SB-4A-2 FT*		SS					09.17	09.23	
3. T373950*3/SB-4A-6 FT*		SS					09.17	09.23	
4. T373950*4/SB-1A-2 FT*		SS					09.17	09.23	
5. T373950*5/SB-2A-3 FT*		SS					09.17	09.23	
6. T373950*6/SB-13A-1 FT*		SS					09.17	09.23	
7. T373978*1/Soil Boring 12*		SS					09.17	09.23	
8. T373978*3/Soil Boring 5*		SS					09.17	09.24	
9. T373964*1/086-LRC-S-0909-03*	JETC02	SS					09.16	09.23	R|
10.									
11.									
12.									
13.									
14.									
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16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			1.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
MS: T373950 SB-7A-11FT		SS							
MSD:		SS							

Dets: Polynuclear Aromatics <8270>|

+ Additional Dets:

0243

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC02 Sample Fraction: SV

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
14383102	2C30822.b	C3082210.D	DFTPP	DFTPP	DFTPP	14383101		
14383102	2C30822.b	C3082211.D	CALIB_1	PAH0.2	PAH0.2	14383107	3.5.47.6	
14383102	2C30822.b	C3082212.D	CALIB_2	PAH2.5	PAH2.5	14383121	3.5.38.1	
14383102	2C30822.b	C3082213.D	CALIB_3	PAH5.0	PAH5.0	14383122	3.5.38.2	
14383102	2C30822.b	C3082214.D	CALIB_5	PAH10	PAH10	14383123	3.5.38.4	
14383102	2C30822.b	C3082215.D	CALIB_6	PAH12.5	PAH12.5	14383131	3.5.38.5	
14383102	2C30822.b	C3082216.D	CALIB_7	PAH15	PAH15	14383136	3.5.38.6	
14383102	2C30822.b	C3082217.D	CALIB_8	PAH17.5	PAH17.5	4702052	3.5.38.7	
14383102	2C30822.b	C3082218.D	CALIB_9	PAH20.0	PAH20.0	4702053	3.5.39.1	
14385460	1C30915.b	C3091507.D	DFTPP	DFTPP	DFTPP	14385453		
14385460	1C30915.b	C3091509.D	CCALIB_3	PAH05.0	PAH05.0	14385476	3.5.54.3	
14385460	1C30915.b	C3091538.D	BLANK	SM091203HLB	SM091203HLB	2536819	SM091203H	JETC02
14385460	1C30915.b	C3091539.D	LCS	SM091203HLBLCS	SM091203HLBLCS	2536820	SM091203H	JETC02
14385460	1C30915.b	C3091540.D	LCSD	SM091203HLBLCSD	SM091203HLBLCSD	2536821	SM091203H	JETC02
2536922	1C30916.b	C3091605.D	DFTPP	DFTPP	DFTPP	2536921		
2536922	1C30916.b	C3091606.D	CCALIB_3		PAH05.0	2536927	3.5.54.3	
2536922	1C30916.b	C3091608.D	SAMPLE	73964-1	086-LRC-S-0909-0	2536937	SM091203H	JETC02

Sequence Name: C:\MSDCHEM\1\SEQUENCE\C30822A.S
Comment: STL Instrument TSMC5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

MPF
8

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	C3082200	LLPAH4	TUNE5.0~3.5.49.4~1~8270
2	Sample	96	C3082201	LLTUN1	TUNE5.0~3.5.49.4~1~8270
3	Sample	97	C3082202	LLPAH4	PAH5.0~3.5.38.2~1~8270
4	Sample	98	C3082203	LLPAH4	PAH0.2~3.5.47.6~1~8270
5	Sample	97	C3082204	LLPAH4	PAH5.0~3.5.38.2~1~8270
6	Sample	97	C3082205	LLPAH4	PAH5.0~3.5.38.2~1~8270
7	Sample	97	C3082206	LLPAH4	PAH5.0~3.5.38.2~1~8270
8	Sample	97	C3082207	LLPAH4	PAH12.5~3.5.38.5~1~8270
9	Sample	96	C3082208	LLTUN1	TUNE5.0~3.5.49.4~1~8270
10	Sample	51	C3082209	LLPAH5	PAH0.2~3.5.47.6~1~8270
11	Sample	96	C3082210	LLTUN1	TUNE5.0~3.5.49.4~1~8270
12	Sample	51	C3082211	LLPAH5	PAH0.2~3.5.47.6~1~8270
13	Sample	52	C3082212	LLPAH5	PAH2.5~3.5.38.1~1~8270
14	Sample	53	C3082213	LLPAH5	PAH5.0~3.5.38.2~1~8270
15	Sample	54	C3082214	LLPAH5	PAH10~3.5.38.4~1~8270
16	Sample	55	C3082215	LLPAH5	PAH12.5~3.5.38.5~1~8270
17	Sample	56	C3082216	LLPAH5	PAH15~3.5.38.6~1~8270
18	Sample	57	C3082217	LLPAH5	PAH17.5~3.5.38.7~1~8270
19	Sample	58	C3082218	LLPAH5	PAH20.0~3.5.39.1~1~8270
20	Sample	59	C3082219	LLPAH5	73612-16~SM082103H~10~8270
21	Sample	60	C3082220	LLPAH5	73612-17~SM082103H~50~8270
22	Sample	61	C3082221	LLPAH5	73612-18~SM082103H~20~8270
23	Sample	62	C3082222	LLPAH5	73612-19~SM082103H~5~8270
24	Sample	1	C3082223	LLPAH5	SM081303KLB~SM081303K~1~8270
25	Sample	2	C3082224	LLPAH5	SM081303KLBLCS~SM081303K~1~82
26	Sample	3	C3082225	LLPAH5	SM081303KLBLCSD~SM081303K~1~8
27	Sample	26	C3082226	LLPAH5	SM082003DLB~SM082003D~1~8270
28	Sample	27	C3082227	LLPAH5	SM082003DLBLCS~SM082003D~1~82
29	Sample	28	C3082228	LLPAH5	SM082003DLBLCSD~SM082003D~1~8
30	Sample	29	C3082229	LLPAH5	73509-1~SM082003D~1~8270
31	Sample	30	C3082230	LLPAH5	73509-2~SM082003D~1~8270
32	Sample	31	C3082231	LLPAH5	73509-3~SM082003D~1~8270
33	Sample	32	C3082232	LLPAH5	73509-4~SM082003D~1~8270
34	Sample	33	C3082233	LLPAH5	73509-5~SM082003D~1~8270
35	Sample	34	C3082234	LLPAH5	73509-6~SM082003D~1~8270
36	Sample	35	C3082235	LLPAH5	73509-7~SM082003D~1~8270
37	Sample	36	C3082236	LLPAH5	73509-8~SM082003D~1~8270
38	Sample	37	C3082237	LLPAH5	73509-9~SM082003D~1~8270
39	Sample	38	C3082238	LLPAH5	73509-10~SM082003D~1~8270
40	Sample	39	C3082239	LLPAH5	73509-11~SM082003D~1~8270
41	Sample	40	C3082240	LLPAH5	73509-12~SM082003D~1~8270
42	Sample	41	C3082241	LLPAH5	73509-13~SM082003D~1~8270
43	Sample	42	C3082242	LLPAH5	SM0802003DMS~SM082003D~1~8270

CONT'D

Sequence Name: C:\MSDCHEM\1\SEQUENCE\C30915.S
Comment: STL Instrument TSMC5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	C3091501	LLTUN1	TUNE5.0~3.5.49.4~1~8270
2	Sample	97	C3091502	LLPAH6	PAH05.0~3.5.54.3~1~8270
3	Sample	98	C3091503	LLPAH6	PAH0.20~3.5.54.4~1~8270
4	Sample	100	C3091504	LLPAH6	RINSE
5	Sample	96	C3091505	LLPAH6	RINSE
6	Sample	96	C3091506	LLTUN1	TUNE5.0~3.5.49.4~1~8270
7	Sample	96	C3091507	LLTUN1	TUNE5.0~3.5.49.4~1~8270 10:50
8	Sample	97	C3091508	LLPAH6	PAH05.0~3.5.54.3~1~8270
9	Sample	97	C3091509	LLPAH6	PAH05.0~3.5.54.3~1~8270
10	Sample	98	C3091510	LLPAH6	PAH0.20~3.5.54.4~1~8270
11	Sample	1	C3091511	LLPAH6	SM091103ELB~SM091103E~1~8270
12	Sample	2	C3091512	LLPAH6	SM091103ELBLCS~SM091103E~1~82
13	Sample	3	C3091513	LLPAH6	SM091103ELBLCSD~SM091103E~1~8
14	Sample	4	C3091514	LLPAH6	73965-1~SM091103E~1~8270
15	Sample	5	C3091515	LLPAH6	73965-2~SM091103E~1~8270
16	Sample	6	C3091516	LLPAH6	73965-3~SM091103E~1~8270
17	Sample	7	C3091517	LLPAH6	73972-1~SM091103E~1~8270
18	Sample	8	C3091518	LLPAH6	73972-2~SM091103E~1~8270
19	Sample	9	C3091519	LLPAH6	73972-3~SM091103E~1~8270
20	Sample	10	C3091520	LLPAH6	73972-4~SM091103E~1~8270
21	Sample	11	C3091521	LLPAH6	73972-5~SM091103E~1~8270
22	Sample	12	C3091522	LLPAH6	73972-6~SM091103E~1~8270
23	Sample	13	C3091523	LLPAH6	73972-7~SM091103E~1~8270
24	Sample	14	C3091524	LLPAH6	73972-8~SM091103E~1~8270
25	Sample	15	C3091525	LLPAH6	73972-9~SM091103E~1~8270
26	Sample	16	C3091526	LLPAH6	73972-10~SM091103E~1~8270
27	Sample	17	C3091527	LLPAH6	73972-11~SM091103E~1~8270
28	Sample	18	C3091528	LLPAH6	73972-12~SM091103E~1~8270
29	Sample	19	C3091529	LLPAH6	SM091103ELBMS~SM091103E~1~827
30	Sample	20	C3091530	LLPAH6	SM091103ELBMSD~SM091103E~1~82
31	Sample	21	C3091531	LLPAH6	SM091003ELB~SM091003E~1~8270
32	Sample	22	C3091532	LLPAH6	SM091003ELBLCS~SM091003E~1~82
33	Sample	24	C3091533	LLPAH6	SM091003ELBLCSD~SM091003E~1~8 ← Wrong Vial Shot
34	Sample	24	C3091534	LLPAH6	73937-1~SM091003E~1~8270 NEEDS DILUTION
35	Sample	25	C3091535	LLPAH6	73937-2~SM091003E~1~8270
36	Sample	26	C3091536	LLPAH6	SM091003ELBMS~SM091003E~1~827
37	Sample	27	C3091537	LLPAH6	SM091003ELBMSD~SM091003E~1~82
38	Sample	28	C3091538	LLPAH6	SM091203HLB~SM091203H~1~8270
39	Sample	29	C3091539	LLPAH6	SM091203HLBLCS~SM091203H~1~82
40	Sample	30	C3091540	LLPAH6	SM091203HLBLCSD~SM091203H~1~8
41	Sample	31	C3091541	LLPAH6	73950-1~SM091203H~1~8270
42	Sample	32	C3091542	LLPAH6	73950-2~SM091203H~1~8270
43	Sample	33	C3091543	LLPAH6	73950-3~SM091203H~1~8270

Do Maintenance

Reshoot for Internals

CON'T

SBF 9/16/03

0247

Sequence Name: C:\MSDCHEM\1\SEQUENCE\C30916.S
Comment: STL Instrument TSMC5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

SF 9/17

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	C3091601	LLTUN1	TUNE5.0~3.5.49.4~1~8270
2	Sample	97	C3091602	LLPAH6	PAH05.0~3.5.54.3~1~8270
3	Sample	98	C3091603	LLPAH6	PAH0.20~3.5.54.4~1~8270
4	Sample	100	C3091604	LLPAH6	RINSE
5	Sample	96	C3091605	LLTUN1	TUNE5.0~3.5.49.4~1~8270 9:52
6	Sample	97	C3091606	LLPAH6	PAH05.0~3.5.54.3~1~8270
7	Sample	98	C3091607	LLPAH6	PAH0.20~3.5.54.4~1~8270
8	Sample	39	C3091608	LLPAH6	73964-1~SM091203H~1~8270
9	Sample	1	C3091609	LLPAH6	SM091103ELB~SM091103E~1~8270
10	Sample	2	C3091610	LLPAH6	SM091103ELBLCS~SM091103E~1~82
11	Sample	3	C3091611	LLPAH6	SM091103ELBLCSD~SM091103E~1~8
12	Sample	7	C3091612	LLPAH6	73972-1~SM091103E~1~8270
13	Sample	8	C3091613	LLPAH6	73972-2~SM091103E~20~8270
14	Sample	9	C3091614	LLPAH6	73972-3~SM091103E~10~8270
15	Sample	10	C3091615	LLPAH6	73972-4~SM091103E~20~8270
16	Sample	11	C3091616	LLPAH6	73972-5~SM091103E~1~8270
17	Sample	12	C3091617	LLPAH6	73972-6~SM091103E~20~8270
18	Sample	13	C3091618	LLPAH6	73972-7~SM091103E~10~8270
19	Sample	14	C3091619	LLPAH6	73972-8~SM091103E~10~8270
20	Sample	15	C3091620	LLPAH6	73972-9~SM091103E~1~8270
21	Sample	16	C3091621	LLPAH6	73972-10~SM091103E~1~8270
22	Sample	17	C3091622	LLPAH6	73972-11~SM091103E~1~8270
23	Sample	18	C3091623	LLPAH6	73972-12~SM091103E~1~8270
24	Sample	4	C3091624	LLPAH6	73965-1~SM091103E~1~8270
25	Sample	5	C3091625	LLPAH6	73965-2~SM091103E~5~8270
26	Sample	6	C3091626	LLPAH6	73965-3~SM091103E~1~8270
27	Sample	19	C3091627	LLPAH6	SM091103EMS~SM091103E~1~8270
28	Sample	20	C3091628	LLPAH6	SM091103EMSD~SM091103E~1~8270
29	Sample	23	C3091629	LLPAH6	SM091003ELBLCSD~SM091003E~1~8
30	Sample	50	C3091630	LLPAH6	73937-1~SM091003E~10~8270
31	Sample	31	C3091631	LLPAH6	73950-1~SM091203H~1~8270
32	Sample	32	C3091632	LLPAH6	73950-2~SM091203H~1~8270
33	Sample	33	C3091633	LLPAH6	73950-3~SM091203H~1~8270
34	Sample	34	C3091634	LLPAH6	73950-4~SM091203H~1~8270
35	Sample	35	C3091635	LLPAH6	73950-5~SM091203H~1~8270
36	Sample	36	C3091636	LLPAH6	73950-6~SM091203H~1~8270
37	Sample	37	C3091637	LLPAH6	73978-1~SM091203H~1~8270
38	Sample	38	C3091638	LLPAH6	73978-3~SM091203H~1~8270
39	Sample	40	C3091639	LLPAH6	73950-1~SM091203H~1~8270-MS
40	Sample	41	C3091640	LLPAH6	73950-1~SM091203H~1~8270-MSD

Do Maintenance

SBF 9/17/03

0248

SEMIVOLATILE ORGANIC COMPOUNDS
Method 8270

CASE NARRATIVE

CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8270

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091625

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	Bis(2-chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	3&4-Methylphenol	340	U
621-64-7	n-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethyphenol	340	U
111-91-1	Bis(2-chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	690	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	340	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091625

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
86-73-7	Fluorene	340	U
7005-72-3	4-Chlorophenylphenylether	340	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	2-Methyl-4,6-dinitrophenol	1800	U
86-30-6	Diphenylamine/n-Nitrosodiphe	340	U
101-55-3	4-Bromophenylphenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	Bis(2-ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-c,d)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091603ILB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091603ILB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091622

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091603ILB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091603ILB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091622

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091603ILBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091603ILBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091623

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	1900	
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	950	
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	700	
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	890	
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	2000	
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	800	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091603ILBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091603ILBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091623

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	2000	
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	970	
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091603ILBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091603ILBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091624

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	1700	
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	920	
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	650	
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	860	
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	1900	
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	790	

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SM091603ILBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: SM091603ILBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091624

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	2000	
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	1000	
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1500	J
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1MS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091626

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200	
111-44-4	Bis(2-chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	2000	
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	1000	
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	3&4-Methylphenol	340	U
621-64-7	n-Nitroso-di-n-propylamine	800	
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethyphenol	340	U
111-91-1	Bis(2-chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	980	
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	690	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	2200	
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	890	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1MS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091626

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	2200	
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	1100	
84-66-2	Diethylphthalate	340	U
86-73-7	Fluorene	340	U
7005-72-3	4-Chlorophenylphenylether	340	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	2-Methyl-4,6-dinitrophenol	1800	U
86-30-6	Diphenylamine/n-Nitrosodiphe	340	U
101-55-3	4-Bromophenylphenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	2100	
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	Bis(2-ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-c,d)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

FORM I SV

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1MSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091627

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 09/16/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200	
111-44-4	Bis(2-chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	2000	
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	1100	
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	3&4-Methylphenol	340	U
621-64-7	n-Nitroso-di-n-propylamine	840	
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethyphenol	340	U
111-91-1	Bis(2-chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	690	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	2100	
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	340	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	890	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1MSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3091627

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: 4 decanted: (Y/N) N Date Extracted: 09/16/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/16/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	2000	
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	1000	
84-66-2	Diethylphthalate	340	U
86-73-7	Fluorene	340	U
7005-72-3	4-Chlorophenylphenylether	340	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	2-Methyl-4,6-dinitrophenol	1800	U
86-30-6	Diphenylamine/n-Nitrosodiphe	340	U
101-55-3	4-Bromophenylphenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1900	
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	Bis(2-ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-c,d)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (2FP)#	S2 (PHL)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	SM091603ILB	67	73	70	65	73	88			0
02	SM091603ILBL	61	64	65	65	67	82			0
03	SM091603ILBL	61	61	65	59	67	82			0
04	73964-1	57	57	65	59	63	76			0
05	73964-1MS	63	66	70	65	68	88			0
06	73964-1MSD	63	66	70	65	66	82			0
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
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22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(16-113)
S2 (PHL)	= Phenol-d5	(19-114)
S3 (NBZ)	= Nitrobenzene-d5	(20-120)
S4 (FBP)	= 2-Fluorobiphenyl	(30-120)
S5 (TBP)	= 2,4,6-Tribromophenol	(23-129)
S6 (TPH)	= Terphenyl-d14	(30-131)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: SM091603ILB Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
Phenol	3300	0.00	1900	58	13-115
2-Chlorophenol	3300	0.00	1900	58	15-111
1,4-Dichlorobenzene	1700	0.00	950	56	10-105
n-Nitroso-di-n-prop.(1)	1700	0.00	700	41	11-122
1,2,4-Trichlorobenzene	1700	0.00	890	52	10-112
4-Chloro-3-methylphenol	3300	0.00	2000	61	22-114
Acenaphthene	1700	0.00	800	47	18-123
4-Nitrophenol	3300	0.00	2000	61	15-118
2,4-Dinitrotoluene	1700	0.00	970	57	11-120
Pentachlorophenol	3300	0.00	1700	52	10-140
Pyrene	1700	0.00	1200	70	10-133

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	1900	58	58	0	39	13-115
2-Chlorophenol	3300	1700	52	55	11	38	15-111
1,4-Dichlorobenzene	1700	920	54	55	3.2	31	10-105
n-Nitroso-di-n-prop.(1)	1700	650	38	40	7.4	37	11-122
1,2,4-Trichlorobenzene	1700	860	50	51	3.4	22	10-112
4-Chloro-3-methylphenol	3300	1900	58	60	5.1	32	22-114
Acenaphthene	1700	790	46	46	1.2	49	18-123
4-Nitrophenol	3300	2000	61	61	0	57	15-118
2,4-Dinitrotoluene	1700	1000	59	58	3.0	37	11-120
Pentachlorophenol	3300	1500	45	48	12	55	10-140
Pyrene	1700	1200	70	70	0	42	10-133

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM III SV

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 73964-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	MS CONC (ug/Kg)	MS % REC#	QC. LIMITS REC.
Phenol	3500	0.00	2200	63	13-115
2-Chlorophenol	3500	0.00	2000	57	15-111
1,4-Dichlorobenzene	1700	0.00	1000	59	10-105
n-Nitroso-di-n-prop.(1)	1700	0.00	800	47	11-122
1,2,4-Trichlorobenzene	1700	0.00	980	58	10-112
4-Chloro-3-methylphenol	3500	0.00	2200	63	22-114
Acenaphthene	1700	0.00	890	52	18-123
4-Nitrophenol	3500	0.00	2200	63	15-118
2,4-Dinitrotoluene	1700	0.00	1100	65	11-120
Pentachlorophenol	3500	0.00	2100	60	10-140
Pyrene	1700	0.00	1300	76	10-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONC (ug/Kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Phenol	3500	2200	63	63	0	39	13-115
2-Chlorophenol	3500	2000	57	57	0	38	15-111
1,4-Dichlorobenzene	1700	1100	65	62	9.5	31	10-105
n-Nitroso-di-n-prop.(1)	1700	840	49	48	4.9	37	11-122
1,2,4-Trichlorobenzene	1700	1000	59	58	2.0	22	10-112
4-Chloro-3-methylphenol	3500	2100	60	62	4.6	32	22-114
Acenaphthene	1700	890	52	52	0	49	18-123
4-Nitrophenol	3500	2000	57	60	9.5	57	15-118
2,4-Dinitrotoluene	1700	1000	59	62	9.5	37	11-120
Pentachlorophenol	3500	1900	54	57	10	55	10-140
Pyrene	1700	1300	76	76	0	42	10-133

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SM091603ILB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: A3091622 Lab Sample ID: SM091603ILB

Instrument ID: TSMA5973 Date Extracted: 09/16/03

Matrix: (soil/water) SOIL Date Analyzed: 09/16/03

Level:(low/med) LOW Time Analyzed: 2040

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SM091603ILBL	SM091603ILBLCS	A3091623	09/16/03
02	SM091603ILBL	SM091603ILBLCS	A3091624	09/16/03
03	73964-1	086-LRC-S-0909	A3091625	09/16/03
04	73964-1MS	086-LRC-S-0909	A3091626	09/16/03
05	73964-1MSD	086-LRC-S-0909	A3091627	09/16/03
06				
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COMMENTS:

FORM IV SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: A3091611 DFTPP Injection Date: 09/16/03

Instrument ID: TSMA5973 DFTPP Injection Time: 1532

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	37.1
68	Less than 2.0% of mass 69	0.3 (1.0)1
69	Mass 69 relative abundance	29.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	52.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 0.75% of mass 198	2.00
441	Present, but less than mass 443	10.7
442	40.0 - 110.0% of mass 198	73.9
443	15.0 - 24.0% of mass 442	14.1 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA004	BNA004	A3091612	09/16/03	1559
02	BNA010	BNA010	A3091613	09/16/03	1628
03	BNA020	BNA020	A3091614	09/16/03	1656
04	BNA050	BNA050	A3091615	09/16/03	1724
05	BNA080	BNA080	A3091616	09/16/03	1752
06	BNA100	BNA100	A3091617	09/16/03	1820
07	BNA120	BNA120	A3091618	09/16/03	1848
08	BNA160	BNA160	A3091619	09/16/03	1916
09	SM091603ILB	SM091603ILB	A3091622	09/16/03	2040
10	SM091603ILBL	SM091603ILBLCS	A3091623	09/16/03	2107
11	SM091603ILBL	SM091603ILBLCS	A3091624	09/16/03	2137
12	73964-1	086-LRC-S-0909	A3091625	09/16/03	2205
13	73964-1MS	086-LRC-S-0909	A3091626	09/16/03	2232
14	73964-1MSD	086-LRC-S-0909	A3091627	09/16/03	2301
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF4: A3091612 RF10: A3091613 RF20: A3091614
RF50: A3091615 RF80: A3091616

COMPOUND	RF4	RF10	RF20	RF50	RF80
1,4-Dioxane	0.381	0.414	0.415	0.398	0.377
n-Nitrosodimethylamine	0.711	0.815	0.745	0.725	0.693
Pyridine	1.190	1.254	1.316	1.242	1.210
Phenol	1.423	1.597	1.412	1.194	1.065
Aniline	1.770	2.094	1.831	1.685	1.622
Bis(2-chloroethyl)ether	1.106	1.319	1.111	0.950	0.855
2-Chlorophenol	1.459	1.721	1.491	1.405	1.310
1,3-Dichlorobenzene	1.724	1.811	1.744	1.561	1.454
1,4-Dichlorobenzene	1.656	1.734	1.659	1.487	1.407
Benzyl Alcohol	0.800	1.008	0.850	0.693	0.671
1,2-Dichlorobenzene	1.651	1.713	1.550	1.297	1.133
2-Methylphenol	0.970	1.158	1.002	0.928	0.883
bis(2-Chloroisopropyl)ether	2.119	2.517	2.184	1.944	1.808
3&4-Methylphenol	1.301	1.636	1.419	1.227	1.136
n-Nitroso-di-n-propylamine	0.713	0.905	0.756	0.672	0.583
Hexachloroethane	0.670	0.697	0.670	0.563	0.492
Nitrobenzene	0.267	0.309	0.281	0.259	0.237
Isophorone	0.524	0.604	0.539	0.493	0.465
2-Nitrophenol	0.220	0.265	0.239	0.220	0.207
2,4-Dimethyphenol	0.293	0.346	0.309	0.275	0.266
Bis(2-chloroethoxy)methane	0.327	0.398	0.341	0.313	0.288
Benzoic acid	0.090	0.124	0.173	0.182	0.188
2,4-Dichlorophenol	0.279	0.340	0.295	0.269	0.245
1,2,4-Trichlorobenzene	0.356	0.372	0.332	0.295	0.271
Naphthalene	1.073	1.144	1.019	0.888	0.804
4-Chloroaniline	0.396	0.483	0.421	0.366	0.323
2,6-Dichlorophenol	0.286	0.325	0.281	0.247	0.223
Hexachlorobutadiene	0.165	0.168	0.159	0.141	0.131
4-Chloro-3-methylphenol	0.262	0.325	0.288	0.271	0.249
2-Methylnaphthalene	0.585	0.693	0.601	0.519	0.472
1-Methylnaphthalene	0.606	0.677	0.586	0.516	0.469
Hexachlorocyclopentadiene	0.148	0.230	0.232	0.268	0.272
2,4,6-Trichlorophenol	0.380	0.477	0.430	0.401	0.382
2,4,5-Trichlorophenol	0.390	0.488	0.452	0.406	0.383
2-Chloronaphthalene	1.318	1.464	1.365	1.234	1.137
2-Nitroaniline	0.268	0.383	0.354	0.334	0.328
Dimethylphthalate	1.506	1.727	1.490	1.419	1.304
Acenaphthylene	2.219	2.391	2.166	1.815	1.710

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF4: A3091612 RF10: A3091613 RF20: A3091614
RF50: A3091615 RF80: A3091616

COMPOUND	RF4	RF10	RF20	RF50	RF80
2,6-Dinitrotoluene	0.326	0.373	0.340	0.304	0.288
3-Nitroaniline	0.345	0.404	0.398	0.383	0.377
Acenaphthene	1.263	1.410	1.285	1.152	1.060
2,4-Dinitrophenol		0.103	0.102	0.152	0.158
4-Nitrophenol	0.145	0.205	0.187	0.197	0.200
Dibenzofuran	1.816	2.042	1.779	1.601	1.475
2,4-Dinitrotoluene	0.422	0.516	0.476	0.459	0.435
2,3,4,5-Tetrachlorophenol	0.574	0.654	0.594	0.563	0.513
2,3,4,6-Tetrachlorophenol					
Diethylphthalate	1.659	1.825	1.640	1.488	1.346
Fluorene	1.459	1.571	1.372	1.159	1.020
4-Chlorophenylphenylether	0.657	0.675	0.604	0.507	0.455
4-Nitroaniline	0.420	0.528	0.476	0.464	0.442
4,6-Dinitro-2-methylphenol	0.079	0.134	0.122	0.130	0.122
Diphenylamine/n-Nitrosodiphe	0.634	0.710	0.613	0.525	0.464
1,2-Diphenylhydrazine/Azoben	0.662	0.769	0.678	0.571	0.567
4-Bromophenylphenylether	0.182	0.209	0.183	0.168	0.154
Hexachlorobenzene	0.192	0.216	0.183	0.167	0.154
Pentachlorophenol	0.064	0.097	0.092	0.105	0.103
Phenanthrene	1.206	1.298	1.170	0.982	0.905
Anthracene	1.320	1.358	1.209	0.960	0.846
Dinoseb	0.098	0.165	0.154	0.146	0.133
Carbazole	1.176	1.305	1.164	1.005	0.914
Di-n-butylphthalate	1.674	1.836	1.582	1.306	1.180
Fluoranthene	1.242	1.344	1.192	1.032	0.946
Benzidine	0.840	0.915	0.987	0.710	0.795
Pyrene	1.459	1.556	1.445	1.270	1.181
3,3'-Dimethylbenzidine	0.851	0.817	0.857	0.572	0.678
Butylbenzylphthalate	0.854	0.948	0.869	0.775	0.729
3,3'-Dichlorobenzidine	0.394	0.427	0.397	0.361	0.336
Benzo(a)anthracene	1.209	1.312	1.194	1.050	0.972
Chrysene	1.168	1.215	1.131	1.026	0.949
Bis(2-ethylhexyl)phthalate	1.186	1.324	1.173	1.080	1.002
Di-n-octylphthalate	1.950	2.212	1.999	1.839	1.704
Benzo(b)fluoranthene	1.238	1.371	1.242	1.266	1.090
Benzo(k)fluoranthene	1.407	1.479	1.407	1.155	1.156
Benzo(a)pyrene	1.187	1.277	1.185	1.104	1.052
Indeno(1,2,3-c,d)pyrene	1.102	1.242	1.185	1.117	1.060

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF4: A3091612 RF10: A3091613 RF20: A3091614
RF50: A3091615 RF80: A3091616

COMPOUND	RF4	RF10	RF20	RF50	RF80
Dibenzo(a,h)anthracene	0.022	1.039	0.975	0.911	0.873
Benzo(g,h,i)perylene	0.960	1.035	0.981	0.940	0.911
2-Fluorophenol	1.192	1.412	1.348	1.304	1.231
Phenol-d5	1.384	1.690	1.472	1.368	1.253
Nitrobenzene-d5	0.285	0.338	0.302	0.294	0.271
2-Fluorobiphenyl	1.392	1.499	1.351	1.200	1.116
2,4,6-Tribromophenol	0.130	0.168	0.152	0.151	0.148
Terphenyl-d14	0.912	0.952	0.866	0.788	0.743

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF100: A3091617 RF120: A3091618 RF160: A3091619

COMPOUND	RF100	RF120	RF160
1,4-Dioxane	0.366	0.351	0.342
n-Nitrosodimethylamine	0.666	0.660	0.641
Pyridine	1.177	1.142	1.090
Phenol	0.990	0.939	0.854
Aniline	1.552	1.463	1.439
Bis(2-chloroethyl)ether	0.774	0.750	0.683
2-Chlorophenol	1.212	1.176	1.071
1,3-Dichlorobenzene	1.361	1.324	1.226
1,4-Dichlorobenzene	1.312	1.284	1.178
Benzyl Alcohol	0.599	0.577	0.568
1,2-Dichlorobenzene	1.049	1.021	0.886
2-Methylphenol	0.840	0.805	0.730
bis(2-Chloroisopropyl)ether	1.674	1.610	1.412
3&4-Methylphenol	1.045	1.028	0.955
n-Nitroso-di-n-propylamine	0.526	0.488	0.412
Hexachloroethane	0.440	0.419	0.375
Nitrobenzene	0.220	0.218	0.204
Isophorone	0.444	0.438	0.426
2-Nitrophenol	0.196	0.190	0.175
2,4-Dimethyphenol	0.251	0.244	0.230
Bis(2-chloroethoxy)methane	0.267	0.261	0.243
Benzoic acid	0.191	0.183	0.170
2,4-Dichlorophenol	0.232	0.229	0.213
1,2,4-Trichlorobenzene	0.256	0.250	0.222
Naphthalene	0.731	0.711	0.638
4-Chloroaniline	0.292	0.280	0.245
2,6-Dichlorophenol	0.211	0.204	0.192
Hexachlorobutadiene	0.124	0.121	0.111
4-Chloro-3-methylphenol	0.229	0.230	0.210
2-Methylnaphthalene	0.431	0.416	0.371
1-Methylnaphthalene	0.422	0.410	0.368
Hexachlorocyclopentadiene	0.256	0.258	0.232
2,4,6-Trichlorophenol	0.355	0.349	0.312
2,4,5-Trichlorophenol	0.358	0.355	0.311
2-Chloronaphthalene	1.034	1.012	0.896
2-Nitroaniline	0.310	0.301	0.277
Dimethylphthalate	1.235	1.230	1.103
Acenaphthylene	1.568	1.528	1.311

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF100: A3091617 RF120: A3091618 RF160: A3091619

COMPOUND	RF100	RF120	RF160
2,6-Dinitrotoluene	0.269	0.270	0.250
3-Nitroaniline	0.365	0.367	0.341
Acenaphthene	0.980	0.951	0.818
2,4-Dinitrophenol	0.169	0.166	0.163
4-Nitrophenol	0.192	0.188	0.176
Dibenzofuran	1.370	1.341	1.184
2,4-Dinitrotoluene	0.416	0.416	0.384
2,3,4,5-Tetrachlorophenol	0.497	0.495	0.446
2,3,4,6-Tetrachlorophenol			
Diethylphthalate	1.217	1.199	1.032
Fluorene	0.914	0.889	0.762
4-Chlorophenylphenylether	0.413	0.408	0.352
4-Nitroaniline	0.436	0.422	0.392
4,6-Dinitro-2-methylphenol	0.111	0.108	0.093
Diphenylamine/n-Nitrosodiphe	0.422	0.404	0.353
1,2-Diphenylhydrazine/Azoben	0.514	0.496	0.426
4-Bromophenylphenylether	0.139	0.143	0.134
Hexachlorobenzene	0.146	0.142	0.134
Pentachlorophenol	0.104	0.100	0.097
Phenanthrene	0.816	0.804	0.723
Anthracene	0.760	0.728	0.637
Dinoseb	0.125	0.123	0.115
Carbazole	0.836	0.803	0.731
Di-n-butylphthalate	1.058	1.002	0.873
Fluoranthene	0.859	0.839	0.768
Benzidine	0.733	0.700	0.648
Pyrene	1.093	1.107	1.033
3,3'-Dimethylbenzidine	0.638	0.623	0.587
Butylbenzylphthalate	0.663	0.644	0.608
3,3'-Dichlorobenzidine	0.316	0.311	0.286
Benzo(a)anthracene	0.920	0.902	0.851
Chrysene	0.869	0.898	0.860
Bis(2-ethylhexyl)phthalate	0.916	0.903	0.816
Di-n-octylphthalate	1.554	1.533	1.418
Benzo(b)fluoranthene	1.127	1.145	1.209
Benzo(k)fluoranthene	1.006	0.953	
Benzo(a)pyrene	0.985	0.987	0.942
Indeno(1,2,3-c,d)pyrene	1.009	0.996	0.967

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF100: A3091617 RF120: A3091618 RF160: A3091619

COMPOUND	RF100	RF120	RF160
Dibenzo(a,h)anthracene	0.813	0.813	0.772
Benzo(g,h,i)perylene	0.871	0.858	0.841
2-Fluorophenol	1.183	1.171	1.099
Phenol-d5	1.189	1.148	1.049
Nitrobenzene-d5	0.261	0.256	0.244
2-Fluorobiphenyl	1.018	0.996	0.865
2,4,6-Tribromophenol	0.140	0.138	0.129
Terphenyl-d14	0.705	0.694	0.659

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
1,4-Dioxane	AVRG		0.38070		7.2
n-Nitrosodimethylamine	AVRG		0.70711		7.9
Pyridine	AVRG		1.20270		5.8
Phenol	2ORDR	0.00000000	0.57559	0.1739	1.000
Aniline	AVRG		1.68209		12.8
Bis(2-chloroethyl)ether	2ORDR	0.00000000	0.74188	0.2652	0.999
2-Chlorophenol	2ORDR	0.00000000	0.54713	8.887e-002	1.000
1,3-Dichlorobenzene	AVRG		1.52569		14.3
1,4-Dichlorobenzene	AVRG		1.46465		13.9
Benzyl Alcohol	2ORDR	0.00000000	1.23978	0.2438	0.996
1,2-Dichlorobenzene	2ORDR	0.00000000	0.47774	0.1774	0.998
2-Methylphenol	AVRG		0.91475		14.5
bis(2-Chloroisopropyl)ether	2ORDR	0.00000000	0.33777	6.287e-002	0.998
3&4-Methylphenol	2ORDR	0.00000000	0.66216	0.1019	0.999
n-Nitroso-di-n-propylamine	2ORDR	0.00000000	0.53682	1.0860	0.994
Hexachloroethane	2ORDR	0.00000000	1.03105	1.0869	0.999
Nitrobenzene	AVRG		0.24942		14.3
Isophorone	AVRG		0.49141		12.4
2-Nitrophenol	AVRG		0.21397		13.4
2,4-Dimethyphenol	AVRG		0.27696		13.8
Bis(2-chloroethoxy)methane	2ORDR	0.00000000	2.63628	1.5331	1.000
Benzoic acid	LINR	0.00000000	5.57223		0.993
2,4-Dichlorophenol	2ORDR	0.00000000	3.20976	1.7429	1.000
1,2,4-Trichlorobenzene	2ORDR	0.00000000	2.50744	2.1757	0.999
Naphthalene	2ORDR	0.00000000	0.78032	0.3052	0.999
4-Chloroaniline	2ORDR	0.00000000	1.56134	2.5044	0.999
2,6-Dichlorophenol	2ORDR	0.00000000	3.39322	2.3989	1.000
Hexachlorobutadiene	2ORDR	0.00000000	5.74131	7.2463	1.000
4-Chloro-3-methylphenol	AVRG		0.25810		14.4
2-Methylnaphthalene	2ORDR	0.00000000	1.28699	0.9309	0.999
1-Methylnaphthalene	2ORDR	0.00000000	1.31626	0.9418	0.999
Hexachlorocyclopentadiene	LINR	0.00000000	4.01887		0.990
2,4,6-Trichlorophenol	AVRG		0.38589		13.2
2,4,5-Trichlorophenol	AVRG		0.39288		14.3
2-Chloronaphthalene	2ORDR	0.00000000	0.56518	0.1490	0.999
2-Nitroaniline	AVRG		0.31953		12.1
Dimethylphthalate	AVRG		1.37690		14.4
Acenaphthylene	2ORDR	0.00000000	0.34224	7.554e-002	0.996

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
2,6-Dinitrotoluene	AVRG		0.30236		13.8
3-Nitroaniline	AVRG		0.37265		6.1
Acenaphthene	2ORDR	0.00000000	0.55119	0.1936	0.997
2,4-Dinitrophenol	2ORDR	0.00000000	6.42222	-0.585	0.997
4-Nitrophenol	AVRG		0.18636		10.1
Dibenzofuran	2ORDR	0.00000000	0.44590	8.109e-002	0.999
2,4-Dinitrotoluene	AVRG		0.44065		9.4
2,3,4,5-Tetrachlorophenol	AVRG		0.54217		12.3
2,3,4,6-Tetrachlorophenol	AVRG				
Diethylphthalate	2ORDR	0.00000000	0.42557	0.1252	0.997
Fluorene	2ORDR	0.00000000	0.45825	0.2696	0.997
4-Chlorophenylphenylether	2ORDR	0.00000000	1.23928	1.0904	0.997
4-Nitroaniline	AVRG		0.44745		9.4
4,6-Dinitro-2-methylphenol	2ORDR	0.00000000	5.12015	14.111	0.996
Diphenylamine/n-Nitrosodiphe	2ORDR	0.00000000	1.07921	1.2103	0.999
1,2-Diphenylhydrazine/Azoben	2ORDR	0.00000000	1.05891	0.7070	0.995
4-Bromophenylphenylether	2ORDR	0.00000000	5.38051	3.9561	0.998
Hexachlorobenzene	2ORDR	0.00000000	5.17377	4.3033	1.000
Pentachlorophenol	2ORDR	0.00000000	9.10862	2.8408	0.999
Phenanthrene	2ORDR	0.00000000	0.72761	0.2244	0.999
Anthracene	2ORDR	0.00000000	0.54988	0.3928	0.999
Dinoseb	2ORDR	0.00000000	5.89638	6.1596	1.000
Carbazole	2ORDR	0.00000000	0.70273	0.2273	1.000
Di-n-butylphthalate	2ORDR	0.00000000	0.38975	0.2102	0.998
Fluoranthene	2ORDR	0.00000000	0.72614	0.1880	0.999
Benzidine	AVRG		0.79124		14.7
Pyrene	2ORDR	0.00000000	0.69536	6.645e-002	0.999
3,3'-Dimethylbenzidine	2ORDR	0.00000000	1.33388	0.1516	0.995
Butylbenzylphthalate	2ORDR	0.00000000	1.06205	0.2441	0.999
3,3'-Dichlorobenzidine	AVRG		0.35364		14.0
Benzo(a)anthracene	2ORDR	0.00000000	0.82723	0.1038	1.000
Chrysene	2ORDR	0.00000000	0.93572	6.823e-002	0.998
Bis(2-ethylhexyl)phthalate	2ORDR	0.00000000	0.70836	0.1558	0.999
Di-n-octylphthalate	2ORDR	0.00000000	0.44294	4.641e-002	0.999
Benzo(b)fluoranthene	AVRG		1.21111		7.4
Benzo(k)fluoranthene	2ORDR	0.00000000	0.58988	0.1531	0.994
Benzo(a)pyrene	AVRG		1.08975		10.9
Indeno(1,2,3-c,d)pyrene	AVRG		1.08470		8.8

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Dibenzo(a,h)anthracene	2ORDR	0.00000000	0.99481	9.858e-002	0.999
Benzo(g,h,i)perylene	AVRG		0.92463		7.3
2-Fluorophenol	AVRG		1.24246		8.4
Phenol-d5	2ORDR	0.00000000	0.57690	8.841e-002	1.000
Nitrobenzene-d5	AVRG		0.28132		10.7
2-Fluorobiphenyl	2ORDR	0.00000000	0.54616	0.1680	0.998
2,4,6-Tribromophenol	LINR	0.00000000	7.31192		0.992
Terphenyl-d14	AVRG		0.78978		13.8

FORM VI SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): A3091619 Date Analyzed: 09/16/03

Instrument ID: TSMA5973 Time Analyzed: 1916

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	271753	5.61	1043400	6.81	494216	8.31
	UPPER LIMIT	543506	6.11	2086800	7.31	988432	8.81
	LOWER LIMIT	135877	5.11	521700	6.31	247108	7.81
	CLIENT SAMPLE NO.						
01	SM091603ILB	285445	5.62	1082084	6.80	519731	8.30
02	SM091603ILBL	306321	5.61	1142684	6.80	555987	8.31
03	SM091603ILBL	309812	5.61	1145478	6.80	559307	8.31
04	73964-1	334708	5.61	1232093	6.80	576667	8.31
05	73964-1MS	304203	5.62	1126745	6.80	551902	8.30
06	73964-1MSD	294756	5.61	1112220	6.80	538842	8.31
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): A3091619 Date Analyzed: 09/16/03

Instrument ID: TSMA5973 Time Analyzed: 1916

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	908146	9.52	679980	12.00	612690	13.59
	UPPER LIMIT	1816292	10.02	1359960	12.50	1225380	14.09
	LOWER LIMIT	454073	9.02	339990	11.50	306345	13.09
	CLIENT SAMPLE NO.						
01	SM091603ILB	851580	9.51	692094	11.98	533084	13.57
02	SM091603ILBL	890928	9.52	724582	11.98	567747	13.58
03	SM091603ILBL	885497	9.51	731533	11.98	575139	13.58
04	73964-1	957749	9.51	783587	11.98	620886	13.58
05	73964-1MS	883096	9.51	718835	11.98	568271	13.57
06	73964-1MSD	868760	9.51	689748	11.98	557563	13.57
07							
08							
09							
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11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 306 6

Batch No: SM091203 J

Date Extracted: 09.12.03

Start Time: 1130 AM

Stop Time: 12-50 pm

Analysis Required: 8270

Prep Method: 3550

Analyst/Activity Code* BE / A, B, S, D

Initial Project Check: BE

Final Project Check:

Date Concentrated: 9-12-03

Initials: PK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8270	73.4.1	1.0	BE
Surr.				
Spike	8270	7.3.4.13	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 $MeCl_2$ / ACE:

AN.A28.B02A.9

Na_2SO_4 POWD: X44144

Na_2SO_4 GRAN: Y02631

$MeCl_2$: Y16E79

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D	H.D	COMMENTS
1. [redacted]	JETC02	SS	30.0			~~10.0~~ 1.0 DK 9-12-03	09.16	09.23	R|
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			~~10.0~~ 1.0 DK 9-12-03			
Lab Spike #1		SS	30.0			↓			
Lab Spike #2		SS	30.0			↓			
MS: T373964 086-LRC-S-0909-03		SS	↓			↓			
MSD: T373964 086-LRC-S-0909-03		SS	↓			↓			

Dets: TCL - Semivolatiles <8270>|

+ Additional Dets:

0282

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC02 Sample Fraction: SV

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
2537092	2A30916.b	A3091611.D	DFTPP	TUNE50	TUNE50	2537091		
2537092	2A30916.b	A3091612.D	CALIB_1	BNA004	BNA004	14385584	3.5.50.2	
2537092	2A30916.b	A3091613.D	CALIB_2	BNA010	BNA010	14385585	3.5.50.3	
2537092	2A30916.b	A3091614.D	CALIB_3	BNA020	BNA020	14385586	3.5.50.4	
2537092	2A30916.b	A3091615.D	CALIB_4	BNA050	BNA050	14385587	3.5.50.5	
2537092	2A30916.b	A3091616.D	CALIB_5	BNA080	BNA080	14385588	3.5.51.1	
2537092	2A30916.b	A3091617.D	CALIB_6	BNA100	BNA100	14385589	3.5.51.2	
2537092	2A30916.b	A3091618.D	CALIB_7	BNA120	BNA120	14385590	3.5.51.3	
2537092	2A30916.b	A3091619.D	CALIB_8	BNA160	BNA160	14385567	3.5.51.4	
2537092	2A30916.b	A3091622.D	BLANK	SM091603ILB	SM091603ILB	14385603	SM091603I	
2537092	2A30916.b	A3091623.D	LCS	SM091603ILBLCS	SM091603ILBLCS	14385604	SM091603I	
2537092	2A30916.b	A3091624.D	LCSD	SM091603ILBLCSD	SM091603ILBLCSD	14385605	SM091603I	
2537092	2A30916.b	A3091626.D	MS	73964-1MS	086-LRC-S-0909-0	14385607	SM091603I	JETC02
2537092	2A30916.b	A3091627.D	MSD	73964-1MSD	086-LRC-S-0909-0	14385608	SM091603I	JETC02
2537092	2A30916.b	A3091625.D	SAMPLE	73964-1	086-LRC-S-0909-0	14385606	SM091603I	JETC02

Sequence Name: C:\HPCHEM\1\SEQUENCE\A30916.S
Comment: STL Instrument TSMA5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

SE
9/1

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	A3091600	BNA9	RINSE
2	Sample	96	A3091601	TUN1	TUNE050~3.5.35.9~1~8270/625
3	Sample	97	A3091603	BNA9	BNA050~3.5.50.2~1~8270/625
4	Sample	98	A3091604	BNA9	BNA010~3.5.50.2~1~8270/625
5	Sample	100	A3091605	BNA9	RINSE
6	Sample	100	A3091606	BNA9	RINSE
7	Sample	100	A3091607	BNA9	RINSE
8	Sample	97	A3091608	BNA9	BNA050~3.5.50.2~1~8270/625
9	Sample	100	A3091609	BNA9	RINSE
10	Sample	97	A3091610	BNA9	BNA080~3.5.51.1~1~8270/625
11	Sample	96	A3091611	TUN1	TUNE050~3.5.35.9~1~8270/625
12	Sample	1	A3091612	BNA9	BNA004~3.5.50.2~1~8270/625
13	Sample	2	A3091613	BNA9	BNA010~3.5.50.3~1~8270/625
14	Sample	3	A3091614	BNA9	BNA020~3.5.50.4~1~8270/625
15	Sample	4	A3091615	BNA9	BNA050~3.5.50.5~1~8270/625
16	Sample	5	A3091616	BNA9	BNA080~3.5.51.1~1~8270/625
17	Sample	6	A3091617	BNA9	BNA100~3.5.51.2~1~8270/625
18	Sample	7	A3091618	BNA9	BNA120~3.5.51.3~1~8270/625
19	Sample	8	A3091619	BNA9	BNA160~3.5.51.4~1~8270/625
20	Sample	9	A3091620	BNA9	SM091003ALBLCS~SM091003A~1~82
21	Sample	10	A3091621	BNA9	SM091003ALBLCSD~SM091003A~1~8
22	Sample	11	A3091622	BNA9	SM091603ILB~SM091603I~1~8270/
23	Sample	12	A3091623	BNA9	SM091603ILBLCS~SM091603I~1~82
24	Sample	13	A3091624	BNA9	SM091603ILBLCSD~SM091603I~1~8
25	Sample	14	A3091625	BNA9	73964-1~SM091603I~1~8270/625
26	Sample	15	A3091626	BNA9	73964-1~SM091603I~1~8270/625-
27	Sample	16	A3091627	BNA9	73964-1~SM091603I~1~8270/625-
28	Sample	17	A3091628	BNA9	73461-1~SM091003A~1~8270/625~
29	Sample	18	A3091629	BNA9	73461-1~SM091003A~1~8270/625~

SBF 9/17/03

VOLATILE ORGANIC COMPOUNDS
Method 8260

CASE NARRATIVE

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC02

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 5030
Cleanup: N/A
Analysis: SW-846 8260

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 9/24/03

Timothy Preston
Project Manager

FORMS

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 4.5 (g/mL) G Lab File ID: 2FI11007

Level: (low/med) LOW Date Received: 09/10/03

% Moisture: not dec. 4 Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	11	U
75-01-4	VINYL CHLORIDE	11	U
74-83-9	BROMOMETHANE	11	U
75-00-3	CHLOROETHANE	11	U
75-35-4	1,1-DICHLOROETHENE	5.7	U
67-64-1	ACETONE	57	U
75-15-0	CARBON DISULFIDE	5.7	U
75-09-2	METHYLENE CHLORIDE	5.7	U
156-60-5	trans-1,2-DICHLOROETHENE	5.7	U
75-34-3	1,1-DICHLOROETHANE	5.7	U
156-59-2	cis-1,2-DICHLOROETHENE	5.7	U
540-59-0	1,2-DICHLOROETHENE (total)	5.7	U
67-66-3	CHLOROFORM	5.7	U
78-93-3	2-BUTANONE	29	U
71-55-6	1,1,1-TRICHLOROETHANE	5.7	U
56-23-5	CARBON TETRACHLORIDE	5.7	U
107-06-2	1,2-DICHLOROETHANE	5.7	U
71-43-2	BENZENE	5.7	U
79-01-6	TRICHLOROETHENE	5.7	U
78-87-5	1,2-DICHLOROPROPANE	5.7	U
75-27-4	BROMODICHLOROMETHANE	5.7	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.7	U
108-88-3	TOLUENE	5.7	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.7	U
79-00-5	1,1,2-TRICHLOROETHANE	5.7	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	29	U
591-78-6	2-HEXANONE	29	U
127-18-4	TETRACHLOROETHENE	5.7	U
124-48-1	DIBROMOCHLOROMETHANE	5.7	U
108-90-7	CHLOROBENZENE	5.7	U
100-41-4	ETHYLBENZENE	5.7	U
108-38-3	m,p-XYLENE	5.7	U
95-47-6	o-XYLENE	5.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

73964-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 086-LRC-S-0909-03

Sample wt/vol: 4.5 (g/mL) G

Lab File ID: 2FI11007

Level: (low/med) LOW

Date Received: 09/10/03

% Moisture: not dec. 4

Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	5.7	U
100-42-5	STYRENE	5.7	U
75-25-2	BROMOFORM	5.7	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0911MB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 2F0911MB

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 2FI11006

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	10	U
75-01-4	VINYL CHLORIDE	10	U
74-83-9	BROMOMETHANE	10	U
75-00-3	CHLOROETHANE	10	U
75-35-4	1,1-DICHLOROETHENE	5.0	U
67-64-1	ACETONE	50	U
75-15-0	CARBON DISULFIDE	5.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	5.0	U
75-34-3	1,1-DICHLOROETHANE	5.0	U
156-59-2	cis-1,2-DICHLOROETHENE	5.0	U
540-59-0	1,2-DICHLOROETHENE (total)	5.0	U
67-66-3	CHLOROFORM	5.0	U
78-93-3	2-BUTANONE	25	U
71-55-6	1,1,1-TRICHLOROETHANE	5.0	U
56-23-5	CARBON TETRACHLORIDE	5.0	U
107-06-2	1,2-DICHLOROETHANE	5.0	U
71-43-2	BENZENE	5.0	U
79-01-6	TRICHLOROETHENE	5.0	U
78-87-5	1,2-DICHLOROPROPANE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	5.0	U
108-88-3	TOLUENE	5.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	25	U
591-78-6	2-HEXANONE	25	U
127-18-4	TETRACHLOROETHENE	5.0	U
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYLBENZENE	5.0	U
108-38-3	m,p-XYLENE	5.0	U
95-47-6	o-XYLENE	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0911MB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 2F0911MB

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 2FI11006

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	5.0	U
100-42-5	STYRENE	5.0	U
75-25-2	BROMOFORM	5.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0911MBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0911MBLCS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI11003

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	36	
75-01-4	VINYL CHLORIDE	39	
74-83-9	BROMOMETHANE	31	
75-00-3	CHLOROETHANE	43	
75-35-4	1,1-DICHLOROETHENE	53	
67-64-1	ACETONE	490	
75-15-0	CARBON DISULFIDE	55	
75-09-2	METHYLENE CHLORIDE	54	
156-60-5	trans-1,2-DICHLOROETHENE	54	
75-34-3	1,1-DICHLOROETHANE	54	
156-59-2	cis-1,2-DICHLOROETHENE	54	
540-59-0	1,2-DICHLOROETHENE (total)	110	
67-66-3	CHLOROFORM	55	
78-93-3	2-BUTANONE	500	E
71-55-6	1,1,1-TRICHLOROETHANE	47	
56-23-5	CARBON TETRACHLORIDE	46	
107-06-2	1,2-DICHLOROETHANE	46	
71-43-2	BENZENE	48	
79-01-6	TRICHLOROETHENE	47	
78-87-5	1,2-DICHLOROPROPANE	47	
75-27-4	BROMODICHLOROMETHANE	48	
10061-01-5	cis-1,3-DICHLOROPROPENE	44	
108-88-3	TOLUENE	49	
10061-02-6	trans-1,3-DICHLOROPROPENE	44	
79-00-5	1,1,2-TRICHLOROETHANE	47	
108-10-1	4-METHYL-2-PENTANONE (MIBK)	470	E
591-78-6	2-HEXANONE	470	E
127-18-4	TETRACHLOROETHENE	49	
124-48-1	DIBROMOCHLOROMETHANE	48	
108-90-7	CHLOROBENZENE	51	
100-41-4	ETHYLBENZENE	51	
108-38-3	m,p-XYLENE	100	
95-47-6	o-XYLENE	51	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0911MBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0911MBLCS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI11003

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	160	
100-42-5	STYRENE	52	
75-25-2	BROMOFORM	46	
79-34-5	1,1,2,2-TETRACHLOROETHANE	51	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0911MBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix: (soil/water) SOIL Lab Sample ID: 2F0911MBLCSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 2FI11004

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	35	
75-01-4	VINYL CHLORIDE	40	
74-83-9	BROMOMETHANE	33	
75-00-3	CHLOROETHANE	43	
75-35-4	1,1-DICHLOROETHENE	48	
67-64-1	ACETONE	510	
75-15-0	CARBON DISULFIDE	50	
75-09-2	METHYLENE CHLORIDE	50	
156-60-5	trans-1,2-DICHLOROETHENE	49	
75-34-3	1,1-DICHLOROETHANE	48	
156-59-2	cis-1,2-DICHLOROETHENE	49	
540-59-0	1,2-DICHLOROETHENE (total)	98	
67-66-3	CHLOROFORM	49	
78-93-3	2-BUTANONE	520	E
71-55-6	1,1,1-TRICHLOROETHANE	42	
56-23-5	CARBON TETRACHLORIDE	42	
107-06-2	1,2-DICHLOROETHANE	42	
71-43-2	BENZENE	45	
79-01-6	TRICHLOROETHENE	42	
78-87-5	1,2-DICHLOROPROPANE	42	
75-27-4	BROMODICHLOROMETHANE	44	
10061-01-5	cis-1,3-DICHLOROPROPENE	41	
108-88-3	TOLUENE	45	
10061-02-6	trans-1,3-DICHLOROPROPENE	42	
79-00-5	1,1,2-TRICHLOROETHANE	47	
108-10-1	4-METHYL-2-PENTANONE (MIBK)	470	E
591-78-6	2-HEXANONE	490	E
127-18-4	TETRACHLOROETHENE	44	
124-48-1	DIBROMOCHLOROMETHANE	43	
108-90-7	CHLOROBENZENE	45	
100-41-4	ETHYLBENZENE	45	
108-38-3	m,p-XYLENE	91	
95-47-6	o-XYLENE	45	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

2F0911MBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Matrix: (soil/water) SOIL

Lab Sample ID: 2F0911MBLCSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 2FI11004

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/11/03

GC Column: DB-624 60M ID: 0.32 (mm)

Dilution Factor: 1.0

Soil Extract Volume:_____(uL)

Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
1330-20-7	XYLENE (total)	140	
100-42-5	STYRENE	46	
75-25-2	BROMOFORM	44	
79-34-5	1,1,2,2-TETRACHLOROETHANE	48	

FORM I VOA

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER (DCB) #	TOT OUT
01	2F0911MBLCS	94	80	84	86	0
02	2F0911MBLCSD	100	82	84	84	0
03	2F0911MB	96	74	80	90	0
04	73964-1	110	91	89	98	0
05						
06						
07						
08						
09						
10						
11						
12						
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27						
28						
29						
30						

		QC LIMITS
SMC1 (DFM)	= DIBROMFLUOROMETHANE	(58-142)
SMC2 (TOL)	= TOLUENE-d8	(64-136)
SMC3 (BFB)	= p-BROMOFLUOROBENZENE	(63-135)
OTHER(DCB)	= 1,2-DICHLOROBENZENE d4	(70-130)

Column to be used to flag recovery values

* Values outside of laboratory QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Matrix Spike - Sample No.: 2F0911MB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
BENZENE	50	0.00	48	96	49-142
CHLOROBENZENE	50	0.00	51	102	66-135
1,1-DICHLOROETHENE	50	0.00	53	106	40-164
TOLUENE	50	0.00	49	98	38-158
TRICHLOROETHENE	50	0.00	47	94	51-146

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
BENZENE	50	45	90	93	6.4	42	49-142
CHLOROBENZENE	50	45	90	96	12	34	66-135
1,1-DICHLOROETHENE	50	48	96	101	9.9	46	40-164
TOLUENE	50	45	90	94	8.5	32	38-158
TRICHLOROETHENE	50	42	84	89	11	34	51-146

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

2F0911MB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project:

SDG No.: JETC02

Lab File ID: 2FI11006

Lab Sample ID: 2F0911MB

Date Analyzed: 09/11/03

Time Analyzed: 1457

GC Column: DB-624 6 ID: 0.32 (mm)

Heated Purge: (Y/N) Y

Instrument ID: TVMF5973

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	2F0911MBLCS	2F0911MBLCS	2FI11003	1318
02	2F0911MBLCSD	2F0911MBLCSD	2FI11004	1351
03	73964-1	086-LRC-S-0909	2FI11007	1536
04				
05				
06				
07				
08				
09				
10				
11				
12				
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29				
30				

COMMENTS:

FORM IV VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 2F0811-CURVE

Lab File ID: 1FH11001 BFB Injection Date: 08/11/03

Instrument ID: TVMF5973 BFB Injection Time: 1127

GC Column: DB-624 30 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.0
75	30.0 - 66.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 120.0% of mass 95	114.7
175	4.0 - 9.0% of mass 174	8.0 (7.0)1
176	93.0 - 101.0% of mass 174	113.1 (98.6)1
177	5.0 - 9.0% of mass 176	7.9 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 001	VSTD 001	2FH11003	08/11/03	1427
02	VSTD 02.5	VSTD 02.5	2FH11004	08/11/03	1501
03	VSTD 005	VSTD 005	2FH11005	08/11/03	1534
04	VSTD 010	VSTD 010	2FH11006	08/11/03	1607
05	VSTD 025	VSTD 025	2FH11007	08/11/03	1641
06	VSTD 050	VSTD 050	2FH11008	08/11/03	1714
07	VSTD 075	VSTD 075	2FH11009	08/11/03	1747
08	VSTD 100	VSTD 100	2FH11010	08/11/03	1820
09	VSTD 200	VSTD 200	2FH11011	08/11/03	1854
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21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID: 2FI11001 BFB Injection Date: 09/11/03

Instrument ID: TVMF5973 BFB Injection Time: 1111

GC Column: DB-624 30 ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.9
75	30.0 - 66.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.6 (0.5)1
174	50.0 - 120.0% of mass 95	103.4
175	4.0 - 9.0% of mass 174	8.3 (8.0)1
176	93.0 - 101.0% of mass 174	100.0 (96.7)1
177	5.0 - 9.0% of mass 176	5.5 (5.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD 050	VSTD 050	2FI11002	09/11/03	1144
02	2F0911MBLCS	2F0911MBLCS	2FI11003	09/11/03	1318
03	2F0911MBLCSD	2F0911MBLCSD	2FI11004	09/11/03	1351
04	2F0911MB	2F0911MB	2FI11006	09/11/03	1457
05	73964-1	086-LRC-S-0909	2FI11007	09/11/03	1536
06					
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF1: 2FH11003 RF2.5: 2FH11004 RF5: 2FG05011
RF10: 2FG05012 RF25: 2FG05013

COMPOUND	RF1	RF2.5	RF5	RF10	RF25
CHLOROMETHANE			1.506	1.417	1.447
VINYL CHLORIDE			1.631	1.753	1.664
BROMOMETHANE			1.175	1.150	1.472
CHLOROETHANE			1.006	1.064	1.032
1,1-DICHLOROETHENE			1.621	1.563	1.746
ACETONE		0.064	0.051	0.054	0.048
CARBON DISULFIDE			5.433	5.067	5.242
METHYLENE CHLORIDE			1.434	1.349	1.333
trans-1,2-DICHLOROETHENE			1.578	1.648	1.733
1,1-DICHLOROETHANE			2.376	2.319	2.408
cis-1,2-DICHLOROETHENE			1.550	1.534	1.572
1,2-DICHLOROETHENE (total)			1.564	1.591	1.653
CHLOROFORM			2.434	2.409	2.426
2-BUTANONE		0.084	0.082	0.077	0.073
1,1,1-TRICHLOROETHANE			0.622	0.636	0.631
CARBON TETRACHLORIDE			0.570	0.550	0.567
1,2-DICHLOROETHANE			0.352	0.359	0.345
BENZENE			1.430	1.404	1.455
TRICHLOROETHENE			0.409	0.397	0.411
1,2-DICHLOROPROPANE			0.276	0.281	0.273
BROMODICHLOROMETHANE			0.419	0.404	0.404
cis-1,3-DICHLOROPROPENE			0.380	0.411	0.415
TOLUENE			0.953	0.903	0.973
trans-1,3-DICHLOROPROPENE			0.308	0.299	0.309
1,1,2-TRICHLOROETHANE			0.182	0.158	0.168
4-METHYL-2-PENTANONE (MIBK)		0.073	0.061	0.065	0.064
2-HEXANONE		0.238	0.214	0.222	0.216
TETRACHLOROETHENE			0.992	0.975	1.073
DIBROMOCHLOROMETHANE			0.672	0.640	0.655
CHLOROBENZENE			2.416	2.288	2.475
ETHYLBENZENE			3.921	4.022	4.473
m,p-XYLENE			1.555	1.616	1.802
o-XYLENE			1.457	1.403	1.599
XYLENE (total)			1.522	1.545	1.734
STYRENE			2.242	2.298	2.540
BROMOFORM			0.332	0.365	0.332
1,1,2,2-TETRACHLOROETHANE			0.551	0.520	0.496

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF1: 2FH11003 RF2.5: 2FH11004 RF5: 2FG05011
RF10: 2FG05012 RF25: 2FG05013

COMPOUND	RF1	RF2.5	RF5	RF10	RF25
DIBROMFLUOROMETHANE			2.250	1.708	1.541
TOLUENE-d8			1.786	1.627	1.581
p-BROMOFLUOROBENZENE			1.176	1.091	1.013
1,2-DICHLOROBENZENE d4			1.312	1.162	1.104

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF50: 2FG05014 RF75: 2FG05015 RF100: 2FG05016
RF200: 2FG05017

COMPOUND	RF50	RF75	RF100	RF200
CHLOROMETHANE		1.431	1.513	1.354
VINYL CHLORIDE		1.769	1.887	1.620
BROMOMETHANE		1.500	1.235	0.994
CHLOROETHANE		1.084	1.159	1.062
1,1-DICHLOROETHENE		1.777	1.940	1.940
ACETONE		0.051	0.048	0.049
CARBON DISULFIDE		4.886	5.263	5.063
METHYLENE CHLORIDE		1.323	1.371	1.343
trans-1,2-DICHLOROETHENE		1.796	1.904	1.901
1,1-DICHLOROETHANE		2.428	2.641	2.520
cis-1,2-DICHLOROETHENE		1.619	1.761	1.762
1,2-DICHLOROETHENE (total)		1.708	1.832	1.831
CHLOROFORM		2.418	2.588	2.516
2-BUTANONE		0.078	0.078	0.082
1,1,1-TRICHLOROETHANE		0.729	0.736	0.744
CARBON TETRACHLORIDE		0.642	0.691	0.669
1,2-DICHLOROETHANE		0.378	0.389	0.394
BENZENE		1.597	1.681	1.659
TRICHLOROETHENE		0.445	0.467	0.465
1,2-DICHLOROPROPANE		0.302	0.313	0.311
BROMODICHLOROMETHANE		0.436	0.448	0.439
cis-1,3-DICHLOROPROPENE		0.466	0.482	0.478
TOLUENE		1.081	1.121	1.108
trans-1,3-DICHLOROPROPENE		0.377	0.378	0.382
1,1,2-TRICHLOROETHANE		0.190	0.189	0.185
4-METHYL-2-PENTANONE (MIBK)		0.075	0.071	0.076
2-HEXANONE		0.245	0.224	0.240
TETRACHLOROETHENE		1.174	1.270	1.313
DIBROMOCHLOROMETHANE		0.728	0.729	0.739
CHLOROBENZENE		2.659	2.721	2.748
ETHYLBENZENE		4.862	5.088	5.130
m,p-XYLENE		1.999	2.108	2.234
o-XYLENE		1.804	1.875	1.970
XYLENE (total)		1.934	2.031	2.146
STYRENE		2.917	3.012	3.149
BROMOFORM		0.427	0.407	0.415
1,1,2,2-TETRACHLOROETHANE		0.580	0.534	0.566

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

LAB FILE ID: RF50: 2FG05014 RF75: 2FG05015 RF100: 2FG05016
RF200: 2FG05017

COMPOUND	RF50	RF75	RF100	RF200
DIBROMFLUOROMETHANE		1.437	1.359	1.434
TOLUENE-d8		1.584	1.665	1.627
p-BROMOFLUOROBENZENE		1.056	1.082	1.088
1,2-DICHLOROBENZENE d4		1.052	1.097	1.066

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
CHLOROMETHANE	AVRG		1.45021		3.9
VINYL CHLORIDE	AVRG		1.73866		6.0
BROMOMETHANE	2ORDR	0.1136	0.35831	0.1541	0.994
CHLOROETHANE	AVRG		1.07606		4.9
1,1-DICHLOROETHENE	2ORDR	3.12e-002	0.53291	-2.86e-003	0.999
ACETONE	2ORDR	-0.107	19.5850	0.3823	0.998
CARBON DISULFIDE	AVRG		5.14323		3.5
METHYLENE CHLORIDE	AVRG		1.36082		2.7
trans-1,2-DICHLOROETHENE	2ORDR	2.794e-002	0.53636	-1.92e-003	1.000
1,1-DICHLOROETHANE	2ORDR	3.032e-002	0.38072	1.188e-003	0.999
cis-1,2-DICHLOROETHENE	2ORDR	2.416e-002	0.58966	-3.75e-003	0.999
1,2-DICHLOROETHENE (total)	2ORDR	5.21e-002	0.56186	-1.37e-003	1.000
CHLOROFORM	AVRG		2.47242		2.7
2-BUTANONE	2ORDR	-3.43e-002	12.7334	-0.148	0.998
1,1,1-TRICHLOROETHANE	2ORDR	3.321e-002	1.30790	8.553e-003	0.999
CARBON TETRACHLORIDE	LINR	2.417e-002	1.47429		0.998
1,2-DICHLOROETHANE	2ORDR	1.952e-002	2.56377	-2.38e-002	0.999
BENZENE	2ORDR	3.709e-002	0.59243	6.069e-004	1.000
TRICHLOROETHENE	2ORDR	2.911e-002	2.12316	5.603e-003	0.999
1,2-DICHLOROPROPANE	2ORDR	2.788e-002	3.11954	5.767e-002	0.999
BROMODICHLOROMETHANE	AVRG		0.43210		5.8
cis-1,3-DICHLOROPROPENE	LINR	2.636e-002	2.07278		0.999
TOLUENE	2ORDR	3.863e-002	0.86691	5.954e-003	0.999
trans-1,3-DICHLOROPROPENE	LINR	3.848e-002	2.58667		0.999
1,1,2-TRICHLOROETHANE	AVRG		0.18257		8.3
4-METHYL-2-PENTANONE (MIBK)	2ORDR	0.1504	13.1637	1.321e-002	0.996
2-HEXANONE	2ORDR	7.615e-002	4.01895	1.509e-002	0.994
TETRACHLOROETHENE	2ORDR	3.89e-002	0.81597	-1.19e-002	0.999
DIBROMOCHLOROMETHANE	2ORDR	2.297e-002	1.33107	5.497e-003	0.999
CHLOROBENZENE	2ORDR	2.531e-002	0.36407	-2.21e-004	1.000
ETHYLBENZENE	2ORDR	3.813e-002	0.19605	-1.48e-004	1.000
m,p-XYLENE	2ORDR	7.463e-002	0.49071	-2.64e-003	1.000
o-XYLENE	2ORDR	3.962e-002	0.54425	-5.29e-003	1.000
XYLENE (total)	2ORDR	0.1140	0.50740	-1.78e-003	1.000
STYRENE	2ORDR	4.244e-002	0.33584	-1.72e-003	1.000
BROMOFORM	2ORDR	4.381e-002	2.27627	6.781e-002	0.998
1,1,2,2-TETRACHLOROETHANE	AVRG		0.55890		9.7

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date(s): 07/05/03 08/11/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1544 1854

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
DIBROMFLUOROMETHANE	2ORDR	-8.09e-002	0.76945	-9.9e-003	0.999
TOLUENE-d8	AVRG		1.65237		4.3
p-BROMOFLUOROBENZENE	AVRG		1.08892		4.6
1,2-DICHLOROBENZENE d4	LINR	-2.45e-002	0.94085		1.000

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date: 09/11/03 Time: 1144

Lab File ID: 2FI11002 Init. Calib. Date(s): 07/05/03 08/11/03

Heated Purge: (Y/N) Y Init. Calib. Times: 1544 1854

GC Column: DB-624 60M ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
CHLOROMETHANE	55	50	AVRG	10.0	100
VINYL CHLORIDE	60	50	AVRG	20.0	20.0
BROMOMETHANE	60	50	2ORDR	20.0	100
CHLOROETHANE	58	50	AVRG	16.0	100
1,1-DICHLOROETHENE	50	50	2ORDR	0.0	20.0
ACETONE	490	500	2ORDR	2.0	100
CARBON DISULFIDE	50	50	AVRG	0.0	100
METHYLENE CHLORIDE	54	50	AVRG	8.0	100
trans-1,2-DICHLOROETHENE	51	50	2ORDR	2.0	100
1,1-DICHLOROETHANE	51	50	2ORDR	2.0	100
cis-1,2-DICHLOROETHENE	54	50	2ORDR	8.0	100
1,2-DICHLOROETHENE (total)	100	100	2ORDR	0.0	100
CHLOROFORM	54	50	AVRG	8.0	20.0
2-BUTANONE	510	500	2ORDR	2.0	100
1,1,1-TRICHLOROETHANE	44	50	2ORDR	12.0	100
CARBON TETRACHLORIDE	44	50	LINR	12.0	100
1,2-DICHLOROETHANE	43	50	2ORDR	14.0	100
BENZENE	45	50	2ORDR	10.0	100
TRICHLOROETHENE	44	50	2ORDR	12.0	100
1,2-DICHLOROPROPANE	50	50	2ORDR	0.0	20.0
BROMODICHLOROMETHANE	47	50	AVRG	6.0	100
cis-1,3-DICHLOROPROPENE	47	50	LINR	6.0	100
TOLUENE	48	50	2ORDR	4.0	20.0
trans-1,3-DICHLOROPROPENE	44	50	LINR	12.0	100
1,1,2-TRICHLOROETHANE	46	50	AVRG	8.0	100
4-METHYL-2-PENTANONE (MIBK)	480	500	2ORDR	4.0	100
2-HEXANONE	480	500	2ORDR	4.0	100
TETRACHLOROETHENE	55	50	2ORDR	10.0	100
DIBROMOCHLOROMETHANE	49	50	2ORDR	2.0	100
CHLOROBENZENE	51	50	2ORDR	2.0	100
ETHYLBENZENE	51	50	2ORDR	2.0	20.0
m,p-XYLENE	100	100	2ORDR	0.0	100
o-XYLENE	52	50	2ORDR	4.0	100
XYLENE (total)	160	150	2ORDR	6.7	100
STYRENE	52	50	2ORDR	4.0	100
BROMOFORM	48	50	2ORDR	4.0	100
1,1,2,2-TETRACHLOROETHANE	50	50	AVRG	0.0	100

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Instrument ID: TVMF5973 Calibration Date: 09/11/03 Time: 1144

Lab File ID: 2FI11002 Init. Calib. Date(s): 07/05/03 08/11/03

Heated Purge: (Y/N) Y Init. Calib. Times: 1544 1854

GC Column: DB-624 60M ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
DIBROMFLUOROMETHANE	56	50	2ORDR	12.0	100
TOLUENE-d8	48	50	AVRG	4.0	100
p-BROMOFLUOROBENZENE	52	50	AVRG	4.0	100
1,2-DICHLOROBENZENE d4	49	50	LINR	2.0	100

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): 2FI11002 Date Analyzed: 09/11/03

Instrument ID: TVMF5973 Time Analyzed: 1144

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) Y

		IS1(DCA) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	50117	3.81	220093	4.09	85598	6.12
	UPPER LIMIT	100234	4.31	440186	4.59	171196	6.62
	LOWER LIMIT	25059	3.31	110047	3.59	42799	5.62
	CLIENT SAMPLE NO.						
01	2F0911MBLCS	50709	3.81	221069	4.09	89309	6.12
02	2F0911MBLCSD	46706	3.81	198910	4.09	84481	6.12
03	2F0911MB	49895	3.81	221730	4.09	84865	6.12
04	73964-1	53600	3.81	221473	4.09	90271	6.12
05							
06							
07							
08							
09							
10							
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14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCA) = 1,2-DICHLOROETHANE-d4
IS2 (DFB) = 1,4-DIFLUOROBENZENE
IS3 (CBZ) = CHLOROBENZENE-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC02

Lab File ID (Standard): 2FI11002 Date Analyzed: 09/11/03

Instrument ID: TVMF5973 Time Analyzed: 1144

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) Y

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	97663	7.94				
	UPPER LIMIT	195326	8.44				
	LOWER LIMIT	48832	7.44				
	CLIENT SAMPLE NO.						
01	2F0911MBLCS	96533	7.94				
02	2F0911MBLCSD	91318	7.94				
03	2F0911MB	76117	7.94				
04	73964-1	83647	7.94				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (DCB) = 1,4-DICHLOROBENZENE d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: JETC02 Sample Fraction: VOA

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4302171	2F0811-CURVE.	2FH11001.D	BFB	2F0811BFB	2F0811BFB	4308749		
4302171	2F0811-CURVE.	2FH11003.D	CALIB_1	VSTD 001	VSTD 001	4308751		
4302171	2F0811-CURVE.	2FH11004.D	CALIB_2	VSTD 02.5	VSTD 02.5	4302388		
4302171	2F0811-CURVE.	2FH11005.D	CALIB_3	VSTD 005	VSTD 005	4302389		
4302171	2F0811-CURVE.	2FH11006.D	CALIB_4	VSTD 010	VSTD 010	4302390		
4302171	2F0811-CURVE.	2FH11007.D	CALIB_5	VSTD 025	VSTD 025	4302391		
4302171	2F0811-CURVE.	2FH11008.D	CALIB_6	VSTD 050	VSTD 050	4302392		
4302171	2F0811-CURVE.	2FH11009.D	CALIB_7	VSTD 075	VSTD 075	4302393		
4302171	2F0811-CURVE.	2FH11010.D	CALIB_8	VSTD 100	VSTD 100	4302394		
4302171	2F0811-CURVE.	2FH11011.D	CALIB_9	VSTD 200	VSTD 200	4302395		
4308254	2F0911.b	2FI11001.D	BFB	2F0911BFB	2F0911BFB	4308253		
4308254	2F0911.b	2FI11002.D	CCALIB_6	VSTD 050	VSTD 050	4308259		
4308254	2F0911.b	2FI11003.D	LCS	2F0911MBLCS	2F0911MBLCS	4308331	VM091103M	JETC02
4308254	2F0911.b	2FI11004.D	LCSD	2F0911MBLCSD	2F0911MBLCSD	4308332	VM091103M	JETC02
4308254	2F0911.b	2FI11006.D	BLANK	2F0911MB	2F0911MB	4308735	VM091103M	JETC02
4308254	2F0911.b	2FI11007.D	SAMPLE	73964-1	086-LRC-S-0909-0	4308736	VM091103M	JETC02

VOA INSTRUMENT LOG - GC/MS

Date: 9/11/3	Analyst: YG	ICAL/CCAL	
Inst. ID: NMF	Sequence:	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5
Tune File: ATune.U		Time: 3.81	Time: 6.12
Tune Method: PTS	EM Voltage: 1671	Area: 50K	Area: 85K
Analysis Method: PTS	EM Voltage: 1671	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4
ICAL Files: YG ~~2FEI~~	2FH11003→11	Time: 4.09	Time: 7.94
Daily Clock ID: 2F0911.b		Area: 220K	Area: 97K
ICAL/Clock ID: 2F0811.b			
Analytical Method: 8260B or 624 or 524.2			
SOILS			

Standard	Standard Lot #	Conc. (ug/ml)	Volume(ml)	Notes
BFB	5b.11.51.2	25		
Vm Daily 1	53.3	5/100/1000		
↓ 2	53.4	20/40/4000		
GAS 1	54.3	5/50		
↓ 2	54.4	20/200		
SPIKE	YG ~~52.5~~	25		new lot 5b.11.54.6
SUR	51.4	↓		
REACTIVES	54.5	10/100		
Anions 5	56.4	250		
↓ 8	56.5	310		
VG GAS Mix	53.2	10		

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Lead Initials	Target Sublist	Comments
2FI11001	—	BFB	2	5ml / —	—	—	—				—	
2		VMSTND050	4					NA	NA	YG		
3		2FC911MBLCS	6									
4		LCSD	8									
5		LCS	10									
6		MB	12									
7	T373964-1	086-LRC-S-0909-03	14	/ 4.53	VM091103M	1.0	8260B-SS				+CL-V-3/90	% moisture
8	T373946-1	5-2 (Single Drum)	16	/ 5.04							BTEXM	40%
9	-2	5-3 (3 Open Drum)	18	/ 5.46								90%
10	-3	5-4 (Portable Tank)	20	/ 5.09								80%
11	-4	5-1 (SW Corner)	22	/ 5.35								90%
12	-5	5-5 (South 55 Drum)	24	/ 6.90								90%
13	T373950-1	SB-1A-11 Ft	26	/ 10.06								10%
14	-2	SB-4A-2 Ft	28	/ 8.33								
15	-3	SB-4A 6 Ft	30	/ 11.18								
16	-4	SB-2A 3 Ft	32	/ 8.72								
17	-5	SB-2A-3 Ft	34	/ 10.55								
18	-6	SB-13A-1 Ft	36	/ 15.32								
19	—	Blank / Rinse	38	—	—	—	—				—	
20	—	Blank / Rinse	40	—	—	—	—				—	
NFF	YG											

FVM00C-T:05.21.03:5

STL TALLAHASSEE

0315

VOA INSTRUMENT LOG - GC/MS

Date: 8/11/3	Analyst: [illegible]	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
Inst. ID: VMF	Sequence:	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5	BFB	[illegible] Sb. 11.82.1	25		
Tune File: ATune.4		Time: 3.82	Time: 6.11	VM Sur Mix	42.3	25		
Tune Method: PTS	EM Voltage: 1671	Area: 77K	Area: 131K	Daily 1	44.1	5/100/1000		
Analysis Method: PTS	EM Voltage: 1671	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4	↓ 2	44.2	20/400/4000		
ICAL Files: 2FH0811.B → 11		Time: 4.09	Time: 7.44	Bracketing	43.3	10/100		
Daily Clock ID: 1F0811.b		Area: 301K	Area: 140K	GAS 1	43.1	5/50		
ICAL/Clock ID: ↓				↓ 2	↓ 43.2	20/200		
Analytical Method: 8260B or 624 or 524.2				Spike	N/A	25		Recc Spike Sb. 11.47.3
				Archer IS	Sb. 11. 35.4	250		
				↓ ↓ ↓	↓ 35.5	310		
				VG GAS Mix	N/A	10		

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Lond Initials	Target Sublist	Comments
2FH11001	—	BFB	2	5ml	—	—	—	N/A		[illegible]		
2		VMSTD 050	4									
3		001	6									
4		0.2.5	8									
5		005	10									
6		010	12									
7		025	14									
8		0.50	16									
9		075	18									
10		100	20									
11		200	22									
12		Rinse	24									
NFE [illegible] 8/14/3												

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LEVEL III DATA PACKAGE

SDG# JETC03
STL Log Number: T374380
Project: JETC and Building 271

Prepared for
Aerostar Environmental Services, Inc.
by
STL Tallahassee
Tallahassee, Florida

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CHAIN-OF-CUSTODY DOCUMENTATION

STL Tallahassee

CH2M Hill Constructors, Inc.
15 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
171591-006 Page 1 of

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.)
ETC and Building 271	171591	STL - Tallahassee		
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Excavation Characterization Sampling	0086			
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCLP Volatiles by 1311/8260B (GRAB)	TCL Semi-volatiles(8270C),TRPH (FL-PRO),TCLP Metals(6010B), TCLP Pesticides (8081A), TCLP Herbicides (8151A), PCBs (8082), Corrosivity (9045A, Ignitability (1010/1020)							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86EWCS100203	Characterization of Excavated Soil	S	10/02/03		B	7 Day	1	4							N		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: GEOFF REICHOLD	10-2-03	1545	Printed Name and Signature:	10/2/2003	1559
Printed Name and Signature:			Printed Name and Signature: Matt Jones	10/3/03	9:21
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

T374380

Form CC1001, Rev 02/00

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REPORT OF SAMPLES WITH SDG# OF JETC03

SAMPLE#	SAMPLE DESCRIPTION	DATE SAMPLED	DATE RECEIVED	MATRIX
T374380*1	086-EWC-S-1002-03	10/02/03	10/03/03	SOLID

LABORATORY REPORT

LOG NO: T3-74380
Received: 03 OCT 03
Reported: 10 OCT 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
TCLP extraction volatiles ZHE (1311)	
TCLP Extraction Date	10.07.03
Batch ID	VM100803T
Volatiles in TCLP Extract (8260)	
Benzene (TCLP), mg/l	0.020U
Carbon tetrachloride (TCLP), mg/l	0.020U
Chlorobenzene (TCLP), mg/l	0.020U
Chloroform (TCLP), mg/l	0.020U
1,2-Dichloroethane (TCLP), mg/l	0.020U
1,1-Dichloroethylene (TCLP), mg/l	0.020U
Methyl ethyl ketone (TCLP), mg/l	0.10U
Tetrachloroethylene (TCLP), mg/l	0.020U
Trichloroethylene (TCLP), mg/l	0.020U
Vinyl chloride (TCLP), mg/l	0.040U
Surrogate - Toluene-d8	96 %
Surrogate - 4-Bromofluorobenzene	96 %
Surrogate - Dibromofluoromethane	88 %
Prep Date	10.08.03
Analysis Date	10.08.03
Batch ID	VM100803T

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
TCLP extraction - non-volatile (1311)	
TCLP Extraction Date	10.06.03
Pesticides in TCLP extract (8081)	
Chlordane (TCLP), ug/ml dw	0.025U
Endrin (TCLP), ug/ml dw	0.0050U
Heptachlor (TCLP), ug/ml dw	0.0025U
Heptachlor epoxide (TCLP), ug/ml dw	0.0025U
Lindane (g-BHC) (TCLP), ug/ml dw	0.0025U
Methoxychlor (TCLP), ug/ml dw	0.020U
Toxaphene (TCLP), ug/ml dw	0.25U
Surrogate - Tetrachloro-m-xylene	68 %
Surrogate - Decachlorobiphenyl	82 %
Prep Date	10.07.03
Analysis Date	10.09.03
Batch ID	SG100703D
Herbicides in TCLP extract (8151)	
2,4-D (TCLP), mg/l	0.025U
2,4,5-TP (Silvex) (TCLP), mg/l	0.025U
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	58 %
Prep Date	10.07.03
Analysis Date	10.09.03
Batch ID	SG100703P

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
Metals in TCLP Extract (6010)	
Arsenic (TCLP), mg/l	0.20U
Barium (TCLP), mg/l	1.0U
Cadmium (TCLP), mg/l	0.10U
Chromium (TCLP), mg/l	0.20U
Lead (TCLP), mg/l	0.20U
Selenium (TCLP), mg/l	0.50U
Silver (TCLP), mg/l	0.10U
Prep Date	10.07.03
Analysis Date	10.07.03
Batch ID	ME100703O
Mercury in TCLP Extract (7470)	
Mercury (TCLP), mg/l	0.020U
Prep Date	10.09.03
Analysis Date	10.09.03
Batch ID	ME100903T

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1				
TCL - Semivolatiles (8270)					
Phenol, ug/kg dw	380U				
bis(2-Chloroethyl)ether, ug/kg dw	380U				
2-Chlorophenol, ug/kg dw	380U				
1,3-Dichlorobenzene, ug/kg dw	380U				
1,4-Dichlorobenzene, ug/kg dw	380U				
1,2-Dichlorobenzene, ug/kg dw	380U				
2-Methylphenol (o-Cresol), ug/kg dw	380U				
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy l)ether], ug/kg dw	380U				
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/kg dw	380U				
N-Nitroso-di-n-propylamine, ug/kg dw	380U				
Hexachloroethane, ug/kg dw	380U				
Nitrobenzene, ug/kg dw	380U				
Isophorone, ug/kg dw	380U				
2-Nitrophenol, ug/kg dw	380U				
2,4-Dimethylphenol, ug/kg dw	380U				
bis(2-Chloroethoxy)methane, ug/kg dw	380U				
2,4-Dichlorophenol, ug/kg dw	380U				
1,2,4-Trichlorobenzene, ug/kg dw	380U				
Naphthalene, ug/kg dw	3200				
4-Chloroaniline, ug/kg dw	750U				
Hexachlorobutadiene, ug/kg dw	380U				

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
4-Chloro-3-methylphenol, ug/kg dw	380U
2-Methylnaphthalene, ug/kg dw	6000
Hexachlorocyclopentadiene, ug/kg dw	380U
2,4,6-Trichlorophenol, ug/kg dw	380U
2,4,5-Trichlorophenol, ug/kg dw	380U
2-Chloronaphthalene, ug/kg dw	380U
2-Nitroaniline, ug/kg dw	1900U
Dimethylphthalate, ug/kg dw	380U
Acenaphthylene, ug/kg dw	380U
2,6-Dinitrotoluene, ug/kg dw	380U
3-Nitroaniline, ug/kg dw	1900U
Acenaphthene, ug/kg dw	380U
2,4-Dinitrophenol, ug/kg dw	1900U
4-Nitrophenol, ug/kg dw	1900U
Dibenzofuran, ug/kg dw	150J
2,4-Dinitrotoluene, ug/kg dw	380U
Diethylphthalate, ug/kg dw	380U
4-Chlorophenylphenyl ether, ug/kg dw	380U
Fluorene, ug/kg dw	51J
4-Nitroaniline, ug/kg dw	1900U
4,6-Dinitro-2-methylphenol, ug/kg dw	1900U
N-Nitrosodiphenylamine, ug/kg dw	380U
4-Bromophenylphenyl ether, ug/kg dw	380U

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
Hexachlorobenzene, ug/kg dw	380U
Pentachlorophenol, ug/kg dw	1900U
Phenanthrene, ug/kg dw	58J
Anthracene, ug/kg dw	380U
Carbazole, ug/kg dw	380U
Di-n-butylphthalate, ug/kg dw	380U
Fluoranthene, ug/kg dw	380U
Pyrene, ug/kg dw	380U
Butylbenzylphthalate, ug/kg dw	380U
3,3'-Dichlorobenzidine, ug/kg dw	750U
Benzo(a)anthracene, ug/kg dw	380U
Chrysene, ug/kg dw	380U
bis(2-Ethylhexyl)phthalate, ug/kg dw	300J
Di-n-octylphthalate, ug/kg dw	380U
Benzo(b)fluoranthene, ug/kg dw	380U
Benzo(k)fluoranthene, ug/kg dw	380U
Benzo(a)pyrene, ug/kg dw	380U
Indeno(1,2,3-cd)pyrene, ug/kg dw	380U
Dibenzo(a,h)anthracene, ug/kg dw	380U
Benzo(g,h,i)perylene, ug/kg dw	380U
Surrogate - 2-Fluorophenol	53 %
Surrogate - Phenol-d5	53 %
Surrogate - Nitrobenzene - d5	63 %

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
Surrogate - 2-Fluorobiphenyl	47 %
Surrogate - 2,4,6-Tribromophenol	63 %
Surrogate - Terphenyl-d14	63 %
Prep Date	10.06.03
Analysis Date	10.09.03
Batch ID	SM100603H
Petroleum Range Organics (FL-PRO)	
Petroleum Hydrocarbons , mg/kg dw	6200
Surrogate, o-Terphenyl	*F33
Surrogate-C39	*F33
Prep Date	10.06.03
Analysis Date	10.09.03
Batch ID	SG100603I

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-1	086-EWC-S-1002-03	10-02-03	JETC03

PARAMETER	74380-1
PCB's (8082)	
Aroclor-1016, ug/kg dw	38U
Aroclor-1221, ug/kg dw	76U
Aroclor-1232, ug/kg dw	38U
Aroclor-1242, ug/kg dw	38U
Aroclor-1248, ug/kg dw	38U
Aroclor-1254, ug/kg dw	38U
Aroclor-1260, ug/kg dw	38U
Surrogate - TCX	55 %
Surrogate - DCB	42 %
Prep Date	10.06.03
Analysis Date	10.08.03
Batch ID	SG100603K
Ignitability - Burn Rate (1030), mm/sec	<2.2
Prep Date	10.03.03
Analysis Date	10.03.03
Batch ID	GE100303BR
Corrosivity-pH (EPA 9040/9041)	*F7

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Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-2	TCLP Extraction Fluid Blank		JETC03
74380-3	Regulatory Limit		JETC03

PARAMETER	74380-2	74380-3
Volatiles in TCLP Extract (8260)		
Benzene (TCLP), mg/l	0.020U	0.50
Carbon tetrachloride (TCLP), mg/l	0.020U	0.50
Chlorobenzene (TCLP), mg/l	0.020U	100
Chloroform (TCLP), mg/l	0.020U	6.0
1,2-Dichloroethane (TCLP), mg/l	0.020U	0.50
1,1-Dichloroethylene (TCLP), mg/l	0.020U	0.70
Methyl ethyl ketone (TCLP), mg/l	0.10U	200
Tetrachloroethylene (TCLP), mg/l	0.020U	0.70
Trichloroethylene (TCLP), mg/l	0.020U	0.50
Vinyl chloride (TCLP), mg/l	0.040U	0.20
Surrogate - Toluene-d8	96 %	---
Surrogate - 4-Bromofluorobenzene	96 %	---
Surrogate - Dibromofluoromethane	88 %	---
Prep Date	10.08.03	---
Analysis Date	10.08.03	---
Batch ID	VM100803T	VM100803T

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-2	TCLP Extraction Fluid Blank		JETC03
74380-3	Regulatory Limit		JETC03

PARAMETER	74380-2	74380-3
Pesticides in TCLP extract (8081)		
Chlordane (TCLP), ug/ml	0.025U	0.30
Endrin (TCLP), ug/ml	0.0050U	0.020
Heptachlor (TCLP), ug/ml	0.0025U	0.0080
Heptachlor epoxide (TCLP), ug/ml	0.0025U	0.0080
Lindane (g-BHC) (TCLP), ug/ml	0.0025U	0.40
Methoxychlor (TCLP), ug/ml	0.025U	10
Toxaphene (TCLP), ug/ml	0.25U	0.50
Surrogate - Tetrachloro-m-xylene	69 %	---
Surrogate - Decachlorobiphenyl	100 %	---
Prep Date	10.07.03	---
Analysis Date	10.08.03	---
Batch ID	SG100703D	SG100703D
Herbicides in TCLP extract (8151)		
2,4-D (TCLP), mg/l	0.025U	10
2,4,5-TP (Silvex) (TCLP), mg/l	0.025U	1.0
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	102 %	---
Prep Date	10.07.03	---
Analysis Date	10.09.03	---
Batch ID	SG100703P	---

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74380-2	TCLP Extraction Fluid Blank		JETC03
74380-3	Regulatory Limit		JETC03

PARAMETER	74380-2	74380-3
Metals in TCLP Extract (6010)		
Arsenic (TCLP), mg/l	0.20U	5.0
Barium (TCLP), mg/l	1.0U	100
Cadmium (TCLP), mg/l	0.10U	1.0
Chromium (TCLP), mg/l	0.20U	5.0
Lead (TCLP), mg/l	0.20U	5.0
Selenium (TCLP), mg/l	0.50U	1.0
Silver (TCLP), mg/l	0.10U	5.0
Prep Date	10.07.03	---
Analysis Date	10.07.03	---
Batch ID	ME100703O	---
Mercury in TCLP Extract (7470)		
Mercury (TCLP), mg/l	0.020U	0.20
Prep Date	10.09.03	---
Analysis Date	10.09.03	---
Batch ID	ME100903T	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-4	Method Blank		JETC03
74380-7	Lab Control Standard Result		JETC03
74380-8	Lab Control Standard Duplicate Result		JETC03
74380-9	Spike Amount Added, LCS/LCSD		JETC03
74380-11	Lab Control Standard % Recovery		JETC03

PARAMETER	74380-4	74380-7	74380-8	74380-9	74380-11
TCL - Semivolatiles (8270)					
Phenol, ug/kg dw	330U	2500	2000	3300	76 %
bis(2-Chloroethyl)ether, ug/kg dw	330U	---	---	---	---
2-Chlorophenol, ug/kg dw	330U	2200	1800	3300	67 %
1,3-Dichlorobenzene, ug/kg dw	330U	---	---	---	---
1,4-Dichlorobenzene, ug/kg dw	330U	1100	950	3300	33 %
1,2-Dichlorobenzene, ug/kg dw	330U	---	---	---	---
2-Methylphenol (o-Cresol), ug/kg dw	330U	---	---	---	---
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/kg dw	330U	---	---	---	---
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/kg dw	330U	---	---	---	---
N-Nitroso-di-n-propylamine, ug/kg dw	330U	870	660	3300	26 %
Hexachloroethane, ug/kg dw	330U	---	---	---	---
Nitrobenzene, ug/kg dw	330U	---	---	---	---
Isophorone, ug/kg dw	330U	---	---	---	---

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74380-4	Method Blank		JETC03
74380-7	Lab Control Standard Result		JETC03
74380-8	Lab Control Standard Duplicate Result		JETC03
74380-9	Spike Amount Added, LCS/LCSD		JETC03
74380-11	Lab Control Standard % Recovery		JETC03

PARAMETER	74380-4	74380-7	74380-8	74380-9	74380-11
2-Nitrophenol, ug/kg dw	330U	---	---	---	---
2,4-Dimethylphenol, ug/kg dw	330U	---	---	---	---
bis(2-Chloroethoxy)methane, ug/kg dw	330U	---	---	---	---
2,4-Dichlorophenol, ug/kg dw	330U	---	---	---	---
1,2,4-Trichlorobenzene, ug/kg dw	330U	1100	860	3300	33 %
Naphthalene, ug/kg dw	330U	---	---	---	---
4-Chloroaniline, ug/kg dw	660U	---	---	---	---
Hexachlorobutadiene, ug/kg dw	330U	---	---	---	---
4-Chloro-3-methylphenol, ug/kg dw	330U	2400	1900	3300	73 %
2-Methylnaphthalene, ug/kg dw	330U	---	---	---	---
Hexachlorocyclopentadiene, ug/kg dw	330U	---	---	---	---
2,4,6-Trichlorophenol, ug/kg dw	330U	---	---	---	---
2,4,5-Trichlorophenol, ug/kg dw	330U	---	---	---	---
2-Chloronaphthalene, ug/kg dw	330U	---	---	---	---
2-Nitroaniline, ug/kg dw	1700U	---	---	---	---
Dimethylphthalate, ug/kg dw	330U	---	---	---	---
Acenaphthylene, ug/kg dw	330U	---	---	---	---

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74380-4	Method Blank		JETC03
74380-7	Lab Control Standard Result		JETC03
74380-8	Lab Control Standard Duplicate Result		JETC03
74380-9	Spike Amount Added, LCS/LCSD		JETC03
74380-11	Lab Control Standard % Recovery		JETC03

PARAMETER	74380-4	74380-7	74380-8	74380-9	74380-11
2,6-Dinitrotoluene, ug/kg dw	330U	---	---	---	---
3-Nitroaniline, ug/kg dw	1700U	---	---	---	---
Acenaphthene, ug/kg dw	330U	980	780	3300	30 %
2,4-Dinitrophenol, ug/kg dw	1700U	---	---	---	---
4-Nitrophenol, ug/kg dw	1700U	2200	1700	3300	67 %
Dibenzofuran, ug/kg dw	330U	---	---	---	---
2,4-Dinitrotoluene, ug/kg dw	330U	1100	900	3300	33 %
Diethylphthalate, ug/kg dw	330U	---	---	---	---
4-Chlorophenylphenyl ether, ug/kg dw	330U	---	---	---	---
Fluorene, ug/kg dw	330U	---	---	---	---
4-Nitroaniline, ug/kg dw	1700U	---	---	---	---
4,6-Dinitro-2-methylphenol, ug/kg dw	1700U	---	---	---	---
N-Nitrosodiphenylamine, ug/kg dw	330U	---	---	---	---
4-Bromophenylphenyl ether, ug/kg dw	330U	---	---	---	---
Hexachlorobenzene, ug/kg dw	330U	---	---	---	---
Pentachlorophenol, ug/kg dw	1700U	1800	1400	3300	54 %

LOG NO: T3-74380
Received: 03 OCT 03
Reported: 10 OCT 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-4	Method Blank		JETC03
74380-7	Lab Control Standard Result		JETC03
74380-8	Lab Control Standard Duplicate Result		JETC03
74380-9	Spike Amount Added, LCS/LCSD		JETC03
74380-11	Lab Control Standard % Recovery		JETC03

PARAMETER	74380-4	74380-7	74380-8	74380-9	74380-11
Phenanthrene, ug/kg dw	330U	---	---	---	---
Anthracene, ug/kg dw	330U	---	---	---	---
Carbazole, ug/kg dw	330U	---	---	---	---
Di-n-butylphthalate, ug/kg dw	330U	---	---	---	---
Fluoranthene, ug/kg dw	330U	---	---	---	---
Pyrene, ug/kg dw	330U	1500	1200	3300	45 %
Butylbenzylphthalate, ug/kg dw	330U	---	---	---	---
3,3'-Dichlorobenzidine, ug/kg dw	660U	---	---	---	---
Benzo(a)anthracene, ug/kg dw	330U	---	---	---	---
Chrysene, ug/kg dw	330U	---	---	---	---
bis(2-Ethylhexyl)phthalate, ug/kg dw	330U	---	---	---	---
Di-n-octylphthalate, ug/kg dw	330U	---	---	---	---
Benzo(b)fluoranthene, ug/kg dw	330U	---	---	---	---
Benzo(k)fluoranthene, ug/kg dw	330U	---	---	---	---
Benzo(a)pyrene, ug/kg dw	330U	---	---	---	---
Indeno(1,2,3-cd)pyrene, ug/kg dw	330U	---	---	---	---
Dibenzo(a,h)anthracene, ug/kg dw	330U	---	---	---	---
Benzo(g,h,i)perylene, ug/kg dw	330U	---	---	---	---

LOG NO: T3-74380
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-4	Method Blank		JETC03
74380-7	Lab Control Standard Result		JETC03
74380-8	Lab Control Standard Duplicate Result		JETC03
74380-9	Spike Amount Added, LCS/LCSD		JETC03
74380-11	Lab Control Standard % Recovery		JETC03

PARAMETER	74380-4	74380-7	74380-8	74380-9	74380-11
Surrogate - 2-Fluorophenol	67 %	67 %	58 %	---	---
Surrogate - Phenol-d5	70 %	70 %	58 %	---	---
Surrogate - Nitrobenzene - d5	70 %	65 %	55 %	---	---
Surrogate - 2-Fluorobiphenyl	70 %	65 %	53 %	---	---
Surrogate - 2,4,6-Tribromophenol	67 %	70 %	58 %	---	---
Surrogate - Terphenyl-d14	88 %	82 %	76 %	---	---
Prep Date	10.06.03	10.06.03	10.06.03	---	---
Analysis Date	10.09.03	10.09.03	10.09.03	---	---
Batch ID	SM100603H	SM100603H	SM100603H	SM100603H	SM100603H
Petroleum Range Organics (FL-PRO)					
Petroleum Hydrocarbons , mg/kg dw	10U	77	74	91	85 %
Surrogate, o-Terphenyl	84 %	92 %	85 %	---	---
Surrogate-C39	67 %	86 %	78 %	---	---
Prep Date	10.06.03	10.06.03	10.06.03	---	---
Analysis Date	10.09.03	10.09.03	10.09.03	---	---
Batch ID	SG100603I	SG100603I	SG100603I	SG100603I	SG100603I

LOG NO: T3-74380
Received: 03 OCT 03
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-4	Method Blank		JETC03
74380-7	Lab Control Standard Result		JETC03
74380-8	Lab Control Standard Duplicate Result		JETC03
74380-9	Spike Amount Added, LCS/LCSD		JETC03
74380-11	Lab Control Standard % Recovery		JETC03

PARAMETER	74380-4	74380-7	74380-8	74380-9	74380-11
PCB's (8082)					
Aroclor-1016, ug/kg dw	33U	120	110	170	70 %
Aroclor-1221, ug/kg dw	67U	---	---	---	---
Aroclor-1232, ug/kg dw	33U	---	---	---	---
Aroclor-1242, ug/kg dw	33U	---	---	---	---
Aroclor-1248, ug/kg dw	33U	---	---	---	---
Aroclor-1254, ug/kg dw	33U	---	---	---	---
Aroclor-1260, ug/kg dw	33U	130	120	170	76 %
Surrogate - TCX	58 %	61 %	58 %	33	61 %
Surrogate - DCB	85 %	88 %	82 %	33	82 %
Prep Date	10.06.03	10.06.03	10.06.03	---	---
Analysis Date	10.08.03	10.08.03	10.08.03	---	---
Batch ID	SG100603K	SG100603K	SG100603K	SG100603K	SG100603K

LOG NO: T3-74380
Received: 03 OCT 03
Reported: 10 OCT 03

Mr. Rick McCann
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Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-12	Lab Control Standard Duplicate % Recovery		JETC03
74380-13	LCS Accuracy Control Limit (%R)		JETC03
74380-14	Precision (%RPD) of LCS/LCSD		JETC03
74380-15	LCS Precision Control Limit (Advisory) %RPD		JETC03

PARAMETER	74380-12	74380-13	74380-14	74380-15
TCL - Semivolatiles (8270)				
Phenol, ug/l	61 %	13-115 %	22 %	< 39 %
2-Chlorophenol, ug/l	54 %	15-111 %	20 %	< 38 %
1,4-Dichlorobenzene, ug/l	29 %	10-105 %	15 %	< 31 %
N-Nitroso-di-n-propylamine, ug/l	20 %	11-122 %	27 %	< 37 %
1,2,4-Trichlorobenzene, ug/l	26 %	10-112 %	24 %*F99	< 22 %
4-Chloro-3-methylphenol, ug/l	58 %	24-114 %	23 %	< 32 %
Acenaphthene, ug/l	24 %	18-123 %	23 %	< 49 %
4-Nitrophenol, ug/l	52 %	15-118 %	26 %	< 57 %
2,4-Dinitrotoluene, ug/l	27 %	11-120 %	20 %	< 37 %
Pentachlorophenol, ug/l	42 %	10-140 %	25 %	< 55 %
Pyrene, ug/l	36 %	10-133 %	22 %	< 42 %
Surrogate - 2-Fluorophenol	---	16-113 %	---	---
Surrogate - Phenol-d5	---	19-114 %	---	---
Surrogate - Nitrobenzene - d5	---	20-120 %	---	---
Surrogate - 2-Fluorobiphenyl	---	30-120 %	---	---
Surrogate - 2,4,6-Tribromophenol	---	23-129 %	---	---
Surrogate - Terphenyl-d14	---	30-131 %	---	---
Batch ID	SM100603H	---	SM100603H	---

LOG NO: T3-74380
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-12	Lab Control Standard Duplicate % Recovery		JETC03
74380-13	LCS Accuracy Control Limit (%R)		JETC03
74380-14	Precision (%RPD) of LCS/LCSD		JETC03
74380-15	LCS Precision Control Limit (Advisory) %RPD		JETC03

PARAMETER	74380-12	74380-13	74380-14	74380-15
Petroleum Range Organics (FL-PRO)				
Petroleum Hydrocarbons , mg/l	81 %	26-116 %	4.0 %	<25 %
Surrogate, o-Terphenyl	---	15-154 %	---	---
Surrogate-C39	---	30-118 %	---	---
Batch ID	SG100603I	---	SG100603I	---
PCB's (8082)				
Aroclor-1016, ug/l	65 %	34-138 %	8.7 %	<44 %
Aroclor-1260, ug/l	70 %	39-138 %	8.0 %	<30 %
Surrogate - TCX	58 %	30-150 %	---	---
Surrogate - DCB	79 %	30-150 %	---	---
Batch ID	SG100603K	---	SG100603K	---

LOG NO: T3-74380
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 153831010

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
74380-12	Lab Control Standard Duplicate % Recovery		JETC03
74380-13	LCS Accuracy Control Limit (%R)		JETC03
74380-14	Precision (%RPD) of LCS/LCSD		JETC03
74380-15	LCS Precision Control Limit (Advisory) %RPD		JETC03

PARAMETER	74380-12	74380-13	74380-14	74380-15

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Method: EPA SW-846, Update III; FL-PRO
Method EPA 40, CFR Part 136

Florida Department of Health Certification No.: E81005

U Analyzed for but not detected.

J Estimated value; reported between the Method Detection Limit (MDL) and the Reporting Limit (RL).

*F7 = The sample does not exhibit the characteristic of corrosivity because it is non-aqueous. The sample contained <20% free liquid when subjected to the paint filter test (EPA Method 9095).

*F33 = Control limits are established only for surrogate concentration levels specified by EPA methods. Because the sample was diluted prior to analysis, surrogate recoveries are not reported.

*F99 = Relative Percent Difference (%RPD) is outside advisory limits.

DATA DELIVERABLES

VOLATILE ORGANIC COMPOUNDS
Method 8260

CASE NARRATIVE

CASE NARRATIVE
GC/MS TCLP VOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 5030/1311
Cleanup: N/A
Analysis: SW-846 8260

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

VOLATILE ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ08038

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: not dec. _____ Date Analyzed: 10/08/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	VINYL CHLORIDE	0.040	U
75-35-4	1,1-DICHLOROETHENE	0.020	U
67-66-3	CHLOROFORM	0.020	U
78-93-3	2-BUTANONE	0.10	U
56-23-5	CARBON TETRACHLORIDE	0.020	U
107-06-2	1,2-DICHLOROETHANE	0.020	U
71-43-2	BENZENE	0.020	U
79-01-6	TRICHLOROETHENE	0.020	U
127-18-4	TETRACHLOROETHENE	0.020	U
108-90-7	CHLOROBENZENE	0.020	U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

TCLPBLK100703

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: TCLPBLK100703

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ08035

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/08/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
75-01-4	VINYL CHLORIDE	0.040	U
75-35-4	1,1-DICHLOROETHENE	0.020	U
67-66-3	CHLOROFORM	0.020	U
78-93-3	2-BUTANONE	0.10	U
56-23-5	CARBON TETRACHLORIDE	0.020	U
107-06-2	1,2-DICHLOROETHANE	0.020	U
71-43-2	BENZENE	0.020	U
79-01-6	TRICHLOROETHENE	0.020	U
127-18-4	TETRACHLOROETHENE	0.020	U
108-90-7	CHLOROBENZENE	0.020	U

FORM I VOA

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER	TOT OUT
01	TCLPBLK10070	88	96	96		0
02	74380-1	88	96	96		0
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (DFM)	= DIBROMFLUOROMETHANE	(70-130)
SMC2 (TOL)	= TOLUENE-d8	(77-122)
SMC3 (BFB)	= p-BROMOFLUOROBENZENE	(74-126)

Column to be used to flag recovery values

* Values outside of laboratory QC limits

D System Monitoring Compound diluted out

VOLATILE METHOD BLANK SUMMARY

TCLPBLK100703

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: 1GJ08035 Lab Sample ID: TCLPBLK100703

Date Analyzed: 10/08/03 Time Analyzed: 1858

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: TVMG5973

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	74380-1	086-EWC-S-1002	1GJ08038	1942
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV VOA

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: 1GJ08001 BFB Injection Date: 10/08/03

Instrument ID: TVMG5973 BFB Injection Time: 1017

GC Column: DB-624 60 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.3
75	30.0 - 66.0% of mass 95	56.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	73.4
175	4.0 - 9.0% of mass 174	5.5 (7.5)1
176	93.0 - 101.0% of mass 174	71.9 (97.9)1
177	5.0 - 9.0% of mass 176	4.8 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001GR	VSTD001GR	1GJ08002	10/08/03	1031
02	VSTD001DS	VSTD001DS	1GJ08003	10/08/03	1045
03	VSTD005GR	VSTD005GR	1GJ08004	10/08/03	1100
04	VSTD005DS	VSTD005DS	1GJ08005	10/08/03	1113
05	VSTD010GR	VSTD010GR	1GJ08006	10/08/03	1128
06	VSTD010DS	VSTD010DS	1GJ08007	10/08/03	1142
07	VSTD030GR	VSTD030GR	1GJ08010	10/08/03	1225
08	VSTD030DS	VSTD030DS	1GJ08011	10/08/03	1239
09	VSTD040GR	VSTD040GR	1GJ08012	10/08/03	1254
10	VSTD040DS	VSTD040DS	1GJ08013	10/08/03	1308
11	VSTD060GR	VSTD060GR	1GJ08014	10/08/03	1323
12	VSTD060DS	VSTD060DS	1GJ08015	10/08/03	1336
13	VSTD020GR	VSTD020GR	1GJ08016	10/08/03	1426
14	VSTD020DS	VSTD020DS	1GJ08017	10/08/03	1440
15	TCLPBLK10070	TCLPBLK100703	1GJ08035	10/08/03	1858
16	74380-1	086-EWC-S-1002	1GJ08038	10/08/03	1942
17					
18					
19					
20					
21					
22					

VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TVMG5973 Calibration Date(s): 10/08/03 10/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1031 1440

LAB FILE ID: RF1: 1GJ08003 RF5: 1GJ08005 RF10: 1GJ08007
RF20: 1GJ08017 RF30: 1GJ08011

COMPOUND	RF1	RF5	RF10	RF20	RF30
VINYL CHLORIDE	1.512	1.380	1.193	1.149	1.094
1,1-DICHLOROETHENE	1.026	0.915	0.833	0.719	0.760
CHLOROFORM	1.224	1.391	1.345	1.348	1.216
2-BUTANONE	0.044	0.053	0.055	0.051	0.053
CARBON TETRACHLORIDE	0.425	0.477	0.453	0.432	0.437
1,2-DICHLOROETHANE	0.520	0.633	0.599	0.549	0.585
BENZENE	1.413	1.626	1.587	1.508	1.488
TRICHLOROETHENE	0.355	0.396	0.387	0.373	0.363
TETRACHLOROETHENE	1.349	1.394	1.407	1.160	1.246
CHLOROBENZENE	3.026	3.346	3.218	3.296	3.035
DIBROMFLUOROMETHANE		0.602	0.707	0.727	0.656
TOLUENE-d8		1.195	1.365	1.275	1.309
p-BROMOFLUOROBENZENE		1.687	1.891	1.935	1.807

FORM VI VOA

VOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TVMG5973 Calibration Date(s): 10/08/03 10/08/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1031 1440

LAB FILE ID: RF40: 1GJ08013 RF60: 1GJ08015

COMPOUND	RF40	RF60	CURVE	AVE RRF A1	%RSD or R^2
VINYL CHLORIDE		1.052	AVRG	1.23006	14.6
1,1-DICHLOROETHENE		0.774	AVRG	0.83811	13.7
CHLOROFORM		1.304	AVRG	1.30457	5.5
2-BUTANONE	0.051	0.052	AVRG	5.143e-002	6.7
CARBON TETRACHLORIDE		0.464	AVRG	0.44821	4.5
1,2-DICHLOROETHANE		0.629	AVRG	0.58585	7.6
BENZENE		1.563	AVRG	1.53088	5.0
TRICHLOROETHENE		0.384	AVRG	0.37667	4.1
TETRACHLOROETHENE		1.260	AVRG	1.30271	7.4
CHLOROBENZENE		3.213	AVRG	3.18917	4.2
DIBROMFLUOROMETHANE		0.673	AVRG	0.67316	7.2
TOLUENE-d8		1.329	AVRG	1.29462	5.0
p-BROMOFLUOROBENZENE		1.860	AVRG	1.83622	5.2

FORM VI VOA

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): 1GJ08017 Date Analyzed: 10/08/03

Instrument ID: TVMG5973 Time Analyzed: 1440

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS1(DCA) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	108550	2.58	246120	2.77	71487	4.38
	UPPER LIMIT	217100	3.08	492240	3.27	142974	4.88
	LOWER LIMIT	54275	2.08	123060	2.27	35744	3.88
	CLIENT SAMPLE NO.						
01	TCLPBLK10070	97429	2.60	190677	2.78	57046	4.39
02	74380-1	103327	2.59	211389	2.78	62306	4.39
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCA) = 1,2-DICHLOROETHANE-d4
IS2 (DFB) = 1,4-DIFLUOROBENZENE
IS3 (CBZ) = CHLOROBENZENE-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): 1GJ08017 Date Analyzed: 10/08/03

Instrument ID: TVMG5973 Time Analyzed: 1440

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	225740	5.95				
	UPPER LIMIT	451480	6.45				
	LOWER LIMIT	112870	5.45				
	CLIENT SAMPLE NO.						
01	TCLPBLK10070	146068	5.95				
02	74380-1	156388	5.96				
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (DCB) = 1,4-DICHLOROBENZENE d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

VOLATILE EXTRACTION LOG

METHOD 1311 / METHOD 1312

✓ 1311 TCLP
____ 1312 SPLP

Job No 3184
Batch #
Date 10-7-03
Analyst SMB
Temperature in degrees Celcius 23 (Required 23 +- 2 degrees C)

Fluid Lot # 56-11-58-7
Rotation Period (18 +-2 Hours)
Time Started/Date 1645 10-7-03
Time Finished/Date 1105 10-8-03
Spinner Rotation ____ RPM (30 +- 2)

Sample ID / Sample Description	SDG	Hold Date	Phases	Matrix	%Solid	Part. Red. ?	Wgt Waste	Wgt Liquid	Wgt Solid	Fluid # 1=Ext 3=H2O	Final Lch Vol	Agit #	Leak ?	Phase Comp.?	pH
1. B353827*1/DON GASKARTH/OWS SWIDGE #2607	—	10-14	1	S	100	—	—	100mL	50g	1	100mL	—	—	—	2
2. B353827*2/#2939/JIFFY LUBE/OWS SWIT	—	10-17	↓	↓	↓	—	—	↓		↓	↓	—	—	—	↓
3. T374380*1/088-EWC-S-1002-03	JETC03	10-16	↓	↓	↓	—	—	↓	50g	↓	↓	—	—	—	↓
4. TCLP EXT PC BLK	JETC03	—	↓	L	<0.075	—	—	↓	—	↓	80mL	—	—	—	↓
5.															
6.															
7.															
8.															
9.															
10.															
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19.															
20.															

NPE SMB 10/8/03

Extraction Fluid pH (4.93 +- 0.05)

S=Solid L=Liquid O=Oil B=Liquid/Solid C=Oil/Liquid D=Oil/Soil

Review Approval _____
Date _____

ANALYSIS LOG(S)

Client SDG: JETC03 Sample Fraction: VOA

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
3745861	1G1008-TCLP.b	1GJ08001.D	BFB	1G1007BFB	1G1007BFB	3745860		
3745861	1G1008-TCLP.b	1GJ08002.D	CALIB_1	VSTD001GR	VSTD001GR	3745863		
3745861	1G1008-TCLP.b	1GJ08003.D	CALIB_1	VSTD001DS	VSTD001DS	3745880		
3745861	1G1008-TCLP.b	1GJ08004.D	CALIB_2	VSTD005GR	VSTD005GR	3745882		
3745861	1G1008-TCLP.b	1GJ08005.D	CALIB_2	VSTD005DS	VSTD005DS	3745884		
3745861	1G1008-TCLP.b	1GJ08006.D	CALIB_3	VSTD010GR	VSTD010GR	3745886		
3745861	1G1008-TCLP.b	1GJ08007.D	CALIB_3	VSTD010DS	VSTD010DS	3745888		
3745861	1G1008-TCLP.b	1GJ08010.D	CALIB_5	VSTD030GR	VSTD030GR	3745890		
3745861	1G1008-TCLP.b	1GJ08011.D	CALIB_5	VSTD030DS	VSTD030DS	3745892		
3745861	1G1008-TCLP.b	1GJ08012.D	CALIB_6	VSTD040GR	VSTD040GR	3745894		
3745861	1G1008-TCLP.b	1GJ08013.D	CALIB_6	VSTD040DS	VSTD040DS	3745896		
3745861	1G1008-TCLP.b	1GJ08014.D	CALIB_7	VSTD060GR	VSTD060GR	3745898		
3745861	1G1008-TCLP.b	1GJ08015.D	CALIB_7	VSTD060DS	VSTD060DS	3745900		
3745861	1G1008-TCLP.b	1GJ08016.D	CALIB_4	VSTD020GR	VSTD020GR	3745865		
3745861	1G1008-TCLP.b	1GJ08017.D	CALIB_4	VSTD020DS	VSTD020DS	3745864		
3745861	1G1008-TCLP.b	1GJ08035.D	BLANK	TCLPBLK100703	TCLPBLK100703	3745964	VM100803T	JETC03
3745861	1G1008-TCLP.b	1GJ08038.D	SAMPLE	74380-1	086-EWC-S-1002-0	3745978	VM100803T	JETC03

VOA INSTRUMENT LOG - GC/MS

Date: 10/08/03	Analyst: CMR	ICAL/CCAL	
Inst. ID: TVM4	Sequence: 1k1008	1st ISTD: 1, 2-DCA d4	3rd ISTD: Chlorobenzene-d5
Tune File: ATUNE.U		Time: 2.59	Time: 4.39
Tune Method: MGSAV	EM Voltage: 1929	Area: 121642	Area: 80261
Analysis Method: ↓	EM Voltage: ↓	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4
ICAL Files:		Time: 2.78	Time: 5.96
Daily Clock ID: 1k1008		Area: 261271	Area: 200195
ICAL/Clock ID: 1k1008			
Analytical Method: (8260B) or (624) or 524.2			

Standard	Standard Lot #	Conc. (ug/ml)	Volume(ml)	Notes
BFB	56-11-61-3	25		
MS INT	56-11-58-1			
SURR	↓ -2			
INT/SURR	-3	↓		
DAILY1	56-11-60-5	5/100/1000		
DAILY2	56-11-61-1	20/400/4000		
GASES1	56-11-63-3	5/50		
GASES2	-4	20/200		
REACT	↓ -5	10/100		
VMSS FLSPK	56-11-60-4	25		
REACT SPK	56-11-61-2	10/100		
GC GASES	56-11-64-6	10		

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Load Initials	Target Sublist	Comments
1k1008001		BFB TUNE	32	5mL	1.0		8260		Vol	cmr		
02		VSTD 001 GR	1									
03		↓ DS	2									
04		005 GR	3									
05		↓ DS	4									
06		010 GR	5									
07		↓ DS	6									
08		020 GR DS cmr 10/9/03	7									
09		↓ DS	8									
10		030 GR	9									
11		↓ DS	10									
12		040 GR	11									
13		↓ DS	12									
14		060 GR	13									
15		↓ DS	14									
16		020 GR	13									
17		↓ DS	14									
18		1k100803MBLCS	15									
19		↓ LCSD	16									
20		LOQ	17									
21		↓ MB	18									
22		↓ MB	19									
23	87663-6	AM-04	20			VM100103W		1.5				
24	-7	↓ -07	21			↓						
25	74294-1	DSW002A	22			VM093003P						
26	87684-2	TP2-1-SW MS	23			VM100103Q						
27	↓ -2	↓ MSD	24			↓						
28	74190-8	TB-6	25			VM042703P						
29	74201-1	EB-2	26									
30	↓ -7	TB-5	27									
31	74243-6	TB-7	28			↓						
32	74430-1	M-MW-27-101703...	29			VM100803S						

0043

VOA INSTRUMENT LOG - GC/MS

Date: 10/08/03 cont.	Analyst: CMR	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
Inst. ID:	Sequence:	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5					
Tune File:		Time:	Time:					
Tune Method:	EM Voltage:	Area:	Area:					
Analysis Method:	EM Voltage:	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4					
ICAL Files:		Time:	Time:					
Daily Clock ID:		Area:	Area:					
ICAL/Clock ID:								see previous page
Analytical Method: 8260B or 624 or 524.2								

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Lead Initials	Target Sublist	Comments
16J08033	74288-4	MW-2	30	5mL	1.0		B2160	15	✓ok	CMR		
34	74217-2	RW-12	31	↓								
35		TRIPBLK 100703	32	25mL 5mL	(20)	VM1008035T						
36		↓ LCS	33									
37		LCSD	42									
38	74380-1	0806-EWC-S-1002-03	53									
39	53007-1	DOW GASEARTH LOWS SLUDGE	64									
40	↓ -2	JIFFY LUBE LOWS SLUDGE	75									
41	74380-1	0806-EWC-S-1002-03 MS CMR 10/8/03	86									
42	↓ -1	↓ MSD	97	↓		↓						
43		VGR1 - 092203	108	5mL								
44		VGR2 - ↓	119	5mL								
45		CONTROLBLK 100303	10									
46		100703MO	11									
47		↓ 100703RO	12									
48	74436-3	Trip Blank	13			VM1008035						
49	↓ -1	EB-01	14			↓						
50		CONTROLBLK 100803	15									
51	74296-1	Final Discharge	16			VM093003P						
52	74331-3	GW-2	17	↓	↓	↓	↓	↓	↓	↓		
											NFE CMR 10/9/03	

2 of 2

0014

FVM00C-T:05.21.03:5

STL TALLAHASSEE

PESTICIDES IN TCLP EXTRACT
Methods 1311/8081

CASE NARRATIVE

CASE NARRATIVE
GC TCLP PESTICIDES

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 1311/3520
Cleanup: N/A
Analysis: SW-846 8081

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

PEST-PCB ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 40.00 (g/mL) ML Lab File ID: 1J08C31

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/09/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/ML	Q
58-89-9	gamma-BHC (Lindane)	0.0025	U
76-44-8	Heptachlor	0.0025	U
1024-57-3	Heptachlor epoxide	0.0025	U
72-20-8	Endrin	0.0050	U
72-43-5	Methoxychlor	0.025	U
8001-35-2	Toxaphene	0.25	U
57-74-9	Chlordane	0.025	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1007DMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007DMB

Sample wt/vol: 40.00 (g/mL) ML Lab File ID: 1J08C27

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/08/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/ML	Q
58-89-9	gamma-BHC (Lindane)	0.0025	U
76-44-8	Heptachlor	0.0025	U
1024-57-3	Heptachlor epoxide	0.0025	U
72-20-8	Endrin	0.0050	U
72-43-5	Methoxychlor	0.025	U
8001-35-2	Toxaphene	0.25	U
57-74-9	Chlordane	0.025	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1007DMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007DMBLCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2J08C28

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/07/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.062	
76-44-8	Heptachlor	0.031	J
309-00-2	Aldrin	0.047	J
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.14	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.14	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.13	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
57-74-9	Chlordane	0.50	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1007DMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007DMBLCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 2J08C29

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/07/03

Concentrated Extract Volume: 5 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.051	
76-44-8	Heptachlor	0.026	J
309-00-2	Aldrin	0.044	J
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.12	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.11	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
57-74-9	Chlordane	0.50	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1007DMS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007DMS

Sample wt/vol: 40.00 (g/mL) ML Lab File ID: 1J08C30

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/08/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/ML	Q
58-89-9	gamma-BHC (Lindane)	0.0019	J
76-44-8	Heptachlor	0.0017	J
1024-57-3	Heptachlor epoxide	0.0024	J
72-20-8	Endrin	0.0026	J
72-43-5	Methoxychlor	0.0018	J
8001-35-2	Toxaphene	0.25	U
57-74-9	Chlordane	0.025	U

FORM I PEST-PCB

WATER PEST-PCB SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column(1): DB-5 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 (TCX) #	S1 2 (TCX) #	S2 1 (DCB) #	S2 2 (DCB) #	S3 1 (DBC) #	S3 2 (DBC) #	S4 1 #	S4 2 #	TOT OUT
01	1007DMB	69	67	100	100	108	108			0
02	1007DMBLCS	64	64	90	86	112	108			0
03	1007DMBLCSD	64	64	72	70	104	100			0
04	1007DMS	68	66	76	74	108	108			0
05	74380-1	68	66	82	82	108	108			0
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
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28										
29										
30										

		QC LIMITS	
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)	
S2 (DCB)	= Decachlorobiphenyl	(30-150)	(advisory)
S3 (DBC)	= Dibutylchlorendate	(30-150)	

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

WATER PEST-PCB LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix Spike - Sample No.: 1007DMBLCS

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONC (ug/L)	LCS CONC (ug/l)	LCS % REC#	QC. LIMITS REC.
Aldrin	0.050		0.047	94	38-129
gamma-BHC (Lindane)	0.050		0.062	124	40-139
4,4'-DDT	0.12		0.13	108	50-147
Dieldrin	0.12		0.14	117	34-150
Endrin	0.12		0.14	117	41-158
Heptachlor	0.050		0.031	62	37-148

COMPOUND	SPIKE ADDED (ug/l)	LCSD CONC (ug/l)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.050	0.044	88	91	6.6	25	38-129
gamma-BHC (Lindane)	0.050	0.051	102	113	19	26	40-139
4,4'-DDT	0.12	0.10	83	96	26	27	50-147
Dieldrin	0.12	0.12	100	108	15	42	34-150
Endrin	0.12	0.11	92	104	24	25	41-158
Heptachlor	0.050	0.026	52	57	18	26	37-148

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM III PEST-PCB

WATER PEST-PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix Spike - Sample No.: 1007D

COMPOUND	SPIKE ADDED (ug/ml)	SAMPLE CONC (ug/L)	MS CONC (ug/ml)	MS % REC#	QC. LIMITS REC.
gamma-BHC (Lindane)	0.025		0.019	76	40-139
Endrin	0.025		0.026	104	41-158
Heptachlor	0.025		0.017	68	37-148
Heptachlor epoxide	0.025		0.024	96	43-141
Methoxychlor	0.025		0.018	72	60-155

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM III PEST-PCB

PEST-PCB METHOD BLANK SUMMARY

1007DMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: 1J08C27 Lab Sample ID: 1007DMB

Instrument ID: TSGCECD1 Matrix: (soil/water) WATER

Level: (low/med) LOW Date Extracted: 10/07/03

Date Analyzed (1): 10/08/03 Date Analyzed (2): 10/08/03

Time Analyzed (1): 2216 Time Analyzed (2): 2216

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	1007DMBLCS	1007DMBLCS	1J08C28	10/08/03	10/08/03
02	1007DMBLCSD	1007DMBLCSD	1J08C29	10/08/03	10/08/03
03	1007DMS	1007DMS	1J08C30	10/08/03	10/08/03
04	74380-1	086-EWC-S-1002	1J08C31	10/09/03	10/09/03
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

COMMENTS:

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1245 1501

LAB FILE ID: RF0.005: 1J08C6 RF0.02: 1J08C7 RF0.04: 1J08C8
RF0.08: 1J08C9 RF0.1: 1J08C10

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
alpha-BHC	7226500	7046800	7789900	7907960	8172167
gamma-BHC (Lindane)	2278000	2267900	2534300	2597300	2624467
Heptachlor	1869000	1737400	1977475	1940300	1992933
Endosulfan I	1191000	1037150	1169950	1229500	1275717
Dieldrin	5250750	5018700	5536188	5564340	5648425
Endrin	4298250	3989925	4441725	4547870	4669117
4,4'-DDD	3683750	3390425	3781900	3948060	4123125
4,4'-DDT	3572250	3296375	3665325	3826760	4016858
Methoxychlor	1613150	1681930	1764672	1740726	1712175
1-Bromo-2-nitrobenzene	1299450	1271000	1241950	1256800	1295100
Tetrachloro-m-xylene	3254500	2574550	2689475	2589220	2870483
Decachlorobiphenyl	3931750	3184075	3226800	3063220	3212417
Dibutylchlorendate	3684500	3096650	3410675	3290090	3611492

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1245 1501

RF0.16: 1J08C11

COMPOUND	RF0.16
alpha-BHC	7739610
gamma-BHC (Lindane)	2347390
Heptachlor	1891510
Endosulfan I	1288920
Dieldrin	5263100
Endrin	4549205
4,4'-DDD	4220210
4,4'-DDT	4127050
Methoxychlor	1462955
1-Bromo-2-nitrobenzene	1309950
Tetrachloro-m-xylene	2951820
Decachlorobiphenyl	3450770
Dibutylchlorendate	3718805

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1245 1501

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.00000000	1.246e-007	4.756e-015	0.998
gamma-BHC (Lindane)	2ORDR	0.00000000	3.54e-007	2.854e-013	0.996
Heptachlor	2ORDR	0.00000000	4.979e-007	1.474e-013	0.998
Endosulfan I	AVRG		1198706		7.6
Dieldrin	2ORDR	0.00000000	1.714e-007	1.642e-014	0.998
Endrin	2ORDR	0.00000000	2.234e-007	-5.3e-015	0.999
4,4'-DDD	2ORDR	0.00000000	2.704e-007	-4.11e-014	0.999
4,4'-DDT	2ORDR	0.00000000	2.796e-007	-4.67e-014	0.999
Methoxychlor	2ORDR	0.00000000	4.494e-007	1.544e-013	0.997
1-Bromo-2-nitrobenzene	2ORDR	2.e-002	0.00000000	0.00000000	0.000
Tetrachloro-m-xylene	2ORDR	0.00000000	3.937e-007	-1.9e-013	0.998
Decachlorobiphenyl	2ORDR	-2.15e-003	3.481e-007	-7.97e-014	0.999
Dibutylchlorendate	2ORDR	0.00000000	3.125e-007	-6.e-014	0.998

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1245 1501

LAB FILE ID: RF0.005: 2J08C6 RF0.002: 2J08C7 RF0.04: 2J08C8
RF0.08: 2J08C9 RF0.1: 2J08C10

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
alpha-BHC	5896000	5777700	7372925	7739740	8031583
gamma-BHC (Lindane)	4711500	4855400	6168200	6620340	7015000
Heptachlor	1426000	1426350	1895525	2047060	2157983
Endosulfan I	939000	874600	1014850	1118000	1260717
Dieldrin	3786250	4028175	5129688	5412300	5629083
Endrin	3017000	3061175	3798000	4108290	4448358
4,4'-DDD	2720250	2738900	3381175	3713090	4131200
4,4'-DDT	2787750	2788075	3459100	3808600	4216233
Methoxychlor	1188300	1468290	1760650	1664324	1703418
1-Bromo-2-nitrobenzene	3406550	3364700	3390150	3354250	3381050
Tetrachloro-m-xylene	2786000	2232400	2429475	2360060	2692500
Decachlorobiphenyl	3233750	2565425	2662362	2549720	2768233
Dibutylchlorendate	2876000	2614125	3060775	3041200	3550583

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1245 1501

RF0.16: 2J08C11

COMPOUND	RF0.16
alpha-BHC	7472130
gamma-BHC (Lindane)	6758860
Heptachlor	1924420
Endosulfan I	1404450
Dieldrin	5200770
Endrin	4433950
4,4'-DDD	4319430
4,4'-DDT	4376730
Methoxychlor	1416271
1-Bromo-2-nitrobenzene	3395600
Tetrachloro-m-xylene	3102430
Decachlorobiphenyl	3104050
Dibutylchlorendate	4066410

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1245 1501

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	3.15e-003	1.152e-007	1.766e-014	0.995
gamma-BHC (Lindane)	2ORDR	3.179e-003	1.422e-007	-3.95e-016	0.995
Heptachlor	2ORDR	0.00000000	4.866e-007	1.166e-013	0.990
Endosulfan I	2ORDR	0.00000000	1.007e-006	-2.14e-012	0.995
Dieldrin	2ORDR	6.622e-003	1.63e-007	2.013e-014	0.995
Endrin	2ORDR	0.00000000	2.634e-007	-4.55e-014	0.995
4,4'-DDD	2ORDR	0.00000000	2.99e-007	-8.09e-014	0.994
4,4'-DDT	2ORDR	0.00000000	2.913e-007	-7.45e-014	0.994
Methoxychlor	2ORDR	3.344e-002	3.774e-007	2.079e-013	0.994
1-Bromo-2-nitrobenzene	AVRG		3382050		0.6
Tetrachloro-m-xylene	2ORDR	0.00000000	4.551e-007	-4.31e-013	0.998
Decachlorobiphenyl	2ORDR	0.00000000	4.157e-007	-1.51e-013	0.999
Dibutylchlorendate	2ORDR	0.00000000	3.562e-007	-1.37e-013	0.996

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1528 1744

LAB FILE ID: RF0.005: 1J08C12 RF0.02: 1J08C13 RF0.04: 1J08C14
RF0.08: 1J08C15 RF0.1: 1J08C16

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
beta-BHC	795500	669500	706075	670000	761167
delta-BHC	6901000	6387700	7123275	6764100	7426367
Aldrin	6256000	5341700	5926025	5691400	6221133
Heptachlor epoxide	5725000	4838600	5291900	5076960	5594767
4,4'-DDE	4969750	4523525	5197838	4942600	5256567
Endosulfan II	4670750	3979175	4506375	4309760	4666425
Endosulfan sulfate	4062250	3392950	3743925	3595500	3983158
Endrin ketone	4367750	3844400	4347500	4165960	4519283
Endrin aldehyde	3321000	2797075	3096438	2995940	3338542
alpha-Chlordane	5211000	4348750	4707975	4527960	4998350
gamma-Chlordane	5838500	4921550	5391400	5181920	5746883
1-Bromo-2-nitrobenzene	1299450	1271000	1241950	1256800	1295100
Tetrachloro-m-xylene	3254500	2574550	2689475	2589220	2870483
Decachlorobiphenyl	3931750	3184075	3226800	3063220	3212417
Dibutylchlorendate	3684500	3096650	3410675	3290090	3611492

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1528 1744

RF0.16: 1J08C17

COMPOUND	RF0.16
beta-BHC	798540
delta-BHC	7504310
Aldrin	6254350
Heptachlor epoxide	5701480
4,4'-DDE	5019445
Endosulfan II	4609765
Endosulfan sulfate	4276795
Endrin ketone	4389440
Endrin aldehyde	3438810
alpha-Chlordane	5259120
gamma-Chlordane	5931150
1-Bromo-2-nitrobenzene	1309950
Tetrachloro-m-xylene	2951820
Decachlorobiphenyl	3450770
Dibutylchlorendate	3718805

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1528 1744

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	1.528e-006	-3.51e-012	0.998
delta-BHC	2ORDR	0.00000000	1.493e-007	-2.2e-014	0.998
Aldrin	2ORDR	0.00000000	1.777e-007	-2.96e-014	0.998
Heptachlor epoxide	2ORDR	0.00000000	2.006e-007	-4.54e-014	0.998
4,4'-DDE	2ORDR	0.00000000	1.951e-007	3.005e-015	0.998
Endosulfan II	2ORDR	0.00000000	2.316e-007	-1.7e-014	0.998
Endosulfan sulfate	2ORDR	0.00000000	2.915e-007	-6.82e-014	0.998
Endrin ketone	2ORDR	0.00000000	2.368e-007	-1.18e-014	0.998
Endrin aldehyde	2ORDR	0.00000000	3.441e-007	-7.95e-014	0.998
alpha-Chlordane	2ORDR	0.00000000	2.289e-007	-7.47e-014	0.998
gamma-Chlordane	2ORDR	0.00000000	1.982e-007	-5.1e-014	0.998
1-Bromo-2-nitrobenzene	2ORDR	2.e-002	0.00000000	0.00000000	0.000
Tetrachloro-m-xylene	2ORDR	0.00000000	3.937e-007	-1.9e-013	0.998
Decachlorobiphenyl	2ORDR	-2.15e-003	3.481e-007	-7.97e-014	0.999
Dibutylchlorendate	2ORDR	0.00000000	3.125e-007	-6.e-014	0.998

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1528 1744

LAB FILE ID: RF0.005: 2J08C12 RF0.002: 2J08C13 RF0.04: 2J08C14
RF0.08: 2J08C15 RF0.1: 2J08C16

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
beta-BHC	698000	574950	609575	592960	667217
delta-BHC	5210000	5042650	6520025	6334620	7005283
Aldrin	4907000	4335800	5350075	5344060	6064400
Heptachlor epoxide	4132500	3765150	4343400	4284120	4971467
4,4'-DDE	3761750	3801600	5050588	4921770	5381842
Endosulfan II	3438750	3240650	4059362	4024930	4549592
Endosulfan sulfate	3003000	2755000	3234025	3194990	3724708
Endrin ketone	3214250	2938275	3641288	3629770	4191008
Endrin aldehyde	2512750	2256975	2586400	2556050	3002225
alpha-Chlordane	4185500	3503800	3970700	3897720	4548867
gamma-Chlordane	4172000	3852800	4399250	4403520	5132517
1-Bromo-2-nitrobenzene	3406550	3364700	3390150	3354250	3381050
Tetrachloro-m-xylene	2786000	2232400	2429475	2360060	2692500
Decachlorobiphenyl	3233750	2565425	2662362	2549720	2768233
Dibutylchlorendate	2876000	2614125	3060775	3041200	3550583

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1528 1744

RF0.16: 2J08C17

COMPOUND	RF0.16
beta-BHC	838270
delta-BHC	6772570
Aldrin	6196910
Heptachlor epoxide	5509560
4,4'-DDE	4972225
Endosulfan II	4508140
Endosulfan sulfate	4046395
Endrin ketone	4251920
Endrin aldehyde	3332060
alpha-Chlordane	5314730
gamma-Chlordane	5832390
1-Bromo-2-nitrobenzene	3395600
Tetrachloro-m-xylene	3102430
Decachlorobiphenyl	3104050
Dibutylchlorendate	4066410

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1528 1744

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	1.848e-006	-7.83e-012	0.999
delta-BHC	2ORDR	2.56e-003	1.455e-007	-4.02e-015	0.996
Aldrin	2ORDR	2.148e-003	1.84e-007	-4.39e-014	0.996
Heptachlor epoxide	2ORDR	0.00000000	2.501e-007	-1.26e-013	0.997
4,4'-DDE	2ORDR	6.225e-003	1.757e-007	1.73e-014	0.994
Endosulfan II	2ORDR	4.824e-003	2.372e-007	-2.49e-014	0.995
Endosulfan sulfate	2ORDR	0.00000000	3.337e-007	-1.09e-013	0.996
Endrin ketone	2ORDR	4.718e-003	2.677e-007	-4.7e-014	0.995
Endrin aldehyde	2ORDR	0.00000000	4.184e-007	-1.8e-013	0.996
alpha-Chlordane	2ORDR	0.00000000	2.772e-007	-1.69e-013	0.997
gamma-Chlordane	2ORDR	0.00000000	2.459e-007	-1.29e-013	0.997
1-Bromo-2-nitrobenzene	AVRG		3382050		0.6
Tetrachloro-m-xylene	2ORDR	0.00000000	4.551e-007	-4.31e-013	0.998
Decachlorobiphenyl	2ORDR	0.00000000	4.157e-007	-1.51e-013	0.999
Dibutylchlorendate	2ORDR	0.00000000	3.562e-007	-1.37e-013	0.996

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2027

RF0.04: 1I22C26

COMPOUND	RF0.04
Chlordane	22292
(2)	137272
(3)	27864
(4)	107924
(5)	71490
1-Bromo-2-nitrobenzene	1197250

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2027

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Chlordane	AVRG		22292.0		0.0
(2)	AVRG		137272		0.0
(3)	AVRG		27864.0		0.0
(4)	AVRG		107924		0.0
(5)	AVRG		71490.0		0.0
1-Bromo-2-nitrobenzene	2ORDR	2.e-002	0.00000000	0.00000000	0.000

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 2027

RF0.04: 2I22C26

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	17052	AVRG	17052.0	0.0
(2)	155124	AVRG	155124	0.0
(3)	103532	AVRG	103532	0.0
(4)	21572	AVRG	21572.0	0.0
(5)	88482	AVRG	88482.0	0.0
1-Bromo-2-nitrobenzene	2877650	AVRG	3296633	6.2

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2027

RF0.04: 1I22C27

COMPOUND	RF0.04
Toxaphene	14370
(2)	9252
(3)	16054
(4)	13766
(5)	9222
1-Bromo-2-nitrobenzene	1197250

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 2027

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Toxaphene	AVRG		14370.0		0.0
(2)	AVRG		9252.00		0.0
(3)	AVRG		16054.0		0.0
(4)	AVRG		13766.0		0.0
(5)	AVRG		9222.00		0.0
1-Bromo-2-nitrobenzene	2ORDR	2.e-002	0.00000000	0.00000000	0.000

FORM VI PEST-PCB

0074

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 2027

RF0.04: 2I22C27

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	63204	AVRG	63204.0	0.0
(2)	61546	AVRG	61546.0	0.0
(3)	71644	AVRG	71644.0	0.0
(4)	41782	AVRG	41782.0	0.0
(5)	140048	AVRG	140048	0.0
1-Bromo-2-nitrobenzene	2877650	AVRG	3296633	6.2

FORM VI PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date: 10/08/03 Time: 2122

Lab File ID: 1J08C25 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d	
alpha-BHC	0.0402	0.0400	2ORDR	0.5	15.0	
gamma-BHC (Lindane)	0.0383	0.0400	2ORDR	4.2	15.0	
Heptachlor	0.0385	0.0400	2ORDR	3.8	15.0	
Endosulfan I	0.0278	0.0400	AVRG	30.5	15.0	<-
Dieldrin	0.0879	0.0800	2ORDR	9.9	15.0	
Endrin	0.0850	0.0800	2ORDR	6.2	15.0	
4,4'-DDD	0.0868	0.0800	2ORDR	8.5	15.0	
4,4'-DDT	0.0745	0.0800	2ORDR	6.9	15.0	
Methoxychlor	0.424	0.400	2ORDR	6.0	15.0	
Tetrachloro-m-xylene	0.0405	0.0400	2ORDR	1.2	15.0	
Decachlorobiphenyl	0.0850	0.0800	2ORDR	6.2	15.0	
Dibutylchlorendate	0.0837	0.0800	2ORDR	4.6	15.0	

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date: 10/08/03 Time: 2122

Lab File ID: 2J08C25 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0391	0.0400	2ORDR	2.2	15.0
gamma-BHC (Lindane)	0.0390	0.0400	2ORDR	2.5	15.0
Heptachlor	0.0342	0.0400	2ORDR	14.5	15.0
Endosulfan I	0.0414	0.0400	2ORDR	3.5	15.0
Dieldrin	0.0871	0.0800	2ORDR	8.9	15.0
Endrin	0.0827	0.0800	2ORDR	3.4	15.0
4,4'-DDD	0.0822	0.0800	2ORDR	2.8	15.0
4,4'-DDT	0.0811	0.0800	2ORDR	1.4	15.0
Methoxychlor	0.429	0.400	2ORDR	7.2	15.0
Tetrachloro-m-xylene	0.0387	0.0400	2ORDR	3.2	15.0
Decachlorobiphenyl	0.0828	0.0800	2ORDR	3.5	15.0
Dibutylchlorendate	0.0806	0.0800	2ORDR	0.8	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date: 10/08/03 Time: 2149

Lab File ID: 1J08C26 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0359	0.0400	2ORDR	10.2	15.0
delta-BHC	0.0393	0.0400	2ORDR	1.8	15.0
Aldrin	0.0427	0.0400	2ORDR	6.8	15.0
Heptachlor epoxide	0.0428	0.0400	2ORDR	7.0	15.0
4,4'-DDE	0.0863	0.0800	2ORDR	7.9	15.0
Endosulfan II	0.0863	0.0800	2ORDR	7.9	15.0
Endosulfan sulfate	0.0855	0.0800	2ORDR	6.9	15.0
Endrin ketone	0.0857	0.0800	2ORDR	7.1	15.0
Endrin aldehyde	0.0839	0.0800	2ORDR	4.9	15.0
alpha-Chlordane	0.0428	0.0400	2ORDR	7.0	15.0
gamma-Chlordane	0.0426	0.0400	2ORDR	6.5	15.0
Tetrachloro-m-xylene	0.0408	0.0400	2ORDR	2.0	15.0
Decachlorobiphenyl	0.0852	0.0800	2ORDR	6.5	15.0
Dibutylchlorendate	0.0858	0.0800	2ORDR	7.2	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date: 10/08/03 Time: 2149

Lab File ID: 2J08C26 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0349	0.0400	2ORDR	12.8	15.0
delta-BHC	0.0369	0.0400	2ORDR	7.8	15.0
Aldrin	0.0402	0.0400	2ORDR	0.5	15.0
Heptachlor epoxide	0.0408	0.0400	2ORDR	2.0	15.0
4,4'-DDE	0.0823	0.0800	2ORDR	2.9	15.0
Endosulfan II	0.0831	0.0800	2ORDR	3.9	15.0
Endosulfan sulfate	0.0816	0.0800	2ORDR	2.0	15.0
Endrin ketone	0.0813	0.0800	2ORDR	1.6	15.0
Endrin aldehyde	0.0798	0.0800	2ORDR	0.2	15.0
alpha-Chlordane	0.0408	0.0400	2ORDR	2.0	15.0
gamma-Chlordane	0.0406	0.0400	2ORDR	1.5	15.0
Tetrachloro-m-xylene	0.0386	0.0400	2ORDR	3.5	15.0
Decachlorobiphenyl	0.0836	0.0800	2ORDR	4.5	15.0
Dibutylchlorendate	0.0822	0.0800	2ORDR	2.8	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date: 10/09/03 Time: 0032

Lab File ID: 1J08C32 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0432	0.0400	2ORDR	8.0	15.0
gamma-BHC (Lindane)	0.0418	0.0400	2ORDR	4.5	15.0
Heptachlor	0.0409	0.0400	2ORDR	2.2	15.0
Endosulfan I	0.0453	0.0400	AVRG	13.2	15.0
Dieldrin	0.0890	0.0800	2ORDR	11.2	15.0
Endrin	0.0866	0.0800	2ORDR	8.2	15.0
4,4'-DDD	0.0881	0.0800	2ORDR	10.1	15.0
4,4'-DDT	0.0829	0.0800	2ORDR	3.6	15.0
Methoxychlor	0.426	0.400	2ORDR	6.5	15.0
Tetrachloro-m-xylene	0.0422	0.0400	2ORDR	5.5	15.0
Decachlorobiphenyl	0.0874	0.0800	2ORDR	9.2	15.0
Dibutylchlorendate	0.0856	0.0800	2ORDR	7.0	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date: 10/09/03 Time: 0032

Lab File ID: 2J08C32 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0425	0.0400	2ORDR	6.2	15.0
gamma-BHC (Lindane)	0.0412	0.0400	2ORDR	3.0	15.0
Heptachlor	0.0387	0.0400	2ORDR	3.2	15.0
Endosulfan I	0.0438	0.0400	2ORDR	9.5	15.0
Dieldrin	0.0880	0.0800	2ORDR	10.0	15.0
Endrin	0.0847	0.0800	2ORDR	5.9	15.0
4,4'-DDD	0.0826	0.0800	2ORDR	3.2	15.0
4,4'-DDT	0.0810	0.0800	2ORDR	1.2	15.0
Methoxychlor	0.434	0.400	2ORDR	8.5	15.0
Tetrachloro-m-xylene	0.0407	0.0400	2ORDR	1.8	15.0
Decachlorobiphenyl	0.0859	0.0800	2ORDR	7.4	15.0
Dibutylchlorendate	0.0821	0.0800	2ORDR	2.6	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD1 Calibration Date: 10/09/03 Time: 0059

Lab File ID: 1J08C33 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d	
beta-BHC	0.0412	0.0400	2ORDR	3.0	15.0	
delta-BHC	0.0446	0.0400	2ORDR	11.5	15.0	
Aldrin	0.0462	0.0400	2ORDR	15.5	15.0	<-
Heptachlor epoxide	0.0459	0.0400	2ORDR	14.8	15.0	
4,4'-DDE	0.0912	0.0800	2ORDR	14.0	15.0	
Endosulfan II	0.0915	0.0800	2ORDR	14.4	15.0	
Endosulfan sulfate	0.0905	0.0800	2ORDR	13.1	15.0	
Endrin ketone	0.0903	0.0800	2ORDR	12.9	15.0	
Endrin aldehyde	0.0885	0.0800	2ORDR	10.6	15.0	
alpha-Chlordane	0.0454	0.0400	2ORDR	13.5	15.0	
gamma-Chlordane	0.0454	0.0400	2ORDR	13.5	15.0	
Tetrachloro-m-xylene	0.0450	0.0400	2ORDR	12.5	15.0	
Decachlorobiphenyl	0.0883	0.0800	2ORDR	10.4	15.0	
Dibutylchlorendate	0.0916	0.0800	2ORDR	14.5	15.0	

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGCECD2 Calibration Date: 10/09/03 Time: 0059

Lab File ID: 2J08C33 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0405	0.0400	2ORDR	1.2	15.0
delta-BHC	0.0427	0.0400	2ORDR	6.8	15.0
Aldrin	0.0440	0.0400	2ORDR	10.0	15.0
Heptachlor epoxide	0.0440	0.0400	2ORDR	10.0	15.0
4,4'-DDE	0.0880	0.0800	2ORDR	10.0	15.0
Endosulfan II	0.0883	0.0800	2ORDR	10.4	15.0
Endosulfan sulfate	0.0868	0.0800	2ORDR	8.5	15.0
Endrin ketone	0.0861	0.0800	2ORDR	7.6	15.0
Endrin aldehyde	0.0849	0.0800	2ORDR	6.1	15.0
alpha-Chlordane	0.0435	0.0400	2ORDR	8.8	15.0
gamma-Chlordane	0.0437	0.0400	2ORDR	9.2	15.0
Tetrachloro-m-xylene	0.0432	0.0400	2ORDR	8.0	15.0
Decachlorobiphenyl	0.0881	0.0800	2ORDR	10.1	15.0
Dibutylchlorendate	0.0884	0.0800	2ORDR	10.5	15.0

FORM VII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 10/08/03

Instrument ID: TSGCECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		PEM 29216	09/22/03	1456		
02		TECH 29162	09/22/03	2333		
03		TOX 291611	09/23/03	0001		
04		PEM 292812	10/08/03	1217		
05		A-1 29318	10/08/03	1245		
06		A-2 29319	10/08/03	1312		
07		A-3 29321	10/08/03	1339		
08		A-4 29322	10/08/03	1406		
09		A-5 29323	10/08/03	1433		
10		A-6 29324	10/08/03	1501		
11		B-1 29326	10/08/03	1528		
12		B-2 29327	10/08/03	1555		
13		B-3 29328	10/08/03	1622		
14		B-4 29329	10/08/03	1650		
15		B-5 293210	10/08/03	1717		
16		B-6 29331	10/08/03	1744		
17		PEM 292812	10/08/03	2054		
18		A-3 29321	10/08/03	2122		
19		B-3 29328	10/08/03	2149		
20	1007DMB	1007DMB	10/08/03	2216		
21	1007DMBLCS	1007DMBLCS	10/08/03	2243		
22	1007DMBLCSD	1007DMBLCSD	10/08/03	2310		
23	1007DMS	1007DMS	10/08/03	2338		
24	74380-1	086-EWC-S-10	10/09/03	0005		
25		A-3 29321	10/09/03	0032		
26		B-3 29328	10/09/03	0059		
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 10/08/03

Instrument ID: TSGCECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		PEM 29216	09/22/03	1456		
02		TECH 29162	09/22/03	2333		
04		TOX 291611	09/23/03	0001		
05		PEM 292812	10/08/03	1217		
06		A-1 29318	10/08/03	1245		
07		A-2 29319	10/08/03	1312		
08		A-3 29321	10/08/03	1339		
09		A-4 29322	10/08/03	1406		
10		A-5 29323	10/08/03	1433		
11		A-6 29324	10/08/03	1501		
12		B-1 29326	10/08/03	1528		
13		B-2 29327	10/08/03	1555		
14		B-3 29328	10/08/03	1622		
15		B-4 29329	10/08/03	1650		
16		B-5 293210	10/08/03	1717		
17		B-6 29331	10/08/03	1744		
18		PEM 292812	10/08/03	2054		
19		A-3 29321	10/08/03	2122		
20		B-3 29328	10/08/03	2149		
21	1007DMB	1007DMB	10/08/03	2216		
22	1007DMBLCS	1007DMBLCS	10/08/03	2243		
23	1007DMBLCSD	1007DMBLCSD	10/08/03	2310		
24	1007DMS	1007DMS	10/08/03	2338		
25	74380-1	086-EWC-S-10	10/09/03	0005		
26		A-3 29321	10/09/03	0032		
27		B-3 29328	10/09/03	0059		
28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

FORM VIII PEST-PCB

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 480 5

Batch No: SG100703D

Date Extracted: 10.07.03

Start Time: 1400

Stop Time: 0800

Analysis Required: 8081 TCLP

Prep Method: 3520

Analyst/Activity Code* LS /A,B

Initial Project Check: AN

Final Project Check: AN

Date Concentrated: 10-08-03

Initials: EK

Extract Box ID:

	ID	Lot #	Amt (ml)	Int
Surr.	8081	6.3.72.1	0.5	AN
Surr.				
Spike	8081	6.3.73.8	0.5	AN
Spike	TCLP	6.3.70.6	0.5	AN

Clean Up: Yes No

Comments

Solvent(s) Lot No:

$MeCl_2$: V17E34

Na_2SO_4: V31363

HEX: X12E22

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Extd	PH I	PH F	FV (ml)	D.D	H.D	COMMENTS
1. T374380*1/086-EWC-S-1002-03*	JETC03	SS	40	7	7	5.0	10.09	10.18	RI
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
AN 10-08-03 ~~Lab Blank~~ Ex FL BLK		LI	40	7	7	5.0			
Lab Spike #1		LI	1000	7	7	5.0			
Lab Spike #2		LI	1000	7	7	5.0			
MS: T374380 086-EWC-S-1002-03		LI	40	7	7	5.0			

AN 10-08-03

Data: Pesticides in TCLP extract <8081>

AN

+ Additional Data:

0087

ANALYSIS LOG(S)

Client SDG: JETC03 Sample Fraction: PEST-PCB

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4709519	1C1008.EX	1I22C7.d	PEM		PEM 29216	4709570		
4709519	1C1008.EX	1J08C5.d	PEM		PEM 292812	4709439		
4709519	1C1008.EX	1J08C24.d	PEM		PEM 292812	4709429		
4709519	1C1008.EX	1I22C26.d	CALIB_3		TECH 29162	4709567		
4709519	1C1008.EX	1I22C27.d	CALIB_3		TOX 291611	4709568		
4709519	1C1008.EX	1J08C6.d	CALIB_1		A-1 29318	4709440		
4709519	1C1008.EX	1J08C7.d	CALIB_2		A-2 29319	4709441		
4709519	1C1008.EX	1J08C8.d	CALIB_3		A-3 29321	4709442		
4709519	1C1008.EX	1J08C9.d	CALIB_4		A-4 29322	4709443		
4709519	1C1008.EX	1J08C10.d	CALIB_5		A-5 29323	4709415		
4709519	1C1008.EX	1J08C11.d	CALIB_6		A-6 29324	4709416		
4709519	1C1008.EX	1J08C12.d	CALIB_1		B-1 29326	4709417		
4709519	1C1008.EX	1J08C13.d	CALIB_2		B-2 29327	4709418		
4709519	1C1008.EX	1J08C14.d	CALIB_3		B-3 29328	4709419		
4709519	1C1008.EX	1J08C15.d	CALIB_4		B-4 29329	4709420		
4709519	1C1008.EX	1J08C16.d	CALIB_5		B-5 293210	4709421		
4709519	1C1008.EX	1J08C17.d	CALIB_6		B-6 29331	4709422		
4709519	1C1008.EX	1J08C25.d	CCALIB_3		A-3 29321	4709430		
4709519	1C1008.EX	1J08C26.d	CCALIB_3		B-3 29328	4709431		
4709519	1C1008.EX	1J08C32.d	CCALIB_3		A-3 29321	4709444		
4709519	1C1008.EX	1J08C33.d	CCALIB_3		B-3 29328	4709445		
4709519	1C1008.EX	1J08C27.d	BLANK	1007DMB	1007DMB	4709432	SG100703D	JETC03
4709519	1C1008.EX	1J08C28.d	LCS	1007DMBLCS	1007DMBLCS	4709433	SG100703D	JETC03
4709519	1C1008.EX	1J08C29.d	LCSD	1007DMBLCSD	1007DMBLCSD	4709434	SG100703D	JETC03
4709519	1C1008.EX	1J08C30.d	MS	1007DMS	1007DMS	4709435	SG100703D	JETC03
4709519	1C1008.EX	1J08C31.d	SAMPLE	74380-1	086-EWC-S-1002-0	4709436	SG100703D	JETC03
4709517	1C1008.EX	2I22C7.d	PEM		PEM 29216	4709572		
4709517	1C1008.EX	2J08C5.d	PEM		PEM 292812	4709506		
4709517	1C1008.EX	2J08C24.d	PEM		PEM 292812	4709486		
4709517	1C1008.EX	2I22C26.d	CALIB_3		TECH 29162	4709563		
4709517	1C1008.EX	2I22C27.d	CALIB_3		TOX 291611	4709564		
4709517	1C1008.EX	2J08C6.d	CALIB_1		A-1 29318	4709508		
4709517	1C1008.EX	2J08C7.d	CALIB_2		A-2 29319	4709510		
4709517	1C1008.EX	2J08C8.d	CALIB_3		A-3 29321	4709512		
4709517	1C1008.EX	2J08C9.d	CALIB_4		A-4 29322	4709514		
4709517	1C1008.EX	2J08C10.d	CALIB_5		A-5 29323	4709470		
4709517	1C1008.EX	2J08C11.d	CALIB_6		A-6 29324	4709472		
4709517	1C1008.EX	2J08C12.d	CALIB_1		B-1 29326	4709474		
4709517	1C1008.EX	2J08C13.d	CALIB_2		B-2 29327	4709476		
4709517	1C1008.EX	2J08C14.d	CALIB_3		B-3 29328	4709478		
4709517	1C1008.EX	2J08C15.d	CALIB_4		B-4 29329	4709480		
4709517	1C1008.EX	2J08C16.d	CALIB_5		B-5 293210	4709482		
4709517	1C1008.EX	2J08C17.d	CALIB_6		B-6 29331	4709484		
4709517	1C1008.EX	2J08C25.d	CCALIB_3		A-3 29321	4709488		
4709517	1C1008.EX	2J08C26.d	CCALIB_3		B-3 29328	4709490		
4709517	1C1008.EX	2J08C32.d	CCALIB_3		A-3 29321	4709515		
4709517	1C1008.EX	2J08C33.d	CCALIB_3		B-3 29328	4709516		
4709517	1C1008.EX	2J08C27.d	BLANK	1007DMB	1007DMB	4709492	SG100703D	JETC03
4709517	1C1008.EX	2J08C28.d	LCS	1007DMBLCS	1007DMBLCS	4709494	SG100703D	JETC03
4709517	1C1008.EX	2J08C29.d	LCSD	1007DMBLCSD	1007DMBLCSD	4709496	SG100703D	JETC03
4709517	1C1008.EX	2J08C30.d	MS	1007DMS	1007DMS	4709554	SG100703D	JETC03
4709517	1C1008.EX	2J08C31.d	SAMPLE	74380-1	086-EWC-S-1002-0	4709553	SG100703D	JETC03

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7 PEM 29216~1C0922	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10 [illegible]	E	1I22C	1.0000	1.0000	1.0000	[illegible]
11 [illegible]	E	1I22C	1.0000	1.0000	[illegible]	[illegible]
12 A-5 2966 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
13 A-6 2967 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
14 B-1 2968 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
15 B-2 2969 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
16 B-3 29257 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
17 B-4 29258 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
18 B-5 2972 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
19 B-6 2973 ~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
20 PPM-1 29154~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
21 PPM-2 29155~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
22 PPM-3 29156~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
23 PPM-4 29157~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
24 PPM-5 29158~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
25 PPM-6 29159~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
26 TECH 2916Z~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
27 TOX 291611~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
28 1232 29175~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
29 1242 29176~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
30 1248 29177~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
31 2154 29178~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
32 1660-1 9102~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
33 1660-2 9103~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
34 1660-3 9104~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
35 1660-4 9105~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
36 1660-5 9106~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
37 1660-6 9107~1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 1J08C

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	PRIM ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
2	PRIM ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
3	PRIM ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
4	MEX ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
5	PEM 292812~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
6	A-1 29318 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
7	A-2 29319 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
8	A-3 29321 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
9	A-4 29322 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
10	A-5 29323 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
11	A-6 29324 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
12	B-1 29326 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
13	B-2 29327 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
14	B-3 29328 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
15	B-4 29329 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
16	B-5 293210~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
17	B-6 29331 ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
18	PPM-1 29154~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
19	PPM-2 29155~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
20	PPM-3 29156~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
21	PPM-4 29157~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
22	PPM-5 29158~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
23	PPM-6 29159~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
24	PEM 292812~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
25	A-3 29321~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
26	B-3 29328~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
27	1007DMB ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
28	1007DMBLCS ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
29	1007DMBLCSD~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
30	1007DMB ~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
31	74380-1~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
32	A-3 29321~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000
33	B-3 29328~1C1008	E	1J08C	1.0000	1.0000	1.0000	1.0000

Data file : 1I22C7.d
Lab Smp Id : PEM 29216
Inj Date : 22-SEP-2003 14:56
Inst ID : TSGCECD1.i
Smp Info : PEM 29216~1C0922

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	354053			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	10566	2.9	15.0	PASS
4,4-DDD + DDE	10566	2.9	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	245492			N/A
E. Aldehyde	2618	1.1	15.0	PASS
E. Ketone	4204	1.7	15.0	PASS
Ketone+Aldehyde	6822	2.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 2I22C7.d
Lab Smp Id : PEM 29216
Inj Date : 22-SEP-2003 14:56
Inst ID : TSGCECD2.i
Smp Info : PEM 29216~1C0922

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	344232			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	9073	2.6	15.0	PASS
4,4-DDD + DDE	9073	2.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	193289			N/A
E. Aldehyde	0	0.0	15.0	PASS
E. Ketone	6424	3.2	15.0	PASS
Ketone+Aldehyde	6424	3.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 1J08C5.d
Lab Smp Id : PEM 292812
Inj Date : 08-OCT-2003 12:17
Inst ID : TSGCECD1.i
Smp Info : PEM 292812~1C1008

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	359065			N/A
4,4-DDE	2144	0.6	15.0	PASS
4,4-DDD	2220	0.6	15.0	PASS
4,4-DDD + DDE	4364	1.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	219873			N/A
E. Aldehyde	1066	0.5	15.0	PASS
E. Ketone	2546	1.1	15.0	PASS
Ketone+Aldehyde	3612	1.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0094

Data file : 2J08C5.d
Lab Smp Id : PEM 292812
Inj Date : 08-OCT-2003 12:17
Inst ID : TSGCECD2.i
Smp Info : PEM 292812~1C1008

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	360643			N/A
4,4-DDE	1466	0.4	15.0	PASS
4,4-DDD	2870	0.8	15.0	PASS
4,4-DDD + DDE	4336	1.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	176806			N/A
E. Aldehyde	1582	0.9	15.0	PASS
E. Ketone	3326	1.8	15.0	PASS
Ketone+Aldehyde	4908	2.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0095

Data file : 1J08C24.d
Lab Smp Id : PEM 292812
Inj Date : 08-OCT-2003 20:54
Inst ID : TSGCECD1.i
Smp Info : PEM 292812~1C1008

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	388234			N/A
4,4-DDE	2010	0.5	15.0	PASS
4,4-DDD	5770	1.5	15.0	PASS
4,4-DDD + DDE	7780	2.0	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	239432			N/A
E. Aldehyde	4780	2.0	15.0	PASS
E. Ketone	6699	2.7	15.0	PASS
Ketone+Aldehyde	11479	4.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 2J08C24.d
Lab Smp Id : PEM 292812
Inj Date : 08-OCT-2003 20:54
Inst ID : TSGCECD2.i
Smp Info : PEM 292812~1C1008

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	391996			N/A
4,4-DDE	1673	0.4	15.0	PASS
4,4-DDD	5531	1.4	15.0	PASS
4,4-DDD + DDE	7204	1.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	190945			N/A
E. Aldehyde	4442	2.3	15.0	PASS
E. Ketone	7474	3.8	15.0	PASS
Ketone+Aldehyde	11916	5.9	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

HERBICIDES IN TCLP EXTRACT
Methods 1311/8151

0098

CASE NARRATIVE

CASE NARRATIVE
GC TCLP HERBICIDES

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 1311/3520
Cleanup: N/A
Analysis: SW-846 8151

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

0101

SG ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 1J09L027

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/09/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
94-75-7	2,4-D	0.025	U
93-72-1	2,4,5-TP	0.025	U

FORM I SG

SG ORGANICS ANALYSIS DATA SHEET

1007PMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007PMB

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 1J09L026

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/09/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
94-75-7	2,4-D	0.025	U
93-72-1	2,4,5-TP	0.025	U

FORM I SG

SG ORGANICS ANALYSIS DATA SHEET

1007PMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007PMBLCS

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 1J09L028

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/09/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
94-75-7	2,4-D	0.010	J
93-72-1	2,4,5-TP	0.016	J

FORM I SG

0104

SG ORGANICS ANALYSIS DATA SHEET

1007PMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) WATER Lab Sample ID: 1007PMBLCSD

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 1J09L029

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/07/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/09/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
94-75-7	2,4-D	0.016	J
93-72-1	2,4,5-TP	0.015	J

FORM I SG

WATER SG SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

	CLIENT SAMPLE NO.	S1 (DCPA) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	1007PMB	102								0
02	74380-1	58								0
03	1007PMBLCS	120								0
04	1007PMBLCSD	100								0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (DCPA) = 2,4-DichlorophenylAcet (27-133)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

WATER SG LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix Spike - Sample No.: 1007PMB

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONC (mg/l)	LCS CONC (mg/l)	LCS % REC#	QC. LIMITS REC.
2,4,5-TP	0.017	0.00	0.016	94	30-135
2,4-D	0.017	0.00	0.010	59	11-154

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONC (mg/l)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
2,4,5-TP	0.017	0.015	88	91	6.4	66	30-135
2,4-D	0.017	0.016	94	76	46	78	11-154

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III SG

0107

SG METHOD BLANK SUMMARY

1007PMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: 1J09L026 Lab Sample ID: 1007PMB

Instrument ID: TSGLECD1 Date Extracted: 10/07/03

Matrix: (soil/water) WATER Date Analyzed: 10/09/03

Level: (low/med) LOW Time Analyzed: 1811

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	74380-1	086-EWC-S-1002	1J09L027	10/09/03
02	1007PMBLCS	1007PMBLCS	1J09L028	10/09/03
03	1007PMBLCSD	1007PMBLCSD	1J09L029	10/09/03
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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17				
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27				
28				
29				
30				

COMMENTS:

FORM IV SG

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGLECD1 Calibration Date(s): 10/03/03 10/03/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1031 1147

LAB FILE ID: RF0: 1J03L003 RF0: 1J03L004 RF0: 1J03L005
RF0: 1J03L006 RF0: 1J03L007

COMPOUND	RF0	RF0	RF0	RF0	RF0
2,4-D	0.07499	0.06617	0.06257	0.06021	0.05901
2,4,5-TP	0.67406	0.61947	0.62197	0.58478	0.57092
2,4-DichlorophenylAceticAcid	0.11499	0.09164	0.08942	0.08516	0.08383

FORM VI SG

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGLECD1 Calibration Date(s): 10/03/03 10/03/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 1031 1147

RF0: 1J03L008

COMPOUND	RF0	CURVE	AVE RRF A1	%RSD or R^2
2,4-D	0.06213	AVRG	6.418e-002	9.1
2,4,5-TP	0.55118	AVRG	0.60373	7.3
2,4-DichlorophenylAceticAcid	0.09383	AVRG	9.315e-002	12.2

FORM VI SG

SG CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGLECD1 Calibration Date: 10/09/03 Time: 1747

Lab File ID: 1J09L025 Init. Calib. Date(s): 10/03/03 10/03/03

Init. Calib. Times: 1031 1147

GC Column: DB-5 ID: 0.32 (mm)

COMPOUND	ICAL0 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
2,4-D	0.064		0.068	0.01	6.2	15.0	AVRG
2,4,5-TP	0.604		0.636	0.01	5.3	15.0	AVRG
2,4-DichlorophenylAceticAcid	0.093		0.100	0.01	7.5	15.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM VII SG

0111

SG INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): 1J09L025 Date Analyzed: 10/09/03

Instrument ID: TSGLECD1 Time Analyzed: 1747

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	6357	6.38				
	UPPER LIMIT	9536	6.88				
	LOWER LIMIT	3179	5.88				
	CLIENT SAMPLE NO.						
01	1007PMB	5826	6.38				
02	74380-1	5560	6.38				
03	1007PMBLCS	5162	6.38				
04	1007PMBLCSD	5233	6.38				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Dbofb

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SG ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 10/03/03 10/03/03

Instrument ID: TSGLECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	RT
01		HERB1 226	10/03/03	1031	5.82	
02		HERB2 227	10/03/03	1046	5.81	
03		HERB3 228	10/03/03	1101	5.81	
04		HERB4 229	10/03/03	1117	5.80	
05		HERB52210	10/03/03	1132	5.80	
06		HERB6 231	10/03/03	1147	5.80	
07		HERB4 229	10/09/03	1747	5.81	
08	1007PMB	1007PMB	10/09/03	1811	5.82	
09	74380-1	086-EWC-S-10	10/09/03	1823	5.82	
10	1007PMBLCS	1007PMBLCS	10/09/03	1836	5.81	
11	1007PMBLCSD	1007PMBLCSD	10/09/03	1848	5.81	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

S1 = 2,4-DichlorophenylAcet (+/- 0.04 MINUTES)

FORM VIII SG

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 483 8

Batch No: SG100703P

Date Extracted: 10.07.03

Start Time:

Stop Time:

Analysis Required: 8151 TCLP

Prep Method: 3510

Analyst/Activity Code* DJH/A,B,D,E,F,P

Initial Project Check: DJH

Final Project Check: ~~DJH~~ 10.9.03

Date Concentrated: DH 10.9.03

Initials: 10.9.03

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8151	6.3.72.4	0.5	DJH
Surr.		6.3.74.1		
Spike	8151	~~6.3.73.1~~ 6.3.74.1	0.5	DJH
Spike	TCLP	6.3.73.1	1.0	DJH

Clean Up: Yes No

Comments

Solvent(s) Lot No:

ACIDIFIED Na_2SO_4: Y02631

$MeCl_2$: Y17E34

E.Ether: Y23478

MTBE: L51419

HEX: Y13E22

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Ex'd	PH I	PH F	FV (ml)	D.D.	H.D.	COMMENTS
1. T374394*1/220994-1*		LI	25	5	>12/<2	5.0	10.13	10.09	
2. T374394*2/220994-2*		LI	25	5	>12/<2	5.0	10.13	10.09	
3. T374380*1/086-EWC-S-1002-03*	JETC03	SS	25	5	>12/<2	5.0	10.09	10.16	R|
4. T374394 /MB		LI	25	5	>12/<2	5.0			
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
AN 10.07.03 ~~Lab Blank~~ EX FL BLK		LI	25	5	>12/<2	5.0			
Lab Spike #1		LI	25	5	>12/<2	5.0			
Lab Spike #2		LI	25	5	>12/<2	5.0			
MS: T374394-1/220994-1		LI	25	5	>12/<2	5.0			
1:3 H_2SO_4: AN.A22.0004.2.6									
10N NaOH: AN.A22.0004.39									
NaCl: X28634									

AN 10-08-03

Dets: Herbicides in TCLP extract <8151>|

+ Additional Dets:

ANALYSIS LOG(S)

Client SDG: JETC03 Sample Fraction: SG

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4406092	1L1003.b	1J03L003.D	CALIB_1		HERB1 226	4406086		
4406092	1L1003.b	1J03L004.D	CALIB_2		HERB2 227	4406087		
4406092	1L1003.b	1J03L005.D	CALIB_3		HERB3 228	4406088		
4406092	1L1003.b	1J03L006.D	CALIB_4		HERB4 229	4406089		
4406092	1L1003.b	1J03L007.D	CALIB_5		HERB52210	4406090		
4406092	1L1003.b	1J03L008.D	CALIB_6		HERB6 231	4406091		
4406696	1L1009.b	1J09L025.D	CCALIB_4		HERB4 229	4406818		
4406696	1L1009.b	1J09L026.D	BLANK	1007PMB	1007PMB	4406824	SG100703P	JETC03
4406696	1L1009.b	1J09L028.D	LCS	1007PMBLCS	1007PMBLCS	4406826	SG100703P	JETC03
4406696	1L1009.b	1J09L029.D	LCSD	1007PMBLCSD	1007PMBLCSD	4406828	SG100703P	JETC03
4406696	1L1009.b	1J09L027.D	SAMPLE	74380-1	086-EWC-S-1002-0	4406825	SG100703P	JETC03

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Sequence Table (Front Injector):

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	RINSE~1L1009				
2	2	RINSE~1L1009				
3	3	HERB4 229~1L1009				
4	4	HERB2 227~1L1009				
5	5	1006LMB~1L1009				
6	6	1006LMBLS~1L1009				
7	7	1006LMBLD~1L1009				
8	8	74277-15~1L1009~				
9	9	74277-15~1L1009~				
10	10	74277-15~1L1009				
11	11	74277-16~1L1009				
12	12	74277-17~1L1009				
13	13	74277-18~1L1009				
14	14	74277-19~1L1009				
15	15	74277-20~1L1009				
16	16	74277-21~1L1009				
17	17	74277-22~1L1009				
18	18	74277-23~1L1009				
19	19	74277-24~1L1009				
20	11	74277-16~1L1009				
21	16	74277-21~1L1009				
22	20	1006LMBL3~1L1009				
23	21	1006LMBL4~1L1009				
24	22	RINSE~1L1009				
25	3	HERB4 229~1L1009				
26	23	1007PMB~1L1009~E				
27	24	74380-1~1L1009				
28	25	1007PMBLS~1L1009				
29	26	1007PMBLD~1L1009				
30	27	1007PMB~1L1009				
31	28	74394-1~1L1009~S				
32	29	74394-1~1L1009				
33	30	74394-2~1L1009				
34	3	HERB4 229~1L1009				

Sequence Table (Back Injector):

No entries - empty table!

TCLP METALS
Method 6010/7040

CASE NARRATIVE

CASE NARRATIVE
TCLP- METALS

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 1311/3005
Cleanup: N/A
Analysis: SW-846 6010/7470

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: TPQt DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental

SDG No.: JETC03 Method Type: SOW No.:

Contract: Lab Code: STL Case No.: SAS No.:

Lab Sample ID	Client Sample ID	QC Description
T374380-1	T374380-1	

Were ICP interelement corrections applied?	Yes/No	Yes	
Were ICP background corrections applied?	Yes/No	Yes	
If yes - were raw data generated before applications of background corrections?	Yes/No	No	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

0123

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental

SDG No.: JETC03 Method Type: SOW No.:

Contract: Lab Code: STL Case No.: SAS No.:

Lab Sample ID	Client Sample ID	QC Description
T374380-1	T374380-1	

Were ICP interelement corrections applied?	Yes/No	Yes	
Were ICP background corrections applied?	Yes/No	Yes	
If yes - were raw data generated before applications of background corrections?	Yes/No	No	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

0124

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INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental **SDG No.:** JETC03 **Method Type:**

Sample ID: T374380-1 **Client ID:** T374380-1

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: TCLP **Date Received:** **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7440-38-2	Arsenic	0.20	mg/L	U		P	0.20	TJA61E Trace	100703
7440-39-3	Barium	1.0	mg/L	U		P	1.0	TJA61E Trace	100703
7440-43-9	Cadmium	0.10	mg/L	U		P	0.10	TJA61E Trace	100703
7440-47-3	Chromium	0.20	mg/L	U		P	0.20	TJA61E Trace	100703
7439-92-1	Lead	0.20	mg/L	U		P	0.20	TJA61E Trace	100703
7782-49-2	Selenium	0.50	mg/L	U		P	0.50	TJA61E Trace	100703
7440-22-4	Silver	0.10	mg/L	U		P	0.10	TJA61E Trace	100703

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental **SDG No.:** JETC03 **Method Type:**

Sample ID: T374380-1 **Client ID:** T374380-1

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: TCLP **Date Received:** **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-97-6	Mercury	0.02000	mg/L	U		CV	0.02000	CVAA	1009CVLI

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Arsenic	2.1	2.0	105.0	90.0 - 110.0	P	10/07/2003	10:20	100703
	Barium	2.0	2.0	100.0	90.0 - 110.0	P	10/07/2003	10:20	100703
	Cadmium	2.0	2.0	100.0	90.0 - 110.0	P	10/07/2003	10:20	100703
	Chromium	2.1	2.0	105.0	90.0 - 110.0	P	10/07/2003	10:20	100703
	Lead	2.0	2.0	100.0	90.0 - 110.0	P	10/07/2003	10:20	100703
	Selenium	2.1	2.0	105.0	90.0 - 110.0	P	10/07/2003	10:20	100703
	Silver	2.0	2.0	100.0	90.0 - 110.0	P	10/07/2003	10:20	100703
CCV1									
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	11:52	100703
CCV2									
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	13:00	100703
CCV3									
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	14:23	100703

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV4									
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	15:21	100703
CCV7									
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	17:18	100703
CCV8									
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/07/2003	18:38	100703

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Mercury	0.0029	0.0030	96.7	90.0 - 110.0	CV	10/09/2003	12:30	1009CVLI
CCV1	Mercury	0.0019	0.0020	95.0	80.0 - 120.0	CV	10/09/2003	13:00	1009CVLI

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental SDG No.: JETC03

Contract: Lab Code: STL Case No.: SAS No.:

AA CRDL Standard Source:

ICP CRDL Standard Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Arsenic	0.007	0.008	87.5	50 - 150	P	10/07/200	11:06	100703
	Barium	0.010	0.010	100.0	50 - 150	P	10/07/200	11:06	100703
	Cadmium	0.0051	0.0050	102.0	50 - 150	P	10/07/200	11:06	100703
	Chromium	0.010	0.010	100.0	50 - 150	P	10/07/200	11:06	100703
	Lead	0.0051	0.0050	102.0	50 - 150	P	10/07/200	11:06	100703
	Selenium	0.010	0.010	100.0	50 - 150	P	10/07/200	11:06	100703
	Silver	0.007	0.005	140.0	50 - 150	P	10/07/200	11:06	100703
CRDL3									
	Arsenic	0.004	0.008	50.0	50 - 150	P	10/07/200	17:53	100703
	Barium	0.010	0.010	100.0	50 - 150	P	10/07/200	17:53	100703
	Cadmium	0.0053	0.0050	106.0	50 - 150	P	10/07/200	17:53	100703
	Chromium	0.010	0.010	100.0	50 - 150	P	10/07/200	17:53	100703
	Lead	0.0053	0.0050	106.0	50 - 150	P	10/07/200	17:53	100703
	Selenium	0.006	0.010	60.0	50 - 150	P	10/07/200	17:53	100703
	Silver	0.006	0.005	120.0	50 - 150	P	10/07/200	17:53	100703

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: _____ **Lab Code:** STL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Mercury	0.00017	0.00020	85.0	50 - 150	CV	10/09/200	12:35	1009CVLI

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	10:31	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	10:31	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	10:31	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	10:31	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	10:31	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	10:31	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	10:31	100703
CCB1										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	11:56	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	11:56	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	11:56	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	11:56	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	11:56	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	11:56	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	11:56	100703
CCB2										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	13:03	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	13:03	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	13:03	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	13:03	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	13:03	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	13:03	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	13:03	100703
CCB3										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	14:26	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	14:26	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	14:26	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	14:26	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	14:26	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	14:26	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	14:26	100703

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB4										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	15:24	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	15:24	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	15:24	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	15:24	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	15:24	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	15:24	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	15:24	100703
CCB7										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	17:21	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	17:21	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	17:21	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	17:21	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	17:21	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	17:21	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	17:21	100703
CCB8										
	Arsenic	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	18:42	100703
	Barium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	18:42	100703
	Cadmium	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	18:42	100703
	Chromium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	18:42	100703
	Lead	0.0050	+/-0.0050	U	0.0050	0.0050	P	10/07/2003	18:42	100703
	Selenium	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	18:42	100703
	Silver	0.010	+/-0.010	U	0.010	0.010	P	10/07/2003	18:42	100703

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB1	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/09/2003	12:33	1009CVLI
CCB1	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/09/2003	13:02	1009CVLI

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
PBT1			TCLP							
	Arsenic	0.20	+/-0.20	U	0.20	0.20	P	10/07/2003	13:57	100703
	Barium	1.0	+/-1.0	U	1.0	1.0	P	10/07/2003	13:57	100703
	Cadmium	0.10	+/-0.10	U	0.10	0.10	P	10/07/2003	13:57	100703
	Chromium	0.20	+/-0.20	U	0.20	0.20	P	10/07/2003	13:57	100703
	Lead	0.20	+/-0.20	U	0.20	0.20	P	10/07/2003	13:57	100703
	Selenium	0.50	+/-0.50	U	0.50	0.50	P	10/07/2003	13:57	100703
	Silver	0.10	+/-0.10	U	0.10	0.10	P	10/07/2003	13:57	100703
PBT2			TCLP							
	Arsenic	0.20	+/-0.20	U	0.20	0.20	P	10/07/2003	14:00	100703
	Barium	1.0	+/-1.0	U	1.0	1.0	P	10/07/2003	14:00	100703
	Cadmium	0.10	+/-0.10	U	0.10	0.10	P	10/07/2003	14:00	100703
	Chromium	0.20	+/-0.20	U	0.20	0.20	P	10/07/2003	14:00	100703
	Lead	0.20	+/-0.20	U	0.20	0.20	P	10/07/2003	14:00	100703
	Selenium	0.50	+/-0.50	U	0.50	0.50	P	10/07/2003	14:00	100703
	Silver	0.10	+/-0.10	U	0.10	0.10	P	10/07/2003	14:00	100703

- 3b -

PREPARATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
PBW;1009T			**WATER**							
	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/09/2003	12:40	1009CVLI
EX FL#1BLK			**TCLP**							
	Mercury	0.02000	+/-0.02000	U	0.02000	0.02000	CV	10/09/2003	12:48	1009CVLI

INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Arsenic	0				10/07/2003	11:22	100703
	Barium	0				10/07/2003	11:22	100703
	Cadmium	0				10/07/2003	11:22	100703
	Chromium	0				10/07/2003	11:22	100703
	Lead	0				10/07/2003	11:22	100703
	Selenium	0				10/07/2003	11:22	100703
	Silver	0				10/07/2003	11:22	100703
ICS-AB1								
	Arsenic	0.11	0.10	110	80 - 120%	10/07/2003	11:32	100703
	Barium	0.49	0.50	98	80 - 120%	10/07/2003	11:32	100703
	Cadmium	1.01	1	101.0	80 - 120%	10/07/2003	11:32	100703
	Chromium	0.51	0.50	102	80 - 120%	10/07/2003	11:32	100703
	Lead	1.03	1	103.0	80 - 120%	10/07/2003	11:32	100703
	Selenium	0.05	0.050	100	80 - 120%	10/07/2003	11:32	100703
	Silver	1.12	1	112.0	80 - 120%	10/07/2003	11:32	100703
ICS-A2								
	Arsenic	0				10/07/2003	18:15	100703
	Barium	0				10/07/2003	18:15	100703
	Cadmium	0				10/07/2003	18:15	100703
	Chromium	0				10/07/2003	18:15	100703
	Lead	0				10/07/2003	18:15	100703
	Selenium	0				10/07/2003	18:15	100703
	Silver	0				10/07/2003	18:15	100703
ICS-AB2								
	Arsenic	0.11	0.10	110	80 - 120%	10/07/2003	18:27	100703
	Barium	0.49	0.50	98	80 - 120%	10/07/2003	18:27	100703
	Cadmium	0.96	1	96.0	80 - 120%	10/07/2003	18:27	100703
	Chromium	0.49	0.50	98	80 - 120%	10/07/2003	18:27	100703
	Lead	1.01	1	101.0	80 - 120%	10/07/2003	18:27	100703
	Selenium	0.04	0.050	80	80 - 120%	10/07/2003	18:27	100703
	Silver	1.05	1	105.0	80 - 120%	10/07/2003	18:27	100703

DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmental **Level:** LOW **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: WATER **Sample ID:** LCS;1009T **Client ID:** LCSD;1009T

Percent Solids for Sample: 0.00 **Duplicate ID:** LCSD;1009T **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/L		0.0026		0.0027		3.8		CV

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS								
	Arsenic	mg/L	1.0	1.00		100	75.0 - 125.0	P
	Barium	mg/L	1.0	1.00	U	90	75.0 - 125.0	P
	Cadmium	mg/L	1.0	1.06		106	75.0 - 125.0	P
	Chromium	mg/L	1.0	0.99		99	75.0 - 125.0	P
	Lead	mg/L	1.0	1.00		100	75.0 - 125.0	P
	Selenium	mg/L	1.0	1.00		100	75.0 - 125.0	P
	Silver	mg/L	1.0	1.02		102	75.0 - 125.0	P

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
EX FL#1LCS								
	Mercury	mg/L	0.0025	0.0200	U	88	80.0 - 120.0	CV

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS;1009T								
	Mercury	mg/L	0.0025	0.0026		104	80.0 - 120.0	CV

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD;1009T								
	Mercury	mg/L	0.0025	0.0027		108	80.0 - 120.0	CV

METHOD DETECTION LIMITS

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: _____ **Lab Code:** STL **Case No.:** _____ **SAS No.:** _____

Analyte	Wave- length (nm)	MDL ug/L	CRQL ug/L
TJA61E Trace			**Date:**
Arsenic	193.60	200	200
Barium	455.40	1000	1000
Cadmium	228.80	100.0	100.0
Chromium	267.70	200	200
Lead	220.30	200	200
Selenium	196.00	500	500
Silver	328.00	100	100

METHOD DETECTION LIMITS

Client: Aerostar Environmental SDG No.: JETC03

Contract: Lab Code: STL Case No.: SAS No.:

	Analyte	Wave- length (nm)	MDL ug/L	CRQL ug/L
CVAA				Date:
	Mercury	253.70	20.000	20.000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental SDG No.: JETC03

Contract: Lab Code: STL Case No.: SAS No.:

Instrument ID: TJA61E Trace Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ba
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000210	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001270	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.0009600
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0004880	-0.0000340	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental SDG No.: JETC03

Contract: Lab Code: STL Case No.: SAS No.:

Instrument ID: TJA61E Trace Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Cd	Co	Cr	Cu	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0039980	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0001660	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	-0.0001070	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0933920	0.0006990	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0004010	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	-0.0004990	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000410
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	-0.0017200	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	-0.0010260	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental

SDG No.: JETC03

Contract:

Lab Code: STL

Case No.:

SAS No.:

Instrument ID: TJA61E Trace

Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Mo	Ni	Sb	Sn	V
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0221630
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0009790	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0003210	0.0000000	0.0000000	0.0000000	0.0002950
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0067400
Lead	220.35	-0.0003160	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-0.0336840	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003800
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	-0.0004500	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0015660	0.0000000	0.0000000
Vanadium	292.40	-0.0030720	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental SDG No.: JETC03

Contract: Lab Code: STL Case No.: SAS No.:

Instrument ID: TJA61E Trace Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Zn				
Aluminum	308.21	0.0000000				
Antimony	206.84	0.0000000				
Arsenic	189.04	0.0000000				
Barium	493.40	0.0000000				
Beryllium	313.04	0.0000000				
Cadmium	226.50	0.0000000				
Calcium	317.93	0.0000000				
Chromium	267.71	0.0000000				
Cobalt	228.61	0.0000000				
Copper	324.75	0.0000000				
Iron	271.44	0.0000000				
Lead	220.35	0.0000000				
Magnesium	279.07	0.0000000				
Manganese	257.61	0.0000000				
Molybdenum	202.00	0.0000000				
Nickel	231.60	0.0000000				
Potassium	766.49	0.0000000				
Selenium	196.02	0.0000000				
Silver	328.06	0.0000000				
Sodium	330.23	0.0000000				
Thallium	190.86	0.0000000				
Tin	189.98	0.0000000				
Vanadium	292.40	0.0000000				
Zinc	206.20	0.0000000				

LINEAR RANGES

Client: Aerostar Environmental **SDG No.:** JETC03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Instrument ID: TJA61E Trace **Date:**

Analyte	Integration Time (sec)	LDR ug/L
Arsenic	10.00	30000
Barium	10.00	50000
Cadmium	10.00	40000
Chromium	10.00	75000
Lead	10.00	100000
Selenium	10.00	50000
Silver	10.00	3000

SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmental

SDG No.: JETC03

Contract:

Lab Code: STL

Method: P

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME100703O						
PBT1	PBT1; ME100703O	MB	TCLP	10/7/03	20.0	20.0	
PBT2	PBT2; ME100703O EXFL1	MB	TCLP	10/7/03	20.0	20.0	
LCS	LCS; ME100703O EXFL1	LCS	TCLP	10/7/03	20.0	20.0	
T374380-1	T374380-1	SAM	TCLP	10/7/03	20.0	20.0	

SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmental

SDG No.: JETC03

Contract:

Lab Code: STL

Method: CV

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME100903T						
PBW;1009T	PBW;1009T	MB	WATER	10/9/03	30.0	30.0	
LCS;1009T	LCS;1009T	LCS	WATER	10/9/03	30.0	30.0	
LCSD;1009T	LCSD;1009T	LCSD	WATER	10/9/03	30.0	30.0	
EX FL#1BLK	EX FL#1BLK	MB	TCLP	10/9/03	0.3	30.0	
EX FL#1LCS	EX FL#1LCS	LCS	TCLP	10/9/03	0.3	30.0	
T374380-1	T374380-1	SAM	TCLP	10/9/03	0.3	30.0	

ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: JETC03

Instrument ID Number: TJA61E Trace Method: P Run Number: 100703

Start Date: 10/07/2003 End Date: 10/07/2003

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD1-Blank	1.00	0958				X	X		X		X				X						X	X					
STD4	1.00	1002				X			X						X						X	X					
STD3	1.00	1005																									
STD2	1.00	1008					X				X																
FE STD	1.00	1009																									
STD5	1.00	1011																									
ICV1	1.00	1020				X	X		X		X				X						X	X					
ICB1	1.00	1031				X	X		X		X				X						X	X					
STD 4	1.00	1036				X	X		X		X				X						X	X					
STD 3	1.00	1042				X	X		X		X				X						X	X					
STD 2	1.00	1051				X	X		X		X				X						X	X					
FE STD	1.00	1057				X	X		X		X				X						X	X					
STD 5	1.00	1100				X	X		X		X				X						X	X					
CRDL1	1.00	1106				X	X		X		X				X						X	X					
ICS-A1	1.00	1122				X	X		X		X				X						X	X					
ICS-AB1	1.00	1132				X	X		X		X				X						X	X					
CCV1	1.00	1152				X	X		X		X				X						X	X					
CCB1	1.00	1156				X	X		X		X				X						X	X					
CCV2	1.00	1300				X	X		X		X				X						X	X					
CCB2	1.00	1303				X	X		X		X				X						X	X					
PBT1	1.00	1357				X	X		X		X				X						X	X					
PBT2	1.00	1400				X	X		X		X				X						X	X					
LCS	1.00	1404				X	X		X		X				X						X	X					
CCV3	1.00	1423				X	X		X		X				X						X	X					
CCB3	1.00	1426				X	X		X		X				X						X	X					
T374380-1	1.00	1444				X	X		X		X				X						X	X					
CCV4	1.00	1521				X	X		X		X				X						X	X					
CCB4	1.00	1524				X	X		X		X				X						X	X					
CCV7	1.00	1718				X	X		X		X				X						X	X					
CCB7	1.00	1721				X	X		X		X				X						X	X					
CRDL3	1.00	1753				X	X		X		X				X						X	X					
ICS-A2	1.00	1815				X	X		X		X				X						X	X					
ICS-AB2	1.00	1827				X	X		X		X				X						X	X					
CCV8	1.00	1838				X	X		X		X				X						X	X					
CCB8	1.00	1842				X	X		X		X				X						X	X					

Form XIV - IN

0152

ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: JETC03

Instrument ID Number: CVAA Method: CV Run Number: 1009CVLI

Start Date: 10/09/2003 End Date: 10/09/2003

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV1	1.00	1230																X									
ICB1	1.00	1233																X									
CRDL1	1.00	1235																X									
PBW;1009T	1.00	1240																X									
LCS;1009T	1.00	1242																X									
LCSD;1009T	1.00	1245																X									
EX FL#1BLK	100.00	1248																X									
EX FL#1LCS	100.00	1250																X									
T374380-1	100.00	1253																X									
CCV1	1.00	1300																X									
CCB1	1.00	1302																X									

Form XIV - IN

0153

DIGESTION LOG(S)

DIGESTION LIQUIDS

Job No: 411

Batch No: Me100703O

Job Date: 100703

ANALYSIS

ICP | AA | HG

FLAME | TCLP

MISC

Date/Time Started: 10-07-03 10:00

Date/Time Completed: ↓ 13:00

Analyst: SK

Method/SOP: 3010A 6010B

Final Volume: 20mL

Acid Lot #(s): HNO3: 1-me-R0008

HCl: 1-me-R0009

94°#81

Hood: CW4200 GeHot Block #4

Bath Temp(Hg only):

Final Project Check:

	ID	LOT#	AMT (mL)	INIT
Spike	QC 7	1-me-0075	0.20	SK
Spike	QC 19	1-me-0074	↓	↓
Spike		10-07-03 SK		
Spike				

SAMPLE ID/MTX/DESCRIPTION	D.D.	SDG	BENCH	VIAL #	VOLUME DIGESTED(mL)	DF	COMMENTS
1. T374262*1/SS/LWP1-Tops	10.03		ICP		20mL		*XN|
2. T374262*2/SS/LWP2-Tops	10.03		ICP		↓		*XN|
3. T374262*3/SS/LWP3-Tops	10.03		ICP				*XN|
4. T374361*24/SS/HM-A2-Comp - TCLP	10.10		ICP				*XNA|
5. T374361*25/SS/HM-A3-Comp - TCLP	10.10		ICP				*XNA|
6. T374361*26/SS/HM-A1-Comp - TCLP	10.10		ICP				*XNA|
7. T374361*27/SS/HM-A4-Comp - TCLP	10.10		ICP				*XNA|
8. T374380*1/SS/086-EWC-S-1002-03	10.09	JETC03	ICP				R*DCX|
9. EX. Cl. #1 10-02-03 (74262)							
10. ↓ 10-07-03 (74361 74380)					↓		
11.							
12.							
13.					SK		
14.							
15.							
16.							
17.							
18.							
19.							
20.							
Lab Blank DI					20mL		
Lab Spike #1 10-02-03					↓		
Lab Spike #2 10-07-03							
Dup T374361-25							

10-07-03

Comments:

0155

SL LIQUID DIGESTION LOG

BATCH ID: ME100903 T

LOG #'s: 74243 74352 74336 74381 74369 74386 74429 74432 74436 74380

ANALYSIS METHOD: 245.1 7470

IGESTION METHOD: 245.1 7470

TE / TIME STARTED: 10.09.03 10:10 ANALYST: ED

TE / TIME FINISHED: 10.09.03 12:10 ANALYST: ED

. block #1 Head: CK 411277

HNO_3 ACID LOT: 17-3-50-5

H_2SO_4 ACID LOT: 17-3-50-13

$KMnO_4$ LOT: 17-3-51-3

$K_2S_2O_8$ LOT: 17-3-50-8

$NaCl/(NH_2OH_6)\cdot H_2SO_4$ LOTS: 17-3-50-12

$SnCl_2$: 17-3-51-5

DIGESTION TEMP: 95 °C

Therm # 81

SPIKE SOLN #	NAME	ID	AMT ADDED	INITIALS
1	LCS Work Std	14-3-54-9	0.30mL	ED
2	MS Work Std	14-3-54-10	0.30mL	↓
3		ED	10.09.03	
4				

PROJECT ID	SAMPLE ID	BEAKER #	AMOUNT DIGESTED (ml)	FINAL VOLUME (ml)	COMMENTS
ME100903T	LAB BLANK	w/01	30mL	30mL	
↓	BLANK SPIKE 1	↓	↓	↓	SPIKE SOLN #: 1
↓	BLANK SPIKE 2	↓	↓	↓	SPIKE SOLN #: 1
74243-1	MW-15	↓	↓	↓	
-2	-19	↓	↓	↓	
-3	-8	↓	↓	↓	
-4	-7	↓	↓	↓	
-5	-6	↓	↓	↓	
74351-1	1 M184A	↓	↓	↓	
74336-1	O.M.5	↓	↓	↓	
74381-1	1G183A	↓	↓	↓	
74386-1	DCLF-77	↓	↓	↓	
74429-1	# 4-10	↓	↓	↓	
74432-1	BES	↓	↓	↓	
74436-1	EB-01	↓	↓	↓	
74369-1	C-EFF	↓	↓	↓	
74380-1	DB6-EWC	↓	0.30mL	↓	TCLP 1:100 Dil
ExF/#1 Blk	Blank	w/01	↓	↓	↓
ExF/#1 LCS	LCS	↓	↓	↓	↓
		ED	10.09.03		
74243-1	DUP MW-15	w/01	30mL	30mL	
↓	MS1	↓	↓	↓	SPIKE SOLN #: 2
↓	MS2	↓	↓	↓	SPIKE SOLN #: 2

0156

SEMIVOLATILE ORGANIC COMPOUNDS
Method 8270

CASE NARRATIVE

CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8270

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: The relative Percent Difference (%RPD) value for 1,2,4-Trichlorobenzene was outside advisory limits.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100904

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: 12 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	bis(2-Chloroisopropyl)ether	380	U
106-44-5	3&4-Methylphenol	380	U
621-64-7	n-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethyphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	3200	
106-47-8	4-Chloroaniline	750	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	6000	
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	380	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100904

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: 12 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 10/09/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	150	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	51	J
7005-72-3	4-Chlorophenylphenylether	380	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	2-Methyl-4,6-dinitrophenol	1900	U
86-30-6	Diphenylamine/n-Nitrosodiphe	380	U
101-55-3	4-Bromophenylphenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	58	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	300	J
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-c,d)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100905

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
123-91-1	1,4-Dioxane	330	U
62-75-9	n-Nitrosodimethylamine	330	U
110-86-1	Pyridine	330	U
108-95-2	Phenol	330	U
62-53-3	Aniline	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
65-85-0	Benzoic acid	1700	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-65-0	2,6-Dichlorophenol	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
90-12-0	1-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100905

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
4901-51-3	2,3,4,5-Tetrachlorophenol	330	U
58-90-2	2,3,4,6-Tetrachlorophenol	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
122-66-7	1,2-Diphenylhydrazine/Azoben	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
88-85-7	Dinoseb	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-5	Benzidine	2700	U
129-00-0	Pyrene	330	U
119-93-7	3,3'-Dimethylbenzidine	330	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLB

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100905

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 10/09/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100906

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2500	
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	2200	
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	1100	
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	870	
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	1100	
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	2400	
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	980	

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100906

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 1 (mL) Date Analyzed: 10/09/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	2200	
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	1100	
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1800	
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100907

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	1800	
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	950	
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	3&4-Methylphenol	330	U
621-64-7	n-Nitroso-di-n-propylamine	660	
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethyphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	860	
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	1900	
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	780	

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM100603HLBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: SM100603HLBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: A3100907

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	900	
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenylphenylether	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	2-Methyl-4,6-dinitrophenol	1700	U
86-30-6	Diphenylamine/n-Nitrosodiphe	330	U
101-55-3	4-Bromophenylphenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1400	J
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-c,d)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

FORM I SV

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (2FP)#	S2 (PHL)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	74380-1	53	53	63	47	63	63			0
02	SM100603HLB	67	70	70	70	67	88			0
03	SM100603HLBL	67	70	65	65	70	82			0
04	SM100603HLBL	58	58	55	53	58	76			0
05										
06										
07										
08										
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		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(16-113)
S2 (PHL)	= Phenol-d5	(19-114)
S3 (NBZ)	= Nitrobenzene-d5	(20-120)
S4 (FBP)	= 2-Fluorobiphenyl	(30-120)
S5 (TBP)	= 2,4,6-Tribromophenol	(23-129)
S6 (TPH)	= Terphenyl-d14	(30-131)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 1A31009

Matrix Spike - Sample No.: SM100603HLBLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
Phenol	3300		2500	76	13-115
2-Chlorophenol	3300		2200	67	15-111
1,4-Dichlorobenzene	1700		1100	65	10-105
n-Nitroso-di-n-prop.(1)	1700		870	51	11-122
1,2,4-Trichlorobenzene	1700		1100	65	10-112
4-Chloro-3-methylphenol	3300		2400	73	22-114
Acenaphthene	1700		980	58	18-123
4-Nitrophenol	3300		2200	67	15-118
2,4-Dinitrotoluene	1700		1100	65	11-120
Pentachlorophenol	3300		1800	54	10-140
Pyrene	1700		1500	88	10-133

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	2000	61	68	22	39	13-115
2-Chlorophenol	3300	1800	54	60	20	38	15-111
1,4-Dichlorobenzene	1700	950	56	60	15	31	10-105
n-Nitroso-di-n-prop.(1)	1700	660	39	45	27	37	11-122
1,2,4-Trichlorobenzene	1700	860	50	58	24*	22	10-112
4-Chloro-3-methylphenol	3300	1900	58	66	23	32	22-114
Acenaphthene	1700	780	46	52	23	49	18-123
4-Nitrophenol	3300	1700	52	60	26	57	15-118
2,4-Dinitrotoluene	1700	900	53	59	20	37	11-120
Pentachlorophenol	3300	1400	42	48	25	55	10-140
Pyrene	1700	1200	70	79	22	42	10-133

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM III SV

SEMIVOLATILE METHOD BLANK SUMMARY

SM100603HLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: A3100905 Lab Sample ID: SM100603HLB

Instrument ID: TSMA5973 Date Extracted: 10/06/03

Matrix: (soil/water) SOIL Date Analyzed: 10/09/03

Level:(low/med) LOW Time Analyzed: 1115

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	74380-1	086-EWC-S-1002	A3100904	10/09/03
02	SM100603HLBL	SM100603HLBLCS	A3100906	10/09/03
03	SM100603HLBL	SM100603HLBLCS	A3100907	10/09/03
04				
05				
06				
07				
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COMMENTS:

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: A3091611 DFTPP Injection Date: 09/16/03

Instrument ID: TSMA5973 DFTPP Injection Time: 1532

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	37.1
68	Less than 2.0% of mass 69	0.3 (1.0)1
69	Mass 69 relative abundance	29.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	25.0 - 75.0% of mass 198	52.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.0
365	Greater than 0.75% of mass 198	2.00
441	Present, but less than mass 443	10.7
442	40.0 - 110.0% of mass 198	73.9
443	15.0 - 24.0% of mass 442	14.1 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA004	BNA004	A3091612	09/16/03	1559
02	BNA010	BNA010	A3091613	09/16/03	1628
03	BNA020	BNA020	A3091614	09/16/03	1656
04	BNA050	BNA050	A3091615	09/16/03	1724
05	BNA080	BNA080	A3091616	09/16/03	1752
06	BNA100	BNA100	A3091617	09/16/03	1820
07	BNA120	BNA120	A3091618	09/16/03	1848
08	BNA160	BNA160	A3091619	09/16/03	1916
09					
10					
11					
12					
13					
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15					
16					
17					
18					
19					
20					
21					
22					

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: A3100901 DFTPP Injection Date: 10/09/03

Instrument ID: TSMA5973 DFTPP Injection Time: 0939

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	47.7
68	Less than 2.0% of mass 69	0.7 (2.0)1
69	Mass 69 relative abundance	37.0
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	60.7
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	18.1
365	Greater than 0.75% of mass 198	1.86
441	Present, but less than mass 443	8.0
442	40.0 - 110.0% of mass 198	54.3
443	15.0 - 24.0% of mass 442	10.2 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA050	BNA050	A3100902	10/09/03	0954
02	74380-1	086-EWC-S-1002	A3100904	10/09/03	1048
03	SM100603HLB	SM100603HLB	A3100905	10/09/03	1115
04	SM100603HLBL	SM100603HLBLCS	A3100906	10/09/03	1144
05	SM100603HLBL	SM100603HLBLCS	A3100907	10/09/03	1211
06					
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SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF4: A3091612 RF10: A3091613 RF20: A3091614
RF50: A3091615 RF80: A3091616

COMPOUND	RF4	RF10	RF20	RF50	RF80
1,4-Dioxane	0.381	0.414	0.415	0.398	0.377
n-Nitrosodimethylamine	0.711	0.815	0.745	0.725	0.693
Pyridine	1.190	1.254	1.316	1.242	1.210
Phenol	1.423	1.597	1.412	1.194	1.065
Aniline	1.770	2.094	1.831	1.685	1.622
Bis(2-chloroethyl)ether	1.106	1.319	1.111	0.950	0.855
2-Chlorophenol	1.459	1.721	1.491	1.405	1.310
1,3-Dichlorobenzene	1.724	1.811	1.744	1.561	1.454
1,4-Dichlorobenzene	1.656	1.734	1.659	1.487	1.407
Benzyl Alcohol	0.800	1.008	0.850	0.693	0.671
1,2-Dichlorobenzene	1.651	1.713	1.550	1.297	1.133
2-Methylphenol	0.970	1.158	1.002	0.928	0.883
bis(2-Chloroisopropyl)ether	2.119	2.517	2.184	1.944	1.808
3&4-Methylphenol	1.301	1.636	1.419	1.227	1.136
n-Nitroso-di-n-propylamine	0.713	0.905	0.756	0.672	0.583
Hexachloroethane	0.670	0.697	0.670	0.563	0.492
Nitrobenzene	0.267	0.309	0.281	0.259	0.237
Isophorone	0.524	0.604	0.539	0.493	0.465
2-Nitrophenol	0.220	0.265	0.239	0.220	0.207
2,4-Dimethyphenol	0.293	0.346	0.309	0.275	0.266
Bis(2-chloroethoxy)methane	0.327	0.398	0.341	0.313	0.288
Benzoic acid	0.090	0.124	0.173	0.182	0.188
2,4-Dichlorophenol	0.279	0.340	0.295	0.269	0.245
1,2,4-Trichlorobenzene	0.356	0.372	0.332	0.295	0.271
Naphthalene	1.073	1.144	1.019	0.888	0.804
4-Chloroaniline	0.396	0.483	0.421	0.366	0.323
2,6-Dichlorophenol	0.286	0.325	0.281	0.247	0.223
Hexachlorobutadiene	0.165	0.168	0.159	0.141	0.131
4-Chloro-3-methylphenol	0.262	0.325	0.288	0.271	0.249
2-Methylnaphthalene	0.585	0.693	0.601	0.519	0.472
1-Methylnaphthalene	0.606	0.677	0.586	0.516	0.469
Hexachlorocyclopentadiene	0.148	0.230	0.232	0.268	0.272
2,4,6-Trichlorophenol	0.380	0.477	0.430	0.401	0.382
2,4,5-Trichlorophenol	0.390	0.488	0.452	0.406	0.383
2-Chloronaphthalene	1.318	1.464	1.365	1.234	1.137
2-Nitroaniline	0.268	0.383	0.354	0.334	0.328
Dimethylphthalate	1.506	1.727	1.490	1.419	1.304
Acenaphthylene	2.219	2.391	2.166	1.815	1.710

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF4: A3091612 RF10: A3091613 RF20: A3091614
RF50: A3091615 RF80: A3091616

COMPOUND	RF4	RF10	RF20	RF50	RF80
2,6-Dinitrotoluene	0.326	0.373	0.340	0.304	0.288
3-Nitroaniline	0.345	0.404	0.398	0.383	0.377
Acenaphthene	1.263	1.410	1.285	1.152	1.060
2,4-Dinitrophenol		0.103	0.102	0.152	0.158
4-Nitrophenol	0.145	0.205	0.187	0.197	0.200
Dibenzofuran	1.816	2.042	1.779	1.601	1.475
2,4-Dinitrotoluene	0.422	0.516	0.476	0.459	0.435
2,3,4,5-Tetrachlorophenol	0.574	0.654	0.594	0.563	0.513
2,3,4,6-Tetrachlorophenol					
Diethylphthalate	1.659	1.825	1.640	1.488	1.346
Fluorene	1.459	1.571	1.372	1.159	1.020
4-Chlorophenylphenylether	0.657	0.675	0.604	0.507	0.455
4-Nitroaniline	0.420	0.528	0.476	0.464	0.442
4,6-Dinitro-2-methylphenol	0.079	0.134	0.122	0.130	0.122
Diphenylamine/n-Nitrosodiphe	0.634	0.710	0.613	0.525	0.464
1,2-Diphenylhydrazine/Azoben	0.662	0.769	0.678	0.571	0.567
4-Bromophenylphenylether	0.182	0.209	0.183	0.168	0.154
Hexachlorobenzene	0.192	0.216	0.183	0.167	0.154
Pentachlorophenol	0.064	0.097	0.092	0.105	0.103
Phenanthrene	1.206	1.298	1.170	0.982	0.905
Anthracene	1.320	1.358	1.209	0.960	0.846
Dinoseb	0.098	0.165	0.154	0.146	0.133
Carbazole	1.176	1.305	1.164	1.005	0.914
Di-n-butylphthalate	1.674	1.836	1.582	1.306	1.180
Fluoranthene	1.242	1.344	1.192	1.032	0.946
Benzidine	0.840	0.915	0.987	0.710	0.795
Pyrene	1.459	1.556	1.445	1.270	1.181
3,3'-Dimethylbenzidine	0.851	0.817	0.857	0.572	0.678
Butylbenzylphthalate	0.854	0.948	0.869	0.775	0.729
3,3'-Dichlorobenzidine	0.394	0.427	0.397	0.361	0.336
Benzo(a)anthracene	1.209	1.312	1.194	1.050	0.972
Chrysene	1.168	1.215	1.131	1.026	0.949
Bis(2-ethylhexyl)phthalate	1.186	1.324	1.173	1.080	1.002
Di-n-octylphthalate	1.950	2.212	1.999	1.839	1.704
Benzo(b)fluoranthene	1.238	1.371	1.242	1.266	1.090
Benzo(k)fluoranthene	1.407	1.479	1.407	1.155	1.156
Benzo(a)pyrene	1.187	1.277	1.185	1.104	1.052
Indeno(1,2,3-c,d)pyrene	1.102	1.242	1.185	1.117	1.060

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF4: A3091612 RF10: A3091613 RF20: A3091614
RF50: A3091615 RF80: A3091616

COMPOUND	RF4	RF10	RF20	RF50	RF80
Dibenzo(a,h)anthracene	0.022	1.039	0.975	0.911	0.873
Benzo(g,h,i)perylene	0.960	1.035	0.981	0.940	0.911
2-Fluorophenol	1.192	1.412	1.348	1.304	1.231
Phenol-d5	1.384	1.690	1.472	1.368	1.253
Nitrobenzene-d5	0.285	0.338	0.302	0.294	0.271
2-Fluorobiphenyl	1.392	1.499	1.351	1.200	1.116
2,4,6-Tribromophenol	0.130	0.168	0.152	0.151	0.148
Terphenyl-d14	0.912	0.952	0.866	0.788	0.743

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF100: A3091617 RF120: A3091618 RF160: A3091619

COMPOUND	RF100	RF120	RF160
1,4-Dioxane	0.366	0.351	0.342
n-Nitrosodimethylamine	0.666	0.660	0.641
Pyridine	1.177	1.142	1.090
Phenol	0.990	0.939	0.854
Aniline	1.552	1.463	1.439
Bis(2-chloroethyl)ether	0.774	0.750	0.683
2-Chlorophenol	1.212	1.176	1.071
1,3-Dichlorobenzene	1.361	1.324	1.226
1,4-Dichlorobenzene	1.312	1.284	1.178
Benzyl Alcohol	0.599	0.577	0.568
1,2-Dichlorobenzene	1.049	1.021	0.886
2-Methylphenol	0.840	0.805	0.730
bis(2-Chloroisopropyl)ether	1.674	1.610	1.412
3&4-Methylphenol	1.045	1.028	0.955
n-Nitroso-di-n-propylamine	0.526	0.488	0.412
Hexachloroethane	0.440	0.419	0.375
Nitrobenzene	0.220	0.218	0.204
Isophorone	0.444	0.438	0.426
2-Nitrophenol	0.196	0.190	0.175
2,4-Dimethyphenol	0.251	0.244	0.230
Bis(2-chloroethoxy)methane	0.267	0.261	0.243
Benzoic acid	0.191	0.183	0.170
2,4-Dichlorophenol	0.232	0.229	0.213
1,2,4-Trichlorobenzene	0.256	0.250	0.222
Naphthalene	0.731	0.711	0.638
4-Chloroaniline	0.292	0.280	0.245
2,6-Dichlorophenol	0.211	0.204	0.192
Hexachlorobutadiene	0.124	0.121	0.111
4-Chloro-3-methylphenol	0.229	0.230	0.210
2-Methylnaphthalene	0.431	0.416	0.371
1-Methylnaphthalene	0.422	0.410	0.368
Hexachlorocyclopentadiene	0.256	0.258	0.232
2,4,6-Trichlorophenol	0.355	0.349	0.312
2,4,5-Trichlorophenol	0.358	0.355	0.311
2-Chloronaphthalene	1.034	1.012	0.896
2-Nitroaniline	0.310	0.301	0.277
Dimethylphthalate	1.235	1.230	1.103
Acenaphthylene	1.568	1.528	1.311

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF100: A3091617 RF120: A3091618 RF160: A3091619

COMPOUND	RF100	RF120	RF160
2,6-Dinitrotoluene	0.269	0.270	0.250
3-Nitroaniline	0.365	0.367	0.341
Acenaphthene	0.980	0.951	0.818
2,4-Dinitrophenol	0.169	0.166	0.163
4-Nitrophenol	0.192	0.188	0.176
Dibenzofuran	1.370	1.341	1.184
2,4-Dinitrotoluene	0.416	0.416	0.384
2,3,4,5-Tetrachlorophenol	0.497	0.495	0.446
2,3,4,6-Tetrachlorophenol			
Diethylphthalate	1.217	1.199	1.032
Fluorene	0.914	0.889	0.762
4-Chlorophenylphenylether	0.413	0.408	0.352
4-Nitroaniline	0.436	0.422	0.392
4,6-Dinitro-2-methylphenol	0.111	0.108	0.093
Diphenylamine/n-Nitrosodiphe	0.422	0.404	0.353
1,2-Diphenylhydrazine/Azoben	0.514	0.496	0.426
4-Bromophenylphenylether	0.139	0.143	0.134
Hexachlorobenzene	0.146	0.142	0.134
Pentachlorophenol	0.104	0.100	0.097
Phenanthrene	0.816	0.804	0.723
Anthracene	0.760	0.728	0.637
Dinoseb	0.125	0.123	0.115
Carbazole	0.836	0.803	0.731
Di-n-butylphthalate	1.058	1.002	0.873
Fluoranthene	0.859	0.839	0.768
Benzidine	0.733	0.700	0.648
Pyrene	1.093	1.107	1.033
3,3'-Dimethylbenzidine	0.638	0.623	0.587
Butylbenzylphthalate	0.663	0.644	0.608
3,3'-Dichlorobenzidine	0.316	0.311	0.286
Benzo(a)anthracene	0.920	0.902	0.851
Chrysene	0.869	0.898	0.860
Bis(2-ethylhexyl)phthalate	0.916	0.903	0.816
Di-n-octylphthalate	1.554	1.533	1.418
Benzo(b)fluoranthene	1.127	1.145	1.209
Benzo(k)fluoranthene	1.006	0.953	
Benzo(a)pyrene	0.985	0.987	0.942
Indeno(1,2,3-c,d)pyrene	1.009	0.996	0.967

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

LAB FILE ID: RF100: A3091617 RF120: A3091618 RF160: A3091619

COMPOUND	RF100	RF120	RF160
Dibenzo(a,h)anthracene	0.813	0.813	0.772
Benzo(g,h,i)perylene	0.871	0.858	0.841
2-Fluorophenol	1.183	1.171	1.099
Phenol-d5	1.189	1.148	1.049
Nitrobenzene-d5	0.261	0.256	0.244
2-Fluorobiphenyl	1.018	0.996	0.865
2,4,6-Tribromophenol	0.140	0.138	0.129
Terphenyl-d14	0.705	0.694	0.659

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
1,4-Dioxane	AVRG		0.38070		7.2
n-Nitrosodimethylamine	AVRG		0.70711		7.9
Pyridine	AVRG		1.20270		5.8
Phenol	2ORDR	0.00000000	0.57559	0.1739	1.000
Aniline	AVRG		1.68209		12.8
Bis(2-chloroethyl)ether	2ORDR	0.00000000	0.74188	0.2652	0.999
2-Chlorophenol	2ORDR	0.00000000	0.54713	8.887e-002	1.000
1,3-Dichlorobenzene	AVRG		1.52569		14.3
1,4-Dichlorobenzene	AVRG		1.46465		13.9
Benzyl Alcohol	2ORDR	0.00000000	1.23978	0.2438	0.996
1,2-Dichlorobenzene	2ORDR	0.00000000	0.47774	0.1774	0.998
2-Methylphenol	AVRG		0.91475		14.5
bis(2-Chloroisopropyl)ether	2ORDR	0.00000000	0.33777	6.287e-002	0.998
3&4-Methylphenol	2ORDR	0.00000000	0.66216	0.1019	0.999
n-Nitroso-di-n-propylamine	2ORDR	0.00000000	0.53682	1.0860	0.994
Hexachloroethane	2ORDR	0.00000000	1.03105	1.0869	0.999
Nitrobenzene	AVRG		0.24942		14.3
Isophorone	AVRG		0.49141		12.4
2-Nitrophenol	AVRG		0.21397		13.4
2,4-Dimethyphenol	AVRG		0.27696		13.8
Bis(2-chloroethoxy)methane	2ORDR	0.00000000	2.63628	1.5331	1.000
Benzoic acid	LINR	0.00000000	5.57223		0.993
2,4-Dichlorophenol	2ORDR	0.00000000	3.20976	1.7429	1.000
1,2,4-Trichlorobenzene	2ORDR	0.00000000	2.50744	2.1757	0.999
Naphthalene	2ORDR	0.00000000	0.78032	0.3052	0.999
4-Chloroaniline	2ORDR	0.00000000	1.56134	2.5044	0.999
2,6-Dichlorophenol	2ORDR	0.00000000	3.39322	2.3989	1.000
Hexachlorobutadiene	2ORDR	0.00000000	5.74131	7.2463	1.000
4-Chloro-3-methylphenol	AVRG		0.25810		14.4
2-Methylnaphthalene	2ORDR	0.00000000	1.28699	0.9309	0.999
1-Methylnaphthalene	2ORDR	0.00000000	1.31626	0.9418	0.999
Hexachlorocyclopentadiene	LINR	0.00000000	4.01887		0.990
2,4,6-Trichlorophenol	AVRG		0.38589		13.2
2,4,5-Trichlorophenol	AVRG		0.39288		14.3
2-Chloronaphthalene	2ORDR	0.00000000	0.56518	0.1490	0.999
2-Nitroaniline	AVRG		0.31953		12.1
Dimethylphthalate	AVRG		1.37690		14.4
Acenaphthylene	2ORDR	0.00000000	0.34224	7.554e-002	0.996

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
2,6-Dinitrotoluene	AVRG		0.30236		13.8
3-Nitroaniline	AVRG		0.37265		6.1
Acenaphthene	2ORDR	0.00000000	0.55119	0.1936	0.997
2,4-Dinitrophenol	2ORDR	0.00000000	6.42222	-0.585	0.997
4-Nitrophenol	AVRG		0.18636		10.1
Dibenzofuran	2ORDR	0.00000000	0.44590	8.109e-002	0.999
2,4-Dinitrotoluene	AVRG		0.44065		9.4
2,3,4,5-Tetrachlorophenol	AVRG		0.54217		12.3
2,3,4,6-Tetrachlorophenol	AVRG				
Diethylphthalate	2ORDR	0.00000000	0.42557	0.1252	0.997
Fluorene	2ORDR	0.00000000	0.45825	0.2696	0.997
4-Chlorophenylphenylether	2ORDR	0.00000000	1.23928	1.0904	0.997
4-Nitroaniline	AVRG		0.44745		9.4
4,6-Dinitro-2-methylphenol	2ORDR	0.00000000	5.12015	14.111	0.996
Diphenylamine/n-Nitrosodiphe	2ORDR	0.00000000	1.07921	1.2103	0.999
1,2-Diphenylhydrazine/Azoben	2ORDR	0.00000000	1.05891	0.7070	0.995
4-Bromophenylphenylether	2ORDR	0.00000000	5.38051	3.9561	0.998
Hexachlorobenzene	2ORDR	0.00000000	5.17377	4.3033	1.000
Pentachlorophenol	2ORDR	0.00000000	9.10862	2.8408	0.999
Phenanthrene	2ORDR	0.00000000	0.72761	0.2244	0.999
Anthracene	2ORDR	0.00000000	0.54988	0.3928	0.999
Dinoseb	2ORDR	0.00000000	5.89638	6.1596	1.000
Carbazole	2ORDR	0.00000000	0.70273	0.2273	1.000
Di-n-butylphthalate	2ORDR	0.00000000	0.38975	0.2102	0.998
Fluoranthene	2ORDR	0.00000000	0.72614	0.1880	0.999
Benzidine	AVRG		0.79124		14.7
Pyrene	2ORDR	0.00000000	0.69536	6.645e-002	0.999
3,3'-Dimethylbenzidine	2ORDR	0.00000000	1.33388	0.1516	0.995
Butylbenzylphthalate	2ORDR	0.00000000	1.06205	0.2441	0.999
3,3'-Dichlorobenzidine	AVRG		0.35364		14.0
Benzo(a)anthracene	2ORDR	0.00000000	0.82723	0.1038	1.000
Chrysene	2ORDR	0.00000000	0.93572	6.823e-002	0.998
Bis(2-ethylhexyl)phthalate	2ORDR	0.00000000	0.70836	0.1558	0.999
Di-n-octylphthalate	2ORDR	0.00000000	0.44294	4.641e-002	0.999
Benzo(b)fluoranthene	AVRG		1.21111		7.4
Benzo(k)fluoranthene	2ORDR	0.00000000	0.58988	0.1531	0.994
Benzo(a)pyrene	AVRG		1.08975		10.9
Indeno(1,2,3-c,d)pyrene	AVRG		1.08470		8.8

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date(s): 09/16/03 09/16/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1559 1916

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Dibenzo(a,h)anthracene	2ORDR	0.00000000	0.99481	9.858e-002	0.999
Benzo(g,h,i)perylene	AVRG		0.92463		7.3
2-Fluorophenol	AVRG		1.24246		8.4
Phenol-d5	2ORDR	0.00000000	0.57690	8.841e-002	1.000
Nitrobenzene-d5	AVRG		0.28132		10.7
2-Fluorobiphenyl	2ORDR	0.00000000	0.54616	0.1680	0.998
2,4,6-Tribromophenol	LINR	0.00000000	7.31192		0.992
Terphenyl-d14	AVRG		0.78978		13.8

FORM VI SV

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date: 10/09/03 Time: 0954

Lab File ID: A3100902 Init. Calib. Date(s): 09/16/03 09/16/03

Init. Calib. Times: 1559 1916

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL50 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
1,4-Dioxane	0.380		0.379		0.3	40.0	AVRG
n-Nitrosodimethylamine	0.707		0.783		10.7	40.0	AVRG
Pyridine	1.203		1.152		4.2	40.0	AVRG
Phenol	50	50	1.204		0.0	20.0	2ORDR
Aniline	1.682		1.568		6.8	40.0	AVRG
Bis(2-chloroethyl)ether	50	51	0.964		2.0	40.0	2ORDR
2-Chlorophenol	50	48	1.370		4.0	40.0	2ORDR
1,3-Dichlorobenzene	1.526		1.549		1.5	40.0	AVRG
1,4-Dichlorobenzene	1.465		1.498		2.2	20.0	AVRG
Benzyl Alcohol	50	51	0.705		2.0		2ORDR
1,2-Dichlorobenzene	50	52	1.337		4.0	40.0	2ORDR
2-Methylphenol	0.914		0.888		2.8	40.0	AVRG
bis(2-Chloroisopropyl)ether	50	50	2.002		0.0	40.0	2ORDR
3&4-Methylphenol	50	52	1.256		4.0	40.0	2ORDR
n-Nitroso-di-n-propylamine	50	47	0.658	0.05	6.0	40.0	2ORDR
Hexachloroethane	50	56	0.605		12.0	40.0	2ORDR
Nitrobenzene	0.249		0.258		3.6	40.0	AVRG
Isophorone	0.492		0.480		2.4	40.0	AVRG
2-Nitrophenol	0.214		0.212		0.9	20.0	AVRG
2,4-Dimethyphenol	0.277		0.272		1.8	40.0	AVRG
Bis(2-chloroethoxy)methane	50	51	0.315		2.0	40.0	2ORDR
Benzoic acid	50	50	0.179		0.0		LINR
2,4-Dichlorophenol	50	51	0.270		2.0	20.0	2ORDR
1,2,4-Trichlorobenzene	50	49	0.294		2.0	40.0	2ORDR
Naphthalene	50	51	0.901		2.0	40.0	2ORDR
4-Chloroaniline	50	52	0.380		4.0	40.0	2ORDR
2,6-Dichlorophenol	50	51	0.248		2.0	40.0	2ORDR
Hexachlorobutadiene	50	50	0.141		0.0	20.0	2ORDR
4-Chloro-3-methylphenol	0.258		0.268		3.9	20.0	AVRG
2-Methylnaphthalene	50	50	0.524		0.0	40.0	2ORDR
1-Methylnaphthalene	50	48	0.506		4.0	40.0	2ORDR
Hexachlorocyclopentadiene	50	52	0.258	0.05	4.0		LINR
2,4,6-Trichlorophenol	0.386		0.402		4.1	20.0	AVRG
2,4,5-Trichlorophenol	0.393		0.427		8.6	40.0	AVRG
2-Chloronaphthalene	50	48	1.207		4.0	40.0	2ORDR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date: 10/09/03 Time: 0954

Lab File ID: A3100902 Init. Calib. Date(s): 09/16/03 09/16/03

Init. Calib. Times: 1559 1916

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL50 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
2-Nitroaniline	0.319		0.334		4.7	40.0	AVRG
Dimethylphthalate	1.377		1.378		0.1	40.0	AVRG
Acenaphthylene	50	51	1.936		2.0	40.0	2ORDR
2,6-Dinitrotoluene	0.302		0.318		5.3	40.0	AVRG
3-Nitroaniline	0.372		0.373		0.3	40.0	AVRG
Acenaphthene	50	47	1.132		6.0	20.0	2ORDR
2,4-Dinitrophenol	50	56	0.179	0.05	12.0		2ORDR
4-Nitrophenol	0.186		0.206	0.05	10.8	40.0	AVRG
Dibenzofuran	50	48	1.575		4.0	40.0	2ORDR
2,4-Dinitrotoluene	0.440		0.443		0.7	40.0	AVRG
2,3,4,5-Tetrachlorophenol	0.542		0.555		2.4	40.0	AVRG
2,3,4,6-Tetrachlorophenol			0.555			40.0	AVRG
Diethylphthalate	50	47	1.450		6.0	40.0	2ORDR
Fluorene	50	50	1.180		0.0	40.0	2ORDR
4-Chlorophenylphenylether	50	51	0.523		2.0	40.0	2ORDR
4-Nitroaniline	0.448		0.431		3.8	40.0	AVRG
4,6-Dinitro-2-methylphenol	50	49	0.132		2.0	40.0	2ORDR
Diphenylamine/n-Nitrosodiphe	50	48	0.513		4.0	20.0	2ORDR
1,2-Diphenylhydrazine/Azoben	50	47	0.597		6.0	40.0	2ORDR
4-Bromophenylphenylether	50	52	0.166		4.0	40.0	2ORDR
Hexachlorobenzene	50	50	0.165		0.0	40.0	2ORDR
Pentachlorophenol	50	52	0.109		4.0	20.0	2ORDR
Phenanthrene	50	51	1.006		2.0	40.0	2ORDR
Anthracene	50	51	0.992		2.0	40.0	2ORDR
Dinoseb	50	56	0.159		12.0		2ORDR
Carbazole	50	48	0.987		4.0	40.0	2ORDR
Di-n-butylphthalate	50	50	1.341		0.0	40.0	2ORDR
Fluoranthene	50	49	1.016		2.0	20.0	2ORDR
Benzidine	0.791		0.575		27.3		AVRG
Pyrene	50	51	1.275		2.0	40.0	2ORDR
3,3'-Dimethylbenzidine	50	32	0.457		36.0		2ORDR
Butylbenzylphthalate	50	51	0.787		2.0	40.0	2ORDR
3,3'-Dichlorobenzidine	0.354		0.359		1.4	40.0	AVRG
Benzo(a)anthracene	50	50	1.048		0.0	40.0	2ORDR
Chrysene	50	53	1.031		6.0	40.0	2ORDR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSMA5973 Calibration Date: 10/09/03 Time: 0954

Lab File ID: A3100902 Init. Calib. Date(s): 09/16/03 09/16/03

Init. Calib. Times: 1559 1916

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL50 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Bis(2-ethylhexyl)phthalate	50	52	1.123		4.0	40.0	2ORDR
Di-n-octylphthalate	50	51	1.849		2.0	20.0	2ORDR
Benzo(b)fluoranthene	1.211		1.101		9.1	40.0	AVRG
Benzo(k)fluoranthene	50	52	1.262		4.0	40.0	2ORDR
Benzo(a)pyrene	1.090		1.064		2.4	20.0	AVRG
Indeno(1,2,3-c,d)pyrene	1.085		1.100		1.4	40.0	AVRG
Dibenzo(a,h)anthracene	50	50	0.911		0.0	40.0	2ORDR
Benzo(g,h,i)perylene	0.925		0.942		1.8	40.0	AVRG
2-Fluorophenol	1.242		1.245		0.2	40.0	AVRG
Phenol-d5	50	48	1.333		4.0	40.0	2ORDR
Nitrobenzene-d5	0.281		0.292		3.9	40.0	AVRG
2-Fluorobiphenyl	50	47	1.183		6.0	40.0	2ORDR
2,4,6-Tribromophenol	50	53	0.145		6.0	40.0	LINR
Terphenyl-d14	0.790		0.798		1.0	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): A3100902 Date Analyzed: 10/09/03

Instrument ID: TSMA5973 Time Analyzed: 0954

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	297759	5.50	1117482	6.70	523084	8.20
	UPPER LIMIT	595518	6.00	2234964	7.20	1046168	8.70
	LOWER LIMIT	148880	5.00	558741	6.20	261542	7.70
	CLIENT SAMPLE NO.						
01	74380-1	196537	5.50	587380	6.70	298834	8.21
02	SM100603HLB	262790	5.50	988346	6.69	453969	8.20
03	SM100603HLBL	236467	5.50	901389	6.70	425348	8.20
04	SM100603HLBL	225895	5.49	870231	6.70	412292	8.20
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): A3100902 Date Analyzed: 10/09/03

Instrument ID: TSMA5973 Time Analyzed: 0954

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	926743	9.41	720522	11.84	602836	13.42
	UPPER LIMIT	1853486	9.91	1441044	12.34	1205672	13.92
	LOWER LIMIT	463372	8.91	360261	11.34	301418	12.92
	CLIENT SAMPLE NO.						
01	74380-1	474643	9.41	410899	11.84	352997	13.42
02	SM100603HLB	715707	9.41	501091	11.84	383486	13.42
03	SM100603HLBL	682525	9.41	502879	11.84	383973	13.42
04	SM100603HLBL	640921	9.40	453520	11.83	365428	13.42
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

0139

EXTRACTION LOG

No: 472 . 12
h No: SM100603 H
Extracted: 10.06.03
Time: 1pm
Time: 1pm
ysis Required: 8270
Method: 3550
yst/Activity Code* BE, DK, EK DJH, BM, LS / A, B, D
l Project Check: BE
Project Check: BE
Concentrated: 10-7-3
ls: BE
ct Box ID:

ID	Lot #	Amt (ml)	Init
8270	7.3.6.1	1.0	DK
BNA	7.3.4.13 *	DK 10-7-03 ~~0.5~~	DK
BNA	7.3.4.13	1.0	DK

n Up: Yes No

ments

ent(s) Lot No:
$MeCl_2$/ACE:
N.428.0039.1
SO_4 POWD: X44144
SO_4 GRAN: Y31626
Cl_2: Y17634

e inside front cover of logbook
definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T374361*20/HM-A2-Comp*		SS	30.0			1.0	10.10	10.16	
2. T374361*21/HM-A3-Comp*		SS					10.10	10.16	
3. T374361*22/HM-A1-Comp*		SS					10.10	10.16	
4. T374361*23/HM-A4-Comp*		SS					10.10	10.16	
5. T374380*1/086-EWG-S-1002-03	NJTC03	SS					10.09	10.16	R
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			1.0			
Lab Spike #1		SS	30.0						*7.0 mL of Spike added
Lab Spike #2		SS	30.0						
LCS #3		SS	30.0						
LCS #4		SS	30.0						
MS:		SS							
MSD:		SS							

AN 10-08-03

Dets: Base Neutral/Acid Extractables [C0701] <8270> | TCL - Semivolatiles <8270>

+ Additional Dets:

ANALYSIS LOG(S)

Client SDG: JETC03 Sample Fraction: SV

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
2537092	2A30916.b	A3091611.D	DFTPP	TUNE50	TUNE50	2537091		
2537092	2A30916.b	A3091612.D	CALIB_1	BNA004	BNA004	14385584	3.5.50.2	
2537092	2A30916.b	A3091613.D	CALIB_2	BNA010	BNA010	14385585	3.5.50.3	
2537092	2A30916.b	A3091614.D	CALIB_3	BNA020	BNA020	14385586	3.5.50.4	
2537092	2A30916.b	A3091615.D	CALIB_4	BNA050	BNA050	14385587	3.5.50.5	
2537092	2A30916.b	A3091616.D	CALIB_5	BNA080	BNA080	14385588	3.5.51.1	
2537092	2A30916.b	A3091617.D	CALIB_6	BNA100	BNA100	14385589	3.5.51.2	
2537092	2A30916.b	A3091618.D	CALIB_7	BNA120	BNA120	14385590	3.5.51.3	
2537092	2A30916.b	A3091619.D	CALIB_8	BNA160	BNA160	14385567	3.5.51.4	
14386086	1A31009.b	A3100901.D	DFTPP	TUNE50	TUNE50	14386085		
14386086	1A31009.b	A3100902.D	CCALIB_4	BNA050	BNA050	14386138	3.5.50.5	
14386086	1A31009.b	A3100905.D	BLANK	SM100603HLB	SM100603HLB	3161510	SM100603H	
14386086	1A31009.b	A3100906.D	LCS	SM100603HLBLCS	SM100603HLBLCS	3161511	SM100603H	
14386086	1A31009.b	A3100907.D	LCSD	SM100603HLBLCSD	SM100603HLBLCSD	3161521	SM100603H	
14386086	1A31009.b	A3100904.D	SAMPLE	74380-1	086-EWC-S-1002-0	3161499	SM100603H	JETC03

Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	A3091600	BNA9	RINSE
2	Sample	96	A3091601	TUN1	TUNE050~3.5.35.9~1~8270/625
3	Sample	97	A3091603	BNA9	BNA050~3.5.50.2~1~8270/625
4	Sample	98	A3091604	BNA9	BNA010~3.5.50.2~1~8270/625
5	Sample	100	A3091605	BNA9	RINSE
6	Sample	100	A3091606	BNA9	RINSE
7	Sample	100	A3091607	BNA9	RINSE
8	Sample	97	A3091608	BNA9	BNA050~3.5.50.2~1~8270/625
9	Sample	100	A3091609	BNA9	RINSE
10	Sample	97	A3091610	BNA9	BNA080~3.5.51.1~1~8270/625
11	Sample	96	A3091611	TUN1	TUNE050~3.5.35.9~1~8270/625
12	Sample	1	A3091612	BNA9	BNA004~3.5.50.2~1~8270/625
13	Sample	2	A3091613	BNA9	BNA010~3.5.50.3~1~8270/625
14	Sample	3	A3091614	BNA9	BNA020~3.5.50.4~1~8270/625
15	Sample	4	A3091615	BNA9	BNA050~3.5.50.5~1~8270/625
16	Sample	5	A3091616	BNA9	BNA080~3.5.51.1~1~8270/625
17	Sample	6	A3091617	BNA9	BNA100~3.5.51.2~1~8270/625
18	Sample	7	A3091618	BNA9	BNA120~3.5.51.3~1~8270/625
19	Sample	8	A3091619	BNA9	BNA160~3.5.51.4~1~8270/625
20	Sample	9	A3091620	BNA9	SM091003ALBLCS~SM091003A~1~82
21	Sample	10	A3091621	BNA9	SM091003ALBLCSD~SM091003A~1~8
22	Sample	11	A3091622	BNA9	SM091603ILB~SM091603I~1~8270/
23	Sample	12	A3091623	BNA9	SM091603ILBLCS~SM091603I~1~82
24	Sample	13	A3091624	BNA9	SM091603ILBLCSD~SM091603I~1~8
25	Sample	14	A3091625	BNA9	73964-1~SM091603I~1~8270/625
26	Sample	15	A3091626	BNA9	73964-1~SM091603I~1~8270/625-
27	Sample	16	A3091627	BNA9	73964-1~SM091603I~1~8270/625-
28	Sample	17	A3091628	BNA9	73461-1~SM091003A~1~8270/625~
29	Sample	18	A3091629	BNA9	73461-1~SM091003A~1~8270/625~

SBF 9/17/03

Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	A3100900	BNA9	RINSE~1~8270/625
2	Sample	96	A3100901	TUNE	TUNE050~3.5.35.9~1~8270/625
3	Sample	97	A3100902	BNA9	BNA050~3.5.50.5~1~8270/625
4	Sample	98	A3100903	BNA9	BNA010~3.5.56.4~1~8270/625
5	Sample	1	A3100904	BNA9	74380-1~SM100603H~1~8270
6	Sample	2	A3100905	BNA9	SM100603HLB~SM100603H~1~8270
7	Sample	3	A3100906	BNA9	SM100603HLBLCS~SM100603H~1~827
8	Sample	4	A3100907	BNA9	SM100603HLBLCSD~SM100603H~1~8
9	Sample	5	A3100908	BNA9	SM100603HLBLCSD~SM100603H~1~8
10	Sample	6	A3100909	BNA9	SM100603HLBLCSD~SM100603H~1~8
11	Sample	7	A3100910	BNA9	74361-20~SM100603H~1~8270
12	Sample	8	A3100911	BNA9	74361-21~SM100603H~1~8270
13	Sample	9	A3100912	BNA9	74361-22~SM100603H~1~8270
14	Sample	10	A3100913	BNA9	74361-23~SM100603H~1~8270
15	Sample	11	A3100914	BNA9	74361-20~SM100603H~1~8270-MS
16	Sample	12	A3100915	BNA9	74361-20~SM100603H~1~8270-MSD
17	Sample	13	A3100916	BNA9	74298-3~SM100103A~1~8270-MS
18	Sample	14	A3100917	BNA9	74298-3~SM100103A~1~8270-MSD
19	Sample	15	A3100918	BNA9	SM100603ALB~SM100603A~1~8270
20	Sample	16	A3100919	BNA9	SM100603ALBLCS~SM100603A~1~82
21	Sample	17	A3100920	BNA9	SM100603ALBLCSD~SM100603A~1~8
22	Sample	18	A3100921	BNA9	74386-1~SM100603A~1~8270
23	Sample	19	A3100922	BNA9	74361-1~SM100603A~1~8270
24	Sample	20	A3100923	BNA9	74361-2~SM100603A~1~8270
25	Sample	21	A3100924	BNA9	74361-3~SM100603A~1~8270
26	Sample	22	A3100925	BNA9	SM100603ALBMS~SM100603A~1~827
27	Sample	23	A3100926	BNA9	SM100603ALBMSD~SM100603A~1~82

10.10.03

PETROLEUM RANGE ORGANICS

Method FL-PRO

CASE NARRATIVE

CASE NARRATIVE
GC PETROLEUM RANGE ORGANICS

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: FL-PRO
Cleanup: N/A
Analysis: FL-PRO

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: The surrogates were not recovered due to a sample dilution that was required prior to analysis.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: [signature] DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

FL PRO ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 30 (g/mL) G Lab File ID: 1J09H13

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: 12 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 40.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	6200	

FORM I FL PRO

FL PRO ORGANICS ANALYSIS DATA SHEET

1006IMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006IMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1J09H15

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5------	FLPROTPH	10	U

FORM I FL PRO

FL PRO ORGANICS ANALYSIS DATA SHEET

1006ILCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006ILCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 1J09H16

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 2 (mL) Date Analyzed: 10/09/03

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	77	

FORM I FL PRO

FL PRO ORGANICS ANALYSIS DATA SHEET

1006ILCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006ILCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 1J09H17

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
68334-30-5	FLPROTPH	74	

FORM I FL PRO

SOIL FL PRO SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (OTP) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	74380-1	0D	0D							0
02	1006IMB	84	67							0
03	1006ILCS	92	86							0
04	1006ILCSD	85	78							0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
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27										
28										
29										
30										

		QC LIMITS
S1 (OTP)	= o-Terphenyl	(15-154)
S2	= C39	(30-118)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

SOIL FL PRO LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix Spike - Sample No.: 1006ILCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (mg/Kg)	LCS % REC#	QC. LIMITS REC.
FLPROTPH	91		77	85	26-116

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONC (mg/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
FLPROTPH	91	74	81	83	4.0	25	26-116

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III FL PRO

FL PRO METHOD BLANK SUMMARY

1006IMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID: 1J09H15 Lab Sample ID: 1006IMB

Instrument ID: TSGHFID1 Date Extracted: 10/06/03

Matrix: (soil/water) SOIL Date Analyzed: 10/09/03

Level: (low/med) LOW Time Analyzed: 1105

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	74380-1	086-EWC-S-1002	1J09H13	10/09/03
02	1006ILCS	1006ILCS	1J09H16	10/09/03
03	1006ILCSD	1006ILCSD	1J09H17	10/09/03
04				
05				
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COMMENTS:

FORM IV FL PRO

FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGHFID1 Calibration Date(s): 09/29/03 09/29/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 1744 1833

LAB FILE ID: RF0.136: 1I29H43 RF0.425: 1I29H44 RF0.85: 1I29H45
RF1.275: 1I29H46 RF2.55: 1I29H47

COMPOUND	RF0.136	RF0.425	RF0.85	RF1.275	RF2.55
FLPROTPH	4144853		3312836	3169260	3226419
o-Terphenyl	3552310		3547900	3605210	3592420
C39	3159810		3193410	3159650	3154200

FORM VI FL PRO

FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGHFID1 Calibration Date(s): 09/29/03 09/29/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 1744 1833

RF5.1: 1I29H48

COMPOUND	RF5.1	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
FLPROTPH	3166758	LINR	0.00000000	3.143e-007	1.000
o-Terphenyl	3603540	AVRG		3580276	0.8
C39	3183910	AVRG		3170196	0.5

FORM VI FL PRO

FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGHFID1 Calibration Date: 10/09/03 Time: 0907

Lab File ID: 1J09H4 Init. Calib. Date(s): 09/29/03 09/29/03

Init. Calib. Times: 1744 1833

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	1.275 AMOUNT	CURVE	%D	MAX %d
FLPROTPH	1.3	1.3	LINR	0.0	25.0
o-Terphenyl	0.10	0.10	AVRG	0.0	25.0
C39	0.097	0.10	AVRG	3.0	25.0

FORM VII FL PRO

FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Instrument ID: TSGHFID1 Calibration Date: 10/09/03 Time: 1153

Lab File ID: 1J09H20 Init. Calib. Date(s): 09/29/03 09/29/03

Init. Calib. Times: 1744 1833

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	1.275 AMOUNT	CURVE	%D	MAX %d
FLPROTPH	1.3	1.3	LINR	0.0	25.0
o-Terphenyl	0.10	0.10	AVRG	0.0	25.0
C39	0.097	0.10	AVRG	3.0	25.0

FORM VII FL PRO

FL PRO ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column: RTX-5 ID: 0.25 (mm) Init. Calib. Date(s): 09/29/03 09/29/03

Instrument ID: TSGHFID1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S2 RT
01	2-9-1	FPRO1 13.7	09/29/03	1744	0.96	3.54
02	2-9-1	FPRO3 13.9	09/29/03	1804	0.96	3.54
03	2-9-1	FPRO4 13.10	09/29/03	1814	0.96	3.56
04	2-9-1	FPRO5 14.1	09/29/03	1823	0.96	3.55
05	2-9-1	FPRO6 14.2	09/29/03	1833	0.96	3.55
06		FPRO4-13.10	10/09/03	0907	0.96	3.58
07	74380-1	086-EWC-S-10	10/09/03	1045	0.96	3.55
08	1006IMB	1006IMB	10/09/03	1105	0.96	3.56
09	1006ILCS	1006ILCS	10/09/03	1115	0.96	3.57
10	1006ILCSD	1006ILCSD	10/09/03	1124	0.96	3.56
11		FPRO4-13.10	10/09/03	1153	0.96	3.55
12						
13						
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		QC LIMITS
S1	= o-Terphenyl	(+/- 0.02 MINUTES)
S2	= C39	(+/- 0.07 MINUTES)

FORM VIII FL PRO

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 473 10
Batch No: SG100603 I
Date Extracted: 10.06.03
Start Time: 1 pm
Stop Time: 7 pm
Analysis Required: FL PRO
Prep Method: 3550
Analyst/Activity Code* /A,B,S,D
Initial Project Check: BE
Final Project Check: AN
Date Concentrated: 10-08-03
Initials: EK
Extract Box ID:

	ID	Lot #	Amt (ml)	Init.
Surr.	FLPRO	6,3,73,11	2.0	DK
Surr.				
Spike	FLPRO	6,3,73,6	2.0	DK
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:
$MeCl_2$: Y17E34
Na_2SO_4 POWD: X44144
Na_2SO_4 GRAN: Y31626
Si Gel: Y3126324
CS_2: T25426

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D	H.D	COMMENTS
1. T374361*20/HM-A2-Comp*		SS	30.0			2.0	10.10	10.16	
2. T374361*21/HM-A3-Comp*		SS				2.0	10.10	10.16	
3. T374361*22/HM-A1-Comp*		SS				2.0	10.10	10.16	
4. T374361*23/HM-A4-Comp*		SS				2.0	10.10	10.16	
5. T374380*1/086-EWC-S-1002-03*	JETC03	SS				2.0	10.09	10.16	RI
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			2.0			
Lab Spike #1		SS	30.0			2.0			
Lab Spike #2		SS	30.0			2.0			
MS:		SS				2.0			
MSD:		SS				2.0			

AN 10-08-03

Dets: Petroleum Range Organics <FL-PRO>

+ Additional Dets:

0212

ANALYSIS LOG(S)

Client SDG: JETC03 Sample Fraction: FL PRO

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4405397	4H0929.b	1I29H43.d	CALIB_1	2-9-1	FPRO1 13.7	4112718		
4405397	4H0929.b	1I29H45.d	CALIB_3	2-9-1	FPRO3 13.9	4112719		
4405397	4H0929.b	1I29H46.d	CALIB_4	2-9-1	FPRO4 13.10	4112720		
4405397	4H0929.b	1I29H47.d	CALIB_5	2-9-1	FPRO5 14.1	4112721		
4405397	4H0929.b	1I29H48.d	CALIB_6	2-9-1	FPRO6 14.2	4112722		
4112548	1H1009.b	1J09H4.d	CCALIB_4		FPRO4-13.10	4112572		
4112548	1H1009.b	1J09H20.d	CCALIB_4		FPRO4-13.10	4112689		
4112548	1H1009.b	1J09H15.d	BLANK	1006IMB	1006IMB	4112685	SG100603I	JETC03
4112548	1H1009.b	1J09H16.d	LCS	1006ILCS	1006ILCS	4112686	SG100603I	JETC03
4112548	1H1009.b	1J09H17.d	LCSD	1006ILCSD	1006ILCSD	4112687	SG100603I	JETC03
4112548	1H1009.b	1J09H13.d	SAMPLE	74380-1	086-EWC-S-1002-0	4112599	SG100603I	JETC03

SEQUENCE FILE: 1J09H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
3	PQL-13.7~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
4	FPRO4-13.10~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
5	FRINSE ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
6	74361-21~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
7	74361-22~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
8	74361-23~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
9	74361-20~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
10	74361-20~1H1009~MS	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
11	74361-20~1H1009~MD	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
12	7RINSE ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
13	74380-1 ~1H1009	EZFL	1J09H	1.0000	1.0000	40.0000	1.0000
14	7RINSE ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
15	1006IMB ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
16	1006ILCS ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
17	1006ILCSD ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
18	1RINSE ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
19	1RINSE ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
20	FPRO4-13.10~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
21	74361-20~1H1009~MD	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
22	74361-20~1H1009~MS	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000
23	7RINSE ~1H1009	EZFL	1J09H	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 1I29H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
3	PQL-1 13.7~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
4	FPRO4-13.10~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
5	FRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
6	FPRO4-13.10~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
7	FRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
8	FPRO6-14.2 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
9	FPRO5-14.1 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
10	FPRO4-13.10~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
11	FPRO3-13.9 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
12	FPRO2-13.8 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
13	FPRO1-13.7 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
14	FPRO5-14.1 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
15	FPRO1-13.7 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
16	FPRO2-13.8 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
17	FRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
18	CHKSTD-14.3~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
19	CRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
20	CHKSTD-14.3~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
21	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
22	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
23	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
24	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
25	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
26	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
27	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
28	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
29	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
30	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
31	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
32	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
33	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
34	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
35	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
36	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
37	FPRO6-14.2 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
38	FPRO5-14.1 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
39	FPRO4-13.10~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
40	FPRO3-13.9 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
41	FPRO2-13.8 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
42	FRINSE ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
43	FPRO1 13.7 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
44	FPRO2 13.8 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
45	FPRO3 13.9 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
46	FPRO4 13.10~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
47	FPRO5 14.1 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
48	FPRO6 14.2 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
49	INST BLK ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
50	CHKSTD 14.3~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000

POLYCHLORINATED BIPHENYLS
Method 8082

CASE NARRATIVE

CASE NARRATIVE
GC POLYCHLORINATED BIPHENYLS

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8082

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

FORMS

0220

PEST-PCB ORGANICS ANALYSIS DATA SHEET

74380-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 086-EWC-S-1002-03

Sample wt/vol: 30 (g/mL) G Lab File ID: 1J08D10

Level: (low/med) LOW Date Received: 10/03/03

% Moisture: 12 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1006KMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006KMB

Sample wt/vol: 30 (g/mL) G Lab File ID: 1J08D5

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1006KMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006KMBLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: 2J08D6

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	120	
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	130	

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1006KMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006KMBLCSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 2J08D7

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	110	
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	120	

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1006KMS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006KMS

Sample wt/vol: 30 (g/mL) G Lab File ID: 2J08D8

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:10/06/03

Concentrated Extract Volume: 10(mL) Date Analyzed: 10/08/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	73	
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	96	

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1006KMSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix: (soil/water) SOIL Lab Sample ID: 1006KMSD

Sample wt/vol: 30 (g/mL) G Lab File ID: 2J08D9

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 10/06/03

Concentrated Extract Volume: 10 (mL) Date Analyzed: 10/08/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	83	
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	130	

FORM I PEST-PCB

SOIL PEST-PCB SURROGATE RECOVERY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

GC Column(1): DB-5 ID: 0.53 (mm) GC Column(2): DB-17 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 #	S1 2 #	S2 1 #	S2 2 #	S3 1 #	S3 2 #	S4 1 #	S4 2 #	TOT OUT
01	1006KMB	58	54	82	85	52	18*			1
02	1006KMBLCS	61	61	82	88	52	45			0
03	1006KMBLCSD	58	58	79	82	48	42			0
04	1006KMS	30	30	52	54	39	33			0
05	1006KMSD	39	36	45	42	42	39			0
06	74380-1	53	55	37	42	50	20*			1
07										
08										
09										
10										
11										
12										
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29										
30										

		QC LIMITS
S1	= Tetrachloro-m-xylene (	(30-150)
S2	= Decachlorobiphenyl (#)	(30-150)
S3	= Dibutylchlorendate (#)	(30-150)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

SOIL PEST-PCB LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix Spike - Sample No.: 1006KMBLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/kg)	LCS % REC#	QC. LIMITS REC.
Aroclor-1016	170		120	70	34-138
Aroclor-1260	170		130	76	39-138

COMPOUND	SPIKE ADDED (ug/kg)	LCSD CONC (ug/kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	170	110	65	68	8.7	44	34-138
Aroclor-1260	170	120	70	73	8.0	30	39-138

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PEST-PCB

SOIL PEST-PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Matrix Spike - Sample No.: 1006K Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONC (ug/Kg)	MS CONC (ug/kg)	MS % REC#	QC. LIMITS REC.
Aroclor-1016	170		73	43	34-138
Aroclor-1260	170		96	56	39-138

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONC (ug/kg)	MSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	170	83	49	46	13	44	34-138
Aroclor-1260	170	130	76	66	30	30	39-138

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PEST-PCB

PEST-PCB METHOD BLANK SUMMARY

1006KMB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Lab File ID: 1J08D5 Lab Sample ID: 1006KMB

Instrument ID: TSGDECD1 Matrix: (soil/water) SOIL

Level:(low/med) LOW Date Extracted: 10/06/03

Date Analyzed (1): 10/08/03 Date Analyzed (2): 10/08/03

Time Analyzed (1): 1236 Time Analyzed (2): 1236

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	1006KMBLCS	1006KMBLCS	1J08D6	10/08/03	10/08/03
02	1006KMBLCSD	1006KMBLCSD	1J08D7	10/08/03	10/08/03
03	1006KMS	1006KMS	1J08D8	10/08/03	10/08/03
04	1006KMSD	1006KMSD	1J08D9	10/08/03	10/08/03
05	74380-1	086-EWC-S-1002	1J08D10	10/08/03	10/08/03
06					
07					
08					
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26					

COMMENTS:

FORM IV PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/23/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 2322 0131

LAB FILE ID: RF0.002: 1I23D25 RF0.02: 1I23D26 RF0.04: 1I23D27
RF0.05: 1I23D28 RF0.06: 1I23D29

COMPOUND	RF0.002	RF0.02	RF0.04	RF0.05	RF0.06
Aroclor-1016	0.010	0.007	0.006	0.006	0.006
(2)	0.012	0.009	0.007	0.008	0.007
(3)	0.005	0.004	0.003	0.004	0.003
(4)	0.012	0.009	0.006	0.007	0.006
(5)	0.006	0.005	0.004	0.004	0.003
Aroclor-1260	0.094	0.070	0.058	0.059	0.057
(2)	0.060	0.044	0.036	0.037	0.035
(3)	0.086	0.066	0.053	0.055	0.052
(4)	0.055	0.042	0.034	0.034	0.034
(5)	0.051	0.039	0.035	0.036	0.034
Tetrachloro-m-xylene (#)	0.762	0.613	0.532	0.546	0.553
Decachlorobiphenyl (#)	1.454	1.094	0.901	0.927	0.904
Dibutylchlorendate (#)	1.205	0.969	0.848	0.880	0.872

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/23/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 2322 0131

RF1: 1I23D30

COMPOUND	RF1
Aroclor-1016	0.006
(2)	0.007
(3)	0.003
(4)	0.006
(5)	0.003
Aroclor-1260	0.057
(2)	0.035
(3)	0.054
(4)	0.033
(5)	0.034
Tetrachloro-m-xylene (#)	0.577
Decachlorobiphenyl (#)	0.912
Dibutylchlorendate (#)	0.926

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/23/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 2322 0131

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	0.00000000	143.208	107.92	0.997
(2)	2ORDR	0.00000000	112.660	88.612	0.997
(3)	2ORDR	0.00000000	224.441	654.25	0.998
(4)	2ORDR	0.00000000	124.845	111.33	0.994
(5)	2ORDR	0.00000000	218.083	480.46	0.998
Aroclor-1260	2ORDR	0.00000000	15.9310	0.5984	0.998
(2)	2ORDR	0.00000000	24.1257	2.5642	0.998
(3)	2ORDR	0.00000000	17.3092	0.5942	0.997
(4)	2ORDR	0.00000000	25.6828	3.0718	0.998
(5)	2ORDR	0.00000000	25.6675	2.4844	0.999
Tetrachloro-m-xylene (#)	2ORDR	0.00000000	1.90217	-5.34e-002	0.998
Decachlorobiphenyl (#)	2ORDR	0.00000000	1.02519	1.817e-002	0.998
Dibutylchlorendate (#)	2ORDR	0.00000000	1.20212	-2.38e-002	0.998

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/23/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 2322 0131

LAB FILE ID: RF1: 2I23D25 RF2.5: 2I23D26 RF5: 2I23D27
RF10: 2I23D28 RF20: 2I23D29

COMPOUND	RF1	RF2.5	RF5	RF10	RF20
Aroclor-1016	0.015	0.012	0.010	0.010	0.009
(2)	0.012	0.010	0.008	0.008	0.008
(3)	0.011	0.010	0.008	0.008	0.008
(4)	0.007	0.006	0.005	0.005	0.005
(5)	0.007	0.005	0.004	0.004	0.004
Aroclor-1260	0.042	0.033	0.026	0.027	0.026
(2)	0.026	0.020	0.016	0.016	0.016
(3)	0.022	0.017	0.015	0.015	0.014
(4)	0.038	0.029	0.025	0.026	0.024
(5)	0.017	0.014	0.012	0.012	0.012
Tetrachloro-m-xylene (#)	0.804	0.620	0.527	0.538	0.540
Decachlorobiphenyl (#)	1.395	1.051	0.877	0.895	0.876
Dibutylchlorendate (#)	3.491	2.714	2.450	2.519	2.492

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/23/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 2322 0131

RF0: 2I23D30

COMPOUND	RF0
Aroclor-1016	0.009
(2)	0.008
(3)	0.008
(4)	0.005
(5)	0.004
Aroclor-1260	0.026
(2)	0.016
(3)	0.014
(4)	0.025
(5)	0.012
Tetrachloro-m-xylene (#)	0.535
Decachlorobiphenyl (#)	0.867
Dibutylchlorendate (#)	2.462

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/23/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 2322 0131

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	-1.993	108.595	8.9832	0.999
(2)	2ORDR	-1.720	127.438	-1.392	0.999
(3)	2ORDR	-1.414	122.429	8.4837	0.999
(4)	2ORDR	-1.311	189.908	97.708	0.999
(5)	2ORDR	-2.234	238.349	65.466	0.998
Aroclor-1260	2ORDR	0.00000000	33.8399	3.5164	0.998
(2)	2ORDR	0.00000000	57.0248	7.3175	0.997
(3)	2ORDR	0.00000000	60.0538	14.813	0.999
(4)	2ORDR	0.00000000	37.6415	2.2425	0.997
(5)	2ORDR	0.00000000	77.2984	14.777	0.998
Tetrachloro-m-xylene (#)	2ORDR	0.00000000	1.78135	3.502e-002	0.998
Decachlorobiphenyl (#)	2ORDR	0.00000000	1.03156	2.984e-002	0.998
Dibutylchlorendate (#)	2ORDR	-0.120	0.42131	-5.39e-004	1.000

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/22/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF0.04: 1I23D21

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.003	AVRG	3.464e-003	0.0
(2)	0.004	AVRG	4.074e-003	0.0
(3)	0.003	AVRG	3.246e-003	0.0
(4)	0.003	AVRG	3.372e-003	0.0
(5)	0.004	AVRG	3.506e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/22/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF5: 2I23D21

COMPOUND	RF5	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.007	AVRG	7.437e-003	0.0
(2)	0.004	AVRG	4.587e-003	0.0
(3)	0.004	AVRG	3.748e-003	0.0
(4)	0.002	AVRG	2.436e-003	0.0
(5)	0.004	AVRG	4.003e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/22/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF0.04: 1I23D22

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.006	AVRG	6.426e-003	0.0
(2)	0.014	AVRG	1.371e-002	0.0
(3)	0.006	AVRG	6.277e-003	0.0
(4)	0.007	AVRG	6.97e-003	0.0
(5)	0.008	AVRG	7.809e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/22/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF5: 2I23D22

COMPOUND	RF5	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.006	AVRG	5.706e-003	0.0
(2)	0.007	AVRG	7.044e-003	0.0
(3)	0.006	AVRG	6.061e-003	0.0
(4)	0.008	AVRG	8.008e-003	0.0
(5)	0.008	AVRG	8.579e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/22/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF0.04: 1I23D23

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.008	AVRG	7.978e-003	0.0
(2)	0.005	AVRG	4.878e-003	0.0
(3)	0.011	AVRG	1.144e-002	0.0
(4)	0.006	AVRG	6.357e-003	0.0
(5)	0.007	AVRG	7.176e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/22/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF5: 2I23D23

COMPOUND	RF5	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.009	AVRG	9.082e-003	0.0
(2)	0.008	AVRG	7.785e-003	0.0
(3)	0.012	AVRG	1.219e-002	0.0
(4)	0.013	AVRG	1.281e-002	0.0
(5)	0.007	AVRG	6.773e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date(s): 09/22/03 09/24/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF0.04: 1I23D24

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.003	AVRG	3.272e-003	0.0
(2)	0.003	AVRG	3.049e-003	0.0
(3)	0.009	AVRG	8.659e-003	0.0
Aroclor-1254	0.017	AVRG	1.695e-002	0.0
(2)	0.025	AVRG	2.486e-002	0.0
(3)	0.020	AVRG	1.986e-002	0.0
(4)	0.008	AVRG	8.538e-003	0.0
(5)	0.032	AVRG	3.203e-002	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date(s): 09/22/03 09/24/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1520 0131

RF5: 2I23D24

COMPOUND	RF5	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.004	AVRG	3.57e-003	0.0
(2)	0.003	AVRG	2.824e-003	0.0
(3)	0.008	AVRG	8.548e-003	0.0
Aroclor-1254	0.009	AVRG	8.86e-003	0.0
(2)	0.008	AVRG	8.206e-003	0.0
(3)	0.017	AVRG	1.741e-002	0.0
(4)	0.040	AVRG	4.057e-002	0.0
(5)	0.020	AVRG	1.997e-002	0.0

FORM VI PEST-PCB

0244

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD1 Calibration Date: 10/08/03 Time: 0958

Lab File ID: 1J08D3 Init. Calib. Date(s): 09/23/03 09/24/03

Init. Calib. Times: 2322 0131

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.628	0.600	2ORDR	4.7	15.0
(2)	0.626	0.600	2ORDR	4.3	15.0
(3)	0.638	0.600	2ORDR	6.3	15.0
(4)	0.621	0.600	2ORDR	3.5	15.0
(5)	0.605	0.600	2ORDR	0.8	15.0
Aroclor-1260	0.596	0.600	2ORDR	0.7	15.0
(2)	0.602	0.600	2ORDR	0.3	15.0
(3)	0.592	0.600	2ORDR	1.3	15.0
(4)	0.589	0.600	2ORDR	1.8	15.0
(5)	0.589	0.600	2ORDR	1.8	15.0
Tetrachloro-m-xylene (#)	0.0594	0.0600	2ORDR	1.0	15.0
Decachlorobiphenyl (#)	0.0575	0.0600	2ORDR	4.2	15.0
Dibutylchlorendate (#)	0.0591	0.0600	2ORDR	1.5	15.0

FORM VII PEST-PCB

0245

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: Lab Code:

Client: Project: SDG No.: JETC03

Instrument ID: TSGDECD2 Calibration Date: 10/08/03 Time: 0958

Lab File ID: 2J08D3 Init. Calib. Date(s): 09/23/03 09/24/03

Init. Calib. Times: 2322 0131

GC Column: DB-17 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL10 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.633	0.600	2ORDR	5.5	15.0
(2)	0.644	0.600	2ORDR	7.3	15.0
(3)	0.645	0.600	2ORDR	7.5	15.0
(4)	0.628	0.600	2ORDR	4.7	15.0
(5)	0.640	0.600	2ORDR	6.7	15.0
Aroclor-1260	0.611	0.600	2ORDR	1.8	15.0
(2)	0.617	0.600	2ORDR	2.8	15.0
(3)	0.617	0.600	2ORDR	2.8	15.0
(4)	0.600	0.600	2ORDR	0.0	15.0
(5)	0.623	0.600	2ORDR	3.8	15.0
Tetrachloro-m-xylene (#)	0.0584	0.0600	2ORDR	2.7	15.0
Decachlorobiphenyl (#)	0.0616	0.0600	2ORDR	2.7	15.0
Dibutylchlorendate (#)	0.0590	0.0600	2ORDR	1.7	15.0

FORM VII PEST-PCB

0246

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): 1J08D3 Date Analyzed: 10/08/03

Instrument ID: TSGDECD1 Time Analyzed: 0958

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	57946	1.75				
	UPPER LIMIT	115892	1.80				
	LOWER LIMIT	28973	1.70				
	CLIENT SAMPLE NO.						
01	1006KMB	52556	1.75				
02	1006KMBLCS	54664	1.74				
03	1006KMBLCSD	56732	1.74				
04	1006KMS	51576	1.74				
05	1006KMSD	49998	1.74				
06	74380-1	47666	1.74				
07							
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17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

Lab File ID (Standard): 2J08D3 Date Analyzed: 10/08/03

Instrument ID: TSGDECD2 Time Analyzed: 0958

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	35768	2.02				
	UPPER LIMIT	71536	2.07				
	LOWER LIMIT	17884	1.97				
	CLIENT SAMPLE NO.						
01	1006KMB	34365	2.02				
02	1006KMBLCS	34599	2.01				
03	1006KMBLCSD	35931	2.01				
04	1006KMS	32978	2.01				
05	1006KMSD	35617	2.01				
06	74380-1	31533	2.01				
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-Nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 09/24/03

Instrument ID: TSGDECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		1232 29175	09/23/03	2138		
02		1242 29176	09/23/03	2204		
03		1248 29177	09/23/03	2230		
04		2154 29178	09/23/03	2256		
05		1660-1 9102	09/23/03	2322		
06		1660-2 9103	09/23/03	2348		
07		1660-3 9104	09/24/03	0013		
08		1660-4 9105	09/24/03	0039		
09		1660-5 9106	09/24/03	0105		
10		1660-6 9107	09/24/03	0131		
11		1660-4 2510	10/08/03	0958		
12	1006KMB	1006KMB	10/08/03	1236		
13	1006KMBLCS	1006KMBLCS	10/08/03	1302		
14	1006KMBLCSD	1006KMBLCSD	10/08/03	1328		
15	1006KMS	1006KMS	10/08/03	1354		
16	1006KMSD	1006KMSD	10/08/03	1420		
17	74380-1	086-EWC-S-10	10/08/03	1446		
18						
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23						
24						
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26						
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34						
35						
36						

QC LIMITS

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC03

GC Column: DB-17 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 09/24/03

Instrument ID: TSGDECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		1232 29175	09/23/03	2138		
02		1242 29176	09/23/03	2204		
03		1248 29177	09/23/03	2230		
04		2154 29178	09/23/03	2256		
05		1660-1 9102	09/23/03	2322		
06		1660-2 9103	09/23/03	2348		
07		1660-3 9104	09/24/03	0013		
08		1660-4 9105	09/24/03	0039		
09		1660-5 9106	09/24/03	0105		
10		1660-6 9107	09/24/03	0131		
11		1660-4 2510	10/08/03	0958		
12	1006KMB	1006KMB	10/08/03	1236		
13	1006KMBLCS	1006KMBLCS	10/08/03	1302		
14	1006KMBLCSD	1006KMBLCSD	10/08/03	1328		
15	1006KMS	1006KMS	10/08/03	1354		
16	1006KMSD	1006KMSD	10/08/03	1420		
17	74380-1	086-EWC-S-10	10/08/03	1446		
18						
19						
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25						
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29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

page 1 of 1

FORM VIII PEST-PCB

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 476 6

Batch No: SSM 1006003 K

Date Extracted: 10.06.03

Start Time: 1pm

Stop Time: 1pm

Analysis Required: 8082

Prep Method: 3550

Analyst/Activity Code* /A,B,S,D

Initial Project Check: BE

Final Project Check: BE

Date Concentrated: 10-7-3

Initials: BE

Extract Box ID:

	ID	Lot #	Amt (ml)	Init.
Surr.	8081	6,3,76,6	1.0	BE
Surr.				
Spike	16660	6,3,68,4	1.0	BE
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

1:1 HEX/ACE:

AN.428.0039.1

Na_2SO_4 POWD: X44144

Na_2SO_4 GRAN: 431626

HEX:

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.O.	H.O.	COMMENTS
1. T374380*1/086-EWC-S-1002-03*	JETC03	SS	30.0			10.0	10.09	10.16	R
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		SS	30.0			10.0			
Lab Spike #1		SS	30.0						
Lab Spike #2		SS	30.0						
MS: T374370 086-EWC-S-1002-03		SS							
MSD: T374370 086-EWC-S-1002-03		SS							

AN 10-08-03

Dets: PCB's <8082>

\+ Additional Dets:

0252

EXTRACT CLEANUP LOG

Job No 476

	GPC CLEANUP				FLORISIL CLEANUP		ACID CLEANUP		COPPER CLEANUP	
	Analyst:				Analyst:		Analyst: WR		Analyst:	
	Date:				Date:		Date: 10.8.03		Date:	
					Lot#:		Lot#: 17.3.50.13		Lot#:	
Sample ID / Sample Desription	SDG	GPC Column Id	(mL) Amt Loaded	(mL) Amt Column	FV (mL)	(mL) Amt Cleanup	FV (mL)	(mL) Amt Cleanup	FV (mL)	(mL) Amt Cleanup	FV (mL)
1. T374380*1/086-EWC-S-1002-03*	JETC03							1.0	1.0		
2. SG100603K MB											
3. LCS											
4. LCSD											
5. MS											
6. MSD											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											

* This volume represents actual volume loaded. The loaded volume is always twice the amount actually cleaned by the GPC (amount on column)

ANALYSIS LOG(S)

Client SDG: JETC03 Sample Fraction: PEST-PCB

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4708723	1D0923.b	1I23D19.d	CALIB_3		TECH 29162	716670		
4708723	1D0923.b	1I23D20.d	CALIB_3		TOX 291611	716671		
4708723	1D0923.b	1I23D21.d	CALIB_3		1232 29175	716672		
4708723	1D0923.b	1I23D22.d	CALIB_3		1242 29176	716673		
4708723	1D0923.b	1I23D23.d	CALIB_3		1248 29177	716674		
4708723	1D0923.b	1I23D24.d	CALIB_3		2154 29178	716675		
4708723	1D0923.b	1I23D25.d	CALIB_1		1660-1 9102	716676		
4708723	1D0923.b	1I23D26.d	CALIB_2		1660-2 9103	716677		
4708723	1D0923.b	1I23D27.d	CALIB_3		1660-3 9104	716678		
4708723	1D0923.b	1I23D28.d	CALIB_4		1660-4 9105	716679		
4708723	1D0923.b	1I23D29.d	CALIB_5		1660-5 9106	716680		
4708723	1D0923.b	1I23D30.d	CALIB_6		1660-6 9107	716681		
4708722	1D0923.b	2I23D19.d	CALIB_3		TECH 29162	716682		
4708722	1D0923.b	2I23D20.d	CALIB_3		TOX 291611	716683		
4708722	1D0923.b	2I23D21.d	CALIB_3		1232 29175	716684		
4708722	1D0923.b	2I23D22.d	CALIB_3		1242 29176	716685		
4708722	1D0923.b	2I23D23.d	CALIB_3		1248 29177	716686		
4708722	1D0923.b	2I23D24.d	CALIB_3		2154 29178	716687		
4708722	1D0923.b	2I23D25.d	CALIB_1		1660-1 9102	716688		
4708722	1D0923.b	2I23D26.d	CALIB_2		1660-2 9103	716689		
4708722	1D0923.b	2I23D27.d	CALIB_3		1660-3 9104	716690		
4708722	1D0923.b	2I23D28.d	CALIB_4		1660-4 9105	716691		
4708722	1D0923.b	2I23D29.d	CALIB_5		1660-5 9106	716692		
4708722	1D0923.b	2I23D30.d	CALIB_6		1660-6 9107	716693		
4709214	1D1008.b	1J08D3.d	CCALIB_4		1660-4 2510	4709212	SG100603J	
4709214	1D1008.b	1J08D5.d	BLANK	1006KMB	1006KMB	4709258	SG100603K	JETC03
4709214	1D1008.b	1J08D6.d	LCS	1006KMBLCS	1006KMBLCS	4709259	SG100603K	JETC03
4709214	1D1008.b	1J08D7.d	LCSD	1006KMBLCSD	1006KMBLCSD	4709260	SG100603K	JETC03
4709214	1D1008.b	1J08D8.d	MS	1006KMS	1006KMS	4709261	SG100603K	JETC03
4709214	1D1008.b	1J08D9.d	MSD	1006KMSD	1006KMSD	4709262	SG100603K	JETC03
4709214	1D1008.b	1J08D10.d	SAMPLE	74380-1	086-EWC-S-1002-0	4709257	SG100603K	JETC03
4709213	1D1008.b	2J08D3.d	CCALIB_4		1660-4 2510	4709210	SG100603J	
4709213	1D1008.b	2J08D5.d	BLANK	1006KMB	1006KMB	4709246	SG100603K	JETC03
4709213	1D1008.b	2J08D6.d	LCS	1006KMBLCS	1006KMBLCS	4709247	SG100603K	JETC03
4709213	1D1008.b	2J08D7.d	LCSD	1006KMBLCSD	1006KMBLCSD	4709248	SG100603K	JETC03
4709213	1D1008.b	2J08D8.d	MS	1006KMS	1006KMS	4709249	SG100603K	JETC03
4709213	1D1008.b	2J08D9.d	MSD	1006KMSD	1006KMSD	4709250	SG100603K	JETC03
4709213	1D1008.b	2J08D10.d	SAMPLE	74380-1	086-EWC-S-1002-0	4709245	SG100603K	JETC03

SEQUENCE FILE: 1I23D

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	B-6 2972 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
2	B-5 2973 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
3	PRIM ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
4	PRIM ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
5	HEX ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
6	TEM 29216~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
7	A-1 2962 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
8	A-2 2963 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
9	A-3 29255 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
10	A-4 29256 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
11	A-5 2966 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
12	A-6 2967 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
13	B-1 2968 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
14	B-2 2969 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
15	B-3 29257 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
16	B-4 29258 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
17	B-5 2965 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
18	B-6 2967 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
19	TECH 29162 ~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
20	TOX 291611~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
21	1232 29175~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
22	1242 29176~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
23	1248 29177~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
24	2154 29178~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
25	1660-1 9102~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
26	1660-2 9103~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
27	1660-3 9104~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
28	1660-4 9105~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
29	1660-5 9106~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000
30	1660-6 9107~1D0923	K	1I23D	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 17[illegible]

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	PBTM~1D1000	K	1J08D	1.0000	1.0000	1.0000	1.0000
2	HEX ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
3	1660-4 2510~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
4	1660-1 9316~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
5	1006MB~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
6	1006MBLC5 ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
7	1006MBLC5D~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
8	1006M5 ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
9	1006M5D ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
10	74387-1~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
11	PSM 29278Z~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
12	B-4 29256~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
13	B-4 29259~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
14	1660-4 2510~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
15	B-1 9316~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
16	B-1 9326~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
17	1660-1 9316~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
18	1006JMB~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
19	1006JMBLC5 ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
20	1006JMBLC5D~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
21	1006JM5 ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
22	1006JM5D ~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
23	B-4 9256~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
24	B-4 9259~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
25	1660-4 2510~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000
26	74387-1 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
27	74387-2 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
28	74387-3 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
29	74387-4 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
30	74387-5 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
31	74387-6 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
32	74387-7 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
33	74387-8 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
34	74387-9 ~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
35	74387-10~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
36	74387-11~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
37	74387-12~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
38	74387-13~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
39	74387-14~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
40	74387-15~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
41	74387-16~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
42	74387-17~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
43	74387-18~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
44	74387-19~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
45	74387-20~1D1008~AC	K	1J08D	1.0000	1.0000	1.0000	1.0000
46	1660-4 2510~1D1008	K	1J08D	1.0000	1.0000	1.0000	1.0000

IGNITABILITY-BURN RATE
Method 1030

CASE NARRATIVE

CASE NARRATIVE
IGNITABILITY

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: 1030
Cleanup: N/A
Analysis: 1030

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

0260

RAW DATA

Burn Rate

T373494/085P102303 Did not ignite 081503 MR

@730 081503BR

T373923/Comp1090503 Did not ignite 090803 MR

T373925/Soil Bucket ↓ @900 @900 090803BR

T374137/Soil 2 Did not ignite 091203 MR

@1530 091203BR

T374380/86 EWCS100203 Did not ignite 10-8-03 MR @ 1930

0262

CORROSIVITY
METHOD 9040

CASE NARRATIVE

CASE NARRATIVE
CORROSIVITY

STL Lab Reference No. / SDG: JETC03

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: 9040
Cleanup: N/A
Analysis: 9040

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Samples: The sample does not exhibit the characteristic of corrosivity because It is non-aqueous. The sample contained <20% free liquid when subjected to the paint filter test (EPA Method 9095).

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/15/03

Timothy Preston
Project Manager

RAW DATA

PAINT FILTER TEST

(FREE LIQUIDS)

Date	Analyst's Initials	SL Log No.	Sample ID	Mass Used	mL Filtered	% Free Liquid
08.14.03	MR	T373494	08SP1Q303	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
09.06.03	MR	T373923	Comp 109053	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
〃	〃	T373924	086.BRC.S.	100g	Ø	0%
090803	MR	T373925	Soil Buried	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
09.20.03	MR	T374137	Soil-2	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
10.03.03	MR	T374380	86EWCS10020	100g	Ø	0%

REVIEWED BY: [signature] DATE: 9/4/03

BA60-3

REVIEWED BY: [signature] DATE: 9/30/03

0267

JETC04

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STL Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
(850) 878-3994

LEVEL III DATA PACKAGE

SDG# JETC04
STL Log Number: T374651
Project: JETC and Building 271

Prepared for
Aerostar Environmental Services, Inc.
by
STL Tallahassee
Tallahassee, Florida

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Laboratory Report

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TAL Metals *Methods 6010/7471*

Ignitability-Flash Point *Method 1010*

Corrosivity-pH *Method 9040/9041*

Timothy Preston
timpreston@stl-inc.com

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The pages of this report are numbered sequentially from 1 to 327.

STL Tallahassee

H2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
171591-007 Page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
JETC and Building 271	171591	STL - Tallahassee	Rick McCann - Aerostar 11181 St. Johns Ind Pkwy Jax, FL 32246	Phone 904-565-2820 Email Fax 904-565-2830 greichold@aerostar
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
Drum Characterization	0086			
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL Volatiles by 1311/8260B	TCL Semi-volatiles (8270C)	TCL Pesticides (8081A); TCL Herbicides (8151A); PCBs (8082)	TRPH (FL-PRO)	TAL Metals(6010B)	Corrosivity (9045A); Ignitability (1010/1020)	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86DWCS101703	Characterization of Well Development Water	W	10/17/03	14:05	B	7 Day	6	4	6	4	2	2	N		
2																
3																
4																
5																
6																
7																
8																
9																
10																

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:
Geoff Reichold/Aerostar	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Geoff Reichold	10-17-03		Printed Name and Signature: M. Owens T374651	10/17/2003	0941
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

LABORATORY REPORT

LOG NO: T3-74651
Received: 18 OCT 03
Reported: 29 OCT 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
TCL Volatiles by GC/MS (8260)	
Chloromethane, ug/l	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Chloroethane, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Acetone, ug/l	25U
Carbon disulfide, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
cis-1,2-Dichloroethylene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Chloroform, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
1,1,1-Trichloroethane, ug/l	1.0U
Carbon tetrachloride, ug/l	1.0U
Bromodichloromethane, ug/l	1.0U
1,2-Dichloropropane, ug/l	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Dibromochloromethane, ug/l	1.0U
1,1,2-Trichloroethane, ug/l	1.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
Benzene, ug/l	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U
Bromoform, ug/l	1.0U
4-Methyl-2-pentanone (MIBK), ug/l	10U
2-Hexanone, ug/l	10U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Styrene, ug/l	1.0U
Xylenes, Total, ug/l	2.0U
Surrogate - Dibromofluoromethane	104 %
Surrogate - Toluene-d8	112 %
Surrogate - 4-Bromofluorobenzene	104 %
Prep Date	10.23.03
Analysis Date	10.23.03
Batch ID	VM102103P

LOG NO: T3-74651
Received: 18 OCT 03
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Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
TCL - Semivolatiles (8270)	
Phenol, ug/l	2.2J
bis(2-Chloroethyl)ether, ug/l	10U
2-Chlorophenol, ug/l	10U
1,3-Dichlorobenzene, ug/l	10U
1,4-Dichlorobenzene, ug/l	10U
1,2-Dichlorobenzene, ug/l	10U
2-Methylphenol (o-Cresol), ug/l	10U
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropy 1)ether], ug/l	10U
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/l	10U
N-Nitroso-di-n-propylamine, ug/l	10U
Hexachloroethane, ug/l	10U
Nitrobenzene, ug/l	10U
Isophorone, ug/l	10U
2-Nitrophenol, ug/l	10U
2,4-Dimethylphenol, ug/l	10U
bis(2-Chloroethoxy)methane, ug/l	10U
2,4-Dichlorophenol, ug/l	10U
1,2,4-Trichlorobenzene, ug/l	10U
Naphthalene, ug/l	2.1J
4-Chloroaniline, ug/l	20U
Hexachlorobutadiene, ug/l	10U

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
4-Chloro-3-methylphenol, ug/l	10U
2-Methylnaphthalene, ug/l	10U
Hexachlorocyclopentadiene, ug/l	10U
2,4,6-Trichlorophenol, ug/l	10U
2,4,5-Trichlorophenol, ug/l	10U
2-Chloronaphthalene, ug/l	10U
2-Nitroaniline, ug/l	50U
Dimethylphthalate, ug/l	10U
Acenaphthylene, ug/l	10U
2,6-Dinitrotoluene, ug/l	10U
3-Nitroaniline, ug/l	50U
Acenaphthene, ug/l	10U
2,4-Dinitrophenol, ug/l	50U
4-Nitrophenol, ug/l	50U
Dibenzofuran, ug/l	10U
2,4-Dinitrotoluene, ug/l	10U
Diethylphthalate, ug/l	10U
4-Chlorophenylphenyl ether, ug/l	10U
Fluorene, ug/l	10U
4-Nitroaniline, ug/l	50U
4,6-Dinitro-2-methylphenol, ug/l	50U
N-Nitrosodiphenylamine, ug/l	10U
4-Bromophenylphenyl ether, ug/l	10U

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Code: 111731029

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
Hexachlorobenzene, ug/l	10U
Pentachlorophenol, ug/l	50U
Phenanthrene, ug/l	10U
Anthracene, ug/l	10U
Carbazole, ug/l	10U
Di-n-butylphthalate, ug/l	10U
Fluoranthene, ug/l	10U
Pyrene, ug/l	10U
Butylbenzylphthalate, ug/l	10U
3,3'-Dichlorobenzidine, ug/l	20U
Benzo(a)anthracene, ug/l	10U
Chrysene, ug/l	10U
bis(2-Ethylhexyl)phthalate, ug/l	10U
Di-n-octylphthalate, ug/l	10U
Benzo(b)fluoranthene, ug/l	10U
Benzo(k)fluoranthene, ug/l	10U
Benzo(a)pyrene, ug/l	10U
Indeno(1,2,3-cd)pyrene, ug/l	10U
Dibenzo(a,h)anthracene, ug/l	10U
Benzo(g,h,i)perylene, ug/l	10U
Surrogate - 2-Fluorophenol	55 %
Surrogate - Phenol-d5	52 %
Surrogate - Nitrobenzene - d5	74 %

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Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
Surrogate - 2-Fluorobiphenyl	88 %
Surrogate - 2,4,6-Tribromophenol	70 %
Surrogate - Terphenyl-d14	40 %
Prep Date	10.22.03
Analysis Date	10.24.03
Batch ID	SM102203C
Petroleum Range Organics (FL-PRO)	
Petroleum Hydrocarbons , mg/l	<0.30
Surrogate, o-Terphenyl	80 %
Surrogate-C39	75 %
Prep Date	10.22.03
Analysis Date	10.23.03
Batch ID	SG102203B

LOG NO: T3-74651
Received: 18 OCT 03
Reported: 29 OCT 03

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Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
TCL - Pesticides/PCB's (8081/8082)	
alpha-BHC, ug/l	<0.050
beta-BHC, ug/l	<0.050
delta-BHC, ug/l	<0.050
gamma-BHC (Lindane), ug/l	<0.050
Heptachlor, ug/l	<0.050
Aldrin, ug/l	<0.050
Heptachlor epoxide, ug/l	<0.050
Endosulfan I, ug/l	<0.050
Dieldrin, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
Endrin, ug/l	<0.10
Endosulfan II, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Endosulfan sulfate, ug/l	<0.10
4,4'-DDT, ug/l	<0.10
Methoxychlor, ug/l	<0.50
Endrin ketone, ug/l	<0.10
Endrin aldehyde, ug/l	<0.10
alpha-Chlordane, ug/l	<0.050
gamma-Chlordane, ug/l	<0.050
Toxaphene, ug/l	<3.0
Aroclor-1016, ug/l	<0.50

LOG NO: T3-74651
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
Aroclor-1221, ug/l	<1.0
Aroclor-1232, ug/l	<0.50
Aroclor-1242, ug/l	<0.50
Aroclor-1248, ug/l	<0.50
Aroclor-1254, ug/l	<0.50
Aroclor-1260, ug/l	<0.50
Surrogate - Dibutyl Chlorendate	102 %
Surrogate - Tetrachloro-m-xylene	72 %
Surrogate - Decachlorobiphenyl	96 %
Prep Date	10.23.03
Analysis Date	10.24.03
Batch ID	SG102303B

LOG NO: T3-74651
Received: 18 OCT 03
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Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
Chlorinated Herbicides (8151)	
Bentazon, ug/l	<2.0
2,4-D, ug/l	<0.50
Dalapon, ug/l	<120
2,4-DB, ug/l	<0.50
Dicamba, ug/l	<1.2
Dichloroprop, ug/l	<6.0
Dinoseb, ug/l	<6.0
MCPA[(4-chloro-2-methylphenoxy)-acetic acid], ug/l	<120
MCPP[2-(4-chloro-2-methylphenoxy)-propanoic acid], ug/l	<120
Pentachlorophenol, ug/l	<1.0
Picloram, ug/l	<0.50
2,4,5-TP (Silvex), ug/l	<0.50
2,4,5-T, ug/l	<0.50
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	100 %
Prep Date	10.23.03
Analysis Date	10.24.03
Batch ID	SG102303Q

LOG NO: T3-74651
Received: 18 OCT 03
Reported: 29 OCT 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
TAL Metals (6010)	
Aluminum, mg/l	0.97
Antimony, mg/l	0.020U
Arsenic, mg/l	0.010U
Barium, mg/l	0.67
Beryllium, mg/l	0.0040U
Cadmium, mg/l	0.0050U
Calcium, mg/l	77
Chromium, mg/l	0.0022B
Cobalt, mg/l	0.010U
Copper, mg/l	0.020U
Iron, mg/l	8.8
Lead, mg/l	0.0050U
Magnesium, mg/l	1.7
Manganese, mg/l	0.18
Nickel, mg/l	0.040U
Potassium, mg/l	5.1
Selenium, mg/l	0.010U
Silver, mg/l	0.010U
Sodium, mg/l	26
Thallium, mg/l	0.010U
Vanadium, mg/l	0.0031B
Zinc, mg/l	0.028
Prep Date	10.22.03
Analysis Date	10.22.03
Batch ID	ME102203L

LOG NO: T3-74651
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Reported: 29 OCT 03

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-1	086-DWC-S-1017-03	10-17-03/14:05	JETC04

PARAMETER	74651-1
Mercury (7470), mg/l	0.00020U
Prep Date	10.23.03
Analysis Date	10.23.03
Batch ID	ME102303T
Ignitability-flash point (1010), degrees F	>140
Prep Date	10.22.03
Analysis Date	10.22.03
Batch ID	GE102203FP
Corrosivity-pH (EPA 9040/9041), units	11.4
Prep Date	10.19.03
Analysis Date	10.19.03
Batch ID	GE101903H

LOG NO: T3-74651
Received: 18 OCT 03
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
TCL Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	---	---	---
Bromomethane (Methyl bromide), ug/l	1.0U	---	---	---	---
Vinyl chloride, ug/l	1.0U	---	---	---	---
Chloroethane, ug/l	1.0U	---	---	---	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---	---	---	---
Acetone, ug/l	25U	---	---	---	---
Carbon disulfide, ug/l	1.0U	---	---	---	---
1,1-Dichloroethene, ug/l	1.0U	11	8.9	10	110 %
1,1-Dichloroethane, ug/l	1.0U	---	---	---	---
cis-1,2-Dichloroethylene, ug/l	1.0U	---	---	---	---
trans-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
Chloroform, ug/l	1.0U	---	---	---	---
1,2-Dichloroethane, ug/l	1.0U	---	---	---	---
2-Butanone (MEK), ug/l	10U	---	---	---	---
1,1,1-Trichloroethane, ug/l	1.0U	---	---	---	---
Carbon tetrachloride, ug/l	1.0U	---	---	---	---

LOG NO: T3-74651
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Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
Bromodichloromethane, ug/l	1.0U	---	---	---	---
1,2-Dichloropropane, ug/l	1.0U	---	---	---	---
cis-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Trichloroethene, ug/l	1.0U	9.5	9.8	10	95 %
Dibromochloromethane, ug/l	1.0U	---	---	---	---
1,1,2-Trichloroethane, ug/l	1.0U	---	---	---	---
Benzene, ug/l	1.0U	10	9.6	10	100 %
trans-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Bromoform, ug/l	1.0U	---	---	---	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---	---	---	---
2-Hexanone, ug/l	10U	---	---	---	---
Tetrachloroethene, ug/l	1.0U	---	---	---	---
Toluene, ug/l	1.0U	9.5	9.1	10	95 %
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	---	---	---
Chlorobenzene, ug/l	1.0U	9.8	9.9	10	98 %
Ethylbenzene, ug/l	1.0U	---	---	---	---
Styrene, ug/l	1.0U	---	---	---	---
Xylenes, Total, ug/l	2.0U	---	---	---	---
Surrogate - Dibromofluoromethane	104 %	108 %	100 %	---	---
Surrogate - Toluene-d8	108 %	112 %	108 %	---	---
Surrogate - 4-Bromofluorobenzene	104 %	108 %	116 %	---	---
Prep Date	10.23.03	10.23.03	10.23.03	---	---
Analysis Date	10.23.03	10.23.03	10.23.03	---	---
Batch ID	VM102103P	VM102103P	VM102103P	VM102103P	VM102103P

LOG NO: T3-74651
Received: 18 OCT 03
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Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
TCL - Semivolatiles (8270)					
Phenol, ug/l	10U	88	93	100	88 %
bis(2-Chloroethyl)ether, ug/l	10U	---	---	---	---
2-Chlorophenol, ug/l	10U	78	86	100	78 %
1,3-Dichlorobenzene, ug/l	10U	---	---	---	---
1,4-Dichlorobenzene, ug/l	10U	40	41	50	80 %
1,2-Dichlorobenzene, ug/l	10U	---	---	---	---
2-Methylphenol (o-Cresol), ug/l	10U	---	---	---	---
2,2'-Oxybis(1-chloropropane)[bis(2-Chloroisopropyl)ether], ug/l	10U	---	---	---	---
3-Methylphenol/4-Methylphenol (m&p-Cresol), ug/l	10U	---	---	---	---
N-Nitroso-di-n-propylamine, ug/l	10U	45	34	50	90 %
Hexachloroethane, ug/l	10U	---	---	---	---
Nitrobenzene, ug/l	10U	---	---	---	---
Isophorone, ug/l	10U	---	---	---	---
2-Nitrophenol, ug/l	10U	---	---	---	---
2,4-Dimethylphenol, ug/l	10U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
bis(2-Chloroethoxy)methane, ug/l	10U	---	---	---	---
2,4-Dichlorophenol, ug/l	10U	---	---	---	---
1,2,4-Trichlorobenzene, ug/l	10U	40	42	50	80 %
Naphthalene, ug/l	10U	---	---	---	---
4-Chloroaniline, ug/l	20U	---	---	---	---
Hexachlorobutadiene, ug/l	10U	---	---	---	---
4-Chloro-3-methylphenol, ug/l	10U	82	88	100	82 %
2-Methylnaphthalene, ug/l	10U	---	---	---	---
Hexachlorocyclopentadiene, ug/l	10U	---	---	---	---
2,4,6-Trichlorophenol, ug/l	10U	---	---	---	---
2,4,5-Trichlorophenol, ug/l	10U	---	---	---	---
2-Chloronaphthalene, ug/l	10U	---	---	---	---
2-Nitroaniline, ug/l	50U	---	---	---	---
Dimethylphthalate, ug/l	10U	---	---	---	---
Acenaphthylene, ug/l	10U	---	---	---	---
2,6-Dinitrotoluene, ug/l	10U	---	---	---	---
3-Nitroaniline, ug/l	50U	---	---	---	---
Acenaphthene, ug/l	10U	43	53	50	86 %
2,4-Dinitrophenol, ug/l	50U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
4-Nitrophenol, ug/l	50U	81	110	100	81 %
Dibenzofuran, ug/l	10U	---	---	---	---
2,4-Dinitrotoluene, ug/l	10U	42	58	50	84 %
Diethylphthalate, ug/l	10U	---	---	---	---
4-Chlorophenylphenyl ether, ug/l	10U	---	---	---	---
Fluorene, ug/l	10U	---	---	---	---
4-Nitroaniline, ug/l	50U	---	---	---	---
4,6-Dinitro-2-methylphenol, ug/l	50U	---	---	---	---
N-Nitrosodiphenylamine, ug/l	10U	---	---	---	---
4-Bromophenylphenyl ether, ug/l	10U	---	---	---	---
Hexachlorobenzene, ug/l	10U	---	---	---	---
Pentachlorophenol, ug/l	50U	75	120	100	75 %
Phenanthrene, ug/l	10U	---	---	---	---
Anthracene, ug/l	10U	---	---	---	---
Carbazole, ug/l	10U	---	---	---	---
Di-n-butylphthalate, ug/l	10U	---	---	---	---
Fluoranthene, ug/l	10U	---	---	---	---
Pyrene, ug/l	10U	56	53	50	112 %
Butylbenzylphthalate, ug/l	10U	---	---	---	---

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
3,3'-Dichlorobenzidine, ug/l	20U	---	---	---	---
Benzo(a)anthracene, ug/l	10U	---	---	---	---
Chrysene, ug/l	10U	---	---	---	---
bis(2-Ethylhexyl)phthalate, ug/l	10U	---	---	---	---
Di-n-octylphthalate, ug/l	10U	---	---	---	---
Benzo(b)fluoranthene, ug/l	10U	---	---	---	---
Benzo(k)fluoranthene, ug/l	10U	---	---	---	---
Benzo(a)pyrene, ug/l	10U	---	---	---	---
Indeno(1,2,3-cd)pyrene, ug/l	10U	---	---	---	---
Dibenzo(a,h)anthracene, ug/l	10U	---	---	---	---
Benzo(g,h,i)perylene, ug/l	10U	---	---	---	---
Surrogate - 2-Fluorophenol	64 %	81 %	80 %	---	---
Surrogate - Phenol-d5	59 %	84 %	64 %	---	---
Surrogate - Nitrobenzene - d5	60 %	92 %	88 %	---	---
Surrogate - 2-Fluorobiphenyl	72 %	110 %	140 %*F99	---	---
Surrogate - 2,4,6-Tribromophenol	52 %	88 %	110 %	---	---
Surrogate - Terphenyl-d14	84 %	108 %	144 %	---	---
Prep Date	10.22.03	10.22.03	10.22.03	---	---
Analysis Date	10.24.03	10.24.03	10.24.03	---	---
Batch ID	SM102203C	SM102203C	SM102203C	SM102203C	SM102203C

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
Petroleum Range Organics (FL-PRO)					
Petroleum Hydrocarbons , mg/l	<0.30	2.2	2.4	2.7	81 %
Surrogate, o-Terphenyl	75 %	85 %	90 %	---	---
Surrogate-C39	70 %	80 %	90 %	---	---
Prep Date	10.22.03	10.22.03	10.22.03	---	---
Analysis Date	10.23.03	10.23.03	10.23.03	---	---
Batch ID	SG102203B	SG102203B	SG102203B	SG102203B	SG102203B

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
TCL - Pesticides/PCB's (8081/8082)					
alpha-BHC, ug/l	<0.050	---	---	---	---
beta-BHC, ug/l	<0.050	---	---	---	---
delta-BHC, ug/l	<0.050	---	---	---	---
gamma-BHC (Lindane), ug/l	<0.050	0.034	0.032	0.050	68 %
Heptachlor, ug/l	<0.050	0.036	0.034	0.050	72 %
Aldrin, ug/l	<0.050	0.037	0.036	0.050	74 %
Heptachlor epoxide, ug/l	<0.050	---	---	---	---
Endosulfan I, ug/l	<0.050	---	---	---	---
Dieldrin, ug/l	<0.10	0.082	0.080	0.12	68 %
4,4'-DDE, ug/l	<0.10	---	---	---	---
Endrin, ug/l	<0.10	0.096	0.098	0.12	80 %
Endosulfan II, ug/l	<0.10	---	---	---	---
4,4'-DDD, ug/l	<0.10	---	---	---	---
Endosulfan sulfate, ug/l	<0.10	---	---	---	---
4,4'-DDT, ug/l	<0.10	0.099	0.10	0.12	82 %
Methoxychlor, ug/l	<0.50	---	---	---	---
Endrin ketone, ug/l	<0.10	---	---	---	---
Endrin aldehyde, ug/l	<0.10	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
alpha-Chlordane, ug/l	<0.050	---	---	---	---
gamma-Chlordane, ug/l	<0.050	---	---	---	---
Toxaphene, ug/l	<3.0	---	---	---	---
Aroclor-1016, ug/l	<0.50	---	---	---	---
Aroclor-1221, ug/l	<1.0	---	---	---	---
Aroclor-1232, ug/l	<0.50	---	---	---	---
Aroclor-1242, ug/l	<0.50	---	---	---	---
Aroclor-1248, ug/l	<0.50	---	---	---	---
Aroclor-1254, ug/l	<0.50	---	---	---	---
Aroclor-1260, ug/l	<0.50	---	---	---	---
Surrogate - Dibutyl Chlorendate	108 %	90 %	94 %	---	---
Surrogate - Tetrachloro-m-xylene	70 %	58 %	64 %	---	---
Surrogate - Decachlorobiphenyl	66 %	64 %	62 %	---	---
Prep Date	10.23.03	10.23.03	10.23.03	---	---
Analysis Date	10.27.03	10.27.03	10.27.03	---	---
Batch ID	G102303BMB	SG102303B	SG102303B	SG102303B	SG102303B

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
Chlorinated Herbicides (8151)					
Bentazon, ug/l	<2.0	---	---	---	---
2,4-D, ug/l	<0.50	1.2	1.2	1.7	70 %
Dalapon, ug/l	<120	---	---	---	---
2,4-DB, ug/l	<0.50	---	---	---	---
Dicamba, ug/l	<1.2	---	---	---	---
Dichloroprop, ug/l	<6.0	---	---	---	---
Dinoseb, ug/l	<6.0	---	---	---	---
MCPA[(4-chloro-2-methylphen oxy)-acetic acid], ug/l	<120	---	---	---	---
MCPP[2-(4-chloro-2-methylph enoxy)-propanoic acid], ug/l	<120	---	---	---	---
Pentachlorophenol, ug/l	<1.0	---	---	---	---
Picloram, ug/l	<0.50	---	---	---	---
2,4,5-TP (Silvex), ug/l	<0.50	1.6	1.5	1.7	94 %
2,4,5-T, ug/l	<0.50	1.1	0.99	1.7	65 %
Surrogate-2,4-Dichloropheny l acetic acid (DCAA)	82 %	90 %	95 %	---	---
Prep Date	10.23.03	10.23.03	10.23.03	---	---
Analysis Date	10.24.03	10.24.03	10.24.03	---	---
Batch ID	SG102303Q	SG102303Q	SG102303Q	SG102303Q	SG102303Q

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
TAL Metals (6010)					
Aluminum, mg/l	0.20U	2.0	2.0	2.0	100 %
Antimony, mg/l	0.020U	0.49	0.49	0.50	98 %
Arsenic, mg/l	0.010U	2.0	2.0	2.0	100 %
Barium, mg/l	0.010U	2.0	2.0	2.0	100 %
Beryllium, mg/l	0.0040U	0.050	0.050	0.050	100 %
Cadmium, mg/l	0.0050U	0.050	0.050	0.050	100 %
Calcium, mg/l	0.50U	5.0	5.0	5.0	100 %
Chromium, mg/l	0.010U	0.20	0.20	0.20	100 %
Cobalt, mg/l	0.010U	0.49	0.49	0.50	98 %
Copper, mg/l	0.020U	0.25	0.25	0.25	100 %
Iron, mg/l	0.050U	1.0	1.0	1.0	100 %
Lead, mg/l	0.0050U	0.49	0.48	0.50	98 %
Magnesium, mg/l	0.50U	5.0	5.0	5.0	100 %
Manganese, mg/l	0.010U	0.49	0.49	0.50	98 %
Nickel, mg/l	0.040U	0.49	0.49	0.50	98 %
Potassium, mg/l	1.0U	5.0	5.0	5.0	100 %
Selenium, mg/l	0.010U	2.0	2.0	2.0	100 %
Silver, mg/l	0.010U	0.050	0.060	0.050	100 %

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-2	Method Blank		JETC04
74651-3	Lab Control Standard Result		JETC04
74651-4	Lab Control Standard Duplicate Result		JETC04
74651-5	Spike Amount Added, LCS/LCSD		JETC04
74651-6	Lab Control Standard % Recovery		JETC04

PARAMETER	74651-2	74651-3	74651-4	74651-5	74651-6
Sodium, mg/l	0.50U	5.0	5.0	5.0	100 %
~~Thallium, mg/l~~	0.010U	2.0	2.0	2.0	100 %
Vanadium, mg/l	0.010U	0.50	0.50	0.50	100 %
Zinc, mg/l	0.020U	0.50	0.49	0.50	100 %
Prep Date	10.22.03	10.22.03	10.22.03	---	---
Analysis Date	10.22.03	10.22.03	10.22.03	---	---
Batch ID	ME102203L	ME102203L	ME102203L	---	ME102203L
Mercury (7470), mg/l	0.00020U	0.0026	0.0026	0.0025	104 %
Prep Date	10.23.03	10.23.03	10.23.03	---	---
Analysis Date	10.23.03	10.23.03	10.23.03	---	---
Batch ID	ME102303T	ME102303T	ME102303T	ME102303T	ME102303T
Ignitability-flash point (1010), degrees F	>140	---	---	---	---
Prep Date	10.22.03	---	---	---	---
Analysis Date	10.22.03	---	---	---	---
Batch ID	GE102203FP	---	---	---	---
Corrosivity-pH (EPA 9040/9041)	---	---	---	---	---

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-7	Lab Control Standard Duplicate % Recovery		JETC04
74651-8	LCS Accuracy Control Limit (%R)		JETC04
74651-9	Precision (%RPD) of LCS/LCSD		JETC04
74651-10	LCS Precision Control Limit (Advisory) %RPD		JETC04

PARAMETER	74651-7	74651-8	74651-9	74651-10
TCL Volatiles by GC/MS (8260)				
1,1-Dichloroethene, ug/l	89 %	46-147 %	21 %	<30 %
Trichloroethene, ug/l	98 %	56-143 %	3.1 %	<35 %
Benzene, ug/l	96 %	62-135 %	4.1 %	<37 %
Toluene, ug/l	91 %	68-131 %	4.3 %	<33 %
Chlorobenzene, ug/l	99 %	72-127 %	1 %	<22 %
Surrogate - Dibromofluoromethane	---	70-130 %	---	---
Surrogate - Toluene-d8	---	77-122 %	---	---
Surrogate - 4-Bromofluorobenzene	---	74-126 %	---	---
Batch ID	VM102103P	---	VM102103P	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-7	Lab Control Standard Duplicate % Recovery		JETC04
74651-8	LCS Accuracy Control Limit (%R)		JETC04
74651-9	Precision (%RPD) of LCS/LCSD		JETC04
74651-10	LCS Precision Control Limit (Advisory) %RPD		JETC04

PARAMETER	74651-7	74651-8	74651-9	74651-10
TCL - Semivolatiles (8270)				
Phenol, ug/l	93 %	33-122 %	5.5 %	<36 %
2-Chlorophenol, ug/l	86 %	38-115 %	9.8 %	<34 %
1,4-Dichlorobenzene, ug/l	82 %	27-130 %	2.5 %	<31 %
N-Nitroso-di-n-propylamine, ug/l	68 %	31-138 %	28 %	<30 %
1,2,4-Trichlorobenzene, ug/l	84 %	28-110 %	4.9 %	<28 %
4-Chloro-3-methylphenol, ug/l	88 %	34-126 %	7.0 %	<31 %
Acenaphthene, ug/l	106 %	36-121 %	21 %	<35 %
4-Nitrophenol, ug/l	110 %	12-143 %	30 %	<44 %
2,4-Dinitrotoluene, ug/l	116 %	37-129 %	32 %	<32 %
Pentachlorophenol, ug/l	120 %	19-148 %	46 %*F99	<33 %
Pyrene, ug/l	106 %	31-139 %	5.5 %	<42 %
Surrogate - 2-Fluorophenol	---	29-121 %	---	---
Surrogate - Phenol-d5	---	25-128 %	---	---
Surrogate - Nitrobenzene - d5	---	34-130 %	---	---
Surrogate - 2-Fluorobiphenyl	---	36-124 %	---	---
Surrogate - 2,4,6-Tribromophenol	---	29-143 %	---	---
Surrogate - Terphenyl-d14	---	14-148 %	---	---
Batch ID	SM102203C	---	SM102203C	---

LOG NO: T3-74651
Received: 18 OCT 03
Reported: 29 OCT 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-7	Lab Control Standard Duplicate % Recovery		JETC04
74651-8	LCS Accuracy Control Limit (%R)		JETC04
74651-9	Precision (%RPD) of LCS/LCSD		JETC04
74651-10	LCS Precision Control Limit (Advisory) %RPD		JETC04

PARAMETER	74651-7	74651-8	74651-9	74651-10
Petroleum Range Organics (FL-PRO)				
Petroleum Hydrocarbons , mg/l	89 %	41-101 %	8.7 %	<20 %
Surrogate, o-Terphenyl	---	38-156 %	---	---
Surrogate-C39	---	24-137 %	---	---
Batch ID	SG102203B	---	SG102203B	---
TCL - Pesticides/PCB's (8081/8082)				
alpha-BHC, ug/l		---	---	---
gamma-BHC (Lindane), ug/l	64 %	40-139 %	6.1 %	<26 %
Heptachlor, ug/l	68 %	37-148 %	5.7 %	<26 %
Aldrin, ug/l	72 %	38-129 %	2.7 %	<25 %
Dieldrin, ug/l	67 %	34-150 %	2.5 %	<42 %
Endrin, ug/l	82 %	41-158 %	2.1 %	<25 %
4,4'-DDT, ug/l	83 %	50-147 %	1.0 %	<27 %
Batch ID	SG102303B	---	SG102303B	---
Chlorinated Herbicides (8151)				
2,4-D, ug/l	70 %	11-154 %	0 %	<78 %
2,4,5-TP (Silvex), ug/l	88 %	10-135 %	6.4 %	<66 %
2,4,5-T, mg/l	58 %	25-128 %	10 %	<48 %
Surrogate-2,4-Dichlorophenyl acetic acid (DCAA)	---	27-133 %	---	---
Batch ID	SG102303Q	---	SG102303Q	---

LOG NO: T3-74651
Received: 18 OCT 03
Reported: 29 OCT 03

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11181 St. Johns Industrial Parkway, N
Jacksonville, FL 32246

Client PO. No.: 0103-329-09
Cl Project No: 171591

Project: JETC and Building 271
Sampled By: Client
Code: 111731029
Page 27

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
74651-7	Lab Control Standard Duplicate % Recovery		JETC04
74651-8	LCS Accuracy Control Limit (%R)		JETC04
74651-9	Precision (%RPD) of LCS/LCSD		JETC04
74651-10	LCS Precision Control Limit (Advisory) %RPD		JETC04

PARAMETER	74651-7	74651-8	74651-9	74651-10
TAL Metals (6010)				
Aluminum, %	100 %	75-125 %	0 %	<20 %
Antimony, %	98 %	75-125 %	0 %	<20 %
Arsenic, %	100 %	75-125 %	0 %	<20 %
Barium, %	100 %	75-125 %	0 %	<20 %
Beryllium, %	100 %	75-125 %	0 %	<20 %
Cadmium, %	100 %	75-125 %	0 %	<20 %
Calcium, %	100 %	75-125 %	0 %	<20 %
Chromium, %	100 %	75-125 %	0 %	<20 %
Cobalt, %	98 %	75-125 %	0 %	<20 %
Copper, %	100 %	75-125 %	0 %	<20 %
Iron, %	100 %	75-125 %	0 %	<20 %
Lead, %	96 %	75-125 %	2.0 %	<20 %
Magnesium, %	100 %	75-125 %	0 %	<20 %
Manganese, %	98 %	75-125 %	0 %	<20 %
Nickel, %	98 %	75-125 %	0 %	<20 %
Potassium, %	100 %	75-125 %	0 %	<20 %
Selenium, %	100 %	75-125 %	0 %	<20 %
Silver, %	120 %	75-125 %	18 %	<20 %
Sodium, %	100 %	75-125 %	0 %	<20 %
Thallium, %	100 %	75-125 %	0 %	<20 %
Vanadium, %	100 %	75-125 %	0 %	<20 %
Zinc, %	98 %	75-125 %	2.0 %	<20 %
Batch ID	ME102203L	---	ME102203L	---

DATA DELIVERABLES

VOLATILE ORGANIC COMPOUNDS
Method 8260

CASE NARRATIVE

CASE NARRATIVE
GC/MS VOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 5030
Cleanup: N/A
Analysis: SW-846 8260

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/29/03

Timothy Preston
Project Manager

0036

FORMS

VOLATILE ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23037

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
67-64-1	ACETONE	25	U
75-15-0	CARBON DISULFIDE	1.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-2	cis-1,2-DICHLOROETHENE	1.0	U
540-59-0	1,2-DICHLOROETHENE (total)	1.0	U
67-66-3	CHLOROFORM	1.0	U
78-93-3	2-BUTANONE	10	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	1.0	U
108-88-3	TOLUENE	1.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	10	U
591-78-6	2-HEXANONE	10	U
127-18-4	TETRACHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
108-38-3	m,p-XYLENE	2.0	U
95-47-6	o-XYLENE	1.0	U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23037

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	2.0	U
100-42-5	STYRENE	1.0	U
75-25-2	BROMOFORM	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U

FORM I VOA

0039

VOLATILE ORGANICS ANALYSIS DATA SHEET

1G102303MB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1G102303MB

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23021

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
67-64-1	ACETONE	25	U
75-15-0	CARBON DISULFIDE	1.0	U
75-09-2	METHYLENE CHLORIDE	5.0	U
156-60-5	trans-1,2-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-2	cis-1,2-DICHLOROETHENE	1.0	U
540-59-0	1,2-DICHLOROETHENE (total)	1.0	U
67-66-3	CHLOROFORM	1.0	U
78-93-3	2-BUTANONE	10	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
10061-01-5	cis-1,3-DICHLOROPROPENE	1.0	U
108-88-3	TOLUENE	1.0	U
10061-02-6	trans-1,3-DICHLOROPROPENE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
108-10-1	4-METHYL-2-PENTANONE (MIBK)	10	U
591-78-6	2-HEXANONE	10	U
127-18-4	TETRACHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
108-38-3	m,p-XYLENE	2.0	U
95-47-6	o-XYLENE	1.0	U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

1G102303MB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1G102303MB

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23021

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	2.0	U
100-42-5	STYRENE	1.0	U
75-25-2	BROMOFORM	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

1G102303MBLCS

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1G102303MBLCS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23016

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	9.5	
75-01-4	VINYL CHLORIDE	8.7	
74-83-9	BROMOMETHANE	8.1	
75-00-3	CHLOROETHANE	10	
75-35-4	1,1-DICHLOROETHENE	11	
67-64-1	ACETONE	120	
75-15-0	CARBON DISULFIDE	11	
75-09-2	METHYLENE CHLORIDE	11	
156-60-5	trans-1,2-DICHLOROETHENE	10	
75-34-3	1,1-DICHLOROETHANE	9.8	
156-59-2	cis-1,2-DICHLOROETHENE	10	
540-59-0	1,2-DICHLOROETHENE (total)	20	
67-66-3	CHLOROFORM	10	
78-93-3	2-BUTANONE	84	
71-55-6	1,1,1-TRICHLOROETHANE	9.6	
56-23-5	CARBON TETRACHLORIDE	11	
107-06-2	1,2-DICHLOROETHANE	10	
71-43-2	BENZENE	10	
79-01-6	TRICHLOROETHENE	9.5	
78-87-5	1,2-DICHLOROPROPANE	10	
75-27-4	BROMODICHLOROMETHANE	10	
10061-01-5	cis-1,3-DICHLOROPROPENE	10	
108-88-3	TOLUENE	9.5	
10061-02-6	trans-1,3-DICHLOROPROPENE	10	
79-00-5	1,1,2-TRICHLOROETHANE	10	
108-10-1	4-METHYL-2-PENTANONE (MIBK)	85	
591-78-6	2-HEXANONE	84	
127-18-4	TETRACHLOROETHENE	8.2	
124-48-1	DIBROMOCHLOROMETHANE	9.9	
108-90-7	CHLOROBENZENE	9.8	
100-41-4	ETHYLBENZENE	9.4	
108-38-3	m,p-XYLENE	20	
95-47-6	o-XYLENE	9.7	

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

1G102303MBLCS

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1G102303MBLCS

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23016

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	29	
100-42-5	STYRENE	9.7	
75-25-2	BROMOFORM	9.4	
79-34-5	1,1,2,2-TETRACHLOROETHANE	9.2	

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

1G102303MBLCSD

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1G102303MBLCSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23017

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	9.3	
75-01-4	VINYL CHLORIDE	7.8	
74-83-9	BROMOMETHANE	6.9	
75-00-3	CHLOROETHANE	10	
75-35-4	1,1-DICHLOROETHENE	8.9	
67-64-1	ACETONE	98	
75-15-0	CARBON DISULFIDE	8.8	
75-09-2	METHYLENE CHLORIDE	8.3	
156-60-5	trans-1,2-DICHLOROETHENE	7.4	
75-34-3	1,1-DICHLOROETHANE	8.2	
156-59-2	cis-1,2-DICHLOROETHENE	9.2	
540-59-0	1,2-DICHLOROETHENE (total)	17	
67-66-3	CHLOROFORM	9.4	
78-93-3	2-BUTANONE	110	
71-55-6	1,1,1-TRICHLOROETHANE	9.3	
56-23-5	CARBON TETRACHLORIDE	9.4	
107-06-2	1,2-DICHLOROETHANE	11	
71-43-2	BENZENE	9.6	
79-01-6	TRICHLOROETHENE	9.8	
78-87-5	1,2-DICHLOROPROPANE	10	
75-27-4	BROMODICHLOROMETHANE	10	
10061-01-5	cis-1,3-DICHLOROPROPENE	10	
108-88-3	TOLUENE	9.1	
10061-02-6	trans-1,3-DICHLOROPROPENE	10	
79-00-5	1,1,2-TRICHLOROETHANE	11	
108-10-1	4-METHYL-2-PENTANONE (MIBK)	120	
591-78-6	2-HEXANONE	130	
127-18-4	TETRACHLOROETHENE	7.8	
124-48-1	DIBROMOCHLOROMETHANE	9.4	
108-90-7	CHLOROBENZENE	9.9	
100-41-4	ETHYLBENZENE	9.7	
108-38-3	m,p-XYLENE	19	
95-47-6	o-XYLENE	10	

FORM I VOA

0044

VOLATILE ORGANICS ANALYSIS DATA SHEET

1G102303MBLCSD

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1G102303MBLCSD

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 1GJ23017

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/23/03

GC Column: DB-624 60M ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1330-20-7	XYLENE (total)	30	
100-42-5	STYRENE	11	
75-25-2	BROMOFORM	9.5	
79-34-5	1,1,2,2-TETRACHLOROETHANE	13	

FORM I VOA

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

	CLIENT SAMPLE NO.	SMC1 (DFM) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER (DCB) #	TOT OUT
01	1G102303MBLC	108	112	108	116	0
02	1G102303MBLC	100	108	116	116	0
03	1G102303MB	104	108	104	124	0
04	74651-1	104	112	104	124	0
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (DFM)	= DIBROMFLUOROMETHANE	(70-130)
SMC2 (TOL)	= TOLUENE-d8	(77-122)
SMC3 (BFB)	= p-BROMOFLUOROBENZENE	(74-126)
OTHER (DCB)	= 1,2-DICHLOROBENZENE d4	(70-130)

Column to be used to flag recovery values

* Values outside of laboratory QC limits

D System Monitoring Compound diluted out

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Matrix Spike - Sample No.: 1G102303MB

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONC (ug/L)	LCS CONC (ug/L)	LCS % REC#	QC. LIMITS REC.
BENZENE	10	0.00	10	100	62-135
CHLOROBENZENE	10	0.00	9.8	98	72-127
1,1-DICHLOROETHENE	10	0.00	11	110	46-147
TOLUENE	10	0.00	9.5	95	68-131
TRICHLOROETHENE	10	0.00	9.5	95	56-143

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONC (ug/L)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
BENZENE	10	9.6	96	98	4.1	37	62-135
CHLOROBENZENE	10	9.9	99	98	1.0	22	72-127
1,1-DICHLOROETHENE	10	8.9	89	100	21	30	46-147
TOLUENE	10	9.1	91	93	4.3	33	68-131
TRICHLOROETHENE	10	9.8	98	96	3.1	35	56-143

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

VOLATILE METHOD BLANK SUMMARY

1G102303MB

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Lab File ID: 1GJ23021 Lab Sample ID: 1G102303MB

Date Analyzed: 10/23/03 Time Analyzed: 1720

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: TVMG5973

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	1G102303MBLC	1G102303MBLCS	1GJ23016	1607
02	1G102303MBLC	1G102303MBLCSD	1GJ23017	1621
03	74651-1	086-DWC-S-1017	1GJ23037	2113
04				
05				
06				
07				
08				
09				
10				
11				
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29				
30				

COMMENTS:

FORM IV VOA

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Lab File ID: 1GJ23001 BFB Injection Date: 10/23/03

Instrument ID: TVMG5973 BFB Injection Time: 1216

GC Column: DB-624 60 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.6
75	30.0 - 66.0% of mass 95	46.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 120.0% of mass 95	87.5
175	4.0 - 9.0% of mass 174	7.0 (8.0)1
176	93.0 - 101.0% of mass 174	83.8 (95.8)1
177	5.0 - 9.0% of mass 176	5.7 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001DS	VSTD001DS	1GJ23003	10/23/03	1257
02	VSTD005GR	VSTD005GR	1GJ23004	10/23/03	1312
03	VSTD005DS	VSTD005DS	1GJ23005	10/23/03	1326
04	VSTD010GR	VSTD010GR	1GJ23006	10/23/03	1341
05	VSTD010DS	VSTD010DS	1GJ23007	10/23/03	1355
06	VSTD020GR	VSTD020GR	1GJ23008	10/23/03	1410
07	VSTD020DS	VSTD020DS	1GJ23009	10/23/03	1424
08	VSTD030GR	VSTD030GR	1GJ23010	10/23/03	1439
09	VSTD030DS	VSTD030DS	1GJ23011	10/23/03	1454
10	VSTD040GR	VSTD040GR	1GJ23012	10/23/03	1509
11	VSTD040DS	VSTD040DS	1GJ23013	10/23/03	1523
12	VSTD060GR	VSTD060GR	1GJ23014	10/23/03	1538
13	VSTD060DS	VSTD060DS	1GJ23015	10/23/03	1552
14	1G102303MBLC	1G102303MBLCS	1GJ23016	10/23/03	1607
15	1G102303MBLC	1G102303MBLCSD	1GJ23017	10/23/03	1621
16	1G102303MB	1G102303MB	1GJ23021	10/23/03	1720
17	74651-1	086-DWC-S-1017	1GJ23037	10/23/03	2113
18					
19					
20					
21					
22					

FORM V VOA

VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Instrument ID: TVMG5973 Calibration Date(s): 10/23/03 10/23/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1243 1552

LAB FILE ID: RT1: 1GJ23003 RT2: 1GJ23005 RT3: 1GJ23007
RT4: 1GJ23009 RT5: 1GJ23011

COMPOUND	RT1	RT2	RT3	RT4	RT5
CHLOROMETHANE	1.061	1.061	1.061	1.061	1.064
VINYL CHLORIDE	1.104	1.104	1.103	1.103	1.107
BROMOMETHANE	1.232	1.231	1.231	1.231	1.228
CHLOROETHANE	1.262	1.268	1.267	1.268	1.265
1,1-DICHLOROETHENE	1.554	1.568	1.565	1.567	1.567
ACETONE	1.561	1.592	1.608	1.609	1.597
CARBON DISULFIDE	1.652	1.665	1.663	1.664	1.664
METHYLENE CHLORIDE	1.713	1.726	1.730	1.731	1.725
trans-1,2-DICHLOROETHENE	1.816	1.829	1.827	1.828	1.829
1,1-DICHLOROETHANE	1.968	1.982	1.979	1.980	1.981
cis-1,2-DICHLOROETHENE	2.187	2.201	2.198	2.199	2.200
CHLOROFORM	2.309	2.316	2.320	2.321	2.321
2-BUTANONE	2.187	2.201	2.204	2.205	2.206
1,1,1-TRICHLOROETHANE	2.406	2.420	2.417	2.418	2.419
CARBON TETRACHLORIDE	2.485	2.493	2.496	2.491	2.492
1,2-DICHLOROETHANE	2.564	2.572	2.569	2.570	2.571
BENZENE	2.570	2.578	2.575	2.576	2.577
TRICHLOROETHENE	2.856	2.858	2.861	2.862	2.863
1,2-DICHLOROPROPANE	2.960	2.967	2.965	2.966	2.966
BROMODICHLOROMETHANE	3.081	3.089	3.092	3.087	3.088
cis-1,3-DICHLOROPROPENE	3.313	3.320	3.318	3.319	3.319
TOLUENE	3.507	3.508	3.512	3.513	3.514
trans-1,3-DICHLOROPROPENE	3.611	3.612	3.610	3.611	3.611
1,1,2-TRICHLOROETHANE	3.714	3.715	3.719	3.720	3.721
4-METHYL-2-PENTANONE (MIBK)	3.392	3.387	3.391	3.392	3.392
2-HEXANONE	3.854	3.855	3.859	3.854	3.854
TETRACHLOROETHENE	3.824	3.825	3.829	3.830	3.830
DIBROMOCHLOROMETHANE	3.957	3.959	3.956	3.957	3.958
CHLOROBENZENE	4.335	4.336	4.333	4.335	4.335
ETHYLBENZENE	4.402	4.403	4.400	4.401	4.402
m,p-XYLENE	4.475	4.476	4.473	4.474	4.475
o-XYLENE	4.730	4.731	4.735	4.736	4.730
STYRENE	4.736	4.737	4.741	4.742	4.736
BROMOFORM	4.858	4.859	4.857	4.858	4.858
1,1,2,2-TETRACHLOROETHANE	5.162	5.157	5.161	5.162	5.162
DIBROMFLUOROMETHANE		2.383	2.387	2.388	2.388
TOLUENE-d8		3.472	3.476	3.477	3.477

FORM VI VOA

VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Instrument ID: TVMG5973 Calibration Date(s): 10/23/03 10/23/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1243 1552

LAB FILE ID: RT1: 1GJ23003 RT2: 1GJ23005 RT3: 1GJ23007
RT4: 1GJ23009 RT5: 1GJ23011

COMPOUND	RT1	RT2	RT3	RT4	RT5
p-BROMOFLUOROBENZENE		5.078	5.076	5.077	5.077
1,2-DICHLOROBENZENE d4		6.149	6.146	6.147	6.148

FORM VI VOA

VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Instrument ID: TVMG5973 Calibration Date(s): 10/23/03 10/23/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1243 1552

LAB FILE ID: RT6: 1GJ23013 RT7: 1GJ23015

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
CHLOROMETHANE	1.059	1.061	1.061	0.908	1.213
VINYL CHLORIDE	1.108	1.103	1.105	0.951	1.256
BROMOMETHANE			1.231	1.079	1.384
CHLOROETHANE	1.266	1.261	1.265	1.109	1.414
1,1-DICHLOROETHENE	1.565	1.566	1.565	1.403	1.706
ACETONE	1.608	1.627	1.600	1.409	1.712
CARBON DISULFIDE	1.669		1.663	1.500	1.803
METHYLENE CHLORIDE	1.730	1.730	1.726	1.561	1.864
trans-1,2-DICHLOROETHENE	1.827	1.828	1.826	1.664	1.968
1,1-DICHLOROETHANE	1.979	1.980	1.978	1.816	2.120
cis-1,2-DICHLOROETHENE	2.198	2.199	2.197	2.035	2.339
CHLOROFORM	2.320	2.320	2.318	2.157	2.460
2-BUTANONE	2.210	2.217	2.204	2.024	2.350
1,1,1-TRICHLOROETHANE	2.417	2.418	2.416	2.243	2.569
CARBON TETRACHLORIDE	2.496	2.497	2.493	2.322	2.648
1,2-DICHLOROETHANE	2.569	2.570	2.569	2.401	2.727
BENZENE	2.575	2.576	2.575	2.407	2.733
TRICHLOROETHENE	2.861	2.862	2.861	2.693	3.019
1,2-DICHLOROPROPANE	2.965	2.965	2.965	2.797	3.123
BROMODICHLOROMETHANE	3.092	3.093	3.089	2.918	3.244
cis-1,3-DICHLOROPROPENE	3.317	3.318	3.318	3.150	3.476
TOLUENE	3.512	3.513	3.511	3.344	3.670
trans-1,3-DICHLOROPROPENE	3.609	3.610	3.611	3.448	3.774
1,1,2-TRICHLOROETHANE	3.719	3.720	3.718	3.551	3.877
4-METHYL-2-PENTANONE (MIBK)	3.390	3.391	3.391	3.133	3.651
2-HEXANONE	3.859	3.859	3.856	3.595	4.113
TETRACHLOROETHENE	3.828	3.829	3.828	3.565	4.083
DIBROMOCHLOROMETHANE	3.956	3.957	3.957	3.698	4.216
CHLOROBENZENE	4.339	4.340	4.336	4.076	4.594
ETHYLBENZENE	4.400	4.401	4.401	4.143	4.660
m,p-XYLENE	4.473	4.474	4.474	4.216	4.733
o-XYLENE	4.735	4.735	4.733	4.471	4.989
STYRENE	4.741	4.742	4.739	4.477	4.995
BROMOFORM	4.857	4.863	4.858	4.599	5.117
1,1,2,2-TETRACHLOROETHANE	5.161	5.161	5.161	4.903	5.421
DIBROMFLUOROMETHANE	2.387	2.387	2.387	2.235	2.540
TOLUENE-d8	3.476	3.476	3.476	3.313	3.640

FORM VI VOA

VOLATILE INITIAL CALIBRATION DATA

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Instrument ID: TVMG5973 Calibration Date(s): 10/23/03 10/23/03

Column: DB-624 60M ID: 0.32 (mm) Calibration Time(s): 1243 1552

LAB FILE ID: RT6: 1GJ23013 RT7: 1GJ23015

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
p-BROMOFLUOROBENZENE	5.076	5.076	5.077	4.818	5.335
1,2-DICHLOROBENZENE d4	6.146	6.153	6.148	5.799	6.506

FORM VI VOA

0053

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lab Code:

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1GJ23015 Date Analyzed: 10/23/03

Instrument ID: TVMG5973 Time Analyzed: 1552

GC Column: DB-624 6 ID: 0.32 (mm) Heated Purge: (Y/N) N

		IS1(DCA) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	113111	2.54	311917	2.72	95640	4.32
	UPPER LIMIT	226222	3.04	623834	3.22	191280	4.82
	LOWER LIMIT	56556	2.04	155959	2.22	47820	3.82
	CLIENT SAMPLE NO.						
01	1G102303MBLC	109606	2.53	293879	2.72	93069	4.32
02	1G102303MBLC	90161	2.53	224346	2.72	69853	4.32
03	1G102303MB	105843	2.54	269364	2.72	83921	4.32
04	74651-1	110815	2.54	281044	2.72	87858	4.32
05							
06							
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22							

IS1 (DCA) = 1,2-DICHLOROETHANE-d4
IS2 (DFB) = 1,4-DIFLUOROBENZENE
IS3 (CBZ) = CHLOROBENZENE-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

ANALYSIS LOG(S)

Client SDG: JETC04 Sample Fraction: VOA

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
3754111	1G1023.b	1GJ23001.D	BFB	1G102303BFB	1G102303BFB	3754110		
3754111	1G1023.b	1GJ23003.D	CALIB_1	VSTD001DS	VSTD001DS	3754160		
3754111	1G1023.b	1GJ23004.D	CALIB_2	VSTD005GR	VSTD005GR	3754161		
3754111	1G1023.b	1GJ23005.D	CALIB_2	VSTD005DS	VSTD005DS	3754162		
3754111	1G1023.b	1GJ23006.D	CALIB_3	VSTD010GR	VSTD010GR	3754163		
3754111	1G1023.b	1GJ23007.D	CALIB_3	VSTD010DS	VSTD010DS	3754164		
3754111	1G1023.b	1GJ23008.D	CALIB_4	VSTD020GR	VSTD020GR	3754165		
3754111	1G1023.b	1GJ23009.D	CALIB_4	VSTD020DS	VSTD020DS	3754166		
3754111	1G1023.b	1GJ23010.D	CALIB_5	VSTD030GR	VSTD030GR	3754167		
3754111	1G1023.b	1GJ23011.D	CALIB_5	VSTD030DS	VSTD030DS	3754168		
3754111	1G1023.b	1GJ23012.D	CALIB_6	VSTD040GR	VSTD040GR	3754169		
3754111	1G1023.b	1GJ23013.D	CALIB_6	VSTD040DS	VSTD040DS	3754170		
3754111	1G1023.b	1GJ23014.D	CALIB_7	VSTD060GR	VSTD060GR	3754171		
3754111	1G1023.b	1GJ23015.D	CALIB_7	VSTD060DS	VSTD060DS	3754172		
3754111	1G1023.b	1GJ23016.D	LCS	1G102303MBLCS	1G102303MBLCS	3754185	VM102103P	JETC04
3754111	1G1023.b	1GJ23017.D	LCSD	1G102303MBLCSD	1G102303MBLCSD	3754186	VM102103P	JETC04
3754111	1G1023.b	1GJ23021.D	BLANK	1G102303MB	1G102303MB	3754190	VM102103P	JETC04
3754111	1G1023.b	1GJ23037.D	SAMPLE	74651-1	086-DWC-S-1017-0	3754284	VM102103P	JETC04

VOA INSTRUMENT LOG - GC/MS

Date: 10/20/03	Analyst: CMR	ICAL/CCAL	
Inst. ID: TVMS	Sequence: 16/023	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5
Tune File: ATUNE.U		Time: 3.530	Time: 4.319
Tune Method: MSSAV	EM Voltage: 1929	Area: 303870	Area: 863813
Analysis Method: ↓	EM Voltage: ↓	2nd ISTD: 1,4-Difluorobenzene	4th ISTD: 1, 4-DCB-d4
ICAL Files:		Time: 2.713	Time: 5.882
Daily Clock ID: 16023		Area: 685407	Area: 941596
ICAL/Clock ID: 16023			
Analytical Method: 8260B or 624 or 524.2			

Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
BFB	56-11-71-5	25		
HL INT	56-11-66-B			
SURR	↓ -9			
INT SURR	56-11-67-4	↓		
DAILY1	56-11-70-1	5/100/200		
DAILY2	↓ -2	20/100/1000		
GASES1	56-11-71-1	5/50		
GASES2	↓ -2	20/200		
REACT	56-11-72-1	10/100		
REACTSPK	↓ -2	10/100		
VMSS FL SPK	56-11-71-6	25		
LC GASES	56-11-69-9	10		

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Load Initials	Target Sublist	Comments
16T23001	—	BFB TUNE	32	5mL	1.0	—	B260	—	ok	CMR		
02		VSTD 00 1 GR	1									
03		↓ DS	2									
04		05 GR	3									
05		↓ DS	4									
06		10 GR	5									
07		↓ DS	6									
08		20 GR	7									
09		↓ DS	8									
10		30 GR	9									
11		↓ DS	10									
12		40 GR	11									
13		↓ DS	12									
14		60 GR	13									
15		↓ ↓ DS	14									
16		16102303 MB LCS	15									
17		LCSD	16									
18		CUB	17									
19		~~16102303 MB~~ CUB	18									
20		16102303 MB	19									
21	—	↓	20									
22	74573A-13	EB-1 10/9/03	21			VM101403P		1.5				
23	-13	↓	22									
24	-14	EB-1	23									
25	-14	↓	24									
26	-15	EB-2	25									
27	-15	↓	26									
28	-16	FB-2	27									
29	-16	↓	28									
30	-17	TB	29									
31	-17	↓	30									
32	74634-1	TW-2	31	1mL/5mL	5mL/5mL	5,000,000	VM101703N		7.0			unpreserved

0037

VOA INSTRUMENT LOG - GC/MS

Date: 10/23/03 cont.	Analyst: CHR	ICAL/CCAL		Standard	Standard Lot #	Conc. (ug/ml)	Volume(ul)	Notes
Inst. ID:	Sequence:	1st ISTD: 1, 2-DCA-d4	3rd ISTD: Chlorobenzene-d5					
Tune File:		Time:	Time:					
Tune Method:	~~EM Voltage:~~	Area:	Area:					
Analysis Method:	EM Voltage:	2nd ISTD: ~~1,4-Difluorobenzene~~	4th ISTD: 1, 4-DCB-d4					
ICAL Files:		Time:	Time:					
Daily Clock ID:		Area:	Area:					
ICAL/Clock ID:								
Analytical Method: 8260B or 624 or 524.2							see previous page	

Data File	SL Log #	Sample Description	ALS #	Sample Vol/WT	Dilution Factor	QVM Batch	Det Code	pH	Chlorine check	Load Initials	Target Sublist	Comments
1610T23033	741634-2	EW-9R	32	25ml/5ml/5ml/5ml	2,000,000	VM101703N	8260	7.0	ok	CHR		unpreserved
34	-5	TB-07	1	5ml	1.0							
35	-6	-08	2									
36	-7	-09	3									
37	741651-1	OB6-DWC-S-1017-03	4			VM102103P		1.5				
38	741601-1	B-2	5			VM101703M						
39		1610T23033 MB	6									
40		LCS	7									
41		LCSD	8									
42	74550-1	MW-11	9			VM101703R						
43	-2	-2	10									
44	-3	-4	11									
45	-4	-5	12									
46	74564-1	MW-5	13									
47	-2	-5I	14									
48	-3	-5D	15									
49	-4	-DUP-01	16									
50	-5	EFF	17									

NFE CHR 10/23/03

0058

2 of 2

0043

SEMIVOLATILE ORGANIC COMPOUNDS
Method 8270

CASE NARRATIVE

CASE NARRATIVE
GC/MS SEMIVOLATILE ORGANICS

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8270

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: The recovery for 2-Fluorobiphenyl was outside the established limit for the Laboratory Control Standard Duplicate.

Spikes: The Relative Percent Difference (%RPD) value for Pentachlorophenol was outside advisory limits.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/29/03

Timothy Preston
Project Manager

FORMS

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B3102421

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/24/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	2.2	J
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	3&4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethyphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2.1	J
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B3102421

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/24/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenylphenylether	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	2-Methyl-4,6-dinitrophenol	50	U
86-30-6	Diphenylamine/n-Nitrosodiphe	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM102203CLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) AIR Lab Sample ID: SM102203CLB

Sample wt/vol: _____ (g/mL) ML Lab File ID: B3102418

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/24/03

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	3&4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethyphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM102203CLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) AIR Lab Sample ID: SM102203CLB

Sample wt/vol: _____ (g/mL) ML Lab File ID: B3102418

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/24/03

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenylphenylether	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	2-Methyl-4,6-dinitrophenol	50	U
86-30-6	Diphenylamine/n-Nitrosodiphe	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM102203CLBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: SM102203CLBLCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A3102709

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/27/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	88	
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	78	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	40	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	3&4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	45	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethyphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	0.70	J
120-82-1	1,2,4-Trichlorobenzene	40	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	82	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	43	

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM102203CLBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: SM102203CLBLCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A3102709

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/27/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	81	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	42	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenylphenylether	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	2-Methyl-4,6-dinitrophenol	50	U
86-30-6	Diphenylamine/n-Nitrosodiphe	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	75	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	56	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.68	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM102203CLBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: SM102203CLBLCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A3102711

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/27/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	93	
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	86	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	41	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	3&4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	34	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	4.6	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethyphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	42	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	88	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	53	

FORM I SV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SM102203CLBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: SM102203CLBLCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A3102711

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 1(mL) Date Analyzed: 10/27/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	110	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	58	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenylphenylether	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	2-Methyl-4,6-dinitrophenol	50	U
86-30-6	Diphenylamine/n-Nitrosodiphe	10	U
101-55-3	4-Bromophenylphenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	120	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	53	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM I SV

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

	CLIENT SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	SM102203CLB	64	59	60	72	52	84			0
02	74651-1	55	52	74	88	70	40			0
03	SM102203CLBL	81	84	92	110	88	108			0
04	SM102203CLBL	80	64	88	140*	110	144			1
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
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25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(29-121)
S2 (PHL)	= Phenol-d5	(25-128)
S3 (NBZ)	= Nitrobenzene-d5	(34-130)
S4 (FBP)	= 2-Fluorobiphenyl	(36-124)
S5 (TBP)	= 2,4,6-Tribromophenol	(29-143)
S6 (TPH)	= Terphenyl-d14	(14-148)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix Spike - Sample No.: SM102203CLB

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONC (ug/l)	LCS CONC (ug/l)	LCS % REC#	QC. LIMITS REC.
Phenol	100	0.00	88	88	33-122
2-Chlorophenol	100	0.00	78	78	38-115
1,4-Dichlorobenzene	50	0.00	40	80	27-103
n-Nitroso-di-n-prop.(1)	50	0.00	45	90	31-138
1,2,4-Trichlorobenzene	50	0.00	40	80	28-110
4-Chloro-3-methylphenol	100	0.00	82	82	34-126
Acenaphthene	50	0.00	43	86	36-121
4-Nitrophenol	100	0.00	81	81	12-143
2,4-Dinitrotoluene	50	0.00	42	84	37-129
Pentachlorophenol	100	0.00	75	75	19-148
Pyrene	50	0.00	56	112	31-139

COMPOUND	SPIKE ADDED (ug/l)	LCSD CONC (ug/l)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	93	93	90	5.5	36	33-122
2-Chlorophenol	100	86	86	82	9.8	34	38-115
1,4-Dichlorobenzene	50	41	82	81	2.5	31	27-103
n-Nitroso-di-n-prop.(1)	50	34	68	79	28	30	31-138
1,2,4-Trichlorobenzene	50	42	84	82	4.9	28	28-110
4-Chloro-3-methylphenol	100	88	88	85	7.0	31	34-126
Acenaphthene	50	53	106	96	21	35	36-121
4-Nitrophenol	100	110	110	96	30	44	12-143
2,4-Dinitrotoluene	50	58	116	100	32	32	37-129
Pentachlorophenol	100	120	120	98	46*	33	19-148
Pyrene	50	53	106	109	5.5	42	31-139

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM III SV

0072

SEMIVOLATILE METHOD BLANK SUMMARY

SM102203CLB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: B3102418 Lab Sample ID: SM102203CLB

Instrument ID: TSMB5973 Date Extracted: 10/22/03

Matrix: (soil/water) WATER Date Analyzed: 10/24/03

Level:(low/med) LOW Time Analyzed: 1702

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	74651-1	086-DWC-S-1017	B3102421	10/24/03
02	SM102203CLBL	SM102203CLBLCS	A3102709	10/27/03
03	SM102203CLBL	SM102203CLBLCS	A3102711	10/27/03
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COMMENTS:

FORM IV SV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: B3102308 DFTPP Injection Date: 10/23/03

Instrument ID: TSMB5973 DFTPP Injection Time: 1425

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	51.5	
68	Less than 2.0% of mass 69	0.4	(1.0)1
69	Mass 69 relative abundance	43.6	
70	Less than 2.0% of mass 69	0.3	(0.6)1
127	25.0 - 75.0% of mass 198	49.6	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	5.4	
275	10.0 - 30.0% of mass 198	20.4	
365	Greater than 0.75% of mass 198	2.21	
441	Present, but less than mass 443	6.6	
442	40.0 - 110.0% of mass 198	46.3	
443	15.0 - 24.0% of mass 442	8.7	(18.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA004	BNA004	B3102309	10/23/03	1439
02	BNA010	BNA010	B3102310	10/23/03	1506
03	BNA020	BNA020	B3102311	10/23/03	1533
04	BNA050	BNA050	B3102312	10/23/03	1600
05	BNA080	BNA080	B3102313	10/23/03	1628
06	BNA100	BNA100	B3102314	10/23/03	1655
07	BNA120	BNA120	B3102315	10/23/03	1722
08	BNA160	BNA160	B3102316	10/23/03	1748
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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: B3102401 DFTPP Injection Date: 10/24/03

Instrument ID: TSMB5973 DFTPP Injection Time: 0934

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.5
68	Less than 2.0% of mass 69	0.3 (0.8)1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	53.1
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	21.1
365	Greater than 0.75% of mass 198	2.15
441	Present, but less than mass 443	7.3
442	40.0 - 110.0% of mass 198	62.3
443	15.0 - 24.0% of mass 442	11.3 (18.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA100	BNA100	B3102402	10/24/03	0948
02	SM102203CLB	SM102203CLB	B3102418	10/24/03	1702
03	74651-1	086-DWC-S-1017	B3102421	10/24/03	1823
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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: A3102405 DFTPP Injection Date: 10/24/03

Instrument ID: TSMA5973 DFTPP Injection Time: 1445

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	59.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 0.75% of mass 198	2.28
441	Present, but less than mass 443	10.1
442	40.0 - 110.0% of mass 198	70.9
443	15.0 - 24.0% of mass 442	13.4 (18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA004	BNA004	A3102406	10/24/03	1500
02	BNA010	BNA010	A3102407	10/24/03	1526
03	BNA020	BNA020	A3102408	10/24/03	1551
04	BNA050	BNA050	A3102409	10/24/03	1617
05	BNA080	BNA080	A3102410	10/24/03	1641
06	BNA100	BNA100	A3102411	10/24/03	1707
07	BNA120	BNA120	A3102412	10/24/03	1731
08	BNA160	BNA160	A3102413	10/24/03	1756
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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: A3102701 DFTPP Injection Date: 10/27/03

Instrument ID: TSMA5973 DFTPP Injection Time: 0903

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	43.7	
68	Less than 2.0% of mass 69	0.5	(1.3)1
69	Mass 69 relative abundance	35.0	
70	Less than 2.0% of mass 69	0.0	(0.0)1
127	25.0 - 75.0% of mass 198	59.0	
197	Less than 1.0% of mass 198	0.1	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.6	
275	10.0 - 30.0% of mass 198	18.6	
365	Greater than 0.75% of mass 198	2.17	
441	Present, but less than mass 443	9.1	
442	40.0 - 110.0% of mass 198	55.3	
443	15.0 - 24.0% of mass 442	11.1	(20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA100	BNA100	A3102702	10/27/03	0917
02	SM102203CLBL	SM102203CLBLCS	A3102709	10/27/03	1338
03	SM102203CLBL	SM102203CLBLCS	A3102711	10/27/03	1428
04					
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SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date(s): 10/23/03 10/23/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1439 1748

LAB FILE ID: RF4: B3102309 RF10: B3102310 RF20: B3102311
RF50: B3102312 RF80: B3102313

COMPOUND	RF4	RF10	RF20	RF50	RF80
Phenol	0.540	0.714	0.766	0.762	0.750
Bis(2-chloroethyl)ether	0.851	1.096	1.170	1.172	1.158
2-Chlorophenol	0.639	0.867	0.927	0.906	0.914
1,3-Dichlorobenzene	0.512	0.716	0.752	0.749	0.763
1,4-Dichlorobenzene	0.504	0.725	0.743	0.769	0.776
1,2-Dichlorobenzene	0.569	0.806	0.799	0.809	0.818
2-Methylphenol	0.910	1.203	1.277	1.286	1.291
bis(2-Chloroisopropyl)ether	0.320	0.438	0.449	0.474	0.480
3&4-Methylphenol	0.732	0.908	0.943	0.890	0.912
n-Nitroso-di-n-propylamine	1.019	1.306	1.300	1.373	1.382
Hexachloroethane	1.410	1.881	1.865	1.933	1.963
Nitrobenzene	2.583	3.476	3.877	3.478	3.688
Isophorone	1.294	1.824	1.922	1.857	1.968
2-Nitrophenol	6.479	9.036	9.063	7.723	8.069
2,4-Dimethyphenol	2.680	3.728	4.224	3.970	4.229
Bis(2-chloroethoxy)methane	2.399	2.946	3.364	3.171	3.250
2,4-Dichlorophenol	3.014	4.203	4.470	4.024	4.237
1,2,4-Trichlorobenzene	2.350	3.081	3.434	3.630	3.714
Naphthalene	0.772	1.002	1.129	1.150	1.185
4-Chloroaniline	2.165	2.832	3.109	2.760	2.933
Hexachlorobutadiene	4.378	5.693	6.130	6.230	6.226
4-Chloro-3-methylphenol	3.103	4.790	5.079	4.342	4.404
2-Methylnaphthalene	1.362	1.941	2.061	2.037	2.136
Hexachlorocyclopentadiene	3.032	3.749	3.997	3.358	3.524
2,4,6-Trichlorophenol	2.332	3.093	3.588	3.176	3.333
2,4,5-Trichlorophenol	2.337	2.936	3.364	3.054	3.032
2-Chloronaphthalene	0.712	0.937	1.020	1.010	1.056
2-Nitroaniline	3.444	4.384	4.482	4.062	3.951
Dimethylphthalate	0.612	0.810	0.836	0.840	0.886
Acenaphthylene	0.428	0.584	0.599	0.602	0.632
2,6-Dinitrotoluene	4.874	6.539	6.609	5.221	5.238
3-Nitroaniline	3.991	5.430	5.228	4.063	4.314
Acenaphthene	0.748	1.011	1.034	1.070	1.106
2,4-Dinitrophenol	15.982	27.814	20.591	14.655	17.072
4-Nitrophenol	4.901	5.719	8.225	6.184	6.418
Dibenzofuran	0.466	0.658	0.670	0.698	0.724
2,4-Dinitrotoluene	5.020	5.939	5.743	4.142	4.218
Diethylphthalate	0.472	0.730	0.831	0.844	0.881

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date(s): 10/23/03 10/23/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1439 1748

LAB FILE ID: RF4: B3102309 RF10: B3102310 RF20: B3102311
RF50: B3102312 RF80: B3102313

COMPOUND	RF4	RF10	RF20	RF50	RF80
Fluorene	0.624	0.820	0.874	0.859	0.900
4-Chlorophenylphenylether	1.302	1.687	1.853	1.839	1.898
4-Nitroaniline	3.463	5.253	5.450	4.171	4.210
2-Methyl-4,6-dinitrophenol	17.903	25.574	24.072	16.006	17.274
Diphenylamine/n-Nitrosodiphe	1.539	2.017	2.068	2.074	2.116
4-Bromophenylphenylether	4.432	5.840	6.147	5.926	6.277
Hexachlorobenzene	4.203	5.617	6.065	5.899	6.236
Pentachlorophenol	9.265	11.630	11.496	10.362	10.397
Phenanthrene	0.736	1.006	1.042	1.103	1.120
Anthracene	0.710	0.992	1.041	1.040	1.087
Carbazole	0.870	1.118	1.140	1.137	1.171
Di-n-butylphthalate	0.693	0.887	0.963	0.915	0.965
Fluoranthene	0.674	0.973	1.020	1.008	1.049
Pyrene	0.639	0.872	0.921	0.908	0.926
Butylbenzylphthalate	1.277	1.820	1.989	1.841	1.872
3,3'-Dichlorobenzidine	2.049	2.885	3.242	2.861	2.993
Benzo(a)anthracene	0.692	0.986	1.044	1.001	1.021
Chrysene	0.629	0.918	0.951	0.931	0.960
Bis(2-ethylhexyl)phthalate	0.968	1.318	1.487	1.361	1.394
Di-n-octylphthalate	0.533	0.834	0.891	0.835	0.858
Benzo(b)fluoranthene	0.651	0.972	0.912	0.880	0.913
Benzo(k)fluoranthene	0.656	0.805	0.897	0.878	0.887
Benzo(a)pyrene	0.735	0.931	1.008	0.967	0.994
Indeno(1,2,3-c,d)pyrene	0.771	0.928	0.969	0.907	0.932
Dibenzo(a,h)anthracene	0.801	0.994	1.094	0.996	1.036
Benzo(g,h,i)perylene	0.776	1.017	1.042	1.064	1.077
2-Fluorophenol	0.694	0.985	0.986	0.982	1.020
Phenol-d5	0.681	0.917	0.912	0.871	0.854
Nitrobenzene-d5	2.901	3.969	4.391	3.938	3.975
2-Fluorobiphenyl	0.609	0.850	0.867	0.902	0.908
2,4,6-Tribromophenol	6.340	9.430	10.021	9.657	9.111
Terphenyl-d14	1.083	1.372	1.589	1.470	1.479

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date(s): 10/23/03 10/23/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1439 1748

LAB FILE ID: RF100: B3102314 RF120: B3102315 RF160: B3102316

COMPOUND	RF100	RF120	RF160
Phenol	0.747	0.746	0.722
Bis(2-chloroethyl)ether	1.208	1.182	1.198
2-Chlorophenol	0.905	0.925	0.890
1,3-Dichlorobenzene	0.780	0.766	0.774
1,4-Dichlorobenzene	0.779	0.769	0.775
1,2-Dichlorobenzene	0.835	0.822	0.820
2-Methylphenol	1.289	1.271	1.250
bis(2-Chloroisopropyl)ether	0.486	0.480	0.497
3&4-Methylphenol	0.901	0.861	0.857
n-Nitroso-di-n-propylamine	1.420	1.355	1.364
Hexachloroethane	1.988	1.937	1.913
Nitrobenzene	3.627	3.614	3.618
Isophorone	1.896	2.002	1.950
2-Nitrophenol	7.250	7.285	6.861
2,4-Dimethyphenol	3.976	4.141	4.088
Bis(2-chloroethoxy)methane	3.164	3.287	3.254
2,4-Dichlorophenol	4.100	4.254	4.143
1,2,4-Trichlorobenzene	3.549	3.724	3.695
Naphthalene	1.173	1.217	1.226
4-Chloroaniline	2.902	2.936	2.955
Hexachlorobutadiene	6.158	6.336	6.315
4-Chloro-3-methylphenol	4.267	4.245	4.218
2-Methylnaphthalene	2.047	2.091	2.122
Hexachlorocyclopentadiene	3.301	3.176	3.008
2,4,6-Trichlorophenol	3.270	3.165	3.121
2,4,5-Trichlorophenol	3.128	3.019	2.998
2-Chloronaphthalene	1.046	1.068	1.033
2-Nitroaniline	3.882	3.831	3.341
Dimethylphthalate	0.861	0.888	0.863
Acenaphthylene	0.627	0.642	0.630
2,6-Dinitrotoluene	4.720	4.667	4.257
3-Nitroaniline	4.194	3.826	3.567
Acenaphthene	1.080	1.099	1.074
2,4-Dinitrophenol	14.914	11.900	10.242
4-Nitrophenol	6.078	6.106	5.848
Dibenzofuran	0.705	0.715	0.715
2,4-Dinitrotoluene	3.938	3.660	3.284
Diethylphthalate	0.893	0.878	0.858

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date(s): 10/23/03 10/23/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1439 1748

LAB FILE ID: RF100: B3102314 RF120: B3102315 RF160: B3102316

COMPOUND	RF100	RF120	RF160
Fluorene	0.914	0.908	0.881
4-Chlorophenylphenylether	1.902	1.853	1.847
4-Nitroaniline	4.191	3.766	3.656
2-Methyl-4,6-dinitrophenol	15.397	12.866	11.694
Diphenylamine/n-Nitrosodiphe	2.100	2.082	2.123
4-Bromophenylphenylether	6.152	6.158	5.933
Hexachlorobenzene	6.310	6.161	6.209
Pentachlorophenol	10.092	9.628	9.385
Phenanthrene	1.115	1.128	1.160
Anthracene	1.067	1.089	1.115
Carbazole	1.189	1.164	1.179
Di-n-butylphthalate	0.949	0.932	0.954
Fluoranthene	1.035	1.008	1.044
Pyrene	0.898	0.944	0.939
Butylbenzylphthalate	1.803	1.899	1.839
3,3'-Dichlorobenzidine	2.884	2.891	2.780
Benzo(a)anthracene	1.001	1.059	1.037
Chrysene	0.933	0.966	0.974
Bis(2-ethylhexyl)phthalate	1.347	1.407	1.389
Di-n-octylphthalate	0.832	0.856	0.836
Benzo(b)fluoranthene	0.930	0.979	0.922
Benzo(k)fluoranthene	0.823	0.859	0.849
Benzo(a)pyrene	0.935	1.015	0.953
Indeno(1,2,3-c,d)pyrene	0.884	0.908	0.870
Dibenzo(a,h)anthracene	0.964	1.015	0.965
Benzo(g,h,i)perylene	1.032	1.061	1.022
2-Fluorophenol	1.030	1.020	0.980
Phenol-d5	0.870	0.836	0.845
Nitrobenzene-d5	3.863	3.817	3.699
2-Fluorobiphenyl	0.916	0.941	0.901
2,4,6-Tribromophenol	9.266	9.085	8.315
Terphenyl-d14	1.443	1.525	1.494

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date(s): 10/23/03 10/23/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1439 1748

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Phenol	AVRG		1.40864		12.9
Bis(2-chloroethyl)ether	AVRG		0.89582		12.9
2-Chlorophenol	AVRG		1.16293		14.2
1,3-Dichlorobenzene	LINR	0.00000000	0.77011		1.000
1,4-Dichlorobenzene	LINR	0.00000000	0.77361		1.000
1,2-Dichlorobenzene	AVRG		1.29265		14.6
2-Methylphenol	AVRG		0.82841		13.4
bis(2-Chloroisopropyl)ether	LINR	0.00000000	0.48747		0.999
3&4-Methylphenol	AVRG		1.14809		8.2
n-Nitroso-di-n-propylamine	AVRG		0.76778		11.6
Hexachloroethane	AVRG		0.54321		12.5
Nitrobenzene	AVRG		0.29004		13.9
Isophorone	LINR	0.00000000	1.94928		0.999
2-Nitrophenol	AVRG		0.13122		12.0
2,4-Dimethyphenol	LINR	0.00000000	4.08906		0.999
Bis(2-chloroethoxy)methane	AVRG		0.32553		12.0
2,4-Dichlorophenol	AVRG		0.24977		13.6
1,2,4-Trichlorobenzene	LINR	0.00000000	3.67024		0.999
Naphthalene	LINR	0.00000000	1.20469		0.998
4-Chloroaniline	AVRG		0.35794		12.2
Hexachlorobutadiene	AVRG		0.17086		14.0
4-Chloro-3-methylphenol	LINR	0.00000000	4.26074		0.999
2-Methylnaphthalene	LINR	0.00000000	2.09776		0.999
Hexachlorocyclopentadiene	AVRG		0.29730		9.8
2,4,6-Trichlorophenol	AVRG		0.32348		13.9
2,4,5-Trichlorophenol	AVRG		0.33841		11.4
2-Chloronaphthalene	LINR	0.00000000	1.04414		0.999
2-Nitroaniline	AVRG		0.25735		10.4
Dimethylphthalate	AVRG		1.22837		13.6
Acenaphthylene	LINR	0.00000000	0.63109		0.999
2,6-Dinitrotoluene	2ORDR	0.00000000	5.64413	-1.496	0.999
3-Nitroaniline	AVRG		0.23550		14.0
Acenaphthene	AVRG		0.98730		14.6
2,4-Dinitrophenol	2ORDR	0.00000000	17.6500	-19.38	0.992
4-Nitrophenol	AVRG		0.16466		13.8
Dibenzofuran	LINR	0.00000000	0.71272		1.000
2,4-Dinitrotoluene	2ORDR	0.00000000	4.65665	-1.139	0.999
Diethylphthalate	LINR	0.00000000	0.86907		0.998

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date(s): 10/23/03 10/23/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1439 1748

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Fluorene	AVRG		1.19635		14.1
4-Chlorophenylphenylether	AVRG		0.57220		14.3
4-Nitroaniline	2ORDR	0.00000000	4.59669	-0.886	0.998
2-Methyl-4,6-dinitrophenol	2ORDR	0.00000000	18.3712	-20.08	0.994
Diphenylamine/n-Nitrosodiphe	AVRG		0.50136		12.0
4-Bromophenylphenylether	AVRG		0.17263		12.6
Hexachlorobenzene	LINR	0.00000000	6.19879		0.999
Pentachlorophenol	AVRG		9.789e-002		8.4
Phenanthrene	LINR	0.00000000	1.13566		0.999
Anthracene	LINR	0.00000000	1.09269		0.999
Carbazole	AVRG		0.90034		11.4
Di-n-butylphthalate	AVRG		1.11410		12.2
Fluoranthene	LINR	0.00000000	1.03164		0.999
Pyrene	LINR	0.00000000	0.92953		0.999
Butylbenzylphthalate	LINR	0.00000000	1.85060		0.999
3,3'-Dichlorobenzidine	AVRG		0.35989		15.0
Benzo(a)anthracene	LINR	0.00000000	1.03185		0.999
Chrysene	LINR	0.00000000	0.96081		0.999
Bis(2-ethylhexyl)phthalate	AVRG		0.76109		14.8
Di-n-octylphthalate	LINR	0.00000000	0.84219		0.999
Benzo(b)fluoranthene	AVRG		1.13455		14.7
Benzo(k)fluoranthene	AVRG		1.21308		11.0
Benzo(a)pyrene	AVRG		1.07130		11.3
Indeno(1,2,3-c,d)pyrene	AVRG		1.12060		7.1
Dibenzo(a,h)anthracene	AVRG		1.02456		9.6
Benzo(g,h,i)perylene	AVRG		0.99870		11.9
2-Fluorophenol	AVRG		1.05490		14.9
Phenol-d5	AVRG		1.18790		10.0
Nitrobenzene-d5	AVRG		0.26514		13.0
2-Fluorobiphenyl	LINR	0.00000000	0.91275		0.999
2,4,6-Tribromophenol	LINR	0.00000000	8.76873		0.993
Terphenyl-d14	AVRG		0.70693		13.0

FORM VI SV

0083

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date(s): 10/24/03 10/24/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1500 1756

LAB FILE ID: RF4: A3102406 RF10: A3102407 RF20: A3102408
RF50: A3102409 RF80: A3102410

COMPOUND	RF4	RF10	RF20	RF50	RF80
Phenol	0.741	0.837	0.931	1.018	1.129
Bis(2-chloroethyl)ether	0.916	1.056	1.163	1.312	1.465
2-Chlorophenol	0.680	0.763	0.807	0.858	0.911
1,3-Dichlorobenzene	0.577	0.667	0.705	0.741	0.790
1,4-Dichlorobenzene	0.572	0.675	0.729	0.789	0.839
1,2-Dichlorobenzene	0.603	0.681	0.741	0.838	0.944
2-Methylphenol	1.054	1.218	1.265	1.420	1.481
bis(2-Chloroisopropyl)ether	0.487	0.535	0.568	0.627	0.664
3&4-Methylphenol	0.776	0.819	0.884	0.960	1.050
n-Nitroso-di-n-propylamine	1.488	1.646	1.716	1.979	2.120
Hexachloroethane	1.316	1.641	1.674	1.917	2.037
Nitrobenzene	3.223	4.112	4.390	4.549	5.003
Isophorone	1.932	2.225	2.363	2.459	2.862
2-Nitrophenol	4.545	5.186	5.215	5.487	5.869
2,4-Dimethyphenol	3.145	3.965	3.963	4.162	4.746
Bis(2-chloroethoxy)methane	2.892	3.469	3.638	3.846	4.363
2,4-Dichlorophenol	3.438	3.749	4.036	4.305	4.635
1,2,4-Trichlorobenzene	2.691	3.288	3.510	3.805	4.064
Naphthalene	0.932	1.107	1.155	1.242	1.386
4-Chloroaniline	2.129	2.508	2.724	2.837	3.298
Hexachlorobutadiene	5.501	6.789	7.428	7.226	8.141
4-Chloro-3-methylphenol	3.771	4.303	4.254	4.455	4.930
2-Methylnaphthalene	1.576	1.960	2.053	2.196	2.500
Hexachlorocyclopentadiene		6.149	5.382	4.144	3.954
2,4,6-Trichlorophenol	2.410	2.830	2.954	2.936	3.234
2,4,5-Trichlorophenol	2.218	2.676	2.695	2.857	3.062
2-Chloronaphthalene	0.700	0.858	0.910	0.940	1.054
2-Nitroaniline	3.234	3.753	3.649	3.733	4.019
Dimethylphthalate	0.647	0.771	0.822	0.867	0.946
Acenaphthylene	0.445	0.526	0.586	0.603	0.665
2,6-Dinitrotoluene	2.920	3.400	3.799	3.867	4.106
3-Nitroaniline	2.793	3.147	3.220	3.166	3.334
Acenaphthene	0.818	0.941	1.016	1.018	1.156
2,4-Dinitrophenol	10.481	11.369	9.110	6.708	7.366
4-Nitrophenol	5.551	6.223	6.212	5.705	5.958
Dibenzofuran	0.536	0.631	0.678	0.721	0.817
2,4-Dinitrotoluene	2.501	2.643	2.791	2.795	3.003
Diethylphthalate	0.600	0.708	0.740	0.806	0.888

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date(s): 10/24/03 10/24/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1500 1756

LAB FILE ID: RF4: A3102406 RF10: A3102407 RF20: A3102408
RF50: A3102409 RF80: A3102410

COMPOUND	RF4	RF10	RF20	RF50	RF80
Fluorene	0.680	0.794	0.885	0.947	1.080
4-Chlorophenylphenylether	1.574	1.876	1.947	2.118	2.412
4-Nitroaniline	2.409	2.846	2.865	2.878	2.944
2-Methyl-4,6-dinitrophenol	9.945	10.533	9.936	8.927	8.764
Diphenylamine/n-Nitrosodiphe	1.629	1.830	2.019	2.108	2.331
4-Bromophenylphenylether	5.213	5.890	6.651	6.698	6.888
Hexachlorobenzene	4.943	6.175	6.233	6.659	6.660
Pentachlorophenol	10.573	11.718	11.471	10.368	10.010
Phenanthrene	0.835	0.992	1.026	1.117	1.162
Anthracene	0.767	0.927	0.989	1.052	1.128
Carbazole	0.895	1.029	1.078	1.133	1.188
Di-n-butylphthalate	0.611	0.673	0.737	0.806	0.895
Fluoranthene	0.856	0.979	1.063	1.114	1.157
Pyrene	0.615	0.685	0.741	0.813	0.878
Butylbenzylphthalate	1.052	1.125	1.299	1.331	1.449
3,3'-Dichlorobenzidine	2.255	2.618	2.909	2.802	2.951
Benzo(a)anthracene	0.741	0.869	0.947	0.999	1.053
Chrysene	0.740	0.840	0.900	0.923	0.982
Bis(2-ethylhexyl)phthalate	0.738	0.802	0.895	0.950	1.027
Di-n-octylphthalate	0.454	0.508	0.576	0.577	0.623
Benzo(b)fluoranthene	0.803	0.856	0.863	1.013	1.066
Benzo(k)fluoranthene	0.724	0.803	0.934	0.939	1.004
Benzo(a)pyrene	0.806	0.942	1.004	1.043	1.089
Indeno(1,2,3-c,d)pyrene	0.781	0.963	0.991	0.997	1.029
Dibenzo(a,h)anthracene	0.866	1.102	1.085	1.110	1.165
Benzo(g,h,i)perylene	0.912	1.141	1.111	1.138	1.196
2-Fluorophenol	0.776	0.963	0.977	0.996	1.036
Phenol-d5	0.732	0.830	0.863	0.970	1.043
Nitrobenzene-d5	3.119	3.896	3.938	4.080	4.461
2-Fluorobiphenyl	0.698	0.862	0.919	0.939	1.079
2,4,6-Tribromophenol	7.054	7.014	7.983	8.034	8.489
Terphenyl-d14	0.989	1.136	1.225	1.346	1.396

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date(s): 10/24/03 10/24/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1500 1756

LAB FILE ID: RF100: A3102411 RF120: A3102412 RF160: A3102413

COMPOUND	RF100	RF120	RF160
Phenol	1.153	1.212	1.227
Bis(2-chloroethyl)ether	1.511	1.593	1.638
2-Chlorophenol	0.950	0.944	1.014
1,3-Dichlorobenzene	0.818	0.812	0.862
1,4-Dichlorobenzene	0.837	0.835	0.889
1,2-Dichlorobenzene	0.952	0.943	1.028
2-Methylphenol	1.430	1.394	1.532
bis(2-Chloroisopropyl)ether	0.677	0.655	0.740
3&4-Methylphenol	1.031	1.026	1.119
n-Nitroso-di-n-propylamine	2.276	2.196	2.409
Hexachloroethane	2.171	2.168	2.329
Nitrobenzene	4.890	5.134	5.386
Isophorone	2.636	2.665	2.846
2-Nitrophenol	5.749	5.888	6.196
2,4-Dimethyphenol	4.384	4.568	4.899
Bis(2-chloroethoxy)methane	4.139	4.330	4.690
2,4-Dichlorophenol	4.546	4.712	5.039
1,2,4-Trichlorobenzene	4.206	4.304	4.647
Naphthalene	1.426	1.493	1.607
4-Chloroaniline	3.286	3.503	3.786
Hexachlorobutadiene	7.822	8.213	8.708
4-Chloro-3-methylphenol	4.800	4.983	5.320
2-Methylnaphthalene	2.475	2.590	2.861
Hexachlorocyclopentadiene	3.837	3.804	3.849
2,4,6-Trichlorophenol	3.242	3.264	3.407
2,4,5-Trichlorophenol	3.094	3.251	3.330
2-Chloronaphthalene	1.064	1.082	1.147
2-Nitroaniline	3.912	4.058	4.104
Dimethylphthalate	0.980	0.963	0.995
Acenaphthylene	0.682	0.700	0.743
2,6-Dinitrotoluene	4.046	4.037	4.142
3-Nitroaniline	3.205	3.340	3.210
Acenaphthene	1.142	1.198	1.232
2,4-Dinitrophenol	6.832	6.926	6.564
4-Nitrophenol	5.626	5.866	5.664
Dibenzofuran	0.820	0.828	0.866
2,4-Dinitrotoluene	2.876	2.912	2.971
Diethylphthalate	0.906	0.914	0.981

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date(s): 10/24/03 10/24/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1500 1756

LAB FILE ID: RF100: A3102411 RF120: A3102412 RF160: A3102413

COMPOUND	RF100	RF120	RF160
Fluorene	1.106	1.177	1.264
4-Chlorophenylphenylether	2.461	2.553	2.719
4-Nitroaniline	2.950	3.078	3.017
2-Methyl-4,6-dinitrophenol	8.930	9.693	9.411
Diphenylamine/n-Nitrosodiphe	2.360	2.461	2.643
4-Bromophenylphenylether	7.202	7.428	7.755
Hexachlorobenzene	7.278	7.390	7.650
Pentachlorophenol	10.246	10.836	10.319
Phenanthrene	1.262	1.324	1.385
Anthracene	1.222	1.274	1.396
Carbazole	1.251	1.343	1.370
Di-n-butylphthalate	0.944	0.992	1.110
Fluoranthene	1.225	1.331	1.337
Pyrene	0.911	0.882	0.976
Butylbenzylphthalate	1.420	1.438	1.532
3,3'-Dichlorobenzidine	2.876	3.016	3.105
Benzo(a)anthracene	1.061	1.096	1.131
Chrysene	0.988	1.022	1.037
Bis(2-ethylhexyl)phthalate	1.039	1.024	1.130
Di-n-octylphthalate	0.613	0.630	0.668
Benzo(b)fluoranthene	0.993	1.084	1.024
Benzo(k)fluoranthene	1.040	0.983	
Benzo(a)pyrene	1.124	1.110	1.176
Indeno(1,2,3-c,d)pyrene	1.038	1.072	1.098
Dibenzo(a,h)anthracene	1.161	1.198	1.216
Benzo(g,h,i)perylene	1.199	1.206	1.262
2-Fluorophenol	1.018	1.016	1.074
Phenol-d5	1.029	1.058	1.100
Nitrobenzene-d5	4.314	4.513	4.656
2-Fluorobiphenyl	1.110	1.097	1.173
2,4,6-Tribromophenol	8.450	8.247	8.478
Terphenyl-d14	1.461	1.397	1.520

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date(s): 10/24/03 10/24/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1500 1756

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Phenol	LINR	0.00000000	1.18217		0.992
Bis(2-chloroethyl)ether	2ORDR	0.00000000	1.17683	0.1977	0.999
2-Chlorophenol	AVRG		1.17266		13.6
1,3-Dichlorobenzene	AVRG		1.37337		14.5
1,4-Dichlorobenzene	LINR	0.00000000	0.85348		0.996
1,2-Dichlorobenzene	2ORDR	0.00000000	0.75715	6.793e-002	0.998
2-Methylphenol	AVRG		0.76193		13.1
bis(2-Chloroisopropyl)ether	2ORDR	0.00000000	0.55067	3.169e-002	0.996
3&4-Methylphenol	AVRG		1.05902		13.3
n-Nitroso-di-n-propylamine	2ORDR	0.00000000	1.73862	0.3939	0.998
Hexachloroethane	2ORDR	0.00000000	1.66523	0.3862	0.999
Nitrobenzene	LINR	0.00000000	5.13037		0.993
Isophorone	AVRG		0.41465		13.5
2-Nitrophenol	AVRG		0.18457		10.5
2,4-Dimethyphenol	AVRG		0.24485		15.0
Bis(2-chloroethoxy)methane	LINR	0.00000000	4.39760		0.990
2,4-Dichlorophenol	AVRG		0.23833		13.6
1,2,4-Trichlorobenzene	2ORDR	0.00000000	3.24585	1.6029	1.000
Naphthalene	2ORDR	0.00000000	1.03001	0.2315	1.000
4-Chloroaniline	2ORDR	0.00000000	2.33631	1.3613	0.999
Hexachlorobutadiene	LINR	0.00000000	8.25769		0.992
4-Chloro-3-methylphenol	AVRG		0.22202		11.6
2-Methylnaphthalene	2ORDR	0.00000000	1.79694	0.7352	0.998
Hexachlorocyclopentadiene	2ORDR	0.00000000	4.09188	-0.276	0.999
2,4,6-Trichlorophenol	AVRG		0.33654		12.1
2,4,5-Trichlorophenol	AVRG		0.35380		14.6
2-Chloronaphthalene	LINR	0.00000000	1.09061		0.992
2-Nitroaniline	AVRG		0.26619		8.3
Dimethylphthalate	LINR	0.00000000	0.96986		0.996
Acenaphthylene	LINR	0.00000000	0.70189		0.991
2,6-Dinitrotoluene	AVRG		0.27067		13.4
3-Nitroaniline	AVRG		0.31788		5.8
Acenaphthene	AVRG		0.96773		14.9
2,4-Dinitrophenol	LINR	0.00000000	6.78573		0.995
4-Nitrophenol	AVRG		0.17122		4.4
Dibenzofuran	LINR	0.00000000	0.83244		0.994
2,4-Dinitrotoluene	AVRG		0.36028		6.1
Diethylphthalate	LINR	0.00000000	0.92674		0.991

FORM VI SV

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date(s): 10/24/03 10/24/03

Column: ZB-5 ID: 0.25 (mm) Calibration Time(s): 1500 1756

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Fluorene	2ORDR	0.00000000	0.76191	0.1592	1.000
4-Chlorophenylphenylether	2ORDR	0.00000000	1.84876	0.5974	1.000
4-Nitroaniline	AVRG		0.35118		8.5
2-Methyl-4,6-dinitrophenol	AVRG		0.10546		6.4
Diphenylamine/n-Nitrosodiphe	2ORDR	0.00000000	1.81116	0.5442	1.000
4-Bromophenylphenylether	AVRG		0.15111		13.6
Hexachlorobenzene	AVRG		0.15356		14.8
Pentachlorophenol	AVRG		9.378e-002		5.5
Phenanthrene	2ORDR	0.00000000	0.93258	0.1600	0.999
Anthracene	2ORDR	0.00000000	0.78809	0.2094	1.000
Carbazole	AVRG		0.87689		14.7
Di-n-butylphthalate	2ORDR	0.00000000	0.56640	0.1470	0.999
Fluoranthene	2ORDR	0.00000000	0.99211	0.1205	0.998
Pyrene	LINR	0.00000000	0.91628		0.991
Butylbenzylphthalate	AVRG		0.76300		13.7
3,3'-Dichlorobenzidine	AVRG		0.36105		11.4
Benzo(a)anthracene	AVRG		1.03078		15.0
Chrysene	AVRG		1.08861		11.9
Bis(2-ethylhexyl)phthalate	AVRG		1.07110		14.9
Di-n-octylphthalate	AVRG		1.74457		13.3
Benzo(b)fluoranthene	AVRG		1.06647		11.5
Benzo(k)fluoranthene	AVRG		1.10527		13.8
Benzo(a)pyrene	AVRG		0.98516		13.5
Indeno(1,2,3-c,d)pyrene	AVRG		1.01964		12.1
Dibenzo(a,h)anthracene	AVRG		0.90770		11.7
Benzo(g,h,i)perylene	AVRG		0.88679		11.2
2-Fluorophenol	AVRG		1.03606		11.2
Phenol-d5	AVRG		1.06800		15.0
Nitrobenzene-d5	AVRG		0.24921		14.1
2-Fluorobiphenyl	LINR	0.00000000	1.11443		0.991
2,4,6-Tribromophenol	AVRG		0.12618		8.1
Terphenyl-d14	LINR	0.00000000	1.45079		0.994

FORM VI SV

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date: 10/24/03 Time: 0948

Lab File ID: B3102402 Init. Calib. Date(s): 10/23/03 10/23/03

Init. Calib. Times: 1439 1748

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL100 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Phenol	1.408		1.298		7.8	20.0	AVRG
Bis(2-chloroethyl)ether	0.896		0.811		9.5	40.0	AVRG
2-Chlorophenol	1.163		1.066		8.3	40.0	AVRG
1,3-Dichlorobenzene	100	96	1.250		4.0	40.0	LINR
1,4-Dichlorobenzene	100	96	1.241		4.0	20.0	LINR
1,2-Dichlorobenzene	1.293		1.188		8.1	40.0	AVRG
2-Methylphenol	0.828		0.740		10.6	40.0	AVRG
bis(2-Chloroisopropyl)ether	100	96	1.965		4.0	40.0	LINR
3&4-Methylphenol	1.148		1.102		4.0	40.0	AVRG
n-Nitroso-di-n-propylamine	0.768		0.700	0.05	8.8	40.0	AVRG
Hexachloroethane	0.543		0.504		7.2	40.0	AVRG
Nitrobenzene	0.290		0.290		0.0	40.0	AVRG
Isophorone	100	100	0.541		0.0	40.0	LINR
2-Nitrophenol	0.131		0.156		19.1	20.0	AVRG
2,4-Dimethyphenol	100	110	0.260		10.0	40.0	LINR
Bis(2-chloroethoxy)methane	0.325		0.315		3.1	40.0	AVRG
2,4-Dichlorophenol	0.250		0.255		2.0	20.0	AVRG
1,2,4-Trichlorobenzene	100	110	0.293		10.0	40.0	LINR
Naphthalene	100	110	0.881		10.0	40.0	LINR
4-Chloroaniline	0.358		0.357		0.3	40.0	AVRG
Hexachlorobutadiene	0.171		0.170		0.6	20.0	AVRG
4-Chloro-3-methylphenol	100	110	0.256		10.0	20.0	LINR
2-Methylnaphthalene	100	100	0.496		0.0	40.0	LINR
Hexachlorocyclopentadiene	0.297		0.318	0.05	7.1	40.0	AVRG
2,4,6-Trichlorophenol	0.324		0.321		0.9	20.0	AVRG
2,4,5-Trichlorophenol	0.338		0.345		2.1	40.0	AVRG
2-Chloronaphthalene	100	97	0.930		3.0	40.0	LINR
2-Nitroaniline	0.257		0.276		7.4	40.0	AVRG
Dimethylphthalate	1.228		1.150		6.4	40.0	AVRG
Acenaphthylene	100	98	1.561		2.0	40.0	LINR
2,6-Dinitrotoluene	100	110	0.228		10.0	40.0	2ORDR
3-Nitroaniline	0.235		0.259		10.2	40.0	AVRG
Acenaphthene	0.987		0.923		6.5	20.0	AVRG
2,4-Dinitrophenol	100	120	0.095	0.05	20.0	40.0	2ORDR
4-Nitrophenol	0.165		0.157	0.05	4.8	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date: 10/24/03 Time: 0948

Lab File ID: B3102402 Init. Calib. Date(s): 10/23/03 10/23/03

Init. Calib. Times: 1439 1748

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL100 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Dibenzofuran	100	100	1.397		0.0	40.0	LINR
2,4-Dinitrotoluene	100	110	0.296		10.0	40.0	2ORDR
Diethylphthalate	100	98	1.131		2.0	40.0	LINR
Fluorene	1.197		1.121		6.3	40.0	AVRG
4-Chlorophenylphenylether	0.572		0.538		5.9	40.0	AVRG
4-Nitroaniline	100	100	0.263		0.0	40.0	2ORDR
2-Methyl-4,6-dinitrophenol	100	120	0.084		20.0	40.0	2ORDR
Diphenylamine/n-Nitrosodiphe	0.501		0.486		3.0	20.0	AVRG
4-Bromophenylphenylether	0.172		0.161		6.4	40.0	AVRG
Hexachlorobenzene	100	100	0.166		0.0	40.0	LINR
Pentachlorophenol	0.098		0.110		12.2	20.0	AVRG
Phenanthrene	100	99	0.870		1.0	40.0	LINR
Anthracene	100	100	0.917		0.0	40.0	LINR
Carbazole	0.900		0.856		4.9	40.0	AVRG
Di-n-butylphthalate	1.114		1.062		4.7	40.0	AVRG
Fluoranthene	100	100	0.984		0.0	20.0	LINR
Pyrene	100	100	1.100		0.0	40.0	LINR
Butylbenzylphthalate	100	100	0.551		0.0	40.0	LINR
3,3'-Dichlorobenzidine	0.360		0.366		1.7	40.0	AVRG
Benzo(a)anthracene	100	100	1.008		0.0	40.0	LINR
Chrysene	100	100	1.059		0.0	40.0	LINR
Bis(2-ethylhexyl)phthalate	0.761		0.737		3.2	40.0	AVRG
Di-n-octylphthalate	100	100	1.200		0.0	20.0	LINR
Benzo(b)fluoranthene	1.134		1.060		6.5	40.0	AVRG
Benzo(k)fluoranthene	1.213		1.215		0.2	40.0	AVRG
Benzo(a)pyrene	1.071		1.042		2.7	20.0	AVRG
Indeno(1,2,3-c,d)pyrene	1.120		1.115		0.4	40.0	AVRG
Dibenzo(a,h)anthracene	1.024		0.992		3.1	40.0	AVRG
Benzo(g,h,i)perylene	0.999		0.968		3.1	40.0	AVRG
2-Fluorophenol	1.055		0.994		5.8	40.0	AVRG
Phenol-d5	1.188		1.113		6.3	40.0	AVRG
Nitrobenzene-d5	0.265		0.281		6.0	40.0	AVRG
2-Fluorobiphenyl	100	96	1.056		4.0	40.0	LINR
2,4,6-Tribromophenol	100	100	0.114		0.0	40.0	LINR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMB5973 Calibration Date: 10/24/03 Time: 0948

Lab File ID: B3102402 Init. Calib. Date(s): 10/23/03 10/23/03

Init. Calib. Times: 1439 1748

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL100 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Terphenyl-d14	0.707		0.681		3.7	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date: 10/27/03 Time: 0917

Lab File ID: A3102702 Init. Calib. Date(s): 10/24/03 10/24/03

Init. Calib. Times: 1500 1756

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL100 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Phenol	100	100	0.879		0.0	20.0	LINR
Bis(2-chloroethyl)ether	100	99	0.661		1.0	40.0	2ORDR
2-Chlorophenol	1.173		1.045		10.9	40.0	AVRG
1,3-Dichlorobenzene	1.360		1.232		9.4	40.0	AVRG
1,4-Dichlorobenzene	100	100	1.187		0.0	20.0	LINR
1,2-Dichlorobenzene	100	100	1.084		0.0	40.0	2ORDR
2-Methylphenol	0.751		0.698		7.0	40.0	AVRG
bis(2-Chloroisopropyl)ether	100	100	1.518		0.0	40.0	2ORDR
3&4-Methylphenol	1.059		0.973		8.1	40.0	AVRG
n-Nitroso-di-n-propylamine	100	98	0.448	0.05	2.0	40.0	2ORDR
Hexachloroethane	100	100	0.470		0.0	40.0	2ORDR
Nitrobenzene	100	100	0.204		0.0	40.0	LINR
Isophorone	0.406		0.378		6.9	40.0	AVRG
2-Nitrophenol	0.183		0.179		2.2	20.0	AVRG
2,4-Dimethyphenol	0.240		0.218		9.2	40.0	AVRG
Bis(2-chloroethoxy)methane	100	100	0.234		0.0	40.0	LINR
2,4-Dichlorophenol	0.236		0.217		8.0	20.0	AVRG
1,2,4-Trichlorobenzene	100	99	0.237		1.0	40.0	2ORDR
Naphthalene	100	100	0.700		0.0	40.0	2ORDR
4-Chloroaniline	100	100	0.305		0.0	40.0	2ORDR
Hexachlorobutadiene	100	100	0.126		0.0	20.0	LINR
4-Chloro-3-methylphenol	0.220		0.214		2.7	20.0	AVRG
2-Methylnaphthalene	100	100	0.409		0.0	40.0	2ORDR
Hexachlorocyclopentadiene	100	100	0.263	0.05	0.0	40.0	2ORDR
2,4,6-Trichlorophenol	0.333		0.318		4.5	20.0	AVRG
2,4,5-Trichlorophenol	0.350		0.339		3.1	40.0	AVRG
2-Chloronaphthalene	100	100	0.935		0.0	40.0	LINR
2-Nitroaniline	0.264		0.255		3.4	40.0	AVRG
Dimethylphthalate	100	100	1.062		0.0	40.0	LINR
Acenaphthylene	100	100	1.480		0.0	40.0	LINR
2,6-Dinitrotoluene	0.267		0.246		7.9	40.0	AVRG
3-Nitroaniline	0.316		0.314		0.6	40.0	AVRG
Acenaphthene	0.955		0.888		7.0	20.0	AVRG
2,4-Dinitrophenol	100	110	0.158	0.05	10.0	40.0	LINR
4-Nitrophenol	0.171		0.176	0.05	2.9	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM VII SV

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date: 10/27/03 Time: 0917

Lab File ID: A3102702 Init. Calib. Date(s): 10/24/03 10/24/03

Init. Calib. Times: 1500 1756

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL100 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Dibenzofuran	100	100	1.234		0.0	40.0	LINR
2,4-Dinitrotoluene	0.357		0.347		2.8	40.0	AVRG
Diethylphthalate	100	100	1.139		0.0	40.0	LINR
Fluorene	100	100	0.929		0.0	40.0	2ORDR
4-Chlorophenylphenylether	100	100	0.421		0.0	40.0	2ORDR
4-Nitroaniline	0.350		0.345		1.4	40.0	AVRG
2-Methyl-4,6-dinitrophenol	0.105		0.114		8.6	40.0	AVRG
Diphenylamine/n-Nitrosodiphe	100	100	0.426		0.0	20.0	2ORDR
4-Bromophenylphenylether	0.151		0.137		9.3	40.0	AVRG
Hexachlorobenzene	0.153		0.140		8.5	40.0	AVRG
Pentachlorophenol	0.094		0.099		5.3	20.0	AVRG
Phenanthrene	100	100	0.808		0.0	40.0	2ORDR
Anthracene	100	100	0.822		0.0	40.0	2ORDR
Carbazole	0.877		0.810		7.6	40.0	AVRG
Di-n-butylphthalate	100	99	1.045		1.0	40.0	2ORDR
Fluoranthene	100	98	0.797		2.0	20.0	2ORDR
Pyrene	100	100	1.136		0.0	40.0	LINR
Butylbenzylphthalate	0.763		0.705		7.6	40.0	AVRG
3,3'-Dichlorobenzidine	0.358		0.347		3.1	40.0	AVRG
Benzo(a)anthracene	1.031		0.952		7.7	40.0	AVRG
Chrysene	1.088		1.039		4.5	40.0	AVRG
Bis(2-ethylhexyl)phthalate	1.071		0.982		8.3	40.0	AVRG
Di-n-octylphthalate	1.745		1.641		6.0	20.0	AVRG
Benzo(b)fluoranthene	1.050		1.019		3.0	40.0	AVRG
Benzo(k)fluoranthene	1.105		0.939		15.0	40.0	AVRG
Benzo(a)pyrene	0.977		0.915		6.3	20.0	AVRG
Indeno(1,2,3-c,d)pyrene	1.014		0.947		6.6	40.0	AVRG
Dibenzo(a,h)anthracene	0.908		0.837		7.8	40.0	AVRG
Benzo(g,h,i)perylene	0.880		0.835		5.1	40.0	AVRG
2-Fluorophenol	1.027		0.999		2.7	40.0	AVRG
Phenol-d5	1.068		0.976		8.6	40.0	AVRG
Nitrobenzene-d5	0.246		0.237		3.6	40.0	AVRG
2-Fluorobiphenyl	100	100	0.930		0.0	40.0	LINR
2,4,6-Tribromophenol	0.126		0.122		3.2	40.0	AVRG

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSMA5973 Calibration Date: 10/27/03 Time: 0917

Lab File ID: A3102702 Init. Calib. Date(s): 10/24/03 10/24/03

Init. Calib. Times: 1500 1756

GC Column: ZB-5 ID: 0.25 (mm)

COMPOUND	ICAL100 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Terphenyl-d14	100	100	0.723		0.0	40.0	LINR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): B3102402 Date Analyzed: 10/24/03

Instrument ID: TSMB5973 Time Analyzed: 0948

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	108183	6.12	376333	7.29	224104	8.80
	UPPER LIMIT	216366	6.62	752666	7.79	448208	9.30
	LOWER LIMIT	54092	5.62	188167	6.79	112052	8.30
	CLIENT SAMPLE NO.						
01	SM102203CLB	87651	6.13	313521	7.30	179690	8.80
02	74651-1	63940	6.13	228151	7.30	127788	8.80
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): B3102402 Date Analyzed: 10/24/03

Instrument ID: TSMB5973 Time Analyzed: 0948

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	402908	10.03	350419	12.67	302373	14.44
	UPPER LIMIT	805816	10.53	700838	13.17	604746	14.94
	LOWER LIMIT	201454	9.53	175210	12.17	151187	13.94
	CLIENT SAMPLE NO.						
01	SM102203CLB	324986	10.03	282758	12.67	224824	14.44
02	74651-1	232330	10.03	196090	12.67	154893	14.43
03							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): A3102702 Date Analyzed: 10/27/03

Instrument ID: TSMA5973 Time Analyzed: 0917

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	354545	5.45	1290226	6.65	612966	8.16
	UPPER LIMIT	709090	5.95	2580452	7.15	1225932	8.66
	LOWER LIMIT	177273	4.95	645113	6.15	306483	7.66
	CLIENT SAMPLE NO.						
01	SM102203CLBL	353617	5.44	1248850	6.65	604838	8.15
02	SM102203CLBL	397250	5.44	1449668	6.65	544872	8.15
03							
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): A3102702 Date Analyzed: 10/27/03

Instrument ID: TSMA5973 Time Analyzed: 0917

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1032932	9.36	725760	11.78	700813	13.35
	UPPER LIMIT	2065864	9.86	1451520	12.28	1401626	13.85
	LOWER LIMIT	516466	8.86	362880	11.28	350407	12.85
	CLIENT SAMPLE NO.						
01	SM102203CLBL	943974	9.36	650537	11.77	614969	13.35
02	SM102203CLBL	938180	9.36	449841	11.77	88130*	13.35
03							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

EXTRACTION LOG(S)

EXTRACTION LOG

27

Job No: 630

Batch No: SM102203C

Date Extracted: 10.22.03

Start Time: 1530

Stop Time: 0800

Analysis Required: 8270

Prep Method: 3520

Analyst/Activity Code*: LS, ME, BE, DK/AGP

Initial Project Check: AN

Final Project Check: AN

Date Concentrated: 10-23-03

Initials: EK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8270	7.3.6.1	1.0	AN
Surr.				AN
Spike	8270	7.3.4.13	1.0	AN
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

$MeCl_2$: Y28E30

1:1 H_2SO_4: AN-A22.0054.3.10

Na_2SO_4: Y31626

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH T	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T374635*1/Q14001*INFLUENT	TPR155	LI	1000	7	<2	1.0	11.03	10.23	P|
2. T374635*2/Q14002FD1*EFFLUENT	TPR155	LI	1000	7	<2	1.0	11.03	10.23	P|
3. T374635*3/Q14003*EFFLUENT	TPR155	LI	1000	7	<2	1.0	11.03	10.23	P|
4. T374635*4/Q14004EB1*FIELDQC	TPR155	LI	1000	7	<2	1.0	11.03	10.23	P|
5. T374635*5/Q14005AB1*FIELDQC	TPR155	LI	1000	7	<2	1.0	11.03	10.23	P|
6. T374636*1/Q14019*C2/MZ3-10	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
7. T374636*2/Q14020*C2/MZ3-50	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
8. T374636*3/Q14021*C2/MZ3-90	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
9. T374636*4/Q14023*C3-10	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
10. T374636*5/Q14024*C3-50	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
11. T374636*6/Q14025*C3-90	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
12. T374636*7/Q14027*C4-10	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
13. T374636*8/Q14028*C4-50	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
14. T374636*9/Q14029FD2*C4-50	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
15. T374636*10/Q14030*C4-90	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
16. T374636*11/Q14032*C5-10	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
17. T374636*12/Q14033*C5-50	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
18. T374636*13/Q14034*C5-90	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
19. T374636*14/Q14044EB1*FIELDQC	TPR157	LI	1000	7	<2	1.0	11.03	10.23	P|
20. T374651*1/086-DWC-S-1017-03*	JETC04	LI	1000	7	<2	1.0	10.24	10.24	R|
Lab Blank		LI	1000	7	<2	1.0			
Lab Spike #1		LI	1000	7	<2	1.0			
Lab Spike #2		LI	1000	7	<2	1.0			
MS: T374635 Q14003		LI	1000	7	<2	1.0			
MSD: T374635 Q14003		LI	1000	7	<2	1.0			
MS: T374636 Q14019		LI	1000	7	<2	1.0			
MSD: T374636 Q14019		LI	1000	7	<2	1.0			

Dets: Semivolatile Organics <8270> | TCL - Semivolatiles <8270>

+ Additional Dets:

ANALYSIS LOG(S)

Client SDG: JETC04 Sample Fraction: SV

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
14387538	2B31023.b	B3102308.D	DFTPP	TUNE050	TUNE050	14387531		
14387538	2B31023.b	B3102309.D	CALIB_1	BNA004	BNA004	14387569	3.5.60.1	
14387538	2B31023.b	B3102310.D	CALIB_2	BNA010	BNA010	14387570	3.5.60.2	
14387538	2B31023.b	B3102311.D	CALIB_3	BNA020	BNA020	14387571	3.5.60.3	
14387538	2B31023.b	B3102312.D	CALIB_4	BNA050	BNA050	14387572	3.5.60.4	
14387538	2B31023.b	B3102313.D	CALIB_5	BNA080	BNA080	14387573	3.5.60.5	
14387538	2B31023.b	B3102314.D	CALIB_6	BNA100	BNA100	14387574	3.5.60.6	
14387538	2B31023.b	B3102315.D	CALIB_7	BNA120	BNA120	14387575	3.5.60.7	
14387538	2B31023.b	B3102316.D	CALIB_8	BNA160	BNA160	14387576	3.5.61.1	
14387596	1B31024.b	B3102401.D	DFTPP	TUNE050	TUNE050	14387589		
14387596	1B31024.b	B3102402.D	CCALIB_6	BNA100	BNA100	14387600	3.5.60.6	
14387596	1B31024.b	B3102418.D	BLANK	SM102203CLB	SM102203CLB	3161975	SM102203C	
14387596	1B31024.b	B3102421.D	SAMPLE	74651-1	086-DWC-S-1017-0	3161988	SM102203C	JETC04
14387688	2A31024.b	A3102405.D	DFTPP	TUNE50	TUNE50	14387687		
14387688	2A31024.b	A3102406.D	CALIB_1	BNA004	BNA004	14387720	3.5.60.1	
14387688	2A31024.b	A3102407.D	CALIB_2	BNA010	BNA010	14387721	3.5.60.2	
14387688	2A31024.b	A3102408.D	CALIB_3	BNA020	BNA020	14387722	3.5.60.3	
14387688	2A31024.b	A3102409.D	CALIB_4	BNA050	BNA050	14387723	3.5.60.4	
14387688	2A31024.b	A3102410.D	CALIB_5	BNA080	BNA080	14387724	3.5.60.5	
14387688	2A31024.b	A3102411.D	CALIB_6	BNA100	BNA100	14387725	3.5.60.6	
14387688	2A31024.b	A3102412.D	CALIB_7	BNA120	BNA120	14387726	3.5.60.7	
14387688	2A31024.b	A3102413.D	CALIB_8	BNA160	BNA160	14387695	3.5.61.1	
14387738	1A31027.b	A3102701.D	DFTPP	TUNE50	TUNE50	14387737		
14387738	1A31027.b	A3102702.D	CCALIB_6	BNA100	BNA100	14387745	3.5.60.6	
14387738	1A31027.b	A3102709.D	LCS	SM102203CLBLCS	SM102203CLBLCS	14387754	SM102203C	
14387738	1A31027.b	A3102711.D	LCSD	SM102203CLBLCSD	SM102203CLBLCSD	3162038	SM102203C	

0103

Operator: MT
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	B3102300	B102003	RINSE
2	Sample	96	B3102301	T102003	TUNE050~3.5.47.6~1~8270/625
3	Sample	100	B3102302	B102003	RINSE
4	Sample	96	B3102303	T102003	TUNE050~3.5.47.6~1~8270/625
5	Sample	1	B3102304	T102003	BNA004~3.5.60.1~1~8270/625
6	Sample	2	B3102305	T102003	BNA010~3.5.60.2~1~8270/625
7	Sample	3	B3102306	T102003	BNA020~3.5.60.3~1~8270/625
8	Sample	100	B3102307	B102003	RINSE
9	Sample	96	B3102308	T102003	TUNE050~3.5.47.6~1~8270/625
10	Sample	1	B3102309	B102003	BNA004~3.5.60.1~1~8270/625
11	Sample	2	B3102310	B102003	BNA010~3.5.60.2~1~8270/625
12	Sample	3	B3102311	B102003	BNA020~3.5.60.3~1~8270/625
13	Sample	4	B3102312	B102003	BNA050~3.5.60.4~1~8270/625
14	Sample	5	B3102313	B102003	BNA080~3.5.60.5~1~8270/625
15	Sample	6	B3102314	B102003	BNA100~3.5.60.6~1~8270/625
16	Sample	7	B3102315	B102003	BNA120~3.5.60.7~1~8270/625
17	Sample	8	B3102316	B102003	BNA160~3.5.61.1~1~8270/625
18	Sample	9	B3102317	B102003	ICV050~7.3.6.7~1~8270/625
19	Sample	10	B3102318	B102003	A9^1~3.5.55.1~1~8270/625
20	Sample	11	B3102319	B102003	A9^2~3.5.55.2~1~8270/625
21	Sample	12	B3102320	B102003	A9^3~3.5.55.3~1~8270/625
22	Sample	13	B3102321	B102003	A9^4~3.5.55.4~1~8270/625
23	Sample	14	B3102322	B102003	A9^5~3.5.55.5~1~8270/625
24	Sample	15	B3102323	B102003	A9^6~3.5.55.6~1~8270/625
25	Sample	16	B3102324	B102003	A9^7~3.5.55.7~1~8270/625
26	Sample	17	B3102325	B102003	A9^8~3.5.56.1~1~8270/625
27	Sample	18	B3102326	B102003	BNA_MDL_CHK~7.3.6.8~1~8270/62
28	Sample	19	B3102327	B102003	A9_MDL_CHK~7.3.6.8~1~8270/625

SBF 10/24/03

Last Modified: Thu Oct 23 16:15:23 2003

Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	B3102400	B102003	RINSE
2	Sample	96	B3102401	T102003	TUNE050~3.5.47.6~1~8270/625 9:34
3	Sample	97	B3102402	B102003	BNA100~3.5.60.6~1~8270/625
4	Sample	98	B3102403	B102003	BNA010~3.5.60.2~1~8270/625
5	Sample	26	B3102404	B102003	SM102103ILB~SM102103ILB~1~827
6	Sample	27	B3102405	B102003	SM102103ILBLCS~SM102103ILB~1~
7	Sample	28	B3102406	B102003	SM102103ILBLCSD~SM102103ILB~1
8	Sample	29	B3102407	B102003	74615-3~SM102103ILB~1~8270
9	Sample	30	B3102408	B102003	74615-3~SM102103ILB~1~8270-MS
10	Sample	31	B3102409	B102003	74615-3~SM102103ILB~1~8270-MS
11	Sample	32	B3102410	B102003	SM102203ALB~SM102203A~1~8270
12	Sample	33	B3102411	B102003	SM102203ALBLCS~SM102203A~1~82
13	Sample	34	B3102412	B102003	SM102203ALBLCSD~SM102203A~1~8
14	Sample	35	B3102413	B102003	74603-1~SM102203A~1~8270
15	Sample	36	B3102414	B102003	74603-2~SM102203A~1~8270
16	Sample	37	B3102415	B102003	74604-1~SM102203A~1~8270
17	Sample	38	B3102416	B102003	74604-2~SM102203A~1~8270
18	Sample	39	B3102417	B102003	74603-1~SM102203A~1~8270-MS
19	Sample	40	B3102418	B102003	SM102203CLB~SM102203C~1~8270
20	Sample	41	B3102419	B102003	SM102203CLBLCS~SM102203C~1~82
21	Sample	42	B3102420	B102003	SM102203CLBLCSD~SM102203C~1~8
22	Sample	43	B3102421	B102003	74651-1~SM102203C~1~8270
23	Sample	44	B3102422	B102003	SM102303ELB~SM102303E~1~8270
24	Sample	45	B3102423	B102003	SM102303ELBLCS~SM102303E~1~82
25	Sample	46	B3102424	B102003	SM102303ELBLCSD~SM102303E~1~8
26	Sample	47	B3102425	B102003	74682-1~SM102303E~1~8270
27	Sample	48	B3102426	B102003	SM102303ELBMS~SM102303E~1~827
28	Sample	49	B3102427	B102003	SM102303ELBMSD~SM102303E~1~82

MAF
10.26.03

Sequence Name: C:\HPCHEM\1\SEQUENCE\A3102400
Comment: STL Instrument TSMA5973
Operator: MPF
Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	96	A3102400	BNA9	RINSE
2	Sample	97	A3102401	TUN1	TUNE050~3.5.35.9~1~8270/625
3	Sample	1	A3102402	BNA9	BNA004~3.5.60.1~1~8270/625
4	Sample	2	A3102403	BNA9	BNA010~3.5.60.2~1~8270/625
5	Sample	100	A3102404	BNA9	RINSE
6	Sample	96	A3102405	TUN1	TUNE050~3.5.35.9~1~8270/625
7	Sample	1	A3102406	BNA9	BNA004~3.5.60.1~1~8270/625
8	Sample	2	A3102407	BNA9	BNA010~3.5.60.2~1~8270/625
9	Sample	3	A3102408	BNA9	BNA020~3.5.60.3~1~8270/625
10	Sample	4	A3102409	BNA9	BNA050~3.5.60.4~1~8270/625
11	Sample	5	A3102410	BNA9	BNA080~3.5.60.5~1~8270/625
12	Sample	6	A3102411	BNA9	BNA100~3.5.60.6~1~8270/625
13	Sample	7	A3102412	BNA9	BNA120~3.5.60.7~1~8270/625
14	Sample	8	A3102413	BNA9	BNA160~3.5.61.1~1~8270/625
15	Sample	9	A3102414	BNA9	BNA_ICV~7.3.6.7~1~8270/625
16	Sample	10	A3102415	BNA9	BNA_MDL_CHK~7.3.6.8~1~8270/62
17	Sample	11	A3102416	BNA9	A9_MDL_CHK~7.3.6.9~1~8270/625

VW 10/24/23

0106

Data Path: D:\DATA\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
( ) Inject Anyway
(X) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	A3102700	BNA9	RINSE
2	Sample	96	A3102701	TUN1	TUNE050~3.5.35.9~1~8270/625
3	Sample	97	A3102702	BNA9	BNA100~3.5.60.6~1~8270/625
4	Sample	98	A3102703	BNA9	BNA010~3.5.60.2~1~8270/625
5	Sample	1	A3102704	BNA9	SM101703ALB~SM101703A~1~8270
6	Sample	2	A3102705	BNA9	SM101703ALBLCS~SM101703A~1~82
7	Sample	3	A3102706	BNA9	SM101703ALBLCSD~SM101703A~1~8
8	Sample	4	A3102707	BNA9	74561-1~SM101703A~1~8270
9	Sample	5	A3102708	BNA9	74561-2~SM101703A~1~8270
10	Sample	21	A3102709	BNA9	SM102203CLBLCS~SM102203C~1~82
11	Sample	22	A3102710	BNA9	SM102203CLBLCSD~SM102203C~1~8
12	Sample	22	A3102711	BNA9	SM102203CLBLCSD~SM102203C~1~8
13	Sample	6	A3102712	BNA9	74561-3~SM101703A~1~8270
14	Sample	7	A3102713	BNA9	74561-4~SM101703A~1~8270
15	Sample	8	A3102714	BNA9	74561-5~SM101703A~1~8270
16	Sample	9	A3102715	BNA9	74561-6~SM101703A~1~8270-FV=5
17	Sample	10	A3102716	BNA9	74561-7~SM101703A~1~8270
18	Sample	11	A3102717	BNA9	74561-8~SM101703A~1~8270
19	Sample	12	A3102718	BNA9	74561-2~SM101703A~1~8270-MS
20	Sample	13	A3102719	BNA9	74561-2~SM101703A~1~8270-MSD
21	Sample	96	A3102720	BNA9	A9^5~3.5.60.6~1~8270/625
22	Sample	14	A3102721	BNA9	SM101503ALB~SM101503A~1~8270
23	Sample	15	A3102722	BNA9	IDOC#1~SM101503A~1~8270
24	Sample	16	A3102723	BNA9	IDOC#2~SM101503A~1~8270
25	Sample	17	A3102724	BNA9	IDOC#3~SM101503A~1~8270
26	Sample	18	A3102725	BNA9	IDOC#4~SM101503A~1~8270
27	Sample	19	A3102726	BNA9	SM101603ALBMS~SM101603A~1~827
28	Sample	20	A3102727	BNA9	SM101603ALBMSD~SM101603A~1~82
29					

MF
10.28.03

Last Modified: Mon Oct 27 15:02:59 2003 Page: 1

0107

PETROLEUM RANGE ORGANICS

Method FL-PRO

CASE NARRATIVE

CASE NARRATIVE
GC PETROLEUM RANGE ORGANICS

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: FL-PRO
Cleanup: N/A
Analysis: FL-PRO

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: TRPst DATE: 10/29/03

Timothy Preston
Project Manager

FORMS

FL PRO ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J23H23

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/23/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
68334-30-5	FLPROTPH	0.30	U

FORM I FL PRO

FL PRO ORGANICS ANALYSIS DATA SHEET

1022BMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1022BMB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J23H25

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/23/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
68334-30-5	FLPROTPH	0.30	U

FORM I FL PRO

FL PRO ORGANICS ANALYSIS DATA SHEET

1022BLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1022BLCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J23H26

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/23/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
68334-30-5------	FLPROTPH	2.2	

FORM I FL PRO

FL PRO ORGANICS ANALYSIS DATA SHEET

1022BLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1022BLCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J23H27

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/22/03

Concentrated Extract Volume: 2(mL) Date Analyzed: 10/23/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
68334-30-5------	FLPROTPH	2.4	

FORM I FL PRO

WATER FL PRO SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

	CLIENT SAMPLE NO.	S1 (OTP) #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	74651-1	80	75							0
02	1022BMB	75	70							0
03	1022BLCS	85	80							0
04	1022BLCSD	90	90							0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (OTP)	= o-Terphenyl	(38-156)
S2	= C39	(24-137)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

WATER FL PRO LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix Spike - Sample No.: 1022BLCS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONC (ug/L)	LCS CONC (mg/L)	LCS % REC#	QC. LIMITS REC.
FLPROTPH	2.7		2.2	81	41-101

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONC (mg/L)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
FLPROTPH	2.7	2.4	89	85	8.7	20	41-101

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III FL PRO

FL PRO METHOD BLANK SUMMARY

1022BMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: 1J23H25 Lab Sample ID: 1022BMB

Instrument ID: TSGHFID1 Date Extracted: 10/22/03

Matrix: (soil/water) WATER Date Analyzed: 10/23/03

Level:(low/med) LOW Time Analyzed: 1654

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	74651-1	086-DWC-S-1017	1J23H23	10/23/03
02	1022BLCS	1022BLCS	1J23H26	10/23/03
03	1022BLCSD	1022BLCSD	1J23H27	10/23/03
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
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20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV FL PRO

FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGHFID1 Calibration Date(s): 09/29/03 09/29/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 1744 1833

LAB FILE ID: RF0.136: 1I29H43 RF0.425: 1I29H44 RF0.85: 1I29H45
RF1.275: 1I29H46 RF2.55: 1I29H47

COMPOUND	RF0.136	RF0.425	RF0.85	RF1.275	RF2.55
FLPROTPH	4144853		3312836	3169260	3226419
o-Terphenyl	3552310		3547900	3605210	3592420
C39	3159810		3193410	3159650	3154200

FORM VI FL PRO

FL PRO INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGHFID1 Calibration Date(s): 09/29/03 09/29/03

Column: RTX-5 ID: 0.25 (mm) Calibration Time(s): 1744 1833

RF5.1: 1I29H48

COMPOUND	RF5.1	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
FLPROTPH	3166758	LINR	0.00000000	3.143e-007	1.000
o-Terphenyl	3603540	AVRG		3580276	0.8
C39	3183910	AVRG		3170196	0.5

FORM VI FL PRO

FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGHFID1 Calibration Date: 10/23/03 Time: 1522

Lab File ID: 1J23H21 Init. Calib. Date(s): 09/29/03 09/29/03

Init. Calib. Times: 1744 1833

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	1.275 AMOUNT	CURVE	%D	MAX %d
FLPROTPH	1.4	1.3	LINR	7.7	25.0
o-Terphenyl	0.11	0.10	AVRG	10.0	25.0
C39	0.11	0.10	AVRG	10.0	25.0

FORM VII FL PRO

FL PRO CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGHFID1 Calibration Date: 10/23/03 Time: 1811

Lab File ID: 1J23H33 Init. Calib. Date(s): 09/29/03 09/29/03

Init. Calib. Times: 1744 1833

GC Column: RTX-5 ID: 0.25 (mm)

COMPOUND	SAMPLE AMOUNT	1.275 AMOUNT	CURVE	%D	MAX %d
FLPROTPH	1.5	1.3	LINR	15.4	25.0
o-Terphenyl	0.12	0.10	AVRG	20.0	25.0
C39	0.11	0.10	AVRG	10.0	25.0

FORM VII FL PRO

FL PRO ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: RTX-5 ID: 0.25 (mm) Init. Calib. Date(s): 09/29/03 09/29/03

Instrument ID: TSGHFID1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S2 RT
01	2-9-1	FPRO1 13.7	09/29/03	1744	0.96	3.54
02	2-9-1	FPRO3 13.9	09/29/03	1804	0.96	3.54
03	2-9-1	FPRO4 13.10	09/29/03	1814	0.96	3.56
04	2-9-1	FPRO5 14.1	09/29/03	1823	0.96	3.55
05	2-9-1	FPRO6 14.2	09/29/03	1833	0.96	3.55
06		FPRO4-13.10	10/23/03	1522	0.96	3.54
07	74651-1	086-DWC-S-10	10/23/03	1635	0.96	3.51
08	1022BMB	1022BMB	10/23/03	1654	0.96	3.53
09	1022BLCS	1022BLCS	10/23/03	1704	0.96	3.51
10	1022BLCSD	1022BLCSD	10/23/03	1713	0.96	3.51
11		FPRO4-13.10	10/23/03	1811	0.96	3.54
12						
13						
14						
15						
16						
17						
18						
19						
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34						
35						
36						

		QC LIMITS
S1	= o-Terphenyl	(+/- 0.02 MINUTES)
S2	= C39	(+/- 0.07 MINUTES)

page 1 of 1

FORM VIII FL PRO

EXTRACTION LOG(S)

EXTRACTION LOG

AN 10/22/03

Job No: 629 12 10

Batch No: SG102203 B

Date Extracted: 10.22.03

Start Time: 1530

Stop Time: 0800

Analysis Required: FL PRO

Prep Method: 3520 SGT

Analyst/Activity Code* LS,ME/ABP

Initial Project Check: AN

Final Project Check: AN

Date Concentrated: 10-23-03

Initials: EK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	PRO	6.3.74.5	2.0	AN
Surr.				
Spike	PRO	6.3.74.2	2.0	AN
Spike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

$MeCl_2$: 428E30

1:1 H_2SO_4: AN.A22 0004.3.10

Na_2SO_4: 431626

Si Gel: 43126324

CS_2: 405799

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D.D	H.D	COMMENTS
1. T374572*1/MW-3*		LI	1000	<2	<2	2.0	10.24	10.22	* >12
2. T374639*1/MW-1S*		LI	1000	<2	<2	2.0	10.27	10.24	
3. T374639*2/MW-2D*		LI	1000	<2	<2	2.0	10.27	10.24	
4. T374639*3/MW-1D*		LI	1000	<2	<2	2.0	10.27	10.24	
5. T374651*1/086-DWC-S-1017-03*	JETC04	LI	1000	<2	<2	2.0	10.24	10.24	RI
6. T374692A DW-3		LI	1000	<2	<2	2.0			
7. T374692 IDW-WATER		LI	1000	<2	<2	2.0			
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		LI	1000	7	<2	2.0			
Lab Spike #1		LI	1000	7	<2	2.0			
Lab Spike #2		LI	1000	7	<2	2.0			
MS: T374189 MW 23		LI	500	<2	<2	2.0			
MSD: T374189 MW 23		LI	500	<2	<2	2.0			

AN 10-24-03

Dets: Petroleum Range Organics <FL-PRO> |(-)Petroleum Range Organics <FL-PRO>|

+ Additional Dets:

0125

ANALYSIS LOG(S)

Client SDG: JETC04 Sample Fraction: FL PRO

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4405397	4H0929.b	1I29H43.d	CALIB_1	2-9-1	FPRO1 13.7	4113827		
4405397	4H0929.b	1I29H45.d	CALIB_3	2-9-1	FPRO3 13.9	4113828		
4405397	4H0929.b	1I29H46.d	CALIB_4	2-9-1	FPRO4 13.10	4113829		
4405397	4H0929.b	1I29H47.d	CALIB_5	2-9-1	FPRO5 14.1	4113830		
4405397	4H0929.b	1I29H48.d	CALIB_6	2-9-1	FPRO6 14.2	4113831		
4113728	1H1023.b	1J23H21.d	CCALIB_4		FPRO4-13.10	4113751		
4113728	1H1023.b	1J23H33.d	CCALIB_4		FPRO4-13.10	4113755		
4113728	1H1023.b	1J23H25.d	BLANK	1022BMB	1022BMB	4113763	SG102203B	JETC04
4113728	1H1023.b	1J23H26.d	LCS	1022BLCS	1022BLCS	4113764	SG102203B	JETC04
4113728	1H1023.b	1J23H27.d	LCSD	1022BLCSD	1022BLCSD	4113765	SG102203B	JETC04
4113728	1H1023.b	1J23H23.d	SAMPLE	74651-1	086-DWC-S-1017-0	4113762	SG102203B	JETC04

SEQUENCE FILE: 1I29H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
3	PQL-1 13.7~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
4	FPR04-13.10~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
5	FRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
6	FPR04-13.10~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
7	FRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
8	FPR06-14.2 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
9	FPR05-14.1 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
10	FPR04-13.10~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
11	FPR03-13.9 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
12	FPR02-13.8 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
13	FPR01-13.7 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
14	FPR05-14.1 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
15	FPR01-13.7 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
16	FPR02-13.8 ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
17	FRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
18	CHKSTD-14.3~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
19	CRINSE ~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
20	CHKSTD-14.3~1H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
21	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
22	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
23	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
24	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
25	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
26	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
27	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
28	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
29	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
30	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
31	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
32	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
33	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
34	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
35	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
36	CRINSE ~2H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
37	FPR06-14.2 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
38	FPR05-14.1 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
39	FPR04-13.10~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
40	FPR03-13.9 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
41	FPR02-13.8 ~3H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
42	FRINSE ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
43	FPR01 13.7 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
44	FPR02 13.8 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
45	FPR03 13.9 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
46	FPR04 13.10~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
47	FPR05 14.1 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
48	FPR06 14.2 ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
49	INST BLK ~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000
50	CHKSTD 14.3~4H0929	EZFL	1I29H	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 1J23H

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	RINSE ~ 1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
2	RINSE ~ 1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
3	PQL-13.7 ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
4	FPR04-13.10~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
5	FRINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
6	FRINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
7	74616-1~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
8	7RINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
9	1021KMB ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
10	1021KLCS ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
11	1021KLCSD ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
12	74578-2~1H1023~MS	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
13	74578-2~1H1023~MSD	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
14	74578-2~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
15	74578-1~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
16	7RINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
17	74616-1~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
18	74626-2~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
19	7RINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
20	7RINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
21	FPR04-13.10~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
22	FRINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
23	74651-1 ~ 1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
24	7RINSE ~ 1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
25	1022BMB ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
26	1022BLCS ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
27	1022BLCSD ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
28	74189-MS ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
29	74189-MSD ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
30	74572-1 ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
31	7RINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
32	7RINSE ~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000
33	FPR04-13.10~1H1023	EZFL	1J23H	1.0000	1.0000	1.0000	1.0000

ORGANOCHLORINE PESTICIDES
Method 8081

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PEST-PCB ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J24C15

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/24/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	3.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U
57-74-9	Chlordane	0.50	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1023BMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1023BMB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J27C12

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/27/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	3.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U
57-74-9	Chlordane	0.50	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1023BMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1023BMBLCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J27D9

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/27/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.034	J
76-44-8	Heptachlor	0.036	J
309-00-2	Aldrin	0.037	J
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.082	J
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.096	J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.099	J
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
57-74-9	Chlordane	0.50	U

FORM I PEST-PCB

PEST-PCB ORGANICS ANALYSIS DATA SHEET

1023BMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1023BMBLCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1J27D10

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/27/03

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.032	J
76-44-8	Heptachlor	0.034	J
309-00-2	Aldrin	0.036	J
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.080	J
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.098	J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
57-74-9	Chlordane	0.50	U

FORM I PEST-PCB

WATER PEST-PCB SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column(1): DB-5 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 (TCX) #	S1 2 (TCX) #	S2 1 (DCB) #	S2 2 (DCB) #	S3 1 (DBC) #	S3 2 (DBC) #	S4 1 #	S4 2 #	TOT OUT
01	74651-1	72	76	96	96	102	104			0
02	1023BMBLCS	58	56	64	60	90	84			0
03	1023BMBLCSD	60	64	62	62	94	92			0
04	1023BMB	68	70	58	66	100	108			0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)	
S2 (DCB)	= Decachlorobiphenyl	(30-150)	(advisory)
S3 (DBC)	= Dibutylchlorendate	(30-150)	

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

WATER PEST-PCB LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix Spike - Sample No.: 1023BMB

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONC (ug/l)	LCS CONC (ug/l)	LCS % REC#	QC. LIMITS REC.
Aldrin	0.050	0.00	0.037	74	38-129
gamma-BHC (Lindane)	0.050	0.00	0.034	68	40-139
4,4'-DDT	0.12	0.00	0.099	82	50-147
Dieldrin	0.12	0.00	0.082	68	34-150
Endrin	0.12	0.00	0.096	80	41-158
Heptachlor	0.050	0.00	0.036	72	37-148

COMPOUND	SPIKE ADDED (ug/l)	LCSD CONC (ug/l)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.050	0.036	72	73	2.7	25	38-129
gamma-BHC (Lindane)	0.050	0.032	64	66	6.1	26	40-139
4,4'-DDT	0.12	0.10	83	82	1.0	27	50-147
Dieldrin	0.12	0.080	67	68	2.5	42	34-150
Endrin	0.12	0.098	82	81	2.1	25	41-158
Heptachlor	0.050	0.034	68	70	5.7	26	37-148

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM III PEST-PCB

0130

PEST-PCB METHOD BLANK SUMMARY

1023BMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: 1J24C15 Lab Sample ID: 1023BMB

Instrument ID: TSGCECD1 Matrix: (soil/water) WATER

Level:(low/med) LOW Date Extracted: 10/23/03

Date Analyzed (1): 10/24/03 Date Analyzed (2): 10/27/03

Time Analyzed (1): 1542 Time Analyzed (2): 1303

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	1023BMBLCS	1023BMBLCS	1J27D09	10/27/03	10/27/03
02	1023BMBLCSD	1023BMBLCSD	1J27D10	10/27/03	10/27/03
03	1023BMB	1023BMB	1J27C12	10/27/03	10/27/03
04	74651-1	086-DWC-S-1017	1J24C15	10/24/03	10/24/03
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

COMMENTS:

Data file : 1I22C7.d
Lab Smp Id : PEM 29216
Inj Date : 22-SEP-2003 14:56
Inst ID : TSGCECD1.i
Smp Info : PEM 29216~1C0922

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	354053			N/A
4,4-DDE	2052	0.6	15.0	PASS
4,4-DDD	10566	2.9	15.0	PASS
4,4-DDD + DDE	12618	3.4	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	245492			N/A
E. Aldehyde	2618	1.1	15.0	PASS
E. Ketone	4204	1.7	15.0	PASS
Ketone+Aldehyde	6822	2.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 2I22C7.d
Lab Smp Id : PEM 29216
Inj Date : 22-SEP-2003 14:56
Inst ID : TSGCECD2.i
Smp Info : PEM 29216~1C0922

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	344232			N/A
4,4-DDE	2119	0.6	15.0	PASS
4,4-DDD	9073	2.6	15.0	PASS
4,4-DDD + DDE	11192	3.1	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	193289			N/A
E. Aldehyde	2957	1.5	15.0	PASS
E. Ketone	6424	3.2	15.0	PASS
Ketone+Aldehyde	9381	4.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 1J08C5.d
Lab Smp Id : PEM 292812
Inj Date : 08-OCT-2003 12:17
Inst ID : TSGCECD1.i
Smp Info : PEM 292812~1C1008

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	359065			N/A
4,4-DDE	2144	0.6	15.0	PASS
4,4-DDD	2220	0.6	15.0	PASS
4,4-DDD + DDE	4364	1.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	219873			N/A
E. Aldehyde	1066	0.5	15.0	PASS
E. Ketone	2546	1.1	15.0	PASS
Ketone+Aldehyde	3612	1.6	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 2J08C5.d
Lab Smp Id : PEM 292812
Inj Date : 08-OCT-2003 12:17
Inst ID : TSGCECD2.i
Smp Info : PEM 292812~1C1008

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	360643			N/A
4,4-DDE	1466	0.4	15.0	PASS
4,4-DDD	2870	0.8	15.0	PASS
4,4-DDD + DDE	4336	1.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	176806			N/A
E. Aldehyde	1582	0.9	15.0	PASS
E. Ketone	3326	1.8	15.0	PASS
Ketone+Aldehyde	4908	2.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0144

Data file : 1J24C5.d
Lab Smp Id : PEM 292812
Inj Date : 24-OCT-2003 10:33
Inst ID : TSGCECD1.i
Smp Info : PEM 292812~1D1024

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	357811			N/A
4,4-DDE	2573	0.7	15.0	PASS
4,4-DDD	11455	3.1	15.0	PASS
4,4-DDD + DDE	14028	3.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	220262			N/A
E. Aldehyde	3075	1.4	15.0	PASS
E. Ketone	6954	3.1	15.0	PASS
Ketone+Aldehyde	10029	4.4	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 2J24C5.d
Lab Smp Id : PEM 292812
Inj Date : 24-OCT-2003 10:33
Inst ID : TSGCECD2.i
Smp Info : PEM 292812~1D1024

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	341146			N/A
4,4-DDE	2056	0.6	15.0	PASS
4,4-DDD	9567	2.7	15.0	PASS
4,4-DDD + DDE	11623	3.3	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	179913			N/A
E. Aldehyde	2549	1.4	15.0	PASS
E. Ketone	7095	3.8	15.0	PASS
Ketone+Aldehyde	9644	5.1	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

Data file : 1J27C4.d
Lab Smp Id : PEM 292812
Inj Date : 27-OCT-2003 09:11
Inst ID : TSGCECD1.i
Smp Info : PEM 292812~1C1028

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	343909			N/A
4,4-DDE	1876	0.5	15.0	PASS
4,4-DDD	9328	2.6	15.0	PASS
4,4-DDD + DDE	11204	3.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	227680			N/A
E. Aldehyde	1732	0.8	15.0	PASS
E. Ketone	4910	2.1	15.0	PASS
Ketone+Aldehyde	6642	2.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0147

Data file : 2J27C4.d
Lab Smp Id : PEM 292812
Inj Date : 27-OCT-2003 09:11
Inst ID : TSGCECD2.i
Smp Info : PEM 292812~1C1028

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	326339			N/A
4,4-DDE	1262	0.4	15.0	PASS
4,4-DDD	8785	2.6	15.0	PASS
4,4-DDD + DDE	10047	3.0	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	171519			N/A
E. Aldehyde	1613	0.9	15.0	PASS
E. Ketone	8108	4.5	15.0	PASS
Ketone+Aldehyde	9721	5.4	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0148

Data file : 1J21D10.d
Lab Smp Id : PEM 292812
Inj Date : 21-OCT-2003 14:48
Inst ID : TSGDECD1.i
Smp Info : PEM 292812~1D1021

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	318261			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	12623	3.8	15.0	PASS
4,4-DDD + DDE	12623	3.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	193906			N/A
E. Aldehyde	3062	1.6	15.0	PASS
E. Ketone	7682	3.8	15.0	PASS
Ketone+Aldehyde	10744	5.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0140

Data file : 2J21D10.d
Lab Smp Id : PEM 292812
Inj Date : 21-OCT-2003 14:48
Inst ID : TSGDECD2.i
Smp Info : PEM 292812~1D1021

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	187513			N/A
4,4-DDE	1244	0.7	15.0	PASS
4,4-DDD	9991	5.1	15.0	PASS
4,4-DDD + DDE	11235	5.7	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	117707			N/A
E. Aldehyde	2714	2.3	15.0	PASS
E. Ketone	3708	3.1	15.0	PASS
Ketone+Aldehyde	6422	5.2	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0150

Data file : 1J27D4.d
Lab Smp Id : PEM 292812
Inj Date : 27-OCT-2003 09:09
Inst ID : TSGDECD1.i
Smp Info : PEM 292812~1D1027

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	314772			N/A
4,4-DDE	2076	0.7	15.0	PASS
4,4-DDD	12325	3.8	15.0	PASS
4,4-DDD + DDE	14401	4.4	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	195800			N/A
E. Aldehyde	2877	1.4	15.0	PASS
E. Ketone	8591	4.2	15.0	PASS
Ketone+Aldehyde	11468	5.5	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0151

Data file : 2J27D4.d
Lab Smp Id : PEM 292812
Inj Date : 27-OCT-2003 09:09
Inst ID : TSGDECD2.i
Smp Info : PEM 292812~1D1027

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	168038			N/A
4,4-DDE	1469	0.9	15.0	PASS
4,4-DDD	8819	5.0	15.0	PASS
4,4-DDD + DDE	10288	5.8	15.0	PASS

****
PEM SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	108085			N/A
E. Aldehyde	1648	1.5	15.0	PASS
E. Ketone	7081	6.1	15.0	PASS
Ketone+Aldehyde	8729	7.5	15.0	PASS

****
PEM SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

0152

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1245 1501

LAB FILE ID: RF0.005: 1J08C6 RF0.02: 1J08C7 RF0.04: 1J08C8
RF0.08: 1J08C9 RF0.1: 1J08C10

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
alpha-BHC	1.93256	1.84609	1.98065	1.99948	2.07962
gamma-BHC (Lindane)	1.83754	1.77492	2.01047	2.05434	2.02030
Heptachlor	1.50762	1.35973	1.56874	1.53468	1.53415
Endosulfan I	0.96072	0.81170	0.92813	0.97247	0.98204
Dieldrin	1.40419	1.31478	1.40762	1.40691	1.43739
Endrin	1.14946	1.04526	1.12935	1.14990	1.18818
4,4'-DDD	0.98513	0.88821	0.96158	0.99824	1.04923
4,4'-DDT	0.95531	0.86357	0.93194	0.96758	1.02219
Methoxychlor	0.43140	0.44062	0.44868	0.44013	0.43571
Tetrachloro-m-xylene	0.80806	0.64808	0.67498	0.65091	0.71531
Decachlorobiphenyl	0.97621	0.80152	0.80983	0.77007	0.80052
Dibutylchlorendate	0.91482	0.77951	0.85597	0.82710	0.89997

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1245 1501

RF0.16: 1J08C11

COMPOUND	RF0.16
alpha-BHC	1.92456
gamma-BHC (Lindane)	1.81224
Heptachlor	1.46029
Endosulfan I	0.99507
Dieldrin	1.30874
Endrin	1.13122
4,4'-DDD	1.04941
4,4'-DDT	1.02625
Methoxychlor	0.36378
Tetrachloro-m-xylene	0.73513
Decachlorobiphenyl	0.85939
Dibutylchlorendate	0.92615

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1245 1501

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.00000000	0.47823	3.854e-003	0.998
gamma-BHC (Lindane)	2ORDR	0.00000000	0.44052	1.165e-002	0.997
Heptachlor	2ORDR	0.00000000	0.62400	7.936e-003	0.999
Endosulfan I	AVRG		0.94169		7.2
Dieldrin	2ORDR	0.00000000	0.65484	7.882e-003	0.998
Endrin	2ORDR	0.00000000	0.85995	1.624e-003	0.998
4,4'-DDD	2ORDR	0.00000000	1.04739	-9.51e-003	0.998
4,4'-DDT	2ORDR	0.00000000	1.08353	-1.12e-002	0.998
Methoxychlor	2ORDR	0.00000000	1.67078	5.705e-002	0.996
Tetrachloro-m-xylene	2ORDR	0.00000000	1.56591	-5.7e-002	0.998
Decachlorobiphenyl	2ORDR	-0.110	1.38572	-2.42e-002	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.24295	-1.8e-002	0.999

FORM VI PEST-PCB

0155

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1245 1501

LAB FILE ID: RF0.005: 2J08C6 RF0.002: 2J08C7 RF0.04: 2J08C8
RF0.08: 2J08C9 RF0.1: 2J08C10

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
alpha-BHC	1.92532	1.82158	2.26108	2.36368	2.44582
gamma-BHC (Lindane)	1.53852	1.53080	1.89162	2.02182	2.13624
Heptachlor	1.39129	1.34131	1.80380	1.96729	1.94395
Endosulfan I	0.91614	0.82246	0.96574	1.07443	1.13568
Dieldrin	1.23639	1.27000	1.57314	1.65289	1.71420
Endrin	0.98519	0.96512	1.16474	1.25465	1.35464
4,4'-DDD	0.88829	0.86352	1.03692	1.13396	1.25805
4,4'-DDT	0.91033	0.87902	1.06081	1.16313	1.28395
Methoxychlor	0.38804	0.46292	0.53994	0.50828	0.51873
Tetrachloro-m-xylene	0.81784	0.66348	0.71663	0.70360	0.79635
Decachlorobiphenyl	0.94927	0.76245	0.78532	0.76015	0.81875
Dibutylchlorendate	0.84426	0.77693	0.90284	0.90667	1.05014

FORM VI PEST-PCB

0156

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1245 1501

RF0.16: 2J08C11

COMPOUND	RF0.16
alpha-BHC	2.23072
gamma-BHC (Lindane)	2.01778
Heptachlor	1.80080
Endosulfan I	1.31423
Dieldrin	1.55263
Endrin	1.32370
4,4'-DDD	1.28952
4,4'-DDT	1.30662
Methoxychlor	0.42281
Tetrachloro-m-xylene	0.91366
Decachlorobiphenyl	0.91414
Dibutylchlorendate	1.19755

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1245 1501

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.1511	0.36710	5.641e-003	0.995
gamma-BHC (Lindane)	2ORDR	0.1507	0.45736	1.826e-003	0.995
Heptachlor	2ORDR	0.00000000	0.51681	3.41e-003	0.992
Endosulfan I	2ORDR	0.00000000	1.07790	-4.88e-002	0.997
Dieldrin	2ORDR	0.3191	0.51911	6.25e-003	0.995
Endrin	2ORDR	0.00000000	0.84891	-7.73e-003	0.995
4,4'-DDD	2ORDR	0.00000000	0.96821	-1.56e-002	0.994
4,4'-DDT	2ORDR	0.00000000	0.94277	-1.42e-002	0.994
Methoxychlor	2ORDR	1.6854	1.13490	5.245e-002	0.993
Tetrachloro-m-xylene	2ORDR	0.00000000	1.53263	-9.66e-002	0.998
Decachlorobiphenyl	2ORDR	0.00000000	1.39873	-3.33e-002	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.20008	-3.09e-002	0.997

FORM VI PEST-PCB

0158

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1528 1744

LAB FILE ID: RF0.005: 1J08C12 RF0.02: 1J08C13 RF0.04: 1J08C14
RF0.08: 1J08C15 RF0.1: 1J08C16

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
beta-BHC	0.61218	0.52675	0.56852	0.53310	0.58773
delta-BHC	1.71345	1.60796	1.78772	1.70044	1.85062
Aldrin	1.55330	1.34465	1.48725	1.43077	1.55028
Heptachlor epoxide	1.42146	1.21801	1.32810	1.27631	1.39420
4,4'-DDE	1.23394	1.13870	1.30450	1.24253	1.30992
Endosulfan II	1.15970	1.00167	1.13096	1.08344	1.16286
Endosulfan sulfate	1.00862	0.85410	0.93961	0.90388	0.99259
Endrin ketone	1.08447	0.96774	1.09109	1.04729	1.12619
Endrin aldehyde	0.82457	0.70410	0.77711	0.75316	0.83195
alpha-Chlordane	1.29384	1.09470	1.18156	1.13829	1.24557
gamma-Chlordane	1.44964	1.23889	1.35308	1.30269	1.43210
Tetrachloro-m-xylene	0.80806	0.64808	0.67498	0.65091	0.71531
Decachlorobiphenyl	0.97621	0.80152	0.80983	0.77007	0.80052
Dibutylchlorendate	0.91482	0.77951	0.85597	0.82710	0.89997

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1528 1744

RF0.16: 1J08C17

COMPOUND	RF0.16
beta-BHC	0.60960
delta-BHC	1.86890
Aldrin	1.55761
Heptachlor epoxide	1.41992
4,4'-DDE	1.25006
Endosulfan II	1.14804
Endosulfan sulfate	1.06511
Endrin ketone	1.09316
Endrin aldehyde	0.85642
alpha-Chlordane	1.30975
gamma-Chlordane	1.47712
Tetrachloro-m-xylene	0.73513
Decachlorobiphenyl	0.85939
Dibutylchlorendate	0.92615

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 10/08/03 10/08/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1528 1744

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	1.90265	-8.73e-002	0.998
delta-BHC	2ORDR	0.00000000	0.59331	-6.44e-003	0.998
Aldrin	2ORDR	0.00000000	0.70638	-8.59e-003	0.998
Heptachlor epoxide	2ORDR	0.00000000	0.79751	-1.35e-002	0.998
4,4'-DDE	2ORDR	0.00000000	0.77386	1.756e-003	0.998
Endosulfan II	2ORDR	0.00000000	0.91994	-4.59e-003	0.998
Endosulfan sulfate	2ORDR	0.00000000	1.16024	-2.1e-002	0.999
Endrin ketone	2ORDR	0.00000000	0.94034	-2.79e-003	0.998
Endrin aldehyde	2ORDR	0.00000000	1.36898	-2.41e-002	0.998
alpha-Chlordane	2ORDR	0.00000000	0.91078	-2.28e-002	0.999
gamma-Chlordane	2ORDR	0.00000000	0.78846	-1.54e-002	0.998
Tetrachloro-m-xylene	2ORDR	0.00000000	1.56591	-5.7e-002	0.998
Decachlorobiphenyl	2ORDR	-0.110	1.38572	-2.42e-002	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.24295	-1.8e-002	0.999

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1528 1744

LAB FILE ID: RF0.005: 2J08C12 RF0.002: 2J08C13 RF0.04: 2J08C14
RF0.08: 2J08C15 RF0.1: 2J08C16

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
beta-BHC	0.63102	0.52957	0.57334	0.57111	0.62336
delta-BHC	1.52941	1.49869	1.92323	1.88854	2.07192
Aldrin	1.44046	1.28861	1.57812	1.59322	1.79364
Heptachlor epoxide	1.21310	1.11902	1.28118	1.27722	1.47039
4,4'-DDE	1.10427	1.12985	1.48978	1.46732	1.59177
Endosulfan II	1.00945	0.96313	1.19740	1.19995	1.34561
Endosulfan sulfate	0.88154	0.81880	0.95395	0.95252	1.10164
Endrin ketone	0.94355	0.87326	1.07408	1.08214	1.23956
Endrin aldehyde	0.73762	0.67078	0.76292	0.76203	0.88796
alpha-Chlordane	1.22866	1.04134	1.17125	1.16202	1.34540
gamma-Chlordane	1.22470	1.14506	1.29766	1.31282	1.51802
Tetrachloro-m-xylene	0.81784	0.66348	0.71663	0.70360	0.79635
Decachlorobiphenyl	0.94927	0.76245	0.78532	0.76015	0.81875
Dibutylchlorendate	0.84426	0.77693	0.90284	0.90667	1.05014

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1528 1744

RF0.16: 2J08C17

COMPOUND	RF0.16
beta-BHC	0.72918
delta-BHC	1.99451
Aldrin	1.82498
Heptachlor epoxide	1.62256
4,4'-DDE	1.46431
Endosulfan II	1.32764
Endosulfan sulfate	1.19166
Endrin ketone	1.25218
Endrin aldehyde	0.98129
alpha-Chlordane	1.56518
gamma-Chlordane	1.71763
Tetrachloro-m-xylene	0.91366
Decachlorobiphenyl	0.91414
Dibutylchlorendate	1.19755

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 10/08/03 10/08/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1528 1744

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	1.92373	-0.152	0.999
delta-BHC	2ORDR	0.1294	0.48765	-3.06e-004	0.996
Aldrin	2ORDR	0.1085	0.61804	-9.4e-003	0.996
Heptachlor epoxide	2ORDR	0.00000000	0.84205	-2.83e-002	0.997
4,4'-DDE	2ORDR	0.3151	0.58729	4.586e-003	0.994
Endosulfan II	2ORDR	0.2437	0.79593	-5.05e-003	0.996
Endosulfan sulfate	2ORDR	0.00000000	1.12357	-2.43e-002	0.996
Endrin ketone	2ORDR	0.2377	0.89957	-1.01e-002	0.995
Endrin aldehyde	2ORDR	0.00000000	1.40904	-4.04e-002	0.996
alpha-Chlordane	2ORDR	0.00000000	0.93392	-3.81e-002	0.997
gamma-Chlordane	2ORDR	0.00000000	0.82827	-2.9e-002	0.997
Tetrachloro-m-xylene	2ORDR	0.00000000	1.53263	-9.66e-002	0.998
Decachlorobiphenyl	2ORDR	0.00000000	1.39873	-3.33e-002	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.20008	-3.09e-002	0.997

FORM VI PEST-PCB

0164

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/23/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 0217 0433

LAB FILE ID: RF0.005: 1I22C32 RF0.02: 1I22C33 RF0.04: 1I22C34
RF0.08: 1I22C35 RF0.1: 1I22C36

COMPOUND	RF0.005	RF0.02	RF0.04	RF0.08	RF0.1
Aroclor-1016	0.01575	0.01299	0.01058	0.01098	0.01042
(2)	0.02145	0.01585	0.01305	0.01304	0.01267
(3)	0.03344	0.02268	0.01764	0.01815	0.01743
(4)	0.01591	0.01208	0.00973	0.01010	0.00939
(5)	0.02302	0.01786	0.01414	0.01476	0.01385
Aroclor-1260	0.06868	0.05281	0.04533	0.04693	0.04455
(2)	0.04295	0.03370	0.02853	0.02936	0.02754
(3)	0.06638	0.05166	0.04450	0.04502	0.04266
(4)	0.04436	0.03495	0.03083	0.03004	0.02840
(5)	0.03988	0.03194	0.02706	0.02857	0.02659
Tetrachloro-m-xylene (#)	1.00307	0.79002	0.71815	0.75379	0.74029
Decachlorobiphenyl (#)	1.32103	1.00662	0.83108	0.87769	0.83171
Dibutylchlorendate (#)	0.79520	0.59265	0.55989	0.59581	0.61107

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/23/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 0217 0433

RF0.16: 1I22C37

COMPOUND	RF0.16
Aroclor-1016	0.01078
(2)	0.01262
(3)	0.01758
(4)	0.00984
(5)	0.01427
Aroclor-1260	0.04774
(2)	0.02920
(3)	0.04521
(4)	0.03008
(5)	0.02769
Tetrachloro-m-xylene (#)	0.79890
Decachlorobiphenyl (#)	0.87859
Dibutylchlorendate (#)	0.66272

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/23/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 0217 0433

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	-2.149	103.181	-10.58	0.998
(2)	2ORDR	-2.315	82.1547	1.6302	0.999
(3)	2ORDR	-3.336	64.0576	-3.584	0.998
(4)	2ORDR	-2.703	115.559	-14.95	0.997
(5)	2ORDR	-2.550	77.3776	-4.405	0.997
Aroclor-1260	2ORDR	0.00000000	21.9771	-0.281	0.996
(2)	2ORDR	0.00000000	34.0231	0.5752	0.996
(3)	2ORDR	0.00000000	22.0702	0.1988	0.996
(4)	2ORDR	0.00000000	31.9300	1.3254	0.996
(5)	2ORDR	0.00000000	34.8177	1.3039	0.997
Tetrachloro-m-xylene (#)	2ORDR	0.00000000	1.44601	-4.52e-002	0.998
Decachlorobiphenyl (#)	2ORDR	0.00000000	1.16070	-1.01e-003	0.996
Dibutylchlorendate (#)	2ORDR	0.00000000	1.89845	-0.115	0.999

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/23/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 0217 0433

LAB FILE ID: RF0.005: 2I22C32 RF0.002: 2I22C33 RF0.04: 2I22C34
RF0.08: 2I22C35 RF0.1: 2I22C36

COMPOUND	RF0.005	RF0.002	RF0.04	RF0.08	RF0.1
Aroclor-1016	0.02585	0.01570	0.01114	0.01110	0.00987
(2)	0.01976	0.01465	0.01142	0.01114	0.01042
(3)	0.02024	0.01542	0.01264	0.01241	0.01181
(4)	0.01232	0.00898	0.00758	0.00712	0.00688
(5)	0.01114	0.00921	0.00809	0.00739	0.00732
Aroclor-1260	0.06980	0.05008	0.04184	0.04237	0.04217
(2)	0.04639	0.03613	0.03011	0.03073	0.02761
(3)	0.03842	0.03004	0.02618	0.02686	0.02681
(4)	0.06770	0.05006	0.04408	0.04574	0.04345
(5)	0.04589	0.03549	0.02971	0.03091	0.02948
Tetrachloro-m-xylene (#)	1.01421	0.81793	0.82744	0.82709	0.88932
Decachlorobiphenyl (#)	1.30391	0.96737	0.84254	0.86192	0.83157
Dibutylchlorendate (#)	0.79702	0.66134	0.70007	0.73140	0.81127

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/23/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 0217 0433

RF0.16: 2I22C37

COMPOUND	RF0.16
Aroclor-1016	0.00933
(2)	0.01064
(3)	0.01201
(4)	0.00716
(5)	0.00775
Aroclor-1260	0.04148
(2)	0.02847
(3)	0.02605
(4)	0.04506
(5)	0.02867
Tetrachloro-m-xylene (#)	0.97894
Decachlorobiphenyl (#)	0.86742
Dibutylchlorendate (#)	0.91046

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/23/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 0217 0433

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Aroclor-1016	2ORDR	0.00000000	49.1765	127.38	0.997
(2)	2ORDR	0.00000000	75.1919	39.552	0.995
(3)	2ORDR	0.00000000	71.0322	22.943	0.997
(4)	2ORDR	0.00000000	125.390	49.059	0.995
(5)	2ORDR	0.00000000	126.008	15.025	0.994
Aroclor-1260	2ORDR	0.00000000	21.7502	1.1951	0.998
(2)	2ORDR	0.00000000	29.1094	4.7021	0.995
(3)	2ORDR	0.00000000	35.0996	2.4707	0.999
(4)	2ORDR	0.00000000	21.7932	0.3027	0.998
(5)	2ORDR	0.00000000	28.8814	4.2406	0.998
Tetrachloro-m-xylene (#)	2ORDR	-0.123	1.45281	-8.28e-002	1.000
Decachlorobiphenyl (#)	2ORDR	0.00000000	1.15925	2.251e-003	0.998
Dibutylchlorendate (#)	2ORDR	-5.37e-002	1.65208	-0.120	1.000

FORM VI PEST-PCB

0170

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 0433

RF0.04: 1I22C26

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	0.01956	AVRG	1.956e-002	0.0
(2)	0.11562	AVRG	0.11562	0.0
(3)	0.02426	AVRG	2.427e-002	0.0
(4)	0.09118	AVRG	9.119e-002	0.0
(5)	0.06077	AVRG	6.077e-002	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 0433

RF0.04: 2I22C26

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Chlordane	0.01901	AVRG	1.901e-002	0.0
(2)	0.17298	AVRG	0.17298	0.0
(3)	0.10694	AVRG	0.10694	0.0
(4)	0.02405	AVRG	2.405e-002	0.0
(5)	0.09866	AVRG	9.866e-002	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 0433

RF0.04: 1I22C27

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	0.01365	AVRG	1.365e-002	0.0
(2)	0.00882	AVRG	8.818e-003	0.0
(3)	0.01526	AVRG	1.527e-002	0.0
(4)	0.01311	AVRG	1.311e-002	0.0
(5)	0.00881	AVRG	8.809e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 0433

RF0.04: 2I22C27

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Toxaphene	0.02153	AVRG	2.153e-002	0.0
(2)	0.02096	AVRG	2.096e-002	0.0
(3)	0.02426	AVRG	2.426e-002	0.0
(4)	0.01427	AVRG	1.427e-002	0.0
(5)	0.04746	AVRG	4.746e-002	0.0

FORM VI PEST-PCB

0174

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 0433

RF0.04: 1I22C28

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.00613	AVRG	6.133e-003	0.0
(2)	0.00739	AVRG	7.394e-003	0.0
(3)	0.00372	AVRG	3.718e-003	0.0
(4)	0.00439	AVRG	4.389e-003	0.0
(5)	0.00406	AVRG	4.056e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 0433

RF0.04: 2I22C28

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1232	0.01064	AVRG	1.064e-002	0.0
(2)	0.00752	AVRG	7.523e-003	0.0
(3)	0.00687	AVRG	6.875e-003	0.0
(4)	0.00455	AVRG	4.551e-003	0.0
(5)	0.00404	AVRG	4.044e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 0433

RF0.04: 1I22C29

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.00887	AVRG	8.873e-003	0.0
(2)	0.02137	AVRG	2.137e-002	0.0
(3)	0.00991	AVRG	9.911e-003	0.0
(4)	0.00939	AVRG	9.389e-003	0.0
(5)	0.00875	AVRG	8.755e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 0433

RF0.04: 2I22C29

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1242	0.01426	AVRG	1.426e-002	0.0
(2)	0.01988	AVRG	1.988e-002	0.0
(3)	0.00940	AVRG	9.406e-003	0.0
(4)	0.00867	AVRG	8.673e-003	0.0
(5)	0.00789	AVRG	7.892e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 0433

RF0.04: 1I22C30

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.00704	AVRG	7.042e-003	0.0
(2)	0.01276	AVRG	1.276e-002	0.0
(3)	0.01639	AVRG	1.639e-002	0.0
(4)	0.01344	AVRG	1.344e-002	0.0
(5)	0.00674	AVRG	6.744e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 0433

RF0.04: 2I22C30

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1248	0.01460	AVRG	1.46e-002	0.0
(2)	0.01508	AVRG	1.508e-002	0.0
(3)	0.01302	AVRG	1.302e-002	0.0
(4)	0.01283	AVRG	1.283e-002	0.0
(5)	0.00559	AVRG	5.593e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date(s): 09/02/03 09/23/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1216 0433

RF0.04: 1I22C31

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.00558	AVRG	5.577e-003	0.0
(2)	0.00443	AVRG	4.431e-003	0.0
(3)	0.01376	AVRG	1.376e-002	0.0
Aroclor-1254	0.01424	AVRG	1.424e-002	0.0
(2)	0.00706	AVRG	7.058e-003	0.0
(3)	0.01456	AVRG	1.456e-002	0.0
(4)	0.02295	AVRG	2.295e-002	0.0
(5)	0.00762	AVRG	7.619e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date(s): 09/22/03 09/23/03

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1523 0433

RF0.04: 2I22C31

COMPOUND	RF0.04	CURVE	AVE RRF A1	%RSD or R^2
Aroclor-1221	0.00411	AVRG	4.108e-003	0.0
(2)	0.01191	AVRG	1.191e-002	0.0
(3)	0.00299	AVRG	2.989e-003	0.0
Aroclor-1254	0.00730	AVRG	7.298e-003	0.0
(2)	0.00706	AVRG	7.063e-003	0.0
(3)	0.01456	AVRG	1.456e-002	0.0
(4)	0.01623	AVRG	1.623e-002	0.0
(5)	0.00902	AVRG	9.019e-003	0.0

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1514 1724

LAB FILE ID: RF0.002: 1J21D11 RF0.02: 1J21D12 RF0.04: 1J21D13
RF0.05: 1J21D14 RF0.06: 1J21D15

COMPOUND	RF0.002	RF0.02	RF0.04	RF0.05	RF0.06
alpha-BHC	1.85900	1.78880	2.02124	2.10713	2.26956
gamma-BHC (Lindane)	1.80484	1.64116	1.81064	1.91469	2.09021
Heptachlor	1.71319	1.58751	1.69930	1.77922	1.92261
Endosulfan I	0.93608	0.87746	0.88954	0.96079	1.02808
Dieldrin	1.54718	1.58819	1.81835	1.82927	1.86432
Endrin	1.32293	1.23730	1.43132	1.48189	1.55952
4,4'-DDD	1.10176	1.09216	1.21444	1.26365	1.38526
4,4'-DDT	1.57272	0.99749	1.07523	1.11920	1.24464
Methoxychlor	0.51446	0.52085	0.59106	0.58721	0.59211
Tetrachloro-m-xylene	0.69697	0.56050	0.55248	0.51711	0.55653
Decachlorobiphenyl	1.27127	0.96696	0.95891	0.89916	0.98817
Dibutylchlorendate	1.07708	0.92985	1.00327	0.96090	1.08754

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1514 1724

RF1: 1J21D16

COMPOUND	RF1
alpha-BHC	2.22202
gamma-BHC (Lindane)	2.11542
Heptachlor	2.06352
Endosulfan I	1.07248
Dieldrin	1.72029
Endrin	1.55253
4,4'-DDD	1.45883
4,4'-DDT	1.39766
Methoxychlor	0.53737
Tetrachloro-m-xylene	0.59733
Decachlorobiphenyl	1.04589
Dibutylchlorendate	1.22238

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1514 1724

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	0.00000000	0.49417	-4.33e-003	0.997
gamma-BHC (Lindane)	2ORDR	0.00000000	0.55761	-8.39e-003	0.997
Heptachlor	2ORDR	0.00000000	0.61248	-1.26e-002	0.999
Endosulfan I	2ORDR	0.00000000	1.12953	-3.77e-002	0.998
Dieldrin	2ORDR	0.00000000	0.52002	3.273e-003	0.998
Endrin	2ORDR	0.00000000	0.70790	-4.39e-003	0.998
4,4'-DDD	2ORDR	0.00000000	0.85536	-1.19e-002	0.998
4,4'-DDT	2ORDR	0.00000000	0.98296	-1.94e-002	0.998
Methoxychlor	2ORDR	0.00000000	1.55764	1.069e-002	0.998
Tetrachloro-m-xylene	2ORDR	0.00000000	1.96976	-9.82e-002	0.998
Decachlorobiphenyl	2ORDR	0.00000000	1.12660	-1.63e-002	0.998
Dibutylchlorendate	2ORDR	0.00000000	1.10349	-2.35e-002	0.998

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD2 Calibration Date(s): 10/21/03 10/21/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1514 1724

LAB FILE ID: RF1: 2J21D11 RF2.5: 2J21D12 RF5: 2J21D13
RF10: 2J21D14 RF20: 2J21D15

COMPOUND	RF1	RF2.5	RF5	RF10	RF20
alpha-BHC	1.84409	1.66947	1.66804	1.68115	1.72035
gamma-BHC (Lindane)	1.35162	1.17115	1.17450	1.17692	1.20338
Heptachlor	1.75185	1.47545	1.45434	1.45793	1.47765
Endosulfan I	1.78880	1.27028	1.22927	1.21558	1.23112
Dieldrin	1.55186	1.38856	1.39838	1.38209	1.38271
Endrin	1.31350	1.11651	1.12236	1.11448	1.13307
4,4'-DDD	1.21299	1.06437	1.04648	1.03100	1.06120
4,4'-DDT	1.14891	0.97483	0.97908	0.97588	0.99471
Methoxychlor	0.53783	0.45877	0.46780	0.45519	0.45174
Tetrachloro-m-xylene	0.72312	0.57544	0.55810	0.52028	0.55209
Decachlorobiphenyl	1.27043	0.95187	0.92470	0.85986	0.91588
Dibutylchlorendate	1.26075	0.98384	0.99216	0.92984	0.99500

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD2 Calibration Date(s): 10/21/03 10/21/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1514 1724

RF0: 2J21D16

COMPOUND	RF0
alpha-BHC	1.66702
gamma-BHC (Lindane)	1.13155
Heptachlor	1.50050
Endosulfan I	1.23945
Dieldrin	1.27046
Endrin	1.11601
4,4'-DDD	1.05177
4,4'-DDT	1.02133
Methoxychlor	0.41130
Tetrachloro-m-xylene	0.55005
Decachlorobiphenyl	0.90416
Dibutylchlorendate	0.98938

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD2 Calibration Date(s): 10/21/03 10/21/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1514 1724

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
alpha-BHC	2ORDR	1.068e-002	0.57981	2.072e-003	1.000
gamma-BHC (Lindane)	2ORDR	0.00000000	0.80565	1.316e-002	0.999
Heptachlor	2ORDR	0.00000000	0.69634	-3.97e-003	1.000
Endosulfan I	2ORDR	0.00000000	0.81818	-1.69e-003	1.000
Dieldrin	2ORDR	0.00000000	0.65077	1.049e-002	1.000
Endrin	2ORDR	0.00000000	0.88520	8.914e-004	1.000
4,4'-DDD	2ORDR	0.00000000	0.95687	-6.25e-004	1.000
4,4'-DDT	2ORDR	0.00000000	1.05004	-6.93e-003	1.000
Methoxychlor	2ORDR	0.00000000	1.91374	2.474e-002	1.000
Tetrachloro-m-xylene	2ORDR	0.00000000	1.84389	-8.77e-003	0.999
Decachlorobiphenyl	2ORDR	-0.119	1.15386	-3.89e-003	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.04346	-3.37e-003	0.999

FORM VI PEST-PCB

0188

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1750 2001

LAB FILE ID: RF0.002: 1J21D17 RF0.02: 1J21D18 RF0.04: 1J21D19
RF0.05: 1J21D20 RF0.06: 1J21D21

COMPOUND	RF0.002	RF0.02	RF0.04	RF0.05	RF0.06
beta-BHC	0.46169	0.37574	0.36942	0.35433	0.36550
delta-BHC	1.74488	1.61119	1.85258	1.80347	2.01422
Aldrin	1.62915	1.47614	1.62491	1.58145	1.79100
Heptachlor epoxide	1.69274	1.36677	1.49254	1.44391	1.62826
4,4'-DDE	2.03893	1.30410	1.55661	1.50705	1.67546
Endosulfan II	1.30600	1.16467	1.36767	1.33784	1.50574
Endosulfan sulfate	1.80144	1.02258	1.12436	1.07500	1.22184
Endrin ketone	0.61922	0.56170	0.65236	0.66421	0.73382
Endrin aldehyde	1.00696	0.84287	0.92886	0.90695	1.04370
alpha-Chlordane	1.48760	1.24678	1.35155	1.30909	1.49343
gamma-Chlordane	1.60758	1.38508	1.51056	1.47163	1.65372
Tetrachloro-m-xylene	0.69697	0.56050	0.55248	0.51711	0.55653
Decachlorobiphenyl	1.27127	0.96696	0.95891	0.89916	0.98817
Dibutylchlorendate	1.07708	0.92985	1.00327	0.96090	1.08754

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1750 2001

RF1: 1J21D22

COMPOUND	RF1
beta-BHC	0.41293
delta-BHC	2.05652
Aldrin	1.90547
Heptachlor epoxide	1.78797
4,4'-DDE	1.61374
Endosulfan II	1.50856
Endosulfan sulfate	1.33989
Endrin ketone	0.68412
Endrin aldehyde	1.18126
alpha-Chlordane	1.71521
gamma-Chlordane	1.85108
Tetrachloro-m-xylene	0.59733
Decachlorobiphenyl	1.04589
Dibutylchlorendate	1.22238

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.53 (mm) Calibration Time(s): 1750 2001

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	2.99104	-0.272	0.999
delta-BHC	2ORDR	0.00000000	0.57330	-8.75e-003	0.997
Aldrin	2ORDR	0.00000000	0.66314	-1.48e-002	0.998
Heptachlor epoxide	2ORDR	0.00000000	0.73289	-1.96e-002	0.998
4,4'-DDE	2ORDR	0.00000000	0.66132	-2.93e-003	0.996
Endosulfan II	2ORDR	0.00000000	0.76854	-7.35e-003	0.996
Endosulfan sulfate	2ORDR	0.00000000	0.97705	-1.74e-002	0.998
Endrin ketone	2ORDR	0.00000000	1.50410	-9.02e-003	0.994
Endrin aldehyde	2ORDR	0.00000000	1.18032	-2.85e-002	0.998
alpha-Chlordane	2ORDR	0.00000000	0.81844	-2.76e-002	0.998
gamma-Chlordane	2ORDR	0.00000000	0.72656	-2.03e-002	0.998
Tetrachloro-m-xylene	2ORDR	0.00000000	1.96976	-9.82e-002	0.998
Decachlorobiphenyl	2ORDR	0.00000000	1.12660	-1.63e-002	0.998
Dibutylchlorendate	2ORDR	0.00000000	1.10349	-2.35e-002	0.998

FORM VI PEST-PCB

PEST-PCB INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD2 Calibration Date(s): 10/21/03 10/21/03

Column: DB-17 ID: 0.53 (mm) Calibration Time(s): 1750 2001

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
beta-BHC	2ORDR	0.00000000	2.05402	2.536e-002	0.999
delta-BHC	2ORDR	0.00000000	0.65140	-1.9e-003	0.999
Aldrin	2ORDR	-2.59e-002	0.75429	-7.73e-003	0.999
Heptachlor epoxide	2ORDR	0.00000000	0.79682	-6.e-003	0.999
4,4'-DDE	2ORDR	0.00000000	0.76021	9.268e-003	0.998
Endosulfan II	2ORDR	0.00000000	0.89208	2.659e-004	0.998
Endosulfan sulfate	2ORDR	-6.18e-002	1.03219	-4.45e-003	0.999
Endrin ketone	2ORDR	0.00000000	0.87737	-1.1e-003	0.998
Endrin aldehyde	2ORDR	0.00000000	1.27909	-6.69e-003	0.999
alpha-Chlordane	2ORDR	0.00000000	0.88834	-1.02e-002	0.999
gamma-Chlordane	2ORDR	0.00000000	0.78669	-6.99e-003	0.999
Tetrachloro-m-xylene	2ORDR	0.00000000	1.84389	-8.77e-003	0.999
Decachlorobiphenyl	2ORDR	-0.119	1.15386	-3.89e-003	0.999
Dibutylchlorendate	2ORDR	0.00000000	1.04346	-3.37e-003	0.999

FORM VI PEST-PCB

0104

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date: 10/24/03 Time: 1208

Lab File ID: 1J24C8 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.08 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0520	0.0500	2ORDR	4.0	15.0
gamma-BHC (Lindane)	0.0551	0.0500	2ORDR	10.2	15.0
Heptachlor	0.0509	0.0500	2ORDR	1.8	15.0
Endosulfan I	0.0559	0.0500	AVRG	11.8	15.0
Dieldrin	0.105	0.100	2ORDR	5.0	15.0
Endrin	0.100	0.100	2ORDR	0.0	15.0
4,4'-DDD	0.106	0.100	2ORDR	6.0	15.0
4,4'-DDT	0.0994	0.100	2ORDR	0.6	15.0
Methoxychlor	0.496	0.500	2ORDR	0.8	15.0
Tetrachloro-m-xylene	0.0512	0.0500	2ORDR	2.4	15.0
Decachlorobiphenyl	0.105	0.100	2ORDR	5.0	15.0
Dibutylchlorendate	0.103	0.100	2ORDR	3.0	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date: 10/24/03 Time: 1208

Lab File ID: 2J24C8 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.08 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0493	0.0500	2ORDR	1.4	15.0
gamma-BHC (Lindane)	0.0527	0.0500	2ORDR	5.4	15.0
Heptachlor	0.0496	0.0500	2ORDR	0.8	15.0
Endosulfan I	0.0517	0.0500	2ORDR	3.4	15.0
Dieldrin	0.107	0.100	2ORDR	7.0	15.0
Endrin	0.103	0.100	2ORDR	3.0	15.0
4,4'-DDD	0.106	0.100	2ORDR	6.0	15.0
4,4'-DDT	0.0971	0.100	2ORDR	2.9	15.0
Methoxychlor	0.490	0.500	2ORDR	2.0	15.0
Tetrachloro-m-xylene	0.0497	0.0500	2ORDR	0.6	15.0
Decachlorobiphenyl	0.103	0.100	2ORDR	3.0	15.0
Dibutylchlorendate	0.105	0.100	2ORDR	5.0	15.0

FORM VII PEST-PCB

0196

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date: 10/24/03 Time: 1235

Lab File ID: 1J24C9 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.08 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0544	0.0500	2ORDR	8.8	15.0
delta-BHC	0.0518	0.0500	2ORDR	3.6	15.0
Aldrin	0.0532	0.0500	2ORDR	6.4	15.0
Heptachlor epoxide	0.0528	0.0500	2ORDR	5.6	15.0
4,4'-DDE	0.105	0.100	2ORDR	5.0	15.0
Endosulfan II	0.105	0.100	2ORDR	5.0	15.0
Endosulfan sulfate	0.104	0.100	2ORDR	4.0	15.0
Endrin ketone	0.103	0.100	2ORDR	3.0	15.0
Endrin aldehyde	0.104	0.100	2ORDR	4.0	15.0
alpha-Chlordane	0.0506	0.0500	2ORDR	1.2	15.0
gamma-Chlordane	0.0522	0.0500	2ORDR	4.4	15.0
Tetrachloro-m-xylene	0.0504	0.0500	2ORDR	0.8	15.0
Decachlorobiphenyl	0.104	0.100	2ORDR	4.0	15.0
Dibutylchlorendate	0.106	0.100	2ORDR	6.0	15.0

FORM VII PEST-PCB

0197

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date: 10/24/03 Time: 1235

Lab File ID: 2J24C9 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.08 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0532	0.0500	2ORDR	6.4	15.0
delta-BHC	0.0511	0.0500	2ORDR	2.2	15.0
Aldrin	0.0518	0.0500	2ORDR	3.6	15.0
Heptachlor epoxide	0.0524	0.0500	2ORDR	4.8	15.0
4,4'-DDE	0.105	0.100	2ORDR	5.0	15.0
Endosulfan II	0.105	0.100	2ORDR	5.0	15.0
Endosulfan sulfate	0.102	0.100	2ORDR	2.0	15.0
Endrin ketone	0.101	0.100	2ORDR	1.0	15.0
Endrin aldehyde	0.103	0.100	2ORDR	3.0	15.0
alpha-Chlordane	0.0521	0.0500	2ORDR	4.2	15.0
gamma-Chlordane	0.0498	0.0500	2ORDR	0.4	15.0
Tetrachloro-m-xylene	0.0490	0.0500	2ORDR	2.0	15.0
Decachlorobiphenyl	0.101	0.100	2ORDR	1.0	15.0
Dibutylchlorendate	0.105	0.100	2ORDR	5.0	15.0

FORM VII PEST-PCB

0198

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date: 10/24/03 Time: 1127

Lab File ID: 1J24C7 Init. Calib. Date(s): 09/23/03 09/23/03

Init. Calib. Times: 0217 0433

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.08 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	0.612	0.600	2ORDR	2.0	15.0	
(2)	0.627	0.600	2ORDR	4.5	15.0	
(3)	0.631	0.600	2ORDR	5.2	15.0	
(4)	0.663	0.600	2ORDR	10.5	15.0	
(5)	0.632	0.600	2ORDR	5.3	15.0	
Aroclor-1260	0.598	0.600	2ORDR	0.3	15.0	
(2)	0.604	0.600	2ORDR	0.7	15.0	
(3)	0.600	0.600	2ORDR	0.0	15.0	
(4)	0.593	0.600	2ORDR	1.2	15.0	
(5)	0.605	0.600	2ORDR	0.8	15.0	
Tetrachloro-m-xylene (#)	0.0628	0.0600	2ORDR	4.7	15.0	
Decachlorobiphenyl (#)	0.0611	0.0600	2ORDR	1.8	15.0	
Dibutylchlorendate (#)	0.0720	0.0600	2ORDR	20.0	15.0	<-

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date: 10/24/03 Time: 1127

Lab File ID: 2J24C7 Init. Calib. Date(s): 09/23/03 09/23/03

Init. Calib. Times: 0217 0433

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.08 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	0.689	0.600	2ORDR	14.8	15.0	
(2)	0.618	0.600	2ORDR	3.0	15.0	
(3)	0.659	0.600	2ORDR	9.8	15.0	
(4)	0.605	0.600	2ORDR	0.8	15.0	
(5)	0.611	0.600	2ORDR	1.8	15.0	
Aroclor-1260	0.584	0.600	2ORDR	2.7	15.0	
(2)	0.602	0.600	2ORDR	0.3	15.0	
(3)	0.663	0.600	2ORDR	10.5	15.0	
(4)	0.586	0.600	2ORDR	2.3	15.0	
(5)	0.784	0.600	2ORDR	30.7	15.0	<-
Tetrachloro-m-xylene (#)	0.0620	0.0600	2ORDR	3.3	15.0	
Decachlorobiphenyl (#)	0.0604	0.0600	2ORDR	0.7	15.0	
Dibutylchlorendate (#)	0.0757	0.0600	2ORDR	26.2	15.0	<-

FORM VII PEST-PCB

0200

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date: 10/27/03 Time: 0941

Lab File ID: 1J27C5 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d	
alpha-BHC	0.0413	0.0400	2ORDR	3.2	15.0	
gamma-BHC (Lindane)	0.0429	0.0400	2ORDR	7.2	15.0	
Heptachlor	0.0408	0.0400	2ORDR	2.0	15.0	
Endosulfan I	0.0422	0.0400	AVRG	5.5	15.0	
Dieldrin	0.0842	0.0800	2ORDR	5.2	15.0	
Endrin	0.0831	0.0800	2ORDR	3.9	15.0	
4,4'-DDD	0.0854	0.0800	2ORDR	6.8	15.0	
4,4'-DDT	0.0677	0.0800	2ORDR	15.4	15.0	<-
Methoxychlor	0.382	0.400	2ORDR	4.5	15.0	
Tetrachloro-m-xylene	0.0411	0.0400	2ORDR	2.8	15.0	
Decachlorobiphenyl	0.0854	0.0800	2ORDR	6.8	15.0	
Dibutylchlorendate	0.0824	0.0800	2ORDR	3.0	15.0	

FORM VII PEST-PCB

0201

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date: 10/27/03 Time: 0941

Lab File ID: 2J27C5 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1245 1501

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0392	0.0400	2ORDR	2.0	15.0
gamma-BHC (Lindane)	0.0396	0.0400	2ORDR	1.0	15.0
Heptachlor	0.0390	0.0400	2ORDR	2.5	15.0
Endosulfan I	0.0396	0.0400	2ORDR	1.0	15.0
Dieldrin	0.0825	0.0800	2ORDR	3.1	15.0
Endrin	0.0798	0.0800	2ORDR	0.2	15.0
4,4'-DDD	0.0800	0.0800	2ORDR	0.0	15.0
4,4'-DDT	0.0742	0.0800	2ORDR	7.2	15.0
Methoxychlor	0.398	0.400	2ORDR	0.5	15.0
Tetrachloro-m-xylene	0.0400	0.0400	2ORDR	0.0	15.0
Decachlorobiphenyl	0.0851	0.0800	2ORDR	6.4	15.0
Dibutylchlorendate	0.0813	0.0800	2ORDR	1.6	15.0

FORM VII PEST-PCB

0202

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date: 10/27/03 Time: 1008

Lab File ID: 1J27C6 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0427	0.0400	2ORDR	6.8	15.0
delta-BHC	0.0420	0.0400	2ORDR	5.0	15.0
Aldrin	0.0422	0.0400	2ORDR	5.5	15.0
Heptachlor epoxide	0.0418	0.0400	2ORDR	4.5	15.0
4,4'-DDE	0.0824	0.0800	2ORDR	3.0	15.0
Endosulfan II	0.0831	0.0800	2ORDR	3.9	15.0
Endosulfan sulfate	0.0827	0.0800	2ORDR	3.4	15.0
Endrin ketone	0.0805	0.0800	2ORDR	0.6	15.0
Endrin aldehyde	0.0820	0.0800	2ORDR	2.5	15.0
alpha-Chlordane	0.0414	0.0400	2ORDR	3.5	15.0
gamma-Chlordane	0.0414	0.0400	2ORDR	3.5	15.0
Tetrachloro-m-xylene	0.0408	0.0400	2ORDR	2.0	15.0
Decachlorobiphenyl	0.0834	0.0800	2ORDR	4.2	15.0
Dibutylchlorendate	0.0828	0.0800	2ORDR	3.5	15.0

FORM VII PEST-PCB

0203

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date: 10/27/03 Time: 1008

Lab File ID: 2J27C6 Init. Calib. Date(s): 10/08/03 10/08/03

Init. Calib. Times: 1528 1744

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0414	0.0400	2ORDR	3.5	15.0
delta-BHC	0.0398	0.0400	2ORDR	0.5	15.0
Aldrin	0.0398	0.0400	2ORDR	0.5	15.0
Heptachlor epoxide	0.0405	0.0400	2ORDR	1.2	15.0
4,4'-DDE	0.0804	0.0800	2ORDR	0.5	15.0
Endosulfan II	0.0802	0.0800	2ORDR	0.2	15.0
Endosulfan sulfate	0.0794	0.0800	2ORDR	0.8	15.0
Endrin ketone	0.0786	0.0800	2ORDR	1.8	15.0
Endrin aldehyde	0.0807	0.0800	2ORDR	0.9	15.0
alpha-Chlordane	0.0409	0.0400	2ORDR	2.2	15.0
gamma-Chlordane	0.0402	0.0400	2ORDR	0.5	15.0
Tetrachloro-m-xylene	0.0402	0.0400	2ORDR	0.5	15.0
Decachlorobiphenyl	0.0833	0.0800	2ORDR	4.1	15.0
Dibutylchlorendate	0.0819	0.0800	2ORDR	2.4	15.0

FORM VII PEST-PCB

0204

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD1 Calibration Date: 10/27/03 Time: 1103

Lab File ID: 1J27C8 Init. Calib. Date(s): 09/23/03 09/23/03

Init. Calib. Times: 0217 0433

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.469	0.500	2ORDR	6.2	15.0
(2)	0.492	0.500	2ORDR	1.6	15.0
(3)	0.508	0.500	2ORDR	1.6	15.0
(4)	0.505	0.500	2ORDR	1.0	15.0
(5)	0.476	0.500	2ORDR	4.8	15.0
Aroclor-1260	0.442	0.500	2ORDR	11.6	15.0
(2)	0.454	0.500	2ORDR	9.2	15.0
(3)	0.451	0.500	2ORDR	9.8	15.0
(4)	0.448	0.500	2ORDR	10.4	15.0
(5)	0.458	0.500	2ORDR	8.4	15.0
Tetrachloro-m-xylene (#)	0.0479	0.0500	2ORDR	4.2	15.0
Decachlorobiphenyl (#)	0.0447	0.0500	2ORDR	10.6	15.0
Dibutylchlorendate (#)	0.0516	0.0500	2ORDR	3.2	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGCECD2 Calibration Date: 10/27/03 Time: 1103

Lab File ID: 2J27C8 Init. Calib. Date(s): 09/23/03 09/23/03

Init. Calib. Times: 0217 0433

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.04 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	0.534	0.500	2ORDR	6.8	15.0	
(2)	0.480	0.500	2ORDR	4.0	15.0	
(3)	0.508	0.500	2ORDR	1.6	15.0	
(4)	0.454	0.500	2ORDR	9.2	15.0	
(5)	0.456	0.500	2ORDR	8.8	15.0	
Aroclor-1260	0.436	0.500	2ORDR	12.8	15.0	
(2)	0.473	0.500	2ORDR	5.4	15.0	
(3)	0.512	0.500	2ORDR	2.4	15.0	
(4)	0.453	0.500	2ORDR	9.4	15.0	
(5)	0.599	0.500	2ORDR	19.8	15.0	<-
Tetrachloro-m-xylene (#)	0.0472	0.0500	2ORDR	5.6	15.0	
Decachlorobiphenyl (#)	0.0460	0.0500	2ORDR	8.0	15.0	
Dibutylchlorendate (#)	0.0534	0.0500	2ORDR	6.8	15.0	

FORM VII PEST-PCB

0206

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date: 10/27/03 Time: 0935

Lab File ID: 1J27D5 Init. Calib. Date(s): 10/21/03 10/21/03

Init. Calib. Times: 1514 1724

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0488	0.0500	2ORDR	2.4	15.0
gamma-BHC (Lindane)	0.0486	0.0500	2ORDR	2.8	15.0
Heptachlor	0.0508	0.0500	2ORDR	1.6	15.0
Endosulfan I	0.0479	0.0500	2ORDR	4.2	15.0
Dieldrin	0.100	0.100	2ORDR	0.0	15.0
Endrin	0.0997	0.100	2ORDR	0.3	15.0
4,4'-DDD	0.0947	0.100	2ORDR	5.3	15.0
4,4'-DDT	0.100	0.100	2ORDR	0.0	15.0
Methoxychlor	0.497	0.500	2ORDR	0.6	15.0
Tetrachloro-m-xylene	0.0517	0.0500	2ORDR	3.4	15.0
Decachlorobiphenyl	0.105	0.100	2ORDR	5.0	15.0
Dibutylchlorendate	0.101	0.100	2ORDR	1.0	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD2 Calibration Date: 10/27/03 Time: 0935

Lab File ID: 2J27D5 Init. Calib. Date(s): 10/21/03 10/21/03

Init. Calib. Times: 1514 1724

GC Column: DB-17 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL10 AMOUNT	CURVE	%D	MAX %d
alpha-BHC	0.0486	0.0500	2ORDR	2.8	15.0
gamma-BHC (Lindane)	0.0490	0.0500	2ORDR	2.0	15.0
Heptachlor	0.0513	0.0500	2ORDR	2.6	15.0
Endosulfan I	0.0501	0.0500	2ORDR	0.2	15.0
Dieldrin	0.0993	0.100	2ORDR	0.7	15.0
Endrin	0.100	0.100	2ORDR	0.0	15.0
4,4'-DDD	0.0978	0.100	2ORDR	2.2	15.0
4,4'-DDT	0.0997	0.100	2ORDR	0.3	15.0
Methoxychlor	0.488	0.500	2ORDR	2.4	15.0
Tetrachloro-m-xylene	0.0519	0.0500	2ORDR	3.8	15.0
Decachlorobiphenyl	0.106	0.100	2ORDR	6.0	15.0
Dibutylchlorendate	0.101	0.100	2ORDR	1.0	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD1 Calibration Date: 10/27/03 Time: 1001

Lab File ID: 1J27D6 Init. Calib. Date(s): 10/21/03 10/21/03

Init. Calib. Times: 1750 2001

GC Column: DB-5 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	0.05 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0468	0.0500	2ORDR	6.4	15.0
delta-BHC	0.0465	0.0500	2ORDR	7.0	15.0
Aldrin	0.0474	0.0500	2ORDR	5.2	15.0
Heptachlor epoxide	0.0478	0.0500	2ORDR	4.4	15.0
4,4'-DDE	0.0942	0.100	2ORDR	5.8	15.0
Endosulfan II	0.0954	0.100	2ORDR	4.6	15.0
Endosulfan sulfate	0.0950	0.100	2ORDR	5.0	15.0
Endrin ketone	0.0955	0.100	2ORDR	4.5	15.0
Endrin aldehyde	0.0953	0.100	2ORDR	4.7	15.0
alpha-Chlordane	0.0476	0.0500	2ORDR	4.8	15.0
gamma-Chlordane	0.0476	0.0500	2ORDR	4.8	15.0
Tetrachloro-m-xylene	0.0482	0.0500	2ORDR	3.6	15.0
Decachlorobiphenyl	0.0971	0.100	2ORDR	2.9	15.0
Dibutylchlorendate	0.0969	0.100	2ORDR	3.1	15.0

FORM VII PEST-PCB

PEST-PCB CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGDECD2 Calibration Date: 10/27/03 Time: 1001

Lab File ID: 2J27D6 Init. Calib. Date(s): 10/21/03 10/21/03

Init. Calib. Times: 1750 2001

GC Column: DB-17 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL10 AMOUNT	CURVE	%D	MAX %d
beta-BHC	0.0487	0.0500	2ORDR	2.6	15.0
delta-BHC	0.0476	0.0500	2ORDR	4.8	15.0
Aldrin	0.0480	0.0500	2ORDR	4.0	15.0
Heptachlor epoxide	0.0482	0.0500	2ORDR	3.6	15.0
4,4'-DDE	0.0943	0.100	2ORDR	5.7	15.0
Endosulfan II	0.0951	0.100	2ORDR	4.9	15.0
Endosulfan sulfate	0.0955	0.100	2ORDR	4.5	15.0
Endrin ketone	0.0955	0.100	2ORDR	4.5	15.0
Endrin aldehyde	0.0966	0.100	2ORDR	3.4	15.0
alpha-Chlordane	0.0487	0.0500	2ORDR	2.6	15.0
gamma-Chlordane	0.0479	0.0500	2ORDR	4.2	15.0
Tetrachloro-m-xylene	0.0484	0.0500	2ORDR	3.2	15.0
Decachlorobiphenyl	0.0962	0.100	2ORDR	3.8	15.0
Dibutylchlorendate	0.0958	0.100	2ORDR	4.2	15.0

FORM VII PEST-PCB

0210

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J24C7 Date Analyzed: 10/24/03

Instrument ID: TSGCECD1 Time Analyzed: 1127

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	74115	3.74				
	UPPER LIMIT	148230	3.79				
	LOWER LIMIT	37058	3.79				
	CLIENT SAMPLE NO.						
01	74651-1	75649	3.73				
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J24C7 Date Analyzed: 10/24/03

Instrument ID: TSGCECD2 Time Analyzed: 1127

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	61739	3.69				
	UPPER LIMIT	123478	3.69				
	LOWER LIMIT	30870	3.69				
	CLIENT SAMPLE NO.						
01	74651-1	58949	3.68				
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J27C5 Date Analyzed: 10/27/03

Instrument ID: TSGCECD1 Time Analyzed: 0941

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	23928	3.75				
	UPPER LIMIT	53948	3.75				
	LOWER LIMIT	13487	3.75				
	CLIENT SAMPLE NO.						
01	1023BMB	26974	3.73				
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J27C5 Date Analyzed: 10/27/03

Instrument ID: TSGCECD2 Time Analyzed: 0941

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	69196	3.68				
	UPPER LIMIT	138392	3.68				
	LOWER LIMIT	34598	3.68				
	CLIENT SAMPLE NO.						
01	1023BMB	60914	3.67				
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J27D5 Date Analyzed: 10/27/03

Instrument ID: TSGDECD1 Time Analyzed: 0935

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	56216	1.75				
	UPPER LIMIT	112432	1.75				
	LOWER LIMIT	28108	1.75				
	CLIENT SAMPLE NO.						
01	1023BMBLCS	59027	1.75				
02	1023BMBLCSD	57685	1.75				
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST-PCB

PEST-PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J27D5 Date Analyzed: 10/27/03

Instrument ID: TSGDECD2 Time Analyzed: 0935

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	36239	2.03				
	UPPER LIMIT	72478	2.03				
	LOWER LIMIT	18120	2.03				
	CLIENT SAMPLE NO.						
01	1023BMBLCS	41246	2.03				
02	1023BMBLCSD	37850	2.03				
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = 1-Bromo-2-nitrobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.05 minutes of internal standard RT
RT LOWER LIMIT = - 0.05 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/02/03 09/23/03

Instrument ID: TSGCECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		PEM 29216	09/22/03	1456		
02		TECH 29162	09/22/03	2333		
03		TOX 291611	09/23/03	0001		
04		1232 29175	09/23/03	0028		
05		1242 29176	09/23/03	0055		
06		1248 29177	09/23/03	0122		
07		2154 29178	09/23/03	0150		
08		1660-1 9102	09/23/03	0217		
09		1660-2 9103	09/23/03	0244		
10		1660-3 9104	09/23/03	0311		
11		1660-4 9105	09/23/03	0338		
12		1660-5 9106	09/23/03	0406		
13		1660-6 9107	09/23/03	0433		
14		PEM 292812	10/08/03	1217		
15		A-1 29318	10/08/03	1245		
16		A-2 29319	10/08/03	1312		
17		A-3 29321	10/08/03	1339		
18		A-4 29322	10/08/03	1406		
19		A-5 29323	10/08/03	1433		
20		A-6 29324	10/08/03	1501		
21		B-1 29326	10/08/03	1528		
22		B-2 29327	10/08/03	1555		
23		B-3 29328	10/08/03	1622		
24		B-4 29329	10/08/03	1650		
25		B-5 293210	10/08/03	1717		
26		B-6 29331	10/08/03	1744		
27		PEM 292812	10/24/03	1033		
28		1660-4 2510	10/24/03	1127		
29		A-4 29322	10/24/03	1208		
30		B-4 29329	10/24/03	1235		
31	74651-1	086-DWC-S-10	10/24/03	1542		
32		PEM 292812	10/27/03	0911		
33		A-3 29319	10/27/03	0941		
34		B-3 29328	10/27/03	1008		
35		1660-3 9259	10/27/03	1103		
36	1023BMB	1023BMB	10/27/03	1303		

QC LIMITS

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 09/23/03

Instrument ID: TSGCECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		PEM 29216	09/22/03	1456		
02		TECH 29162	09/22/03	2333		
03		TOX 291611	09/23/03	0001		
04		1232 29175	09/23/03	0028		
05		1242 29176	09/23/03	0055		
06		1248 29177	09/23/03	0122		
07		2154 29178	09/23/03	0150		
08		1660-1 9102	09/23/03	0217		
09		1660-2 9103	09/23/03	0244		
10		1660-3 9104	09/23/03	0311		
11		1660-4 9105	09/23/03	0338		
12		1660-5 9106	09/23/03	0406		
13		1660-6 9107	09/23/03	0433		
14		PEM 292812	10/08/03	1217		
15		A-1 29318	10/08/03	1245		
16		A-2 29319	10/08/03	1312		
17		A-3 29321	10/08/03	1339		
18		A-4 29322	10/08/03	1406		
19		A-5 29323	10/08/03	1433		
20		A-6 29324	10/08/03	1501		
21		B-1 29326	10/08/03	1528		
22		B-2 29327	10/08/03	1555		
23		B-3 29328	10/08/03	1622		
24		B-4 29329	10/08/03	1650		
25		B-5 293210	10/08/03	1717		
26		B-6 29331	10/08/03	1744		
27		PEM 292812	10/24/03	1033		
28		1660-4 2510	10/24/03	1127		
29		A-4 29322	10/24/03	1208		
30		B-4 29329	10/24/03	1235		
31	74651-1	086-DWC-S-10	10/24/03	1542		
32		PEM 292812	10/27/03	0911		
33		A-3 29319	10/27/03	0941		
34		B-3 29328	10/27/03	1008		
35		1660-3 9259	10/27/03	1103		
36	1023BMB	1023BMB	10/27/03	1303		

QC LIMITS

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 10/22/03

Instrument ID: TSGDECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
01		PEM 292812	10/21/03	1448		
02		A-1 29318	10/21/03	1514	3.72	17.03
03		A-2 29319	10/21/03	1540	3.71	17.03
04		A-3 29321	10/21/03	1606	3.71	17.03
05		A-4 29322	10/21/03	1632	3.72	17.04
06		A-5 29323	10/21/03	1658	3.72	17.03
07		A-6 29324	10/21/03	1724	3.71	17.03
08		B-1 29325	10/21/03	1750	3.72	17.04
09		B-2 29326	10/21/03	1817	3.73	17.04
10		B-3 29327	10/21/03	1843	3.72	17.04
11		B-4 29328	10/21/03	1909	3.71	17.03
12		B-5 29329	10/21/03	1935	3.72	17.04
13		B-6 29331	10/21/03	2001	3.72	17.04
14		PEM 292812	10/27/03	0909		
15		A-4 29322	10/27/03	0935	3.72	17.05
16		B-4 29329	10/27/03	1001	3.72	17.05
17	1023BMBLCS	1023BMBLCS	10/27/03	1122	3.73	17.04
18	1023BMBLCSD	1023BMBLCSD	10/27/03	1147	3.72	17.05
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.05 MINUTES)

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-5 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 10/22/03

Instrument ID: TSGDECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	RT
01		PEM 292812	10/21/03	1448		
02		A-1 29318	10/21/03	1514	12.84	
03		A-2 29319	10/21/03	1540	12.83	
04		A-3 29321	10/21/03	1606	12.83	
05		A-4 29322	10/21/03	1632	12.84	
06		A-5 29323	10/21/03	1658	12.84	
07		A-6 29324	10/21/03	1724	12.83	
08		B-1 29325	10/21/03	1750	12.85	
09		B-2 29326	10/21/03	1817	12.85	
10		B-3 29327	10/21/03	1843	12.84	
11		B-4 29328	10/21/03	1909	12.83	
12		B-5 29329	10/21/03	1935	12.85	
13		B-6 29331	10/21/03	2001	12.85	
14		PEM 292812	10/27/03	0909		
15		A-4 29322	10/27/03	0935	12.85	
16		B-4 29329	10/27/03	1001	12.85	
17	1023BMBLCS	1023BMBLCS	10/27/03	1122	12.85	
18	1023BMBLCSD	1023BMBLCSD	10/27/03	1147	12.85	
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

S3 = Dibutylchlorendate QC LIMITS (+/- 0.05 MINUTES)

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-17 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 10/22/03

Instrument ID: TSGDECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	DCB RT
01		PEM 292812	10/21/03	1448		
02		A-1 29318	10/21/03	1514	3.25	17.01
03		A-2 29319	10/21/03	1540	3.24	17.00
04		A-3 29321	10/21/03	1606	3.24	17.00
05		A-4 29322	10/21/03	1632	3.25	17.01
06		A-5 29323	10/21/03	1658	3.25	17.01
07		A-6 29324	10/21/03	1724	3.24	17.00
08		B-1 29325	10/21/03	1750	3.25	17.01
09		B-2 29326	10/21/03	1817	3.25	17.01
10		B-3 29327	10/21/03	1843	3.25	17.01
11		B-4 29328	10/21/03	1909	3.24	17.00
12		B-5 29329	10/21/03	1935	3.25	17.01
13		B-6 29331	10/21/03	2001	3.25	17.01
14		PEM 292812	10/27/03	0909		
15		A-4 29322	10/27/03	0935	3.25	17.01
16		B-4 29329	10/27/03	1001	3.25	17.02
17	1023BMBLCS	1023BMBLCS	10/27/03	1122	3.25	17.02
18	1023BMBLCSD	1023BMBLCSD	10/27/03	1147	3.25	17.01
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.05 MINUTES)

FORM VIII PEST-PCB

PEST-PCB ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-17 ID: 0.53 (mm) Init. Calib. Date(s): 09/22/03 10/22/03

Instrument ID: TSGDECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	RT
01		PEM 292812	10/21/03	1448		
02		A-1 29318	10/21/03	1514	12.18	
03		A-2 29319	10/21/03	1540	12.17	
04		A-3 29321	10/21/03	1606	12.17	
05		A-4 29322	10/21/03	1632	12.17	
06		A-5 29323	10/21/03	1658	12.17	
07		A-6 29324	10/21/03	1724	12.17	
08		B-1 29325	10/21/03	1750	12.18	
09		B-2 29326	10/21/03	1817	12.17	
10		B-3 29327	10/21/03	1843	12.18	
11		B-4 29328	10/21/03	1909	12.17	
12		B-5 29329	10/21/03	1935	12.18	
13		B-6 29331	10/21/03	2001	12.18	
14		PEM 292812	10/27/03	0909		
15		A-4 29322	10/27/03	0935	12.18	
16		B-4 29329	10/27/03	1001	12.19	
17	1023BMBLCS	1023BMBLCS	10/27/03	1122	12.18	
18	1023BMBLCSD	1023BMBLCSD	10/27/03	1147	12.18	
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

S3 = Dibutylchlorendate

QC LIMITS
(+/- 0.05 MINUTES)

FORM VIII PEST-PCB

EXTRACTION LOG(S)

EXTRACTION LOG

Job No: 637 18

Batch No: SG102303B

Date Extracted: 10.23.03

Start Time: 1630

Stop Time: 8:30

Analysis Required: 8081/8141

Prep Method: 3520

Analyst/Activity Code* LS, ME / A, B

Initial Project Check: [illegible]

Final Project Check: AN

Date Concentrated: 10-24-03

Initials: EK

Extract Box ID:

	ID	Lot #	Amt (ml)	Init
Surr.	8081	6.37.43	0.5	[illegible]
Surr.				
Spike	8081	6.3738	0.5	[illegible]
Spike	8141	6.3747	0.5	[illegible]

Clean Up: Yes No

Comments

Solvent(s) Lot No:

MeCl: Y28E30

Na_2SO_4: Y31626

HEX: Y13E22

* See inside front cover of logbook for definition codes

	SAMPLE ID/DESCRIPTION	SDG	MT	Amt Ext'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1.	T374616*6/PB-W2* +		LI	1000	7	7	5.0	10.24	10.23	R|
2.	T374616*7/PB-W1* +		LI	1000	7	7	5.0	10.24	10.23	R|
3.	T374616*9/MBA* +		LI	1000	7	7	5.0	10.24	10.23	R|
4.	T374635*1/Q14001*INFLUENT +	TPR155	LI	1000	7	7	5.0	11.03	10.23	P|
5.	T374635*2/Q14002FD1*EFFLUENT +	TPR155	LI	1000	7	7	5.0	11.03	10.23	P|
6.	T374635*3/Q14003*EFFLUENT +	TPR155	LI	1000	7	7	5.0	11.03	10.23	P|
7.	T374635*4/Q14004EB1*FIELDQC +	TPR155	LI	1000	7	7	5.0	11.03	10.23	P|
8.	T374635*5/Q14005AB1*FIELDQC +	TPR155	LI	1000	7	7	5.0	11.03	10.23	P|
9.	T374651*1/086-DWC-S-1017-03*	JETC04	LI	1000	7	7	5.0	10.24	10.24	R|
10.	MS: T374635 Q14003	8081	LI	1000	7	7	5.0			
11.	MSD: T374635 Q14003		LI	1000	7	7	5.0			
12.	MS: T374635 Q14003	8141	LI	1000	7	7	5.0			
13.	MSD: T374635 Q14003		LI	1000	7	7	5.0			
14.										
15.										
16.										
17.										
18.	AN 10-26-03									
19.										
20.										
	Lab Blank		LI	1000	7	7	5.0			
	Lab Spike #1	8081	LI	1000	7	7	5.0			
	Lab Spike #2		LI	1000	7	7	5.0			
	LCS#3	8141	LI	1000	7	7	5.0			
	LCS#4		LI	1000	7	7	5.0			

Dets: Organochlorine Pesticides <8081> | Organochlorine Pesticides and PCB's <8081/8082> | TCL - Pesticides/PCB's <8081/8082> |

+ Additional Dets: T374616-Organophosphorus Pesticides <8141> | T374635-Organophosphorus Pesticides <8141>

0224

EXTRACT CLEANUP LOG

Job No 637

	GPC CLEANUP	FLORISIL CLEANUP	ACID CLEANUP	COPPER CLEANU
Analyst:		Analyst:	Analyst:	Analyst:
Date:		Date: 10-24-03	Date:	Date: 10-24-03
		Lot#: 409559	Lot#:	Lot#: 0020SK1

Sample ID / Sample Desription	SDG	GPC Column Id	(mL) Amt Loaded	(mL) Amt Column	FV (mL)	(mL) Amt Cleanup	FV (mL)	(mL) Amt Cleanup	FV (mL)	(mL) Amt Cleanup	FV (mL
1. T374616*6/PB-W2*											
2. T374616*7/PB-W1*											
3. T374616*9/MBA*											
4. T374635*1/Q14001*INFLUENT	TPR155					1.0	1.0			1.0	1.0
5. T374635*2/Q14002FD1*EFFLUENT	TPR155					↓	↓			↓	↓
6. T374635*3/Q14003*EFFLUENT	TPR155										
7. T374635*4/Q14004EB1*FIELDQC	TPR155										
8. T374635*5/Q14005AB1*FIELDQC	TPR155										
9. T374651*1/086-DWC-S-1017-03*	JETC04										
10. SG10238MB						1.0	1.0			1.0	1.0
11. LCS						↓	↓			↓	↓
12. LCSD											
13. MS											
14. MSD											
15.											
16.											
17.											
18.											
19.											
20.											

* This volume represents actual volume loaded. The loaded volume is always twice the amount actually cleaned by the GPC (amount on column)

ANALYSIS LOG(S)

Client SDG: JETC04 Sample Fraction: PEST-PCB

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4708261	1C0922.b	1I22C7.d	PEM		PEM 29216	4712648		
4708261	1C0922.b	1I22C26.d	CALIB_3		TECH 29162	4708183		
4708261	1C0922.b	1I22C27.d	CALIB_3		TOX 291611	4708184		
4708261	1C0922.b	1I22C28.d	CALIB_3		1232 29175	4712649		
4708261	1C0922.b	1I22C29.d	CALIB_3		1242 29176	4708186		
4708261	1C0922.b	1I22C30.d	CALIB_3		1248 29177	4708187		
4708261	1C0922.b	1I22C31.d	CALIB_3		2154 29178	4708188		
4708261	1C0922.b	1I22C32.d	CALIB_1		1660-1 9102	4712650		
4708261	1C0922.b	1I22C33.d	CALIB_2		1660-2 9103	4712651		
4708261	1C0922.b	1I22C34.d	CALIB_3		1660-3 9104	4712652		
4708261	1C0922.b	1I22C35.d	CALIB_4		1660-4 9105	4712653		
4708261	1C0922.b	1I22C36.d	CALIB_5		1660-5 9106	4712654		
4708261	1C0922.b	1I22C37.d	CALIB_6		1660-6 9107	4708194		
4708262	1C0922.b	2I22C7.d	PEM		PEM 29216	4710245		
4708262	1C0922.b	2I22C26.d	CALIB_3		TECH 29162	4708246		
4708262	1C0922.b	2I22C27.d	CALIB_3		TOX 291611	4708247		
4708262	1C0922.b	2I22C28.d	CALIB_3		1232 29175	4712655		
4708262	1C0922.b	2I22C29.d	CALIB_3		1242 29176	4708249		
4708262	1C0922.b	2I22C30.d	CALIB_3		1248 29177	4708250		
4708262	1C0922.b	2I22C31.d	CALIB_3		2154 29178	4708251		
4708262	1C0922.b	2I22C32.d	CALIB_1		1660-1 9102	4708380		
4708262	1C0922.b	2I22C33.d	CALIB_2		1660-2 9103	4708379		
4708262	1C0922.b	2I22C34.d	CALIB_3		1660-3 9104	4708378		
4708262	1C0922.b	2I22C35.d	CALIB_4		1660-4 9105	4708377		
4708262	1C0922.b	2I22C36.d	CALIB_5		1660-5 9106	4708376		
4708262	1C0922.b	2I22C37.d	CALIB_6		1660-6 9107	4708375		
4709342	1C1008.b	1J08C5.d	PEM		PEM 292812	4709297		
4709342	1C1008.b	1J08C6.d	CALIB_1		A-1 29318	4709298		
4709342	1C1008.b	1J08C7.d	CALIB_2		A-2 29319	4709299		
4709342	1C1008.b	1J08C8.d	CALIB_3		A-3 29321	4709300		
4709342	1C1008.b	1J08C9.d	CALIB_4		A-4 29322	4709301		
4709342	1C1008.b	1J08C10.d	CALIB_5		A-5 29323	4709283		
4709342	1C1008.b	1J08C11.d	CALIB_6		A-6 29324	4709284		
4709342	1C1008.b	1J08C12.d	CALIB_1		B-1 29326	4709285		
4709342	1C1008.b	1J08C13.d	CALIB_2		B-2 29327	4709286		
4709342	1C1008.b	1J08C14.d	CALIB_3		B-3 29328	4709287		
4709342	1C1008.b	1J08C15.d	CALIB_4		B-4 29329	4709288		
4709342	1C1008.b	1J08C16.d	CALIB_5		B-5 293210	4709289		
4709342	1C1008.b	1J08C17.d	CALIB_6		B-6 29331	4709290		
4709341	1C1008.b	2J08C5.d	PEM		PEM 292812	4709336		
4709341	1C1008.b	2J08C6.d	CALIB_1		A-1 29318	4709337		
4709341	1C1008.b	2J08C7.d	CALIB_2		A-2 29319	4709338		
4709341	1C1008.b	2J08C8.d	CALIB_3		A-3 29321	4709339		
4709341	1C1008.b	2J08C9.d	CALIB_4		A-4 29322	4709340		
4709341	1C1008.b	2J08C10.d	CALIB_5		A-5 29323	4709322		
4709341	1C1008.b	2J08C11.d	CALIB_6		A-6 29324	4709323		
4709341	1C1008.b	2J08C12.d	CALIB_1		B-1 29326	4709324		
4709341	1C1008.b	2J08C13.d	CALIB_2		B-2 29327	4709325		
4709341	1C1008.b	2J08C14.d	CALIB_3		B-3 29328	4709326		
4709341	1C1008.b	2J08C15.d	CALIB_4		B-4 29329	4709327		
4709341	1C1008.b	2J08C16.d	CALIB_5		B-5 293210	4709328		

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4709341	1C1008.b	2J08C17.d	CALIB_6		B-6 29331	4709329		
718109	1D1021.b	1J21D10.d	PEM		PEM 292812	4710845		
718109	1D1021.b	1J21D11.d	CALIB_1		A-1 29318	4711094		
718109	1D1021.b	1J21D12.d	CALIB_2		A-2 29319	4711095		
718109	1D1021.b	1J21D13.d	CALIB_3		A-3 29321	4711096		
718109	1D1021.b	1J21D14.d	CALIB_4		A-4 29322	4711097		
718109	1D1021.b	1J21D15.d	CALIB_5		A-5 29323	4711098		
718109	1D1021.b	1J21D16.d	CALIB_6		A-6 29324	4710851		
718109	1D1021.b	1J21D17.d	CALIB_1		B-1 29325	4711099		
718109	1D1021.b	1J21D18.d	CALIB_2		B-2 29326	4711100		
718109	1D1021.b	1J21D19.d	CALIB_3		B-3 29327	4711101		
718109	1D1021.b	1J21D20.d	CALIB_4		B-4 29328	4711102		
718109	1D1021.b	1J21D21.d	CALIB_5		B-5 29329	4711103		
718109	1D1021.b	1J21D22.d	CALIB_6		B-6 29331	4710857		
718101	1D1021.b	2J21D10.d	PEM		PEM 292812	4710895		
718101	1D1021.b	2J21D11.d	CALIB_1		A-1 29318	4710996		
718101	1D1021.b	2J21D12.d	CALIB_2		A-2 29319	4710997		
718101	1D1021.b	2J21D13.d	CALIB_3		A-3 29321	4710998		
718101	1D1021.b	2J21D14.d	CALIB_4		A-4 29322	4710999		
718101	1D1021.b	2J21D15.d	CALIB_5		A-5 29323	4711000		
718101	1D1021.b	2J21D16.d	CALIB_6		A-6 29324	4710901		
718101	1D1021.b	2J21D17.d	CALIB_1		B-1 29325	4711001		
718101	1D1021.b	2J21D18.d	CALIB_2		B-2 29326	4711002		
718101	1D1021.b	2J21D19.d	CALIB_3		B-3 29327	4711003		
718101	1D1021.b	2J21D20.d	CALIB_4		B-4 29328	4711004		
718101	1D1021.b	2J21D21.d	CALIB_5		B-5 29329	4711005		
718101	1D1021.b	2J21D22.d	CALIB_6		B-6 29331	4710907		
4712322	1C1024.b	1J24C5.d	PEM		PEM 292812	4712307		
4712322	1C1024.b	1J24C7.d	CCALIB_4		1660-4 2510	4712309		
4712322	1C1024.b	1J24C8.d	CCALIB_4		A-4 29322	4712326		
4712322	1C1024.b	1J24C9.d	CCALIB_4		B-4 29329	4712327		
4712322	1D1027.b	1J27D9.d	LCS	1023BMBLCS	1023BMBLCS	4712613	SG102303B	JETC04
4712322	1D1027.b	1J27D10.d	LCSD	1023BMBLCSD	1023BMBLCSD	4712615	SG102303B	JETC04
4712322	1C1027.b	1J27C12.d	BLANK	1023BMB	1023BMB	4712619	SG102303B	JETC04
4712322	1C1024.b	1J24C15.d	SAMPLE	74651-1	086-DWC-S-1017-0	4712585	SG102303B	JETC04
4712319	1C1024.b	2J24C5.d	PEM		PEM 292812	4712316		
4712319	1C1024.b	2J24C7.d	CCALIB_4		1660-4 2510	4712318		
4712319	1C1024.b	2J24C8.d	CCALIB_4		A-4 29322	4712332		
4712319	1C1024.b	2J24C9.d	CCALIB_4		B-4 29329	4712333		
4712496	1D1027.b	1J27D4.d	PEM		PEM 292812	4712494		
4712496	1D1027.b	1J27D5.d	CCALIB_4		A-4 29322	4712495		
4712496	1D1027.b	1J27D6.d	CCALIB_4		B-4 29329	4712537		
4712496	1D1027.b	2J27D9.d	LCS	1023BMBLCS	1023BMBLCS	4712602	SG102303B	JETC04
4712496	1D1027.b	2J27D10.d	LCSD	1023BMBLCSD	1023BMBLCSD	4712617	SG102303B	JETC04
4712496	1C1027.b	2J27C12.d	BLANK	1023BMB	1023BMB	4712621	SG102303B	JETC04
4712496	1C1024.b	2J24C15.d	SAMPLE	74651-1	086-DWC-S-1017-0	4712592	SG102303B	JETC04
4712505	1D1027.b	2J27D4.d	PEM		PEM 292812	4712502		
4712505	1D1027.b	2J27D5.d	CCALIB_4		A-4 29322	4712503		
4712505	1D1027.b	2J27D6.d	CCALIB_4		B-4 29329	4712534		
4712572	1C1027.b	1J27C4.d	PEM		PEM 292812	4712559		
4712572	1C1027.b	1J27C5.d	CCALIB_3		A-3 29319	4712560		

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QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4712572	1C1027.b	1J27C6.d	CCALIB_3		B-3 29328	4712561		
4712572	1C1027.b	1J27C8.d	CCALIB_3		1660-3 9259	4712577		
4712573	1C1027.b	2J27C4.d	PEM		PEM 292812	4712568		
4712573	1C1027.b	2J27C5.d	CCALIB_3		A-3 29319	4712569		
4712573	1C1027.b	2J27C6.d	CCALIB_3		B-3 29328	4712570		
4712573	1C1027.b	2J27C8.d	CCALIB_3		1660-3 9259	4712575		

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SEQUENCE FILE: 1I22C

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	PRIM-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
2	PRIM-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
3	PRIM-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
4	PRIM-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
5	HEA -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
6	HER -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
7	FER 29213-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
8	A-1 2962 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
9	A-2 2963 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
10	A-3 29255 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
11	A-4 29256 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
12	A-5 2966 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
13	A-6 2967 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
14	B-1 2968 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
15	B-2 2969 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
16	B-3 29257 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
17	B-4 29258 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
18	B-5 2972 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
19	B-6 2973 -1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
20	PPM-1 29154-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
21	PPM-2 29155-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
22	PPM-3 29156-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
23	PPM-4 29157-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
24	PPM-5 29158-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
25	PPM-6 29159-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
26	TECH 29162-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
27	TDW 29161-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
28	1232 29175-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
29	1242 29176-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
30	1248 29177-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
31	2154 29178-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
32	1660-1 9102-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
33	1660-2 9103-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
34	1660-3 9104-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
35	1660-4 9105-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
36	1660-5 9106-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000
37	1660-6 9107-1C0922	E	1I22C	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: 12068

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT. STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PBLK ~101108	E	12052	1.0000	1.0000	1.0000	1.0000
2 PPM ~101009	E	12056	1.0000	1.0000	1.0000	1.0000
3 PPM ~101108	E	12062	1.0000	1.0000	1.0000	1.0000
4 MEK ~101012	E	12064	1.0000	1.0000	1.0000	1.0000
5 PEM 292812~101108	E	12068	1.0000	1.0000	1.0000	1.0000
6 A-1 29919 ~101009	E	12070	1.0000	1.0000	1.0000	1.0000
7 A-2 29919 ~101108	E	12080	1.0000	1.0000	1.0000	1.0000
8 A-3 29921 ~101009	E	12080	1.0000	1.0000	1.0000	1.0000
9 A-4 29922 ~101108	E	12080	1.0000	1.0000	1.0000	1.0000
10 A-5 29923 ~101009	E	12082	1.0000	1.0000	1.0000	1.0000
11 A-6 29924 ~101108	E	12080	1.0000	1.0000	1.0000	1.0000
12 B-1 29926 ~101009	E	12080	1.0000	1.0000	1.0000	1.0000
13 B-2 29927 ~101108	E	12080	1.0000	1.0000	1.0000	1.0000
14 B-3 29928 ~101009	E	12080	1.0000	1.0000	1.0000	1.0000
15 B-4 29929 ~101108	E	12080	1.0000	1.0000	1.0000	1.0000
16 B-5 293210~101009	E	12080	1.0000	1.0000	1.0000	1.0000
17 B-6 29931 ~101009	E	12080	1.0000	1.0000	1.0000	1.0000
18 PPM-1 29154~101008	E	12080	1.0000	1.0000	1.0000	1.0000
19 PPM-2 29155~101008	E	12080	1.0000	1.0000	1.0000	1.0000
20 PPM-3 29156~101009	E	12080	1.0000	1.0000	1.0000	1.0000
21 PPM-4 29157~101008	E	12080	1.0000	1.0000	1.0000	1.0000
22 PPM-5 29158~101008	E	12080	1.0000	1.0000	1.0000	1.0000
23 PPM-6 29159~101008	E	12080	1.0000	1.0000	1.0000	1.0000
24 PEM 292812~101009	E	12080	1.0000	1.0000	1.0000	1.0000
25 A-3 29921~101008	E	12080	1.0000	1.0000	1.0000	1.0000
26 B-3 29928~101008	E	12080	1.0000	1.0000	1.0000	1.0000
27 10072MB ~101008	E	12080	1.0000	1.0000	1.0000	1.0000
28 10072MB_D3 ~101006	E	12080	1.0000	1.0000	1.0000	1.0000
29 10072MSLCSD~101008	E	12080	1.0000	1.0000	1.0000	1.0000
30 10072MS ~101008	E	12080	1.0000	1.0000	1.0000	1.0000
31 74380-1~101008	E	12080	1.0000	1.0000	1.0000	1.0000
32 A-3 29921~101008	E	12080	1.0000	1.0000	1.0000	1.0000
33 B-3 29928~101008	E	12080	1.0000	1.0000	1.0000	1.0000

SECURITY FILE# 1024C

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PBIB ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
2 FRIN ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
3 FRIN ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
4 PEX ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
5 PEM 29282Z~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
6 PPM-4 29157~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
7 166"-4 2910~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
8 A-4 29322~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
9 B-4 29329~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
10 1020BMS ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
11 1010BMBLCS ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
12 1010DMBLCSD~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
13 74562-11~1C1024~MS	E	1024C	1.0000	1.0000	1.0000	1.0000
14 74562-11~1C1024~MD	E	1024C	1.0000	1.0000	1.0000	1.0000
15 74651-1 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
16 74616-6 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
17 74616-7 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
18 74616-9 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
19 1019BMB~1C1024~FC	E	1024C	1.0000	1.0000	1.0000	1.0000
20 1023BMBLCS ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
21 1023BMBLCSD~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
22 74635-3~1C1024~MS	E	1024C	1.0000	1.0000	1.0000	1.0000
23 74635-3~1C1024~MSD	E	1024C	1.0000	1.0000	1.0000	1.0000
24 74635-1~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
25 74635-2~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
26 74635-3~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
27 74635-4~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
28 74635-5~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
29 HEX ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
30 HEX ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
31 PEM 29282Z~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
32 A-4 29322~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
33 B-4 29329~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
34 PPM-4 29157~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
35 166"-4 2910~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
36 73562-1 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
37 73562-2 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
38 73562-3 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
39 73562-4 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
40 73562-5 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
41 73562-6 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
42 73562-7 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
43 73562-8 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
44 73562-9 ~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
45 73562-10~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
46 73562-11~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
47 73562-12~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
48 73562-13~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
49 73562-14~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
50 73562-15~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
51 73562-16~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
52 73562-17~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
53 73562-18~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000
54 A-4 29322~1C1024	E	1024C	1.0000	1.0000	1.0000	1.0000

0232

55	B-4	25359-101024	E	10240	1.0000	1.0000	1.0000	1.0000
56	PPM-4	28157-101024	E	10240	1.0000	1.0000	1.0000	1.0000
57	1640-4	15710-101024	E	10240	1.0000	1.0000	1.0000	1.0000
58	B-1	27519-101024	E	10240	1.0000	1.0000	1.0000	1.0000
59	B-1	28316-101024	E	10240	1.0000	1.0000	1.0000	1.0000
60	PPM-1	28134-101024	E	10240	1.0000	1.0000	1.0000	1.0000
61	1640-1	9512-101024	E	10240	1.0000	1.0000	1.0000	1.0000

0233

SEQUENCE FILE: 13270

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PBIM ~101027	E	13270	1.0000	1.0000	1.0000	1.0000
2 PBIM ~101027	E	13270	1.0000	1.0000	1.0000	1.0000
3 PBIM ~101027	E	13270	1.0000	1.0000	1.0000	1.0000
4 PEM 292812~101027	E	13270	1.0000	1.0000	1.0000	1.0000
5 A-3 29519~101027	E	13270	1.0000	1.0000	1.0000	1.0000
6 B-3 29523~101027	E	13270	1.0000	1.0000	1.0000	1.0000
7 FPM-3 29156~101027	E	13270	1.0000	1.0000	1.0000	1.0000
8 1669-3 9259~101027	E	13270	1.0000	1.0000	1.0000	1.0000
9 73655-1~101027	E	13270	1.0000	1.0000	1.0000	1.0000
10 73635-2~101027	E	13270	1.0000	1.0000	1.0000	1.0000
11 73635-3~101027	E	13270	1.0000	1.0000	1.0000	1.0000
12 10253MB~101027~FC	E	13270	1.0000	1.0000	1.0000	1.0000
13 73655-3~101027~MB	E	13270	1.0000	1.0000	1.0000	1.0000
14 73635-3~101027~MSD	E	13270	1.0000	1.0000	1.0000	1.0000
15 73635-4~101027	E	13270	1.0000	1.0000	1.0000	1.0000
16 73635-5~101027	E	13270	1.0000	1.0000	1.0000	1.0000
17 10253MSLCS ~101027	E	13270	1.0000	1.0000	1.0000	1.0000
18 10253MSLCSD~101027	E	13270	1.0000	1.0000	1.0000	1.0000
19 PEM 292812~101027	E	13270	1.0000	1.0000	1.0000	1.0000
20 A-3 29519~101027	E	13270	1.0000	1.0000	1.0000	1.0000
21 B-3 29528~101027	E	13270	1.0000	1.0000	1.0000	1.0000
22 FPM-3 29157~101027	E	13270	1.0000	1.0000	1.0000	1.0000
23 1669-3 9259~101027	E	13270	1.0000	1.0000	1.0000	1.0000

0234

55	A-4	29322-1D1021	K	1321D	1.0000	1.0000	1.0000	1.0000
56	B-4	29329-1D1021	K	1321D	1.0000	1.0000	1.0000	1.0000

0236

CHLORINATED HERBICIDES
Method 8151

CASE NARRATIVE

CASE NARRATIVE
GC CHLORINATED HERBICIDES

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3550
Cleanup: N/A
Analysis: SW-846 8151

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: [signature] DATE: 10/29/03

Timothy Preston
Project Manager

FORMS

SG ORGANICS ANALYSIS DATA SHEET

74651-1

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 086-DWC-S-1017-03

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 1J24L036

Level: (low/med) LOW Date Received: 10/18/03

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/24/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-99-0	Dalapon	120	U
93-65-2	MCPP	120	U
1918-00-9	Dicamba	1.2	U
94-74-6	MCPA	120	U
120-36-5	Dichlorprop	6.0	U
94-75-7	2,4-D	0.50	U
87-86-5	Pentachlorophenol	1.0	U
93-72-1	2,4,5-TP	0.50	U
93-76-5	2,4,5-T	0.50	U
88-85-7	Dinoseb	6.0	U
1918-02-1	Picloram	0.50	U
25057-89-0	Bentazon	2.0	U
94-82-6	2,4-DB	0.50	U

FORM I SG

SG ORGANICS ANALYSIS DATA SHEET

1023QMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1023QMB

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 1J24L031

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/24/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-99-0	Dalapon	120	U
93-65-2	MCPP	120	U
1918-00-9	Dicamba	1.2	U
94-74-6	MCPA	120	U
120-36-5	Dichlorprop	6.0	U
94-75-7	2,4-D	0.50	U
87-86-5	Pentachlorophenol	1.0	U
93-72-1	2,4,5-TP	0.50	U
93-76-5	2,4,5-T	0.50	U
88-85-7	Dinoseb	6.0	U
1918-02-1	Picloram	0.50	U
25057-89-0	Bentazon	2.0	U
94-82-6	2,4-DB	0.50	U

FORM I SG

SG ORGANICS ANALYSIS DATA SHEET

1023QMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1023QMBLCS

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 1J24L032

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/24/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-99-0	Dalapon	1.3	J
93-65-2	MCPP	140	
1918-00-9	Dicamba	1.4	
94-74-6	MCPA	220	
120-36-5	Dichlorprop	1.6	J
94-75-7	2,4-D	1.2	
87-86-5	Pentachlorophenol	1.2	
93-72-1	2,4,5-TP	1.6	
93-76-5	2,4,5-T	1.1	
88-85-7	Dinoseb	0.86	J
1918-02-1	Picloram	1.3	
25057-89-0	Bentazon	1.8	J
94-82-6	2,4-DB	2.6	

FORM I SG

SG ORGANICS ANALYSIS DATA SHEET

1023QMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix: (soil/water) WATER Lab Sample ID: 1023QMBLCSD

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: 1J24L033

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:10/23/03

Concentrated Extract Volume: 5(mL) Date Analyzed: 10/24/03

Injection Volume: 1.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-99-0	Dalapon	1.3	J
93-65-2	MCPP	140	
1918-00-9	Dicamba	1.4	
94-74-6	MCPA	220	
120-36-5	Dichlorprop	1.5	J
94-75-7	2,4-D	1.2	
87-86-5	Pentachlorophenol	1.2	
93-72-1	2,4,5-TP	1.5	
93-76-5	2,4,5-T	0.99	
88-85-7	Dinoseb	0.82	J
1918-02-1	Picloram	1.2	
25057-89-0	Bentazon	1.7	J
94-82-6	2,4-DB	2.6	

FORM I SG

WATER SG SURROGATE RECOVERY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

	CLIENT SAMPLE NO.	S1 (DCPA)	#	S2	#	S3	#	S4	#	S5	#	S6	#	S7	#	S8	#	TOT OUT
01	1023QMB	83																0
02	1023QMBLCS	91																0
03	1023QMBLCSD	96																0
04	74651-1	99																0
05																		
06																		
07																		
08																		
09																		
10																		
11																		
12																		
13																		
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28																		
29																		
30																		

QC LIMITS

S1 (DCPA) = 2,4-DichlorophenylAcet (27-133)

Column to be used to flag recovery values
* Values outside of laboratory QC limits
D Sample diluted

WATER SG LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Matrix Spike - Sample No.: 1023QMB

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONC (ug/l)	LCS CONC (ug/l)	LCS % REC#	QC. LIMITS REC.
2,4,5-T	1.7	0.00	1.1	65	25-128
2,4,5-TP	1.7	0.00	1.6	94	10-135
2,4-D	1.7	0.00	1.2	70	11-154

COMPOUND	SPIKE ADDED (ug/l)	LCSD CONC (ug/l)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
2,4,5-T	1.7	0.99	58	62	10	48	25-128
2,4,5-TP	1.7	1.5	88	91	6.4	66	10-135
2,4-D	1.7	1.2	70	70	0	78	11-154

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM III SG

0247

SG METHOD BLANK SUMMARY

1023QMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID: 1J24L031 Lab Sample ID: 1023QMB

Instrument ID: TSGLECD1 Date Extracted: 10/23/03

Matrix: (soil/water) WATER Date Analyzed: 10/24/03

Level: (low/med) LOW Time Analyzed: 2050

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	1023QMBLCS	1023QMBLCS	1J24L032	10/24/03
02	1023QMBLCSD	1023QMBLCSD	1J24L033	10/24/03
03	74651-1	086-DWC-S-1017	1J24L036	10/24/03
04				
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COMMENTS:

FORM IV SG

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0923 1038

LAB FILE ID: RF0: 1J21L003 RF0: 1J21L004 RF0: 1J21L005
RF0: 1J21L006 RF0: 1J21L007

COMPOUND	RF0	RF0	RF0	RF0	RF0
Dalapon	0.20329	0.18604	0.18132	0.17597	0.18964
MCPP	0.00029	0.00031	0.00031	0.00029	0.00029
Dicamba	0.53140	0.45224	0.43212	0.39336	0.38509
MCPA	0.00031	0.00031	0.00029	0.00029	0.00030
Dichlorprop	0.09260	0.08000	0.07757	0.07417	0.07344
2,4-D	0.17270	0.14511	0.13417	0.12269	0.11000
Pentachlorophenol	1.87118	1.77953	1.73558	1.66425	1.75586
2,4,5-TP	0.38149	0.38568	0.36493	0.36170	0.34714
2,4,5-T	0.72698	0.64717	0.61657	0.57146	0.56437
Dinoseb	0.45825	0.43335	0.41552	0.40167	0.42479
Picloram	0.74569	0.91193	0.87268	0.81965	0.85269
Bentazon	0.08445	0.07682	0.07155	0.06597	0.06435
2,4-DB	0.02833	0.02821	0.02818	0.02880	0.02905
2,4-DichlorophenylAceticAcid	0.12134	0.09862	0.09297	0.08678	0.08731

FORM VI SG

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0923 1038

RF0: 1J21L008

COMPOUND	RF0
Dalapon	0.19088
MCPP	0.00030
Dicamba	
MCPA	0.00035
Dichlorprop	0.08206
2,4-D	0.10209
Pentachlorophenol	1.67678
2,4,5-TP	0.36506
2,4,5-T	0.52736
Dinoseb	0.45414
Picloram	0.84511
Bentazon	0.05417
2,4-DB	0.03351
2,4-DichlorophenylAceticAcid	0.08820

FORM VI SG

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD1 Calibration Date(s): 10/21/03 10/21/03

Column: DB-5 ID: 0.32 (mm) Calibration Time(s): 0923 1038

COMPOUND	CURVE	COEFFICIENTS A0	A1	A2	%RSD or R^2
Dalapon	AVRG		0.18786		5.0
MCPP	AVRG		2.977e-004		3.2
Dicamba	LINR	0.00000000	2.54482		0.994
MCPA	2ORDR	0.00000000	3542.77	-475.9	1.000
Dichlorprop	2ORDR	0.00000000	13.8546	-0.479	1.000
2,4-D	2ORDR	0.00000000	8.03573	0.4107	0.999
Pentachlorophenol	AVRG		1.74720		4.3
2,4,5-TP	LINR	0.00000000	2.75160		1.000
2,4,5-T	2ORDR	0.00000000	1.67681	9.766e-003	1.000
Dinoseb	2ORDR	0.00000000	2.44139	-1.24e-002	1.000
Picloram	AVRG		0.84129		6.7
Bentazon	2ORDR	0.00000000	13.8520	1.3513	1.000
2,4-DB	2ORDR	0.00000000	36.0648	-4.343	1.000
2,4-DichlorophenylAceticAcid	2ORDR	0.00000000	11.3008	4.188e-003	1.000

FORM VI SG

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD2 Calibration Date(s): 10/21/03 10/21/03

Column: DB-608 ID: 0.32 (mm) Calibration Time(s): 0923 1038

LAB FILE ID: RF0: 1J21L003 RF0: 1J21L004 RF0: 1J21L005
RF0: 1J21L006 RF0: 1J21L007

COMPOUND	RF0	RF0	RF0	RF0	RF0
Dalapon	0.09359	0.08347	0.08776	0.09011	
MCPP	0.00025	0.00027	0.00029	0.00029	
Dicamba	0.33933	0.35382	0.35663	0.34273	
MCPA		0.00092	0.00081	0.00050	
Dichlorprop	0.12204	0.10127	0.09801	0.09198	
2,4-D	0.16379	0.15016	0.14521	0.12664	
Pentachlorophenol	1.92063	1.94388	1.90655	1.75253	
2,4,5-TP	0.76358	0.73509	0.70783	0.62403	
2,4,5-T	0.65534	0.64421	0.63134	0.56165	
Dinoseb	0.42728	0.43448	0.42856	0.38141	
Picloram	0.66244	0.88348	0.89511	0.79280	
Bentazon	0.06997	0.06772	0.06634	0.06028	
2,4-DB	0.05584	0.05173	0.05479	0.05614	
2,4-DichlorophenylAceticAcid	0.11099	0.09852	0.09819	0.09489	

FORM VI SG

0252

SG INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD2 Calibration Date(s): 10/21/03 10/21/03

Column: DB-608 ID: 0.32 (mm) Calibration Time(s): 0923 1038

RF0: 1J21L008

COMPOUND	RF0	CURVE	COEFFICIENTS A0	A1	%RSD or R^2
Dalapon	0.10229	LINR	2.3336	9.66459	1.000
MCPP	0.00033	LINR	52.748	3007.39	1.000
Dicamba	0.30641	LINR	0.00000000	3.24370	0.999
MCPA	0.00035	LINR	-555.2	3228.92	0.997
Dichlorprop	0.09076	LINR	-0.318	11.1057	1.000
2,4-D	0.09568	LINR	-1.874	10.8643	0.998
Pentachlorophenol	1.46841	AVRG		1.79840	11.1
2,4,5-TP	0.45451	LINR	0.00000000	2.14354	0.988
2,4,5-T	0.41656	LINR	-1.860	2.49103	0.998
Dinoseb	0.32453	LINR	0.00000000	3.04596	0.996
Picloram	0.62769	LINR	0.00000000	1.56661	0.994
Bentazon	0.04920	LINR	0.00000000	20.0386	0.995
2,4-DB	0.05994	AVRG		5.569e-002	5.3
2,4-DichlorophenylAceticAcid	0.10477	LINR	0.00000000	9.57414	1.000

FORM VI SG

0253

SG CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD1 Calibration Date: 10/24/03 Time: 2029

Lab File ID: 1J24L030 Init. Calib. Date(s): 10/21/03 10/21/03

Init. Calib. Times: 0923 1038

GC Column: DB-5 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0 AMOUNT	CURVE	%D	MAX %d	
Dalapon	0.346	0.368	AVRG	6.0	15.0	
MCPP	8.95	8.45	AVRG	5.9	15.0	
Dicamba	0.0938	0.0840	LINR	11.7	15.0	
MCPA	8.89	8.42	2ORDR	5.6	15.0	
Dichlorprop	0.0949	0.0848	2ORDR	11.9	15.0	
2,4-D	0.0938	0.0846	2ORDR	10.9	15.0	
Pentachlorophenol	0.0287	0.0285	AVRG	0.7	15.0	
2,4,5-TP	0.0851	0.0855	LINR	0.5	15.0	
2,4,5-T	0.0881	0.0855	2ORDR	3.0	15.0	
Dinoseb	0.0927	0.0848	2ORDR	9.3	15.0	
Picloram	0.115	0.113	AVRG	1.8	15.0	
Bentazon	0.0724	0.114	2ORDR	36.5	15.0	<-
2,4-DB	0.000	0.0855	2ORDR	100.0	15.0	<-
2,4-DichlorophenylAceticAcid	0.242	0.225	2ORDR	7.6	15.0	

FORM VII SG

SG CONTINUING CALIBRATION CHECK

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Instrument ID: TSGLECD2 Calibration Date: 10/24/03 Time: 2029

Lab File ID: 1J24L030 Init. Calib. Date(s): 10/21/03 10/21/03

Init. Calib. Times: 0923 1038

GC Column: DB-17 ID: 0.32 (mm)

COMPOUND	SAMPLE AMOUNT	CAL0 AMOUNT	CURVE	%D	MAX %d	
Dalapon	0.368	0.368	LINR	0.0	15.0	
MCPP	9.25	8.45	LINR	9.5	15.0	
Dicamba	0.0952	0.0840	LINR	13.3	15.0	
MCPA	12.8	8.42	LINR	52.0	15.0	<-
Dichlorprop	0.0892	0.0848	LINR	5.2	15.0	
2,4-D	0.0865	0.0846	LINR	2.2	15.0	
Pentachlorophenol	0.0285	0.0285	AVRG	0.0	15.0	
2,4,5-TP	0.123	0.0855	LINR	43.8	15.0	<-
2,4,5-T	0.0854	0.0855	LINR	0.1	15.0	
Dinoseb	0.102	0.0848	LINR	20.3	15.0	<-
Picloram	0.135	0.113	LINR	19.5	15.0	<-
Bentazon	0.138	0.114	LINR	21.0	15.0	<-
2,4-DB	0.0908	0.0855	AVRG	6.2	15.0	
2,4-DichlorophenylAceticAcid	0.233	0.225	LINR	3.6	15.0	

FORM VII SG

SG INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J24L030 Date Analyzed: 10/24/03

Instrument ID: TSGLECD1 Time Analyzed: 2029

		IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	5758	6.37				
	UPPER LIMIT	8637	6.87				
	LOWER LIMIT	2879	5.87				
	CLIENT SAMPLE NO.						
01	1023QMB	4953	6.37				
02	1023QMBLCS	4781	6.37				
03	1023QMBLCSD	4688	6.37				
04	74651-1	5645	6.37				
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Dbofb

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SG INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

Lab File ID (Standard): 1J24L030 Date Analyzed: 10/24/03

Instrument ID: TSGLECD2 Time Analyzed: 2029

	CLIENT SAMPLE NO.	IS1 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	4477	6.33				
	UPPER LIMIT	6716	6.83				
	LOWER LIMIT	2239	5.83				
01	1023QMB	3532	6.33				
02	74651-1	3691	6.33				
03							
04							
05							
06							
07							
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16							
17							
18							
19							
20							
21							
22							

IS1 = Dbofb

AREA UPPER LIMIT = + 50% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SG

SG ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 10/21/03 10/21/03

Instrument ID: TSGLECD1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	RT
01		HERB1 226	10/21/03	0923	5.81	
02		HERB2 227	10/21/03	0938	5.80	
03		HERB3 228	10/21/03	0953	5.80	
04		HERB4 229	10/21/03	1008	5.79	
05		HERB52210	10/21/03	1023	5.79	
06		HERB6 231	10/21/03	1038	5.79	
07		HERB3 225	10/24/03	2029	5.80	
08	1023QMB	1023QMB	10/24/03	2050	5.81	
09	1023QMBLCS	1023QMBLCS	10/24/03	2111	5.80	
10	1023QMBLCSD	1023QMBLCSD	10/24/03	2132	5.80	
11	74651-1	086-DWC-S-10	10/24/03	2235	5.80	
12						
13						
14						
15						
16						
17						
18						
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26						
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28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

S1 = 2,4-DichlorophenylAcet (+/- 0.04 MINUTES)

FORM VIII SG

SG ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: JETC04

GC Column: DB-608 ID: 0.32 (mm) Init. Calib. Date(s): 10/21/03 10/21/03

Instrument ID: TSGLECD2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	RT
01		HERB1 226	10/21/03	0923	6.21	
02		HERB2 227	10/21/03	0938	6.21	
03		HERB3 228	10/21/03	0953	6.21	
04		HERB4 229	10/21/03	1008	6.20	
05		HERB52210	10/21/03	1023	6.20	
06		HERB6 231	10/21/03	1038	6.20	
07		HERB3 225	10/24/03	2029	6.21	
08	1023QMB	1023QMB	10/24/03	2050	6.21	
09	74651-1	086-DWC-S-10	10/24/03	2235	6.21	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

S1 = 2,4-DichlorophenylAcet (+/- 0.06 MINUTES)

FORM VIII SG

EXTRACTION LOG(S)

EXTRACTION LOG

BE 10-24-3 7/12/22

7

o No: 651

tch No: 3G102303Q

te Extracted: 10.23.03

art Time: 4 PM

op Time:

nalysis Required: 8151

ep Method: 3510

nalyst/Activity Code* BE/A,B,D,E,F,P

itial Project Check: BE

nal Project Check: BE

ate Concentrated: 10-24-3

itials: BE

xtract Box ID:

	ID	Lot #	Amt (ml)	Init
urr.	8151	6.3.72.3	1.0	BE
urr.				
pike	8151	6.3.74.1	1.0	BE
pike				

Clean Up: Yes No

Comments

Solvent(s) Lot No:

Methanol: Y26E62

E. Ether: Y34H12

MTBE: C51419

HEX: Y13E22

ACIDIFIED Na_2SO_4: Y316Z6

* See inside front cover of logbook for definition codes

SAMPLE ID/DESCRIPTION	SDG	MT	Amt Exc'd	PH I	PH F	FV (ml)	D-D	H-D	COMMENTS
1. T374616*9/MBA*		LI	500 ml	7	~~BE~~	5	10.24	10.23	RI
2. T374651*1/086-DWC-S-1017-03*	JETC04	LI	500 ml	↓	7/12/22	↓	10.24	10.24	RI
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									
Lab Blank		LI	500	7	7/12/22	5			
Lab Spike #1		LI	500	7	7/12/22	↓			
Lab Spike #2		LI	500	7	7/12/22	↓			
MS:		LI	500	↓	7/12/22	↓			
MSD:		LI	500	↓	7/12/22	↓			
[illegible] AN.422.004.2.6									
10 N NaOH: AN.422.004.3.9									
NaCl: X28634									

Dets: Chlorinated Herbicides <8151>

+ Additional Dets:

AN 10-26-03

ANALYSIS LOG(S)

Client SDG: JETC04 Sample Fraction: SG

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
4408046	1L1021.b	1J21L003.D	CALIB_1		HERB1 226	4408040		
4408046	1L1021.b	1J21L004.D	CALIB_2		HERB2 227	4408041		
4408046	1L1021.b	1J21L005.D	CALIB_3		HERB3 228	4408042		
4408046	1L1021.b	1J21L006.D	CALIB_4		HERB4 229	4408043		
4408046	1L1021.b	1J21L007.D	CALIB_5		HERB52210	4408044		
4408046	1L1021.b	1J21L008.D	CALIB_6		HERB6 231	4408045		
4408061	1L1021.b	1J21L003.D	CALIB_1		HERB1 226	4408055		
4408061	1L1021.b	1J21L004.D	CALIB_2		HERB2 227	4408056		
4408061	1L1021.b	1J21L005.D	CALIB_3		HERB3 228	4408057		
4408061	1L1021.b	1J21L006.D	CALIB_4		HERB4 229	4408058		
4408061	1L1021.b	1J21L007.D	CALIB_5		HERB52210	4408059		
4408061	1L1021.b	1J21L008.D	CALIB_6		HERB6 231	4408060		
4408549	1L1024.b	1J24L030.D	CCALIB_3		HERB3 225	4408788	SG102303Q	
4408549	1L1024.b	1J24L031.D	BLANK	1023QMB	1023QMB	4408799	SG102303Q	JETC04
4408549	1L1024.b	1J24L032.D	LCS	1023QMBLCS	1023QMBLCS	4408800	SG102303Q	JETC04
4408549	1L1024.b	1J24L033.D	LCSD	1023QMBLCSD	1023QMBLCSD	4408801	SG102303Q	JETC04
4408549	1L1024.b	1J24L036.D	SAMPLE	74651-1	086-DWC-S-1017-0	4408995	SG102303Q	JETC04
4408756	1L1024.b	1J24L030.D	CCALIB_3		HERB3 225	4408791	SG102303Q	
4408756	1L1024.b	1J24L031.D	BLANK	1023QMB	1023QMB	4408999	SG102303Q	JETC04
4408756	1L1024.b	1J24L036.D	SAMPLE	74651-1	086-DWC-S-1017-0	4409000	SG102303Q	JETC04

0263

TAL METALS
Method 6010/7471

CASE NARRATIVE

CASE NARRATIVE
TAL METALS

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: SW-846 3005
Cleanup: N/A
Analysis: SW-846 6010/7471

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Blanks: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Spikes: All acceptance criteria were met.

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/29/03

Timothy Preston
Project Manager

FORMS

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental

SDG No.: JETC04 Method Type: SOW No.:

Contract: Lab Code: STL Case No.: SAS No.:

Lab Sample ID	Client Sample ID	QC Description
T374651-1	086-DWC-S-1017-03	

Were ICP interelement corrections applied?	Yes/No	Yes	
Were ICP background corrections applied?	Yes/No	Yes	
If yes - were raw data generated before applications of background corrections?	Yes/No	No	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

- COVER PAGE -
INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental

SDG No.: JETC04 Method Type: SOW No.:

Contract: Lab Code: STL Case No.: SAS No.:

Lab Sample ID	Client Sample ID	QC Description
T374651-1	086-DWC-S-1017-03	

Were ICP interelement corrections applied?	Yes/No	Yes	
Were ICP background corrections applied?	Yes/No	Yes	
If yes - were raw data generated before applications of background corrections?	Yes/No	No	

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: Title:

0269

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental **SDG No.:** JETC04 **Method Type:**

Sample ID: T374651-1 **Client ID:** 086-DWC-S-1017-03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: WATER **Date Received:** 10/18/2003 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7429-90-5	Aluminum	0.97	mg/L			P	0.03	TJA61E Trace	102203
7440-36-0	Antimony	0.020	mg/L	U		P	0.005	TJA61E Trace	102203
7440-38-2	Arsenic	0.010	mg/L	U		P	0.003	TJA61E Trace	102203
7440-39-3	Barium	0.67	mg/L			P	0.001	TJA61E Trace	102203
7440-41-7	Beryllium	0.0040	mg/L	U		P	0.0005	TJA61E Trace	102203
7440-43-9	Cadmium	0.0050	mg/L	U		P	0.0007	TJA61E Trace	102203
7440-70-2	Calcium	77	mg/L			P	0.04	TJA61E Trace	102203
7440-47-3	Chromium	0.0022	mg/L	B		P	0.002	TJA61E Trace	102203
7440-48-4	Cobalt	0.010	mg/L	U		P	0.001	TJA61E Trace	102203
7440-50-8	Copper	0.020	mg/L	U		P	0.001	TJA61E Trace	102203
7439-89-6	Iron	8.8	mg/L			P	0.018	TJA61E Trace	102203
7439-92-1	Lead	0.0050	mg/L	U		P	0.0015	TJA61E Trace	102203
7439-95-4	Magnesium	1.7	mg/L			P	0.11	TJA61E Trace	102203
7439-96-5	Manganese	0.18	mg/L			P	0.001	TJA61E Trace	102203
7440-02-0	Nickel	0.040	mg/L	U		P	0.005	TJA61E Trace	102203
7440-09-7	Potassium	5.1	mg/L			P	0.19	TJA61E Trace	102203
7782-49-2	Selenium	0.010	mg/L	U		P	0.004	TJA61E Trace	102203
7440-22-4	Silver	0.010	mg/L	U		P	0.002	TJA61E Trace	102203
7440-23-5	Sodium	26	mg/L			P	0.31	TJA61E Trace	102203
7440-28-0	Thallium	0.010	mg/L	U		P	0.005	TJA61E Trace	102203
7440-66-6	Zinc	0.028	mg/L			P	0.006	TJA61E Trace	102203
7440-62-2	Vanadium	0.0031	mg/L	B		P	0.002	TJA61E Trace	102203

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Aerostar Environmental **SDG No.:** JETC04 **Method Type:**

Sample ID: T374651-1 **Client ID:** 086-DWC-S-1017-03

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: WATER **Date Received:** 10/18/2003 **Level:** LOW

% Solids:

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-97-6	Mercury	0.00020	mg/L	U		CV	0.00020	CVAA	1023CVLI

Color Before: **Clarity Before:** **Texture:**

Color After: **Clarity After:** **Artifacts:**

Comments:

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Aluminum	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Antimony	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Arsenic	1.9	2.0	95.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Barium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Beryllium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Cadmium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Calcium	2.1	2.0	105.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Chromium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Cobalt	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Copper	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Iron	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Lead	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Magnesium	1.9	2.0	95.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Manganese	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Nickel	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Potassium	20.0	20.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Selenium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Silver	2.1	2.0	105.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Sodium	16.4	17.0	96.5	90.0 - 110.0	P	10/22/2003	12:25	102203
	Thallium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Zinc	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203
	Vanadium	2.0	2.0	100.0	90.0 - 110.0	P	10/22/2003	12:25	102203

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1									
	Aluminum	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Antimony	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Beryllium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Calcium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Cobalt	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Copper	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Iron	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Magnesium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Manganese	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Nickel	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Potassium	9.9	10.0	99.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Sodium	10.8	11.0	98.2	90.0 - 110.0	P	10/22/2003	13:54	102203
	Thallium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Zinc	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203
	Vanadium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	13:54	102203

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV5									
	Aluminum	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Antimony	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Beryllium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Calcium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Cobalt	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Copper	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Iron	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Magnesium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Manganese	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Nickel	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Potassium	9.8	10.0	98.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Sodium	10.9	11.0	99.1	90.0 - 110.0	P	10/22/2003	17:28	102203
	Thallium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Zinc	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203
	Vanadium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	17:28	102203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV6									
	Aluminum	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Antimony	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Arsenic	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Beryllium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Cadmium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Calcium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Cobalt	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Copper	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Iron	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Lead	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Magnesium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Manganese	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Nickel	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Potassium	9.6	10.0	96.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Sodium	10.8	11.0	98.2	90.0 - 110.0	P	10/22/2003	18:15	102203
	Thallium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Zinc	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203
	Vanadium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	18:15	102203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV7									
	Aluminum	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Antimony	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Arsenic	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Barium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Beryllium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Cadmium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Calcium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Cobalt	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Copper	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Iron	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Magnesium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Manganese	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Nickel	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Potassium	9.6	10.0	96.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Silver	1.1	1.0	110.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Sodium	10.7	11.0	97.3	90.0 - 110.0	P	10/22/2003	19:03	102203
	Thallium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Zinc	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203
	Vanadium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:03	102203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV8									
	Aluminum	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Antimony	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Beryllium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Calcium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Cobalt	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Copper	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Iron	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Magnesium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Manganese	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Nickel	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Potassium	10.0	10.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Selenium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Sodium	11.1	11.0	100.9	90.0 - 110.0	P	10/22/2003	19:46	102203
	Thallium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Zinc	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203
	Vanadium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	19:46	102203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV9									
	Aluminum	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Antimony	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Arsenic	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Barium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Beryllium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Cadmium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Calcium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Chromium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Cobalt	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Copper	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Iron	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Lead	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Magnesium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Manganese	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Nickel	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Potassium	9.9	10.0	99.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Selenium	0.9	1.0	90.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Silver	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Sodium	11.0	11.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Thallium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Zinc	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203
	Vanadium	1.0	1.0	100.0	90.0 - 110.0	P	10/22/2003	20:33	102203

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1									
	Mercury	0.0028	0.0030	93.3	90.0 - 110.0	CV	10/23/2003	12:57	1023CVLI
CCV1									
	Mercury	0.0019	0.0020	95.0	80.0 - 120.0	CV	10/23/2003	13:20	1023CVLI
CCV3									
	Mercury	0.0017	0.0020	85.0	80.0 - 120.0	CV	10/23/2003	14:09	1023CVLI
CCV4									
	Mercury	0.0018	0.0020	90.0	80.0 - 120.0	CV	10/23/2003	14:33	1023CVLI

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental SDG No.: JETC04

Contract: Lab Code: STL Case No.: SAS No.:

AA CRDL Standard Source:

ICP CRDL Standard Source:

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Aluminum	0.20	0.20	100.0	50 - 150	P	10/22/200	13:26	102203
	Antimony	0.021	0.020	105.0	50 - 150	P	10/22/200	13:26	102203
	Arsenic	0.012	0.010	120.0	50 - 150	P	10/22/200	13:26	102203
	Barium	0.010	0.010	100.0	50 - 150	P	10/22/200	13:26	102203
	Beryllium	0.0034	0.0040	85.0	50 - 150	P	10/22/200	13:26	102203
	Cadmium	0.0053	0.0050	106.0	50 - 150	P	10/22/200	13:26	102203
	Calcium	0.43	0.50	86.0	50 - 150	P	10/22/200	13:26	102203
	Chromium	0.010	0.010	100.0	50 - 150	P	10/22/200	13:26	102203
	Cobalt	0.010	0.010	100.0	50 - 150	P	10/22/200	13:26	102203
	Copper	0.008	0.010	80	50 - 150	P	10/22/200	13:26	102203
	Iron	0.051	0.050	102.0	50 - 150	P	10/22/200	13:26	102203
	Magnesium	0.46	0.50	92.0	50 - 150	P	10/22/200	13:26	102203
	Manganese	0.010	0.010	100.0	50 - 150	P	10/22/200	13:26	102203
	Nickel	0.020	0.040	50.0	50 - 150	P	10/22/200	13:26	102203
	Potassium	1.07	1.0	107.0	50 - 150	P	10/22/200	13:26	102203
	Selenium	0.006	0.010	60.0	50 - 150	P	10/22/200	13:26	102203
	Silver	0.006	0.010	60.0	50 - 150	P	10/22/200	13:26	102203
	Sodium	0.56	1.00	56.0	50 - 150	P	10/22/200	13:26	102203
	Zinc	0.020	0.020	100.0	50 - 150	P	10/22/200	13:26	102203
	Vanadium	0.010	0.010	100.0	50 - 150	P	10/22/200	13:26	102203
CRDL2									
	Lead	0.0047	0.0050	94.0	50 - 150	P	10/22/200	13:28	102203
	Thallium	0.008	0.010	80.0	50 - 150	P	10/22/200	13:28	102203

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: _____ **Lab Code:** STL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL3									
	Aluminum	0.20	0.20	100.0	50 - 150	P	10/22/200	20:05	102203
	Antimony	0.021	0.020	105.0	50 - 150	P	10/22/200	20:05	102203
	Arsenic	0.005	.01	50	50 - 150	P	10/22/200	20:05	102203
	Barium	0.011	0.010	110.0	50 - 150	P	10/22/200	20:05	102203
	Beryllium	0.0029	0.0040	72.5	50 - 150	P	10/22/200	20:05	102203
	Cadmium	0.0054	0.0050	108.0	50 - 150	P	10/22/200	20:05	102203
	Calcium	0.45	0.50	90.0	50 - 150	P	10/22/200	20:05	102203
	Chromium	0.010	0.010	100.0	50 - 150	P	10/22/200	20:05	102203
	Cobalt	0.010	0.010	100.0	50 - 150	P	10/22/200	20:05	102203
	Copper	0.008	0.010	80.0	50 - 150	P	10/22/200	20:05	102203
	Iron	0.059	0.050	118.0	50 - 150	P	10/22/200	20:05	102203
	Lead	0.0060	0.0050	120.0	50 - 150	P	10/22/200	20:05	102203
	Magnesium	0.48	0.50	96.0	50 - 150	P	10/22/200	20:05	102203
	Manganese	0.010	0.010	100.0	50 - 150	P	10/22/200	20:05	102203
	Nickel	0.020	0.040	50.0	50 - 150	P	10/22/200	20:05	102203
	Potassium	1.04	1.0	104.0	50 - 150	P	10/22/200	20:05	102203
	Selenium	0.005	.01	50	50 - 150	P	10/22/200	20:05	102203
	Silver	0.006	0.010	60.0	50 - 150	P	10/22/200	20:05	102203
	Sodium	0.72	1.00	72.0	50 - 150	P	10/22/200	20:05	102203
	Thallium	0.012	.01	120	50 - 150	P	10/22/200	20:05	102203
	Zinc	0.020	0.020	100.0	50 - 150	P	10/22/200	20:05	102203
	Vanadium	0.010	0.010	100.0	50 - 150	P	10/22/200	20:05	102203

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CRDL STANDARD FOR AA & ICP

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: _____ **Lab Code:** STL **Case No.:** _____ **SAS No.:** _____

AA CRDL Standard Source: _____

ICP CRDL Standard Source: _____

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Advisory Limits (%R)	M	Analysis Date	Analysis Time	Run Number
CRDL1									
	Mercury	0.00013	0.00020	65.0	50 - 150	CV	10/23/200	13:02	1023CVLI

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB1										
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	12:48	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	12:48	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	12:48	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	12:48	102203
	Beryllium	0.0040	+/-0.0040	U	0.0005	0.0040	P	10/22/2003	12:48	102203
	Cadmium	0.0008	+/-0.0050	B	0.0007	0.0050	P	10/22/2003	12:48	102203
	Calcium	-0.07	+/-0.50	B	0.04	0.50	P	10/22/2003	12:48	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	12:48	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	12:48	102203
	Copper	0.020	+/-0.020	U	0.001	0.020	P	10/22/2003	12:48	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	12:48	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	12:48	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	12:48	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	12:48	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	12:48	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	12:48	102203
	Selenium	-0.005	+/-0.010	B	0.004	0.010	P	10/22/2003	12:48	102203
	Silver	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	12:48	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	12:48	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	12:48	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	12:48	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	12:48	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB1										
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	13:56	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	13:56	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	13:56	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	13:56	102203
	Beryllium	0.0040	+/-0.0040	U	0.0005	0.0040	P	10/22/2003	13:56	102203
	Cadmium	0.0050	+/-0.0050	U	0.0007	0.0050	P	10/22/2003	13:56	102203
	Calcium	-0.07	+/-0.50	B	0.04	0.50	P	10/22/2003	13:56	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	13:56	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	13:56	102203
	Copper	-0.001	+/-0.020	B	0.001	0.020	P	10/22/2003	13:56	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	13:56	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	13:56	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	13:56	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	13:56	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	13:56	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	13:56	102203
	Selenium	-0.004	+/-0.010	B	0.004	0.010	P	10/22/2003	13:56	102203
	Silver	0.002	+/-0.010	B	0.002	0.010	P	10/22/2003	13:56	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	13:56	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	13:56	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	13:56	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	13:56	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB5										
	Aluminum	0.03	+/-0.20	B	0.03	0.20	P	10/22/2003	17:31	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	17:31	102203
	Arsenic	0.004	+/-0.010	B	0.003	0.010	P	10/22/2003	17:31	102203
	Barium	0.001	+/-0.010	B	0.001	0.010	P	10/22/2003	17:31	102203
	Beryllium	0.0011	+/-0.0040	B	0.0005	0.0040	P	10/22/2003	17:31	102203
	Cadmium	0.0020	+/-0.0050	B	0.0007	0.0050	P	10/22/2003	17:31	102203
	Calcium	-0.07	+/-0.50	B	0.04	0.50	P	10/22/2003	17:31	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	17:31	102203
	Cobalt	0.002	+/-0.010	B	0.001	0.010	P	10/22/2003	17:31	102203
	Copper	0.020	+/-0.020	U	0.001	0.020	P	10/22/2003	17:31	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	17:31	102203
	Lead	0.0016	+/-0.0050	B	0.0015	0.0050	P	10/22/2003	17:31	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	17:31	102203
	Manganese	0.002	+/-0.010	B	0.001	0.010	P	10/22/2003	17:31	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	17:31	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	17:31	102203
	Selenium	0.010	+/-0.010	U	0.004	0.010	P	10/22/2003	17:31	102203
	Silver	0.004	+/-0.010	B	0.002	0.010	P	10/22/2003	17:31	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	17:31	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	17:31	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	17:31	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	17:31	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB6										
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	18:26	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	18:26	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	18:26	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	18:26	102203
	Beryllium	-0.0008	+/-0.0040	B	0.0005	0.0040	P	10/22/2003	18:26	102203
	Cadmium	0.0050	+/-0.0050	U	0.0007	0.0050	P	10/22/2003	18:26	102203
	Calcium	-0.08	+/-0.50	B	0.04	0.50	P	10/22/2003	18:26	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	18:26	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	18:26	102203
	Copper	-0.002	+/-0.020	B	0.001	0.020	P	10/22/2003	18:26	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	18:26	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	18:26	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	18:26	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	18:26	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	18:26	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	18:26	102203
	Selenium	0.010	+/-0.010	U	0.004	0.010	P	10/22/2003	18:26	102203
	Silver	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	18:26	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	18:26	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	18:26	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	18:26	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	18:26	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB7										
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	19:07	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	19:07	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	19:07	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	19:07	102203
	Beryllium	0.0040	+/-0.0040	U	0.0005	0.0040	P	10/22/2003	19:07	102203
	Cadmium	0.0050	+/-0.0050	U	0.0007	0.0050	P	10/22/2003	19:07	102203
	Calcium	-0.07	+/-0.50	B	0.04	0.50	P	10/22/2003	19:07	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	19:07	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	19:07	102203
	Copper	-0.002	+/-0.020	B	0.001	0.020	P	10/22/2003	19:07	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	19:07	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	19:07	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	19:07	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	19:07	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	19:07	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	19:07	102203
	Selenium	0.010	+/-0.010	U	0.004	0.010	P	10/22/2003	19:07	102203
	Silver	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	19:07	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	19:07	102203
	Thallium	0.005	+/-0.010	B	0.005	0.010	P	10/22/2003	19:07	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	19:07	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	19:07	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB8										
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	19:49	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	19:49	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	19:49	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	19:49	102203
	Beryllium	-0.0009	+/-0.0040	B	0.0005	0.0040	P	10/22/2003	19:49	102203
	Cadmium	0.0050	+/-0.0050	U	0.0007	0.0050	P	10/22/2003	19:49	102203
	Calcium	-0.08	+/-0.50	B	0.04	0.50	P	10/22/2003	19:49	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	19:49	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	19:49	102203
	Copper	-0.003	+/-0.020	B	0.001	0.020	P	10/22/2003	19:49	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	19:49	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	19:49	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	19:49	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	19:49	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	19:49	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	19:49	102203
	Selenium	0.010	+/-0.010	U	0.004	0.010	P	10/22/2003	19:49	102203
	Silver	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	19:49	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	19:49	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	19:49	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	19:49	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	19:49	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
CCB9										
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	20:39	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	20:39	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	20:39	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	20:39	102203
	Beryllium	-0.0008	+/-0.0040	B	0.0005	0.0040	P	10/22/2003	20:39	102203
	Cadmium	0.0050	+/-0.0050	U	0.0007	0.0050	P	10/22/2003	20:39	102203
	Calcium	-0.08	+/-0.50	B	0.04	0.50	P	10/22/2003	20:39	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	20:39	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	20:39	102203
	Copper	-0.002	+/-0.020	B	0.001	0.020	P	10/22/2003	20:39	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	20:39	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	20:39	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	20:39	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	20:39	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	20:39	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	20:39	102203
	Selenium	0.010	+/-0.010	U	0.004	0.010	P	10/22/2003	20:39	102203
	Silver	0.002	+/-0.010	B	0.002	0.010	P	10/22/2003	20:39	102203
	Sodium	0.50	+/-0.50	U	0.31	0.50	P	10/22/2003	20:39	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	20:39	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	20:39	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	20:39	102203

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
ICB1	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/23/2003	13:00	1023CVLI
CCB1	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/23/2003	13:23	1023CVLI
CCB3	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/23/2003	14:11	1023CVLI
CCB4	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/23/2003	14:36	1023CVLI

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
PBW			WATER							
	Aluminum	0.20	+/-0.20	U	0.03	0.20	P	10/22/2003	18:04	102203
	Antimony	0.020	+/-0.020	U	0.005	0.020	P	10/22/2003	18:04	102203
	Arsenic	0.010	+/-0.010	U	0.003	0.010	P	10/22/2003	18:04	102203
	Barium	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	18:04	102203
	Beryllium	0.0040	+/-0.0040	U	0.0005	0.0040	P	10/22/2003	18:04	102203
	Cadmium	0.0050	+/-0.0050	U	0.0007	0.0050	P	10/22/2003	18:04	102203
	Calcium	0.50	+/-0.50	U	0.04	0.50	P	10/22/2003	18:04	102203
	Chromium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	18:04	102203
	Cobalt	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	18:04	102203
	Copper	0.020	+/-0.020	U	0.001	0.020	P	10/22/2003	18:04	102203
	Iron	0.050	+/-0.050	U	0.018	0.050	P	10/22/2003	18:04	102203
	Lead	0.0050	+/-0.0050	U	0.0015	0.0050	P	10/22/2003	18:04	102203
	Magnesium	0.50	+/-0.50	U	0.11	0.50	P	10/22/2003	18:04	102203
	Manganese	0.010	+/-0.010	U	0.001	0.010	P	10/22/2003	18:04	102203
	Nickel	0.040	+/-0.040	U	0.005	0.040	P	10/22/2003	18:04	102203
	Potassium	1.0	+/-1.0	U	0.2	1.0	P	10/22/2003	18:04	102203
	Selenium	0.010	+/-0.010	U	0.004	0.010	P	10/22/2003	18:04	102203
	Silver	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	18:04	102203
	Sodium	0.500	+/-0.500	U	0.310	0.500	P	10/22/2003	18:04	102203
	Thallium	0.010	+/-0.010	U	0.005	0.010	P	10/22/2003	18:04	102203
	Zinc	0.020	+/-0.020	U	0.006	0.020	P	10/22/2003	18:04	102203
	Vanadium	0.010	+/-0.010	U	0.002	0.010	P	10/22/2003	18:04	102203

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PREPARATION BLANK SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run
PBW; 1023T			**WATER**							
	Mercury	0.00020	+/-0.00020	U	0.00020	0.00020	CV	10/23/2003	13:10	1023CVLI

INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-A1								
	Aluminum	509	500	101.8	80 - 120%	10/22/2003	13:32	102203
	Antimony	0				10/22/2003	13:32	102203
	Arsenic	0				10/22/2003	13:32	102203
	Barium	0				10/22/2003	13:32	102203
	Beryllium	0				10/22/2003	13:32	102203
	Cadmium	0				10/22/2003	13:32	102203
	Calcium	461	500	92.2	80 - 120%	10/22/2003	13:32	102203
	Chromium	0				10/22/2003	13:32	102203
	Cobalt	0				10/22/2003	13:32	102203
	Copper	0				10/22/2003	13:32	102203
	Iron	183	200	91.5	80 - 120%	10/22/2003	13:32	102203
	Lead	0				10/22/2003	13:32	102203
	Magnesium	511	500	102.2	80 - 120%	10/22/2003	13:32	102203
	Manganese	0				10/22/2003	13:32	102203
	Nickel	0				10/22/2003	13:32	102203
	Potassium	0				10/22/2003	13:32	102203
	Selenium	0				10/22/2003	13:32	102203
	Silver	0				10/22/2003	13:32	102203
	Sodium	0				10/22/2003	13:32	102203
	Thallium	0				10/22/2003	13:32	102203
	Zinc	0				10/22/2003	13:32	102203
	Vanadium	0				10/22/2003	13:32	102203

INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-AB1								
	Aluminum	503.0	500	100.6	80 - 120%	10/22/2003	13:43	102203
	Antimony	0.60	0.60	100.0	80 - 120%	10/22/2003	13:43	102203
	Arsenic	0.10	0.10	100.0	80 - 120%	10/22/2003	13:43	102203
	Barium	0.51	0.50	102.0	80 - 120%	10/22/2003	13:43	102203
	Beryllium	0.50	0.50	100.0	80 - 120%	10/22/2003	13:43	102203
	Cadmium	0.91	1.0	91.0	80 - 120%	10/22/2003	13:43	102203
	Calcium	469.2	500	93.8	80 - 120%	10/22/2003	13:43	102203
	Chromium	0.49	0.50	98.0	80 - 120%	10/22/2003	13:43	102203
	Cobalt	0.46	0.50	92.0	80 - 120%	10/22/2003	13:43	102203
	Copper	0.52	0.50	104.0	80 - 120%	10/22/2003	13:43	102203
	Iron	185.71	200	92.9	80 - 120%	10/22/2003	13:43	102203
	Lead	0.96	1.0	96.0	80 - 120%	10/22/2003	13:43	102203
	Magnesium	516.6	500	103.3	80 - 120%	10/22/2003	13:43	102203
	Manganese	0.49	0.50	98.0	80 - 120%	10/22/2003	13:43	102203
	Nickel	0.90	1.0	90.0	80 - 120%	10/22/2003	13:43	102203
	Potassium	-0.01				10/22/2003	13:43	102203
	Selenium	0.04	0.050	80.00	80 - 120%	10/22/2003	13:43	102203
	Silver	1.14	1	114.0	80 - 120%	10/22/2003	13:43	102203
	Sodium	0.26				10/22/2003	13:43	102203
	Thallium	0.08	0.10	80.0	80 - 120%	10/22/2003	13:43	102203
	Zinc	0.90	1.0	90.0	80 - 120%	10/22/2003	13:43	102203
	Vanadium	0.50	0.50	100.0	80 - 120%	10/22/2003	13:43	102203

INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-A2								
	Aluminum	521	500	104.2	80 - 120%	10/22/2003	20:16	102203
	Antimony	0				10/22/2003	20:16	102203
	Arsenic	0				10/22/2003	20:16	102203
	Barium	0				10/22/2003	20:16	102203
	Beryllium	0				10/22/2003	20:16	102203
	Cadmium	0				10/22/2003	20:16	102203
	Calcium	464	500	92.8	80 - 120%	10/22/2003	20:16	102203
	Chromium	0				10/22/2003	20:16	102203
	Cobalt	0				10/22/2003	20:16	102203
	Copper	0				10/22/2003	20:16	102203
	Iron	184	200	92.0	80 - 120%	10/22/2003	20:16	102203
	Lead	0				10/22/2003	20:16	102203
	Magnesium	535	500	107.0	80 - 120%	10/22/2003	20:16	102203
	Manganese	0				10/22/2003	20:16	102203
	Nickel	0				10/22/2003	20:16	102203
	Potassium	0				10/22/2003	20:16	102203
	Selenium	0				10/22/2003	20:16	102203
	Silver	0				10/22/2003	20:16	102203
	Sodium	0				10/22/2003	20:16	102203
	Thallium	0				10/22/2003	20:16	102203
	Zinc	0				10/22/2003	20:16	102203
	Vanadium	0				10/22/2003	20:16	102203

INTERFERENCE CHECK SAMPLE

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

ICS Source: **Instrument ID:** TJA61E Trace

Sample ID	Analyte	Result mg/L	True Value mg/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICS-AB2								
	Aluminum	517.7	500	103.5	80 - 120%	10/22/2003	20:22	102203
	Antimony	0.58	0.60	96.7	80 - 120%	10/22/2003	20:22	102203
	Arsenic	0.10	0.10	100.0	80 - 120%	10/22/2003	20:22	102203
	Barium	0.52	0.50	104.0	80 - 120%	10/22/2003	20:22	102203
	Beryllium	0.48	0.50	96.0	80 - 120%	10/22/2003	20:22	102203
	Cadmium	0.92	1.0	92.0	80 - 120%	10/22/2003	20:22	102203
	Calcium	460.4	500	92.1	80 - 120%	10/22/2003	20:22	102203
	Chromium	0.48	0.50	96.0	80 - 120%	10/22/2003	20:22	102203
	Cobalt	0.47	0.50	94.0	80 - 120%	10/22/2003	20:22	102203
	Copper	0.53	0.50	106.0	80 - 120%	10/22/2003	20:22	102203
	Iron	183.27	200	91.6	80 - 120%	10/22/2003	20:22	102203
	Lead	0.92	1.0	92.0	80 - 120%	10/22/2003	20:22	102203
	Magnesium	527.3	500	105.5	80 - 120%	10/22/2003	20:22	102203
	Manganese	0.48	0.50	96.0	80 - 120%	10/22/2003	20:22	102203
	Nickel	0.91	1.0	91.0	80 - 120%	10/22/2003	20:22	102203
	Potassium	-0.04				10/22/2003	20:22	102203
	Selenium	0.05	0.050	100.00	80 - 120%	10/22/2003	20:22	102203
	Silver	1.05	1	105.0	80 - 120%	10/22/2003	20:22	102203
	Sodium	-0.10				10/22/2003	20:22	102203
	Thallium	0.08	0.10	80.0	80 - 120%	10/22/2003	20:22	102203
	Zinc	0.89	1.0	89.0	80 - 120%	10/22/2003	20:22	102203
	Vanadium	0.49	0.50	98.0	80 - 120%	10/22/2003	20:22	102203

DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmental **Level:** LOW **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: WATER **Sample ID:** LCS **Client ID:** LCSD; W-2 ME102203L

Percent Solids for Sample: 0.00 **Duplicate ID:** LCSD **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/L		2.00		2.00		0.0		P
Antimony	mg/L		0.49		0.49		0.0		P
Arsenic	mg/L		2.00		2.00		0.0		P
Barium	mg/L		2.00		2.00		0.0		P
Beryllium	mg/L		0.05		0.05		0.0		P
Cadmium	mg/L		0.05		0.05		0.0		P
Calcium	mg/L		5.00		5.00		0.0		P
Chromium	mg/L		0.20		0.20		0.0		P
Cobalt	mg/L		0.49		0.49		0.0		P
Copper	mg/L		0.25		0.25		0.0		P
Iron	mg/L		1.00		1.00		0.0		P
Lead	mg/L		0.49		0.48		2.1		P
Magnesium	mg/L		5.00		5.00		0.0		P
Manganese	mg/L		0.49		0.49		0.0		P
Nickel	mg/L		0.49		0.49		0.0		P
Potassium	mg/L		5.00		5.00		0.0		P
Selenium	mg/L		2.00		2.00		0.0		P
Silver	mg/L		0.05		0.06		18.2		P
Sodium	mg/L		5.00		5.00		0.0		P
Thallium	mg/L		2.00		2.00		0.0		P
Zinc	mg/L		0.50		0.49		2.0		P
Vanadium	mg/L		0.50		0.50		0.0		P

DUPLICATE SAMPLE SUMMARY

Client: Aerostar Environmental **Level:** LOW **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Matrix: WATER **Sample ID:** LCS; 1023T **Client ID:** LCSD;1023T

Percent Solids for Sample: 0.00 **Duplicate ID:** LCSD;1023T **Percent Solids for Duplicate:** 0.00

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/L		0.0026		0.0026		0.0		CV

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS								
	Aluminum	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Antimony	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Arsenic	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Barium	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Beryllium	mg/L	0.050	0.05		100.0	75.0 - 125.0	P
	Cadmium	mg/L	0.050	0.05		100.0	75.0 - 125.0	P
	Calcium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Chromium	mg/L	0.20	0.20		100.0	75.0 - 125.0	P
	Cobalt	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Copper	mg/L	0.25	0.25		100.0	75.0 - 125.0	P
	Iron	mg/L	1.0	1.00		100.0	75.0 - 125.0	P
	Lead	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Magnesium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Manganese	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Nickel	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Potassium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Selenium	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Silver	mg/L	0.050	0.05		100.0	75.0 - 125.0	P
	Sodium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Thallium	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Zinc	mg/L	0.50	0.50		100.0	75.0 - 125.0	P
	Vanadium	mg/L	0.50	0.50		100.0	75.0 - 125.0	P

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD								
	Aluminum	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Antimony	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Arsenic	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Barium	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Beryllium	mg/L	0.050	0.05		100.0	75.0 - 125.0	P
	Cadmium	mg/L	0.050	0.05		100.0	75.0 - 125.0	P
	Calcium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Chromium	mg/L	0.20	0.20		100.0	75.0 - 125.0	P
	Cobalt	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Copper	mg/L	0.25	0.25		100.0	75.0 - 125.0	P
	Iron	mg/L	1.0	1.00		100.0	75.0 - 125.0	P
	Lead	mg/L	0.50	0.48		96.0	75.0 - 125.0	P
	Magnesium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Manganese	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Nickel	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Potassium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Selenium	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Silver	mg/L	0.050	0.06		120.0	75.0 - 125.0	P
	Sodium	mg/L	5.0	5.00		100.0	75.0 - 125.0	P
	Thallium	mg/L	2.0	2.00		100.0	75.0 - 125.0	P
	Zinc	mg/L	0.50	0.49		98.0	75.0 - 125.0	P
	Vanadium	mg/L	0.50	0.50		100.0	75.0 - 125.0	P

0300

LABORATORY CONTROL SAMPLE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCS; 1023T								
	Mercury	mg/L	0.0025	0.0026		104	80.0 - 120.0	CV

LABORATORY CONTROL SAMPLE DUPLICATE SUMMARY

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LCSD;1023T								
	Mercury	mg/L	0.0025	0.0026		104	80.0 - 120.0	CV

METHOD DETECTION LIMITS

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Analyte	Wave- length (nm)	MDL ug/L	CRQL ug/L
TJA61E Trace		**Date:**	
Aluminum	308.20	27.0	200
Antimony	206.80	5.0	20
Arsenic	193.60	3.2	10
Barium	455.40	1.2	10
Beryllium	313.00	0.54	4.0
Cadmium	228.80	0.71	5.0
Calcium	317.90	44.0	500
Chromium	267.70	1.7	10
Cobalt	228.60	1.4	10
Copper	324.70	0.90	20.0
Iron	259.90	18.0	50
Lead	220.30	1.5	5
Magnesium	279.00	110.0	500
Manganese	257.60	1.4	10
Nickel	231.60	4.7	40
Potassium	766.40	190.0	1000
Selenium	196.00	4.2	10
Silver	328.00	1.9	10
Sodium	330.20	310.0	500
Thallium	190.80	4.9	10
Zinc	206.20	5.9	20
Vanadium	292.40	2.2	10

METHOD DETECTION LIMITS

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: _____ **Lab Code:** STL **Case No.:** _____ **SAS No.:** _____

Analyte	Wave- length (nm)	MDL ug/L	CRQL ug/L
CVAA			**Date:**
Mercury	253.70	0.200	0.200

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental
SDG No.: JETC04
Contract:
Lab Code: STL
Case No.:
SAS No.:
Instrument ID: TJA61E Trace
Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ba
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000210	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001270	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.0009600
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0004880	-0.0000340	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental SDG No.: JETC04

Contract: Lab Code: STL Case No.: SAS No.:

Instrument ID: TJA61E Trace Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Cd	Co	Cr	Cu	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0039980	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0001660	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	-0.0001070	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0933920	0.0006990	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0004010	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	-0.0004990	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000410
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	-0.0017200	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	-0.0010260	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental SDG No.: JETC04

Contract: Lab Code: STL Case No.: SAS No.:

Instrument ID: TJA61E Trace Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For:				
		Mo	Ni	Sb	Sn	V
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0221630
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0009790	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0003210	0.0000000	0.0000000	0.0000000	0.0002950
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.71	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0067400
Lead	220.35	-0.0003160	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-0.0336840	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.00	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003800
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.06	-0.0004500	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.98	0.0000000	0.0000000	0.0015660	0.0000000	0.0000000
Vanadium	292.40	-0.0030720	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

ICP INTERELEMENT CORRECTION FACTORS

Client: Aerostar Environmental SDG No.: JETC04

Contract: Lab Code: STL Case No.: SAS No.:

Instrument ID: TJA61E Trace Date: 03/02/2001

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Zn				
Aluminum	308.21	0.0000000				
Antimony	206.84	0.0000000				
Arsenic	189.04	0.0000000				
Barium	493.40	0.0000000				
Beryllium	313.04	0.0000000				
Cadmium	226.50	0.0000000				
Calcium	317.93	0.0000000				
Chromium	267.71	0.0000000				
Cobalt	228.61	0.0000000				
Copper	324.75	0.0000000				
Iron	271.44	0.0000000				
Lead	220.35	0.0000000				
Magnesium	279.07	0.0000000				
Manganese	257.61	0.0000000				
Molybdenum	202.00	0.0000000				
Nickel	231.60	0.0000000				
Potassium	766.49	0.0000000				
Selenium	196.02	0.0000000				
Silver	328.06	0.0000000				
Sodium	330.23	0.0000000				
Thallium	190.86	0.0000000				
Tin	189.98	0.0000000				
Vanadium	292.40	0.0000000				
Zinc	206.20	0.0000000				

LINEAR RANGES

Client: Aerostar Environmental **SDG No.:** JETC04

Contract: **Lab Code:** STL **Case No.:** **SAS No.:**

Instrument ID: TJA61E Trace **Date:**

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10.00	1000000
Antimony	10.00	100000
Arsenic	10.00	30000
Barium	10.00	50000
Beryllium	10.00	15000
Cadmium	10.00	40000
Calcium	10.00	400000
Chromium	10.00	75000
Cobalt	10.00	75000
Copper	10.00	40000
Iron	10.00	200000
Lead	10.00	100000
Magnesium	10.00	500000
Manganese	10.00	10000
Nickel	10.00	10000
Potassium	10.00	40000
Selenium	10.00	50000
Silver	10.00	3000
Sodium	10.00	50000
Thallium	10.00	20000
Zinc	10.00	10000
Vanadium	10.00	20000

SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmental

SDG No.: JETC04

Contract:

Lab Code: STL

Method: P

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME102203L						
PBW	PBW; ME102203L	MB	WATER	10/22/03	50.0	50.0	
LCS	LCS; W-1 ME102203L	LCS	WATER	10/22/03	50.0	50.0	
LCSD	LCSD; W-2 ME102203L	LCSD	WATER	10/22/03	50.0	50.0	
T374651-1	086-DWC-S-1017-03	SAM	WATER	10/22/03	50.0	50.0	

SAMPLE PREPARATION SUMMARY

Client: Aerostar Environmental

SDG No.: JETC04

Contract:

Lab Code: STL

Method: CV

Case No.:

SAS No.:

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	ME102303T						
PBW; 1023T	PBW; 1023T	MB	WATER	10/23/03	30.0	30.0	
LCS; 1023T	LCS; 1023T	LCS	WATER	10/23/03	30.0	30.0	
LCSD;1023T	LCSD;1023T	LCSD	WATER	10/23/03	30.0	30.0	
T374651-1	086-DWC-S-1017-03	SAM	WATER	10/23/03	30.0	30.0	

ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: JETC04

Instrument ID Number: TJA61E Trace Method: P Run Number: 102203

Start Date: 10/22/2003 End Date: 10/22/2003

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD1-Blank	1.00	1159		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	X	X	X	
STD4	1.00	1202				X			X				X						X			X		X	X	X	
STD3	1.00	1205		X						X						X											
STD2	1.00	1207			X		X	X			X	X					X										
FE STD	1.00	1213												X													
STD5	1.00	1221																		X			X				
ICV1	1.00	1225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB1	1.00	1248		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 4	1.00	1251		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 3	1.00	1258		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 2	1.00	1312		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
FE STD	1.00	1318		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
STD 5	1.00	1321		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL1	1.00	1326		X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X		X	X	
CRDL2	1.00	1328													X									X			
ICS-A1	1.00	1332		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB1	1.00	1343		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1354		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB1	1.00	1356		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV5	1.00	1728		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB5	1.00	1731		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW	1.00	1804		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV6	1.00	1815		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB6	1.00	1826		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS	1.00	1832		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSD	1.00	1837		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T374651-1	1.00	1850		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV7	1.00	1903		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB7	1.00	1907		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV8	1.00	1946		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB8	1.00	1949		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL3	1.00	2005		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-A2	1.00	2016		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB2	1.00	2022		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV9	1.00	2033		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB9	1.00	2039		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

14

ANALYSIS RUN LOG

Client: Aerostar Environmental Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: JETC04

Instrument ID Number: CVAA Method: CV Run Number: 1023CVLI

Start Date: 10/23/2003 End Date: 10/23/2003

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV1	1.00	1257																X									
ICB1	1.00	1300																X									
CRDL1	1.00	1302																X									
PBW; 1023T	1.00	1310																X									
LCS; 1023T	1.00	1313																X									
LCSD;1023T	1.00	1315																X									
CCV1	1.00	1320																X									
CCB1	1.00	1323																X									
CCV3	1.00	1409																X									
CCB3	1.00	1411																X									
T374651-1	1.00	1424																X									
CCV4	1.00	1433																X									
CCB4	1.00	1436																X									

Form XIV - IN

0213

DIGESTION LOG(S)

DIGESTION LIQUIDS

Job No: 497

Batch No: M022031

Job Date: 102203

ANALYSIS

ICP | AA | HG

FLAME | TCLP

MISC

Date/Time Started: 10-22-03 1130

Date/Time Completed: ↓ 15:30

Analyst: SK

Method/SOP: 3005A 6010B 2007

Final Volume: 50mL

Acid Lot #(s): HNO3. 1-me-R0008

HCl. 1-me-R0007

95:#81

Hood: C W42 0606 (Lab Block)

Bath Temp(Hg only):

Final Project Check: LCD 10.22.03

	ID	LOT#	AMT (mL)	INIT
Spike	1	1-me-50125	0.50	SK
Spike	2	16-J-893	↓	↓
Spike				
Spike		10-22-03		SK

SAMPLE ID/MTX/DESCRIPTION	D.D.	SDG	BENCH	VIAL#	VOLUME DIGESTED(mL)	DF	COMMENTS
1. T374671*1/LI/03-F21416	10.29		ICP		50mL		*X|
2. T374686*1/LI/Inlet Lead Adsorber B	10.29		ICP		↓		*XOEA|
3. T374651*1/LI/086-DWC-S-1017-03	10.24	JETC04	ICP				R*DCX|
4. T374436A-1	10.29						RUSH - SPLP
5. SPLP EX. Fl.#1 (636A)							
6. ↓ LCS							
7. ↓ LCSD							
8. T374615-1							SPLP
9. SPLP EX. Fl.#1 (615)							
10. ↓ LCS							↓
11. ↓ LCSD							
12. T374692A-1 DW3							
13. ↓ T374692-1 TDW(HO)							
14. T374697 - 1 621							
15. ↓ -2 622							
16. -3 623							
17. ↓ -4 624					↓		
18.							
19.			10-22-03				SK
20.							
Lab Blank					50mL		
Lab Spike #1					↓		
Lab Spike #2							
Dup T374436A-1 10-22-03 SK							
MS T374436A-1							
MSD ↓							

Comments: Dig. tube lot# 03-07-24.9219-263.112

SL LIQUID DIGESTION LOG

BATCH ID: ME102303T

LOG #'s: 74593 74621 74616 74603 74604 74436A 74651

ANALYSIS METHOD: 245.1 7470

DIGESTION METHOD: 245.1 7470

DATE / TIME STARTED: 10.23.03 9:50 ANALYST: EO

DATE / TIME FINISHED: 10.23.03 11:50 ANALYST: EO

Dig. Block #3 Mixed: CW420066

HNO_3 ACID LOT: 17-3-50-5

H_2SO_4 ACID LOT: 17-3-50-13

$KMnO_4$ LOT: 17-3-51-3

$K_2S_2O_8$ LOT: 17-3-50-8

$NaCl/(NH_2OH_2)\cdot H_2SO_4$ LOTS: 17-3-50-12

$SnCl_2$: 17-3-51-8

DIGESTION TEMP: 95 °C

Therm #101

SPIKE SOLN #	NAME	ID	AMT ADDED	INITIALS
1	LCS Work. Std.	14-3-54-9	0.30mL	EO
2	MS Working Std.	↓	↓	↓
3		EO	10.23.03	
4				

	PROJECT ID	SAMPLE ID	BEAKER #	AMOUNT DIGESTED (ml)	FINAL VOLUME (ml)	COMMENTS
	ME102303T	LAB BLANK	n/a	30mL	30mL	
	↓	BLANK SPIKE 1	↓	↓	↓	SPIKE SOLN #: 1
	↓	BLANK SPIKE 2	↓	↓	↓	SPIKE SOLN #: 1
1	74593-1	EFF-06	↓	↓	↓	
2	↓ -2	INF-01	↓	↓	↓	
3	74621-1	CG-1	↓	↓	↓	
4	74616-6	PB-W2	↓	↓	↓	
5	↓ -7	↓ -W1	↓	↓	↓	
7	↓ -9	MBA	↓	↓	↓	
7	74603-1	PAV2 Wood	↓	0.30mL	↓	TCLP 1:100 Dil
8	↓ -2	PAV2 Soil	↓	↓	↓	↓
9	74604-1	EO ~~Medium~~ Fine Sand	↓	↓	↓	↓
10	↓ -2	Medium Sand	↓	↓	↓	↓
11	74436A-1	CS-01	↓	30mL	↓	SPLP
12	74651-1	086-DWe-S	↓	↓	↓	↓
13	ExFl#1 Blk	(TCLP) Blk	↓	0.30mL	30mL	TCLP 1:100 Dil
14	ExFl#1 LCS	(TCLP) LCS	↓	↓	↓	↓
15	ExFl#2 Blk	Blk SPLP	↓	30mL	↓	SPLP
16	ExFl#2 LCS	LCS	↓	↓	↓	↓
17	↓ LCSD	LCSD	↓	↓	↓	↓
18						
19				EO 10.23.03		
20						
	74621-1	DUP CG-1	n/a	30mL	30mL	
	↓	MS1	↓	↓	↓	SPIKE SOLN #: 2
	↓	MS2	↓	↓	↓	SPIKE SOLN #: 2

0316

IGNITABILITY
Method 1010

CASE NARRATIVE

CASE NARRATIVE
IGNITABILITY

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: 1010
Cleanup: N/A
Analysis: 1010

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/29/03

Timothy Preston
Project Manager

RAW DATA

IGNITABILITY
SW-846 Method 1010

Xylene Lot #: 030546

Date: 10.22.03
Time: 1030
Analyst: MF
Batch ID: GE102203FP
P=999 mbars

Log #	Sample ID	Flashpoint	To=81° Comments
030546	Xylene	80°	99%
DI	Blank	>140°	
T374651	Coil	>140°	
T374695	#3072	>140°	TA: 1300
		MR 102703	
T374651	Lab Dup	>140°	
030546	Xylene	81°	100%
DI	Blank	>140°	

Xylene Lot #: 030546

Date: 10.27.03
Time: 1600
Analyst: MF
Batch ID: GE102703FP
P= 996 mbars

Log #	Sample ID	Flashpoint	To=81° Comments
030546	Xylene	81°	100%
DI	Blank	>140°	
T374769	Dubach	>140°	
			MR 102803
T374769	Lab Dup	>140°	
030546	Xylene	81°	100%
DI	Blank	>140°	

FGE0AC-T:06.14.01:2

STL Tallahassee

0321

PAINT FILTER TEST

(FREE LIQUIDS)

Date	Analyst's Initials	SL Log No.	Sample ID	Mass Used	mL Filtered	% Free Liquid
08.14.03	MF	T373494	08SP1Q303	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
09.06.03	MF	T373923	Comp 109058	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
〃	〃	T373924	086.BRCS.	100g	Ø	0%
090803	MF	T373925	Soil Buried	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
09.20.03	MF	T374137	Soil-2	100g	Ø	0%
〃	〃	DUP	〃	100g	Ø	0%
10.03.03	MF	T374380	86EWCS10028	100g	Ø	0%
10.16.03	MF	T373604	Medium Sand	100g	Ø	0%
〃	〃	〃	Fine Sand	100g	Ø	0%
10.19.03	MF	T374651	CECIL	100ml	99 ml	99%
〃	〃	〃 DUP	CECIL	100ml	99ml	99%
10.25.03	MF	T374769	Dubach	100ml	100ml	100%
〃	〃	DUP	Dubach	100ml	100ml	100%

REVIEWED BY: [signature] DATE: 9/16/03

BA60-3

REVIEWED BY: [signature] DATE: 9/30/03

0322

CORROSIVITY-pH
Method 9040

CASE NARRATIVE

CASE NARRATIVE
CORROSIVITY-PH

STL Lab Reference No. / SDG: JETC04

Project: JETC and Building 271/0103-329-09

RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

METHOD

Preparation: 9040
Cleanup: N/A
Analysis: 9040

PREPARATION

Sample preparation proceeded normally.

ANALYSIS

Calibration: All acceptance criteria were met

Samples: No analytical or quality problems were observed.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and STL Tallahassee, both technically and for completeness except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

SIGNED: _____ DATE: 10/29/00

Timothy Preston
Project Manager

RAW DATA

EPA Method 150.1/9040

Time	Analyst	Batch ID	Log #	Sample ID	pH Units	Temp °C	Acceptance Criteria
1430	MR	GE101903H	QC Check	EPA Buffer 4	4.15	19.3	+/- 0.20 pH units
			Blank	Di H2O	7.85	20.8	
			1374651	CECIL	11.44	20.5	
			1374644-1	SWBNE-2	7.28	20.5	
			-2	SWBSE1	7.75	20.4	
			-3	SWB331	7.62	20.4	
			-4	TUMSW5	7.64	20.4	
			-5	TUM441	8.07	20.4	
			-6	Eq Blank	9.30	20.4	
			-7	ALEPDD2	6.26	20.7	
				MR 10-5-09			
			Lab Dup	CECIL	11.47	20.5	<40% RPD
1430	MR	GE101903H	QC Check	Buffer 7	7.03	19.5	+/- 0.20 pH units
			Blank	Di H2O	6.99	21.1	
						MR 10-28-09	
			Lab Dup				<40% RPD
			QC Check	Buffer 7			+/- 0.20 pH units
			Blank	Di H2O			
			Lab Dup				<40% RPD
			QC Check	Buffer 7			+/- 0.20 pH units
			Blank	Di H2O			

7.12

6.92

$$\%RPD = \frac{H1 - H2}{\frac{H1 + H2}{2}} \times 100$$

$$[H+] = \text{antilog} \frac{pH}{-1}$$

H1 & H2 = hydrogen ion conc. [H+]

STL Tallahassee

FGE00P1-T:06.14.01:3

0327

Appendix G

Air Sparge Well Installation Documentation

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # 030215 - J19138 THROUGH 030224 - J19147 CUP/WUP # _____ DID # _____

If permit is for multiple wells, indicate the number of wells drilled 10

Indicate remaining wells to be cancelled Ø

WATER WELL CONTRACTOR'S SIGNATURE _____ License # 9232

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (Ft.)	To (Ft.)
Neat Cement:	4.1	Ø	25
Bentonite:	1.0	27	25

WELL LOCATION: County DUVAL

SE 1/4 of SE 1/4 of Section 15 Twp: 3S Rge: 24 E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property

SEE ATTACHED SITE MAP

Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chlorides: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 41.10-410(2) Rev 8/96.

OWNER'S NAME CITY OF JACKSONVILLE

COMPLETION DATE 08-15-03 Florida Unique I.D. _____

WELL USE: DEP/Public ____ Irrigation ____ Domestic ____

Monitor ✓ HRS Limited ____ 62-524 ____ Other ____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [✓] Auger Other _____

Measured Static Water Level ____ Measured Pumping Water Level ____

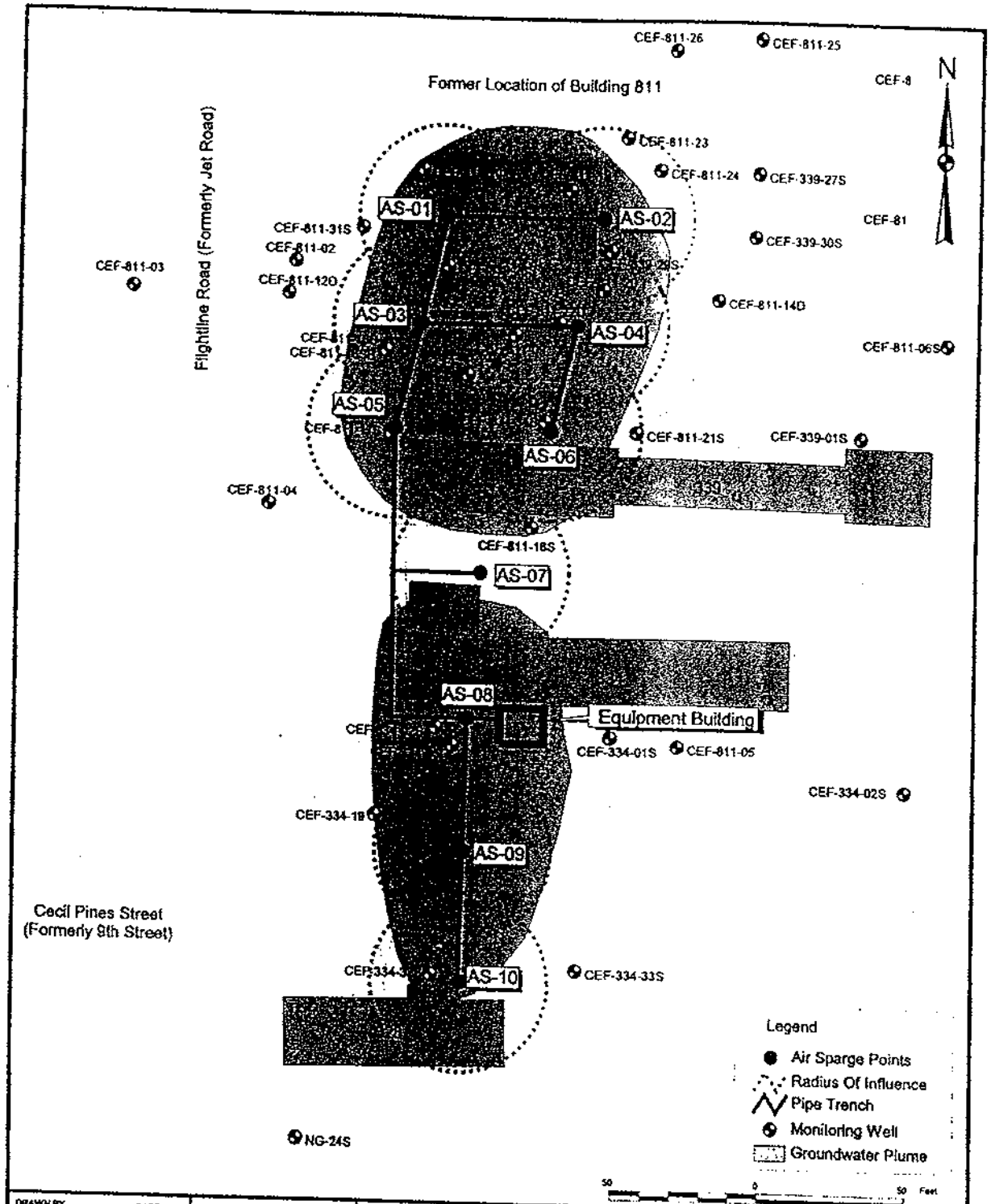
After ____ Hours at ____ G.P.M. Measuring Pt. (Describe): _____

Which is ____ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [✓] PVC Other _____

[ ] Open Hole [✓] Screen	Depth (Ft.) From	Depth (Ft.) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color / Grain Size / Type of Material
Casing Diameter & Depth (Ft.) Diameter 2" From 0 To 28	0	4	TAN SAND
	4	12	GREY SILTY SAND
	12	15	BROWN SILTY SAND
SCREEN	15	20	TAN TO GREY SILTY SAND
Diameter 2" From 28 To 20			
Liner [ ] or Casing [ ] Diameter ____ From ____ To ____			

Driller's Name: *(print or type)* DAVID HEARNE



DRAWN BY MJJ	DATE 14Aug02	PROPOSED REMEDIAL SYSTEM LAYOUT JET ENGINE TEST CELL NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER N4246
CHECKED BY	DATE 9/24/02		APPROVED BY MB DATE 9/12/02
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING: Figure 3-1 REV 0

P:\GIS\NAS_Cecil\Field\JETC02-RAP.apr 30Jul02 MJJ Layout04

Cecil Field: Flightline Rd x Cecil Pines St.

Report #: 030215-J19147 ~ 030224-J19147

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # 030231 - 719154 Through 030235 - 719148 Cup Well # _____ DID # _____

If permit is for multiple wells, indicate the number of wells drilled 7

Indicate remaining wells to be cancelled 0

WATER WELL CONTRACTOR'S SIGNATURE _____ License # 9232

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (Ft.)	To (Ft)
Neat Cement:	3.5	21	0
Bentonite:	1.0	23'	21'

WELL LOCATION: County _____

SW 1/4 of SE 1/4 of Section 15 Twp: 3S Rge: 24 E

Latitude _____ Longitude _____

DATE STAMP

Sketch of well location on property

SEE ATTACHED SITE MAP

Official Use Only

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chlorides ____ ppm

[ ] Lab Test [ ] Field Test Kit

Give distances from septic tank and house or other reference points

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 41 10-410(2) Rev 8/96.

OWNER'S NAME CITY OF JACKSONVILLE

COMPLETION DATE 09-15-03 Florida Unique I.D. _____

WELL USE: DEP/Public _____ Irrigation _____ Domestic _____

Monitor ✓ HRS Limited _____ 62-524 _____ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Too [ ] Combination [ ] Jet [✓] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ____ Hours at ____ GPM Measuring Pt. (Describe): _____

Which is ____ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [✓] PVC Other _____

[ ] Open Hole [✓] Screen

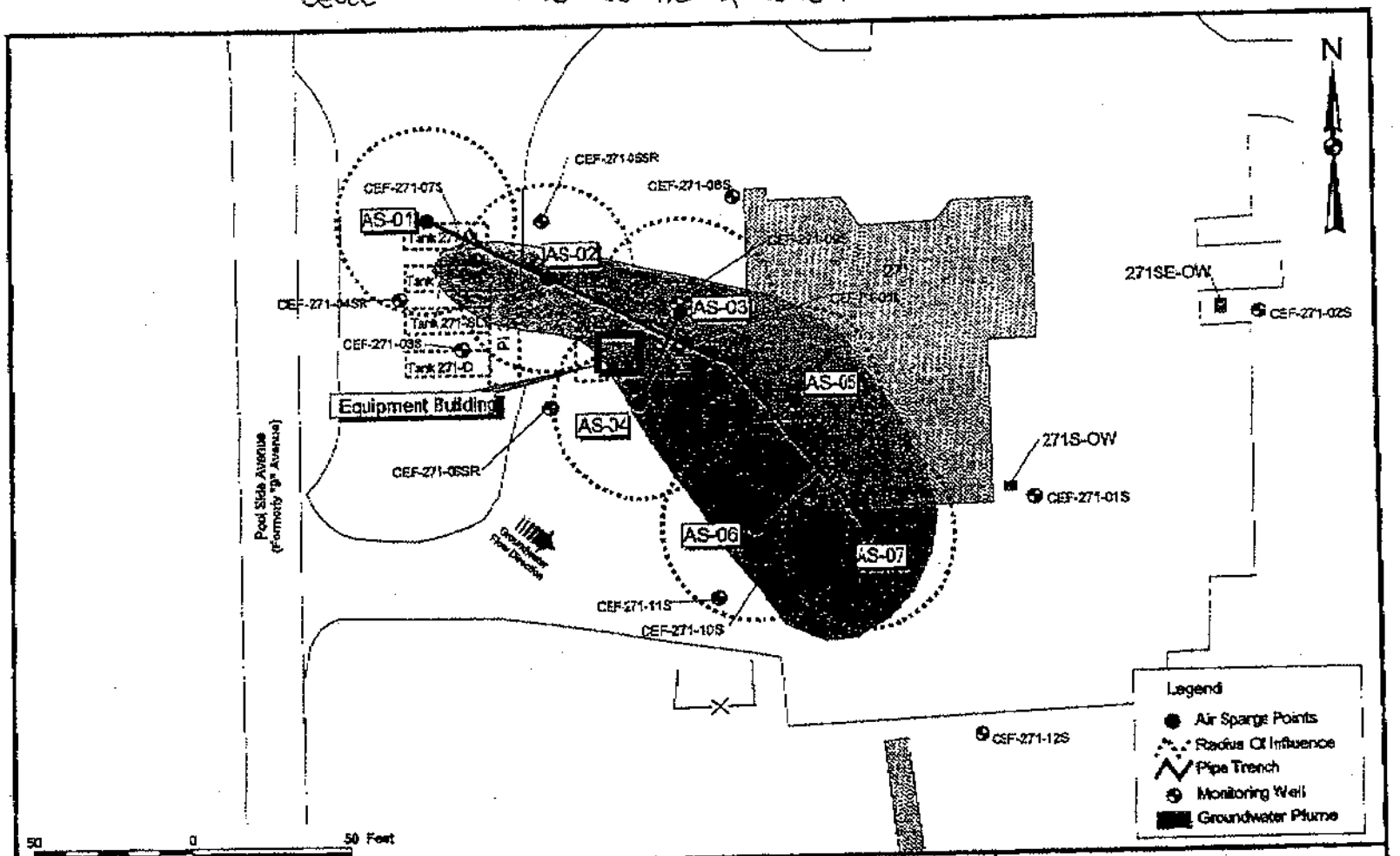
Casing Diameter & Depth (Ft.)	Depth (Ft.) From	Depth (Ft.) To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color / Grain Size / Type of Material
Diameter 2" From 0 To 24	0	3	TAN SAND
	3	7	ORANGE TO BROWN SILTY SAND
	7	11	TAN SAND
SCREEN	11	15	BROWN SILTY SAND
Diameter 2" From 24 To 26	15	26	GREY SILTY SAND
Liner [ ] or Casing [ ] Diameter ____ From ____ To ____			

Driller's Name: (print or type) DAVID HAYNIE

01-07-04 13:31 FROM:----- T0:9043352838 PAGE:04

PERMIT #s 030225-119148 ~ 0[illegible]23! -119154

CECIL FIELD: POOL SIDE AVE X CECIL FIELDS ST.



DRAWN BY: MLJ	DATE: 03Sep02	PROPOSED REMEDIAL SYSTEM LAYOUT BUILDING 271, TANKS 271 U,J/R/S/U/L/D NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA
CHECKED BY:	DATE:	
COST/SCHEDULE-AREA		
SCALE: AS NOTED		

CONTRACT NUMBER: N4248

APPROVED BY: DATE:

APPROVED BY: DATE:

Figure 3-6

REV: 0

P:\GENNAC_Cecil\Field\Bldg271-RAP.apr 14Nov02 MJL layout06

State of Florida License
Water Well Contractor

Southwest Florida Water Management District

Certifies That

Patrick Thomsen

HAS BEEN DULY LICENSED AS A WATER WELL CONTRACTOR IN THE STATE OF FLORIDA

LICENSE NUMBER: 9232

July 31, 2005

Expiration Date

Rene' Bailey

Contractor Licensing Coordinator

State of Florida License
Water Well Contractor

Southwest Florida Water Management District

Certifies That

Mark C. Murray

HAS BEEN DULY LICENSED AS A WATER WELL CONTRACTOR IN THE STATE OF FLORIDA

LICENSE NUMBER: 9289

July 31, 2005

Expiration Date

Rene' Bailey

Contractor Licensing Coordinator

Appendix H

Other Construction Documentation

Submittal Register

Contract Number: N62467-98-D-0995	CTO No.: 0086	CTO Title: Installation of Air Sparge Systems at the JETC and Building 271	Location: NAS Cecil Field, Jacksonville, Fl	Contractor: CH2M HILL Constructors, Inc.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Item Number	Spec Section	Item Description	Para. Number	Approving Authority	Other Reviewers	Submittal Number	Scheduled Submission Date	CCI Review Date	CCI Disposition	CCI Transmit Date	QC Admin Received Date	QC Disposition	QC Admin Transmit Date	Contracting Officer Received	Contracting Officer Disposition	Contracting Officer Return	Remarks
		JETC / Building 271 Air Sparge System															
	DIV 1	**General Paragraphs**															
		SD-09, Reports	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1		A Work Plan		CO			02-Sep-03	02-Sep-03	Approved	04-Sep-03	02-Sep-03	Approved	04-Sep-03	04-Sep-03	Approved	22-Sep-04	
2		B Health & Safety Plan		CO			02-Sep-03	02-Sep-03	Approved	04-Sep-03	02-Sep-03	Approved	04-Sep-03	04-Sep-03	Approved	22-Sep-04	
		SD-18, Records		--	--	--	--	--	--	--	--	--	--	--	--	--	--
3		A As Built Records		CO			06-Feb-04	06-Feb-04	Approved	--	06-Feb-04	Approved	--	--	--	--	
4		B Environmental Conditions Report		NTR			22-Oct-04	22-Oct-04	Approved	22-Oct-04	22-Oct-04	Approved	22-Oct-04	22-Oct-04	Approved	22-Oct-04	
5		C Test Results Summary Report		NTR			--	--	--	--	--	--	--	--	--	--	
6		D Daily Production Reports		NTR			Daily	Daily	--	Daily	Daily	--	Daily	Daily	--	--	
7		E QC Report		NTR			Daily	Daily	--	Daily	Daily	--	Daily	Daily	--	--	
8		F Rework Items List		NTR			--	--	--	--	--	--	--	--	--	--	
9		G Permits		JAA	CCI		05-Sep-03	05-Sep-03	Approved	05-Sep-03	05-Sep-03	Approved	05-Sep-03	05-Sep-03	Approved	10-Sep-03	
10		H Construction Documentation Report		CO			--	--	--	--	--	--	--	--	--	--	
	DIV 1	**Remediation System Installation and Performance**															
		SD-02, Manufacturer's Catalog Data	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11		A Well Heads, Vault Boxes, Frames and Covers		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	17-Sep-03	Approved	--	--	--	--	--
12		B Air Sparge Well Materials		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	09-Sep-03	Approved	--	--	--	--	--
13		D Groundwater Monitoring Well Materials	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14		E Compressed Air Piping		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	15-Sep-03	Approved	--	--	--	--	--
15		F Compressor		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
16		G Inlet Air Dryer		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
17		H Outlet Air Oil Removal Filter		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
18		I Gate Valve, Pressure Regulators, and Pressure Gauges		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	17-Sep-03	Approved	--	--	--	--	--
19		J Flow Meters		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	17-Sep-03	Approved	--	--	--	--	--
20		K Compound Materials; Roof and Fence		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	22-Sep-04	Approved	--	--	--	--	--
		SD-04, Drawings	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21		A Well Heads, Vault Boxes, Frames and Covers		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03							
22		B Preconstruction Air Sparge System Layout		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	02-Sep-03	Approved	04-Sep-03	04-Sep-03	Approved	22-Sep-04	
23		C Preconstruction Treatment Compound Layout		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	02-Sep-03	Approved	04-Sep-03	04-Sep-03	Approved	22-Sep-04	
24		D Postconstruction As-Builts		CCI			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
25		E Final As-Builts		CO			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
		SD-12, Field Test Reports	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26		A Calibration Tests		CCI			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
27		B Well Construction Records		CCI			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
28		C Operation and Monitoring Reports		CCI			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
29		D Compressed Air Pipe Pressure Test		CCI			17-Sep-03	17-Sep-03	Approved	17-Sep-03	17-Sep-03	Approved	--	--	--	--	--
30		E Air Emissions Analytical Tests		CCI			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
31		F Start-Up and Testing Report		CCI			06-Feb-04	06-Feb-04	Approved	06-Feb-04	06-Feb-04	Approved	--	--	--	--	--
		SD-18, Records	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32		A Well Driller Certification		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
33		B Permits		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
34		C MSDS Sheets		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
		SD-19, Operation and Maintenance Manuals	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35		A Air Sparge Unit		ROICC			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
36		B Power and control panels		ROICC			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
37		C Wiring diagrams and control panels		ROICC			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
38		D Start-Up, Operating and Shut-down Procedures		ROICC			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
39		E Safety Precautions		ROICC			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
40		F Procedures in Case of Failure		ROICC			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
	DIV 2	**General Excavation, Filling, and Backfilling**															
		SD-02, Manufacturer's Catalog Data	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
41		A Fill Materials		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	10/17/2004	Approved	--	--	--	--	--
42		B Grass Seed		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	10/17/2004	Approved	--	--	--	--	--
		SD-12, Field Test Reports	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43		A Backfill Compaction Tests		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	06-Feb-04	Approved	--	--	--	--	--
	DIV 2	**T&D of Contaminated Material**															
		SD-08, Statements	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44		A Treatment Facility Permit		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
		SD-18, Records	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45		A Shipment Manifests		CCI													
46		B Delivery Certificates		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
47		C Disposal Site Decontamination Certificate		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
48		D Work Site Decontamination Certificate		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
49		E Treatment and Disposal Certificate		CCI			15-Aug-03	15-Aug-03	Approved	15-Aug-03	15-Aug-03	Approved	--	--	--	--	--
	DIV 3	**Cast-In-Place Concrete**															
		SD-08, Statements	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
50		A Concrete Mix Design		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	22-Sep-03	Approved	--	--	--	--	--
51		B Reinforcement		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	22-Sep-03	Approved	--	--	--	--	--
		SD-12, Field Test Reports	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52		A Slump Test		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	22-Sep-03	Approved	--	--	--	--	--
53		B Air Content		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	22-Sep-03	Approved	--	--	--	--	--
54		C Compressive Strengths Test		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	22-Sep-03	Approved	--	--	--	--	--
	DIV 16	**Overhead Electrical Work**															
		SD-02, Manufacturer's Catalog Data	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
55		A Conduit		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
56		B Conductors		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
57		C Meter Base		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
58		D Meter		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--

Submittal Register

Contract Number: N62467-98-D-0995			CTO No.: 0086		CTO Title: Installation of Air Sparge Systems at the JETC and Building 271						Location: NAS Cecil Field, Jacksonville, Fl				Contractor: CH2M HILL Constructors, Inc.		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Item Number	Spec Section	Item Description	Para. Number	Approving Authority	Other Reviewers	Submittal Number	Scheduled Submission Date	CCI Review Date	CCI Disposition	CCI Transmit Date	QC Admin Received Date	QC Disposition	QC Admin Transmit Date	Contracting Officer Received	Contracting Officer Disposition	Contracting Officer Return	Remarks
	DIV 16	**Interior Wiring Systems**															
		SD-02, Manufacturer's Catalog Data	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
59		A Electrical Switches and Circuit Breakers		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
60		B Motor Controllers		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
61		C Control Panel		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
62		D Conduit and Fittings		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
63		E Conductors		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
		SD-04, Drawings	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
64		A Electrical Line Diagram		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	06-Feb-04	Approved	--	--	--	--	--
65		B Control Panel		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	06-Feb-04	Approved	--	--	--	--	--
66		C Final As-Builts		CCI							06-Feb-04	Approved	--	--	--	--	--
		SD-08, Statements	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
67		A Fuses		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
		SD-12, Field Test Reports	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
68		A 600-volt Wiring Test		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
69		B GFCI Receptacle Test		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
70		C Grounding System Test		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	14-Oct-03	Approved	--	--	--	--	--
		SD-19, Operation and Maintenance Manuals	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
71		A Power and control panels		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	06-Feb-04	Approved	--	--	--	--	--
72		B Wiring Diagrams, Control Diagrams, and Control Logic		CCI			02-Sep-03	02-Sep-03	Approved	04-Sep-03	06-Feb-04	Approved	--	--	--	--	--

Testing Plan and Log

CH2M HILL Constructors, Inc.

Contract Number: N62467-98-D-0995	CTO No.: 0086	CTO Title: Installation of Air Sparge Systems at Building 271 and the JETC	Location: Jacksonville, FL

A	B	C	D	E	F	G	H	I	J	K
Spec Section and Paragraph	Test Required	Testing Lab	Sampled By	Date Collected	Test Location	Frequency	Date Tested	Date Reported	Results	Remarks
Construction Testing - Soil Density										
Section 2.1.4 of CTO-0086 WPA No. 18	ASTM D-2922	ASTM D-1557	Universal	09/29/03	JETC	Once	09/29/03	09/29/03	Pass	
	ASTM D-2922	ASTM D-1557	Universal	10/02/03	JETC-roadway	Once	10/02/03	10/02/03	Pass	
	ASTM D-2922	ASTM D-1557	Universal	10/06/03	Building 271	Once	10/06/03	10/06/03	Pass	
	ASTM D-2922	ASTM D-1557	Universal	10/06/03	Building 271	Once	10/06/03	10/06/03	Pass	
Analytical - Soil sampling										
Table 3-2 of CTO-0086 WPA No. 18	5035/8260B	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	Characterization of Fill Material
	8270C	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	8310	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	FL-PRO	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	8081A	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	8082	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	8151A	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	6010A/7471A	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
	9045B	STL-Tallahassee	Aerostar	09/04/03	Fill Source	Once	09/06/03	09/15/03	Pass	
Table 3-2 of CTO-0086 WPA No. 18	5035/8260B	GCL	RD/JM	09/09/03	JETC	Once	09/11/03	09/17/03		Pre-excavation Confirmation
	8310	GCL	RD/JM	09/09/03	JETC	Once	09/11/03	09/17/03		
	FL-PRO	GCL	RD/JM	09/09/03	JETC	Once	09/11/03	09/17/03		
Table 3-2 of CTO-0086 WPA No. 18	5035/8260B	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	Characterization of Limerock Material
	8270C	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	8310	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	FL-PRO	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	8081A	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	8082	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	8151A	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	6010A/7471A	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	
	9045B	STL-Tallahassee	Aerostar	09/09/03	Limerock source	Once	09/10/03	09/18/03	Pass	

Testing Plan and Log

CH2M HILL Constructors, Inc.

Contract Number: N62467-98-D-0995		CTO No.: 0086		CTO Title: Installation of Air Sparge Systems at Building 271 and the JETC				Location: Jacksonville, FL		
A	B	C	D	E	F	G	H	I	J	K
Spec Section and Paragraph	Test Required	Testing Lab	Sampled By	Date Collected	Test Location	Frequency	Date Tested	Date Reported	Results	Remarks
Table 3-2 of CTO-0086 WPA No. 18	5035/8260B	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		Characterization of Excavated Soil at JETC
	8270C	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	8310	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	FL-PRO	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	8081A	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	8082	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	8151A	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	6010A/7471A	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
	9045B	STL-Tallahassee	Aerostar	10/02/03	JETC-excavation	Once	10/03/03	10/10/03		
Table 3-2 of CTO-0086 WPA No. 18	1311/8260B	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		Characterization of Well Development and Decontamination Water
	8270C	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	8081A	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	8151A	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	8082	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	FL-PRO	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	6010B	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	9045A	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
	1010/1020	STL-Tallahassee	Aerostar	10/17/03	JETC & 271	Once	10/18/03	10/29/03		
Table 3-2 of CTO-0086 WPA No. 18	8260B	GCL	RD/SS	10/23/03	Building 271	Once				Building 271 Baseline Event
	8310	GCL	RD/SS	10/23/03	Building 271	Once				
Table 3-2 of CTO-0086 WPA No. 18	8260B	GCL	RD/SS	10/23/03	JETC	Once				JETC Baseline Event
	8310	GCL	RD/SS	10/23/03	JETC	Once				
	FL-PRO	GCL	RD/SS	10/23/03	JETC	Once				

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Consultants In: Geotechnical Engineering • Environmental Sciences •
Construction Materials Testing • Threshold Inspection

5561 Florida Mining Boulevard South • Jacksonville, FL 32257 • (904) 296-0757 • Fax (904) 296-0748

UES Project No. 90092-004-01
UES Report No. 20803
Date: 10/6/03

Report of IN-PLACE DENSITY TESTS

Client: Aerostar Environmental Services
11181 St. Johns Industrial Pkwy.
Jacksonville, Florida 32246

Attention: Rick McCann

Project: Cecil Field Building #271 - Jacksonville, FL

Area Tested: JTC

Course: Native

Type of Test: Field: ASTM D-2922
Laboratory: ASTM D-1557

Date of Test: 9/29/03

Requirements: 95% compaction of maximum density.

***Reference:** 0 = Top of 1st Lift

		Laboratory Test Results		Field Test Results			
Location of Test	**Depth of Test***	**Maximum Density Dry Lbs/CuFt**	**Optimum Moisture Percent**	**Density Dry Lbs/CuFt**	**Field Moisture Percent**	**Maximum Density Percent**	**Test Pass or Fail**
2. Approx. 20' From South End	0-12"	99.4	15.3	95.2	8.2	96	Pass

Technician: B. Bridgeman

Rick G. Kushner, P.E.
P.E. No. 38705
UNIVERSAL ENGINEERING SCIENCES

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5561 Florida Mining Boulevard South • Jacksonville, FL 32257 • (904) 296-0757 • Fax (904) 296-0748

UES Project No. 90092-004-01
UES Report No. 20804
Date: 10/6/03

Report of IN-PLACE DENSITY TESTS

Client: Aerostar Environmental Services
11181 St. Johns Industrial Pkwy.
Jacksonville, Florida 32246

Attention: Rick McCann

Project: Cecil Field Building #271 - Jacksonville, FL

Area Tested: Roadway

Course: Limerock Base

Type of Test: Field: ASTM D-2922
Laboratory: ASTM D-1557

Date of Test: 10/2/03

Requirements: 95% compaction of maximum density.

*Reference: 0 = Top of Roadway

Location of Test	Depth of Test*	Laboratory Test Results		Field Test Results			
		Maximum Density Dry Lbs/CuFt	Optimum Moisture Percent	Density Dry Lbs/CuFt	Field Moisture Percent	Maximum Density Percent	Test Pass or Fail
3. Jet C Building #271 Roadway	0-8"	125.3	9.7	127.7	8.7	100+	Pass

Technician: T. Carlin

Rick G. Kushner, P.E.
P.E. No. 38705
UNIVERSAL ENGINEERING SCIENCES

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Consultants In: Geotechnical Engineering • Environmental Sciences • Construction Materials Testing • Threshold Inspection

5561 Florida Mining Boulevard South • Jacksonville, FL 32257 • (904) 296-0757 • Fax (904) 296-0748

Order No: 90092-004-01

Report No: 20801

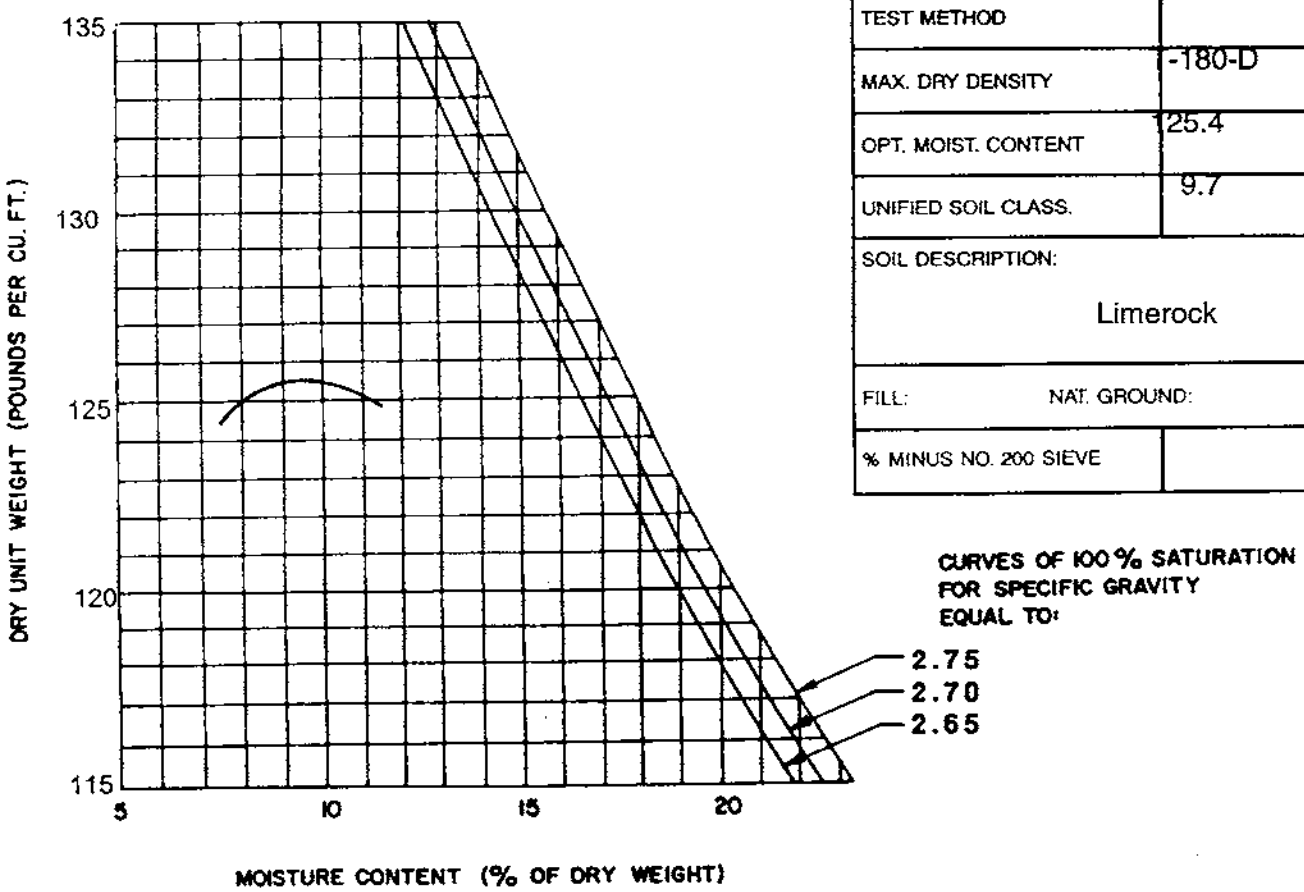
Date: 10/6/03

REPORT OF MOISTURE - DENSITY RELATIONSHIP OF SOIL

CLIENT: **Aerostar Environmental Services**
11181 St. Johns Industrial Pkwy.
Jacksonville, Florida 32246

PROJECT: **Cecil Field Building #271 - Jacksonville, Florida**

LOCATION: **JTC**



SUMMARY OF TEST RESULTS

TEST METHOD	-180-D
MAX. DRY DENSITY	125.4 pcf
OPT. MOIST. CONTENT	9.7 %
UNIFIED SOIL CLASS.	
SOIL DESCRIPTION:	Limerock
FILL:	NAT. GROUND:
% MINUS NO. 200 SIEVE	

Rick G. Kushner, P.E.
P.E. No. 38705

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5561 Florida Mining Boulevard South • Jacksonville, FL 32257 • (904) 296-0757 • Fax (904) 296-0748

Order No: 90092-004-01

Report No: 20802

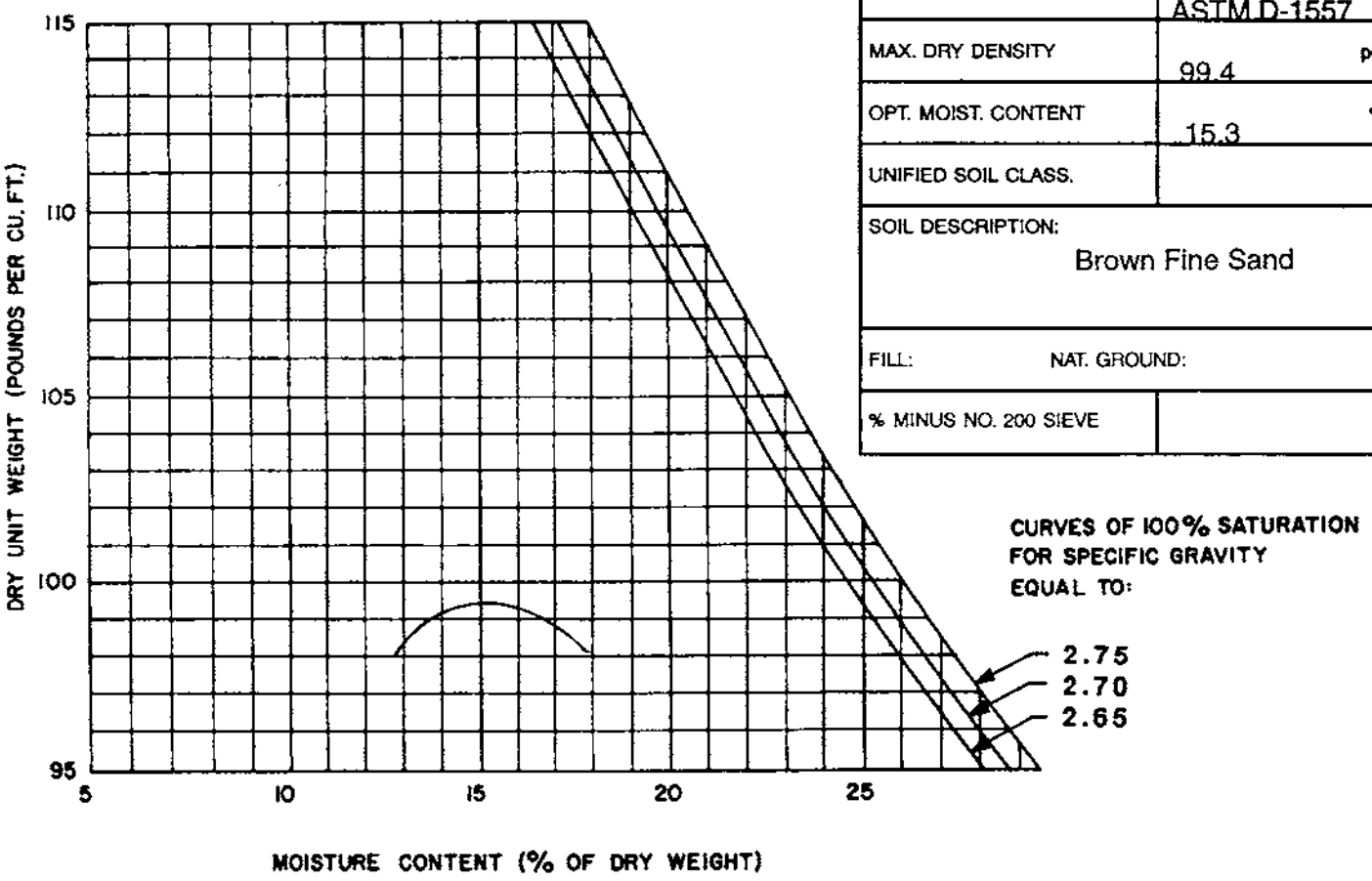
Date: 10/6/03

REPORT OF MOISTURE - DENSITY RELATIONSHIP OF SOIL

CLIENT: **Aerostar Environmental Services**
11181 St. Johns Industrial Pkwy.
Jacksonville, Florida 32246

PROJECT: **Cecil Field Building #271 - Jacksonville, Florida**

LOCATION: **JTC**



SUMMARY OF TEST RESULTS	
TEST METHOD	ASTM D-1557
MAX. DRY DENSITY	99.4 pcf
OPT. MOIST. CONTENT	15.3 %
UNIFIED SOIL CLASS.	
SOIL DESCRIPTION: Brown Fine Sand	
FILL:	NAT. GROUND:
% MINUS NO. 200 SIEVE	

Rick G. Kushner, P.E.
P.E. No. 38705

UNIVERSAL ENGINEERING SCIENCES

Appendix I

Waste Disposal Documentation

CTO No	Project No	Project Name	Site Description	Container Type	Container Desig.	Waste Profile Sample No	Contractor	Transporter	Date Transported	Transporter EPA ID	Load ID	Disposal Facility	Disp Fac EPA ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Waste Code/ Haz Waste No	Disposal Date	Manifest Number	Disposal Treatment Method (Enter disposal quantity under appropriate method)					Certif of Disp/ Destruc Date	Comments/ Notes	File Status (see note)
																			Incineration	Recycle	Landfill	Other	Unit			
0086	171591	Cecil	JETC	TT	103	33509	Aerostar	Whitaker	30-Oct-03	977023	1	Broadhurst		Soil	N/H		30-Oct-2003	13256			23.67		Tons	30-Oct-2003		Complete
0086	171591	Cecil	JETC	TT	102	33509	Aerostar	Whitaker	30-Oct-03	977023	2	Broadhurst		Soil	N/H		30-Oct-2003	13255			26.59		Tons	30-Oct-2003		Complete
0086	171591	Cecil	JETC	TT	L280	33509	Aerostar	Beaver	30-Oct-03	258346	3	Broadhurst		Soil	N/H		30-Oct-2003	13254			29.89		Tons	30-Oct-2003		Complete
0086	171591	Cecil	JETC	TT	L120	33509	Aerostar	Beaver	30-Oct-03	504452	4	Broadhurst		Soil	N/H		30-Oct-2003	13253			28.7		Tons	30-Oct-2003		Complete
0086	171591	Cecil	JETC	TT	107	33509	Aerostar	Whitaker	30-Oct-03	977023	5	Broadhurst		Soil	N/H		30-Oct-2003	13252			23.49		Tons	30-Oct-2003		Complete
0086	171591	Cecil	JETC	TT	108	33509	Aerostar	Bar-K-Ent	30-Oct-03	527540	6	Broadhurst		Soil	N/H		30-Oct-2003	13248			30.41		Tons	30-Oct-2003		Complete
0086	171591	Cecil	JETC	Vac TK	3737		Aerostar	Moran	07-Jan-2004	FLD00927185 76	1	WRI	FLR00006906 2	Water	N/H		07-Jan-2004	404				950	Gallons	07-Jan-2004		Complete

0103-329-09

Broadhurst
Environmental, Inc.

REC'D JAN 0 8 2009

CERTIFICATE OF DISPOSAL

This letter is to certify that all wastes received from Aerostar Environmental on behalf of the U.S. Navy from Cecil Field on the following dates were landfilled in accordance with all state and federal regulations.

Manifest Number	Tonnage	Dates
13297-13302	162.75	10/30/03

Disposal Method was D-81 (Subtitle D Landfill)

BROADHURST ENVIRONMENTAL

Butch Pustay _____ 1/6/04 _____
Date

P. O. Box 278 • Screven, Georgia 31560 • Phone (912) 530-7050 • Fax (912) 530-7070

REPUBLIC
Waste Services Division

Manifest Number: ~~13297~~ 13248

REC'D NOV 04 2003

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: U.S. NAVY

US EPA ID#:

Billing Address: AEROSTAR, 11481 ST. JOHNS IND. PKWY N, JACKSONVILLE, FL

Site Address: 6007 FLIGHTLINE RD., CECIL COMMERCE CENTER, JAX FL

County of Origin: DUVAL

Phone: (904) 777-4812 x223

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
PETROLEUM-CONTAMINATED SOIL	60660	33509	~~TONS~~ LBS.	DUMP TRUCK
			30.41	

Special Handling Instructions: CCI PROJECT # 171591
EMERGENCY CONTACT: RICK McCANN
AEROSTAR ENVIR: SUES INC.
(904) 591-6587

CTO-086 JETC

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Mitchell B. McPherson
Generator Authorized Agent Name

Signature

10/30/03
Date Shipped

TRANSPORTER

Transporter Name: BAR-K-ENT INC.

DOT#: 527540

Address: KRISTY DRIVE, WAYNESVILLE GA

Truck Number: 108

JAMES CREWS
Name of Authorized Agent

Signature

10/30/03
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone Number: 912-530-7050

Address: 4800 Broadhurst Rd. W., Screven, Georgia 31560

hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Earlene 10/30/03
Signature

Date Received

White - Original Yellow - Transporter Pink - Disposal Facility

REPUBLIC
Waste Services Division

Manifest Number: 13298

NON-HAZARDOUS WASTE MANIFEST

13252

GENERATOR

Generator Name: U.S. NAVY

US EPA ID#:

Billing Address: AEROSTAR, 11181 ST. JOHNS INDUST PKWY N., JACKSONVILLE FL 32246

Site Address: 6007 FLIGHTLINE RD, CECIL COMMERCE CENTER, JAX FL

County of Origin: DUVAL

Phone: (904) 777-4812 x 223

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
PETROLEUM CONTAMINATED SOIL	46,580	33509	~~TONS~~ LBS	DUMP TRUCK
			23.49	

Special Handling Instructions

CCI PROJECT # 171591
EMERGENCY CONTACT: RICK McCANN
AEROSTAR ENVIRONMENTAL SERV. INC
CTO-086 JETC
(904) 591-6587

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

[redacted] Mitchell B. McPherson — Signature — 10/30/03

Generator Authorized Agent Name — Signature — Date Shipped

TRANSPORTER

Transporter Name: WHITAKER INC

DOT#: 977023

Address: ORANGE PARK FL

Truck Number: 107

Donald McGuirt — Name of Authorized Agent

Signature — 10/30/03 — Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone Number: 912-530-7050

Address: 4800 Broadhurst Rd. W., Screven, Georgia 31560

by acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent

Signature — 10-30-03 — Date Received

REPUBLIC
Waste Services Division

Manifest Number: 13299

NON-HAZARDOUS WASTE MANIFEST

13253

GENERATOR

Generator Name: U.S. NAVY

US EPA ID#:

Billing Address: AEROSTAR, 11181 ST JOHNS INDUST. PKWY N. JACKSONVILLE FL 32246

Site Address: 6007 FLIGHTLINE RD., CECIL COMMERCE CENTER, JAX FL

County of Origin: DUVAL

Phone: (904) 777-4812 x 223

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
PETROLEUM CONTAMINATED SOIL	54,140	33509	LBS.	DUMP TRUCK
			28.70	

Special Handling Instructions

CCI PROJECT # 171591
EMERGENCY CONTACT: RICK McCANN
AEROSTAR
(904) 591-6587

CTO-086 JETC

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Mitchell B. McPherson
Generator Authorized Agent Name

Signature

10/30/03
Date Shipped

TRANSPORTER

Transporter Name: BEAVER BULK INC.

DOT#: 504452

Address: LIVE OAK FL

Truck Number: 120

Carl Vandevelde
Name of Authorized Agent

Signature

10-30-2003
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone Number: 912-530-7050

Address: 4800 Broadhurst Rd. W., Screven, Georgia 31560

hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

10/30/03
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility

REPUBLIC
Waste Services Division

Manifest Number: 13300

NON-HAZARDOUS WASTE MANIFEST

13254

GENERATOR

Generator Name: U.S. NAVY US EPA ID#:

Billing Address: AEROSTAR, 11181 ST JOHNS INDUST PKWY N. JACKSONVILLE FL, 32246

Site Address: 6007 FLIGHTLINE RD., CECIL COMMERCE CENTER, JAX FL

County of Origin: DUVAL Phone: (904) 777-4812 x223

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
PETROLEUM CONTAMINATED SOIL	60,240	33509	LBS	DUMP TRUCK
			29.89	

Special Handling Instructions

CCI PROJECT # 171591
EMERGENCY CONTACT: RICK McCANN
AEROSTAR
(904) 591-6587

CTO-086 JETC

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Mitchell B. McPherson — Generator Authorized Agent Name
Signature — 10/30/03 Date Shipped

TRANSPORTER

Transporter Name: BEAVER BULK DOT#: KC-MC 258346

Address: LIVE OAK, FL Truck Number: L280

Ronald Timmons — Name of Authorized Agent
Signature — 10-30-03 Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc. Phone Number: 912-530-7050

Address: 4800 Broadhurst Rd. W., Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst — Name of Authorized Agent
Signature — 10/30/03 Date Received

REPUBLIC
Waste Services Division

Manifest Number: 13301

13255

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: U.S. NAVY

US EPA ID#:

Billing Address: AEROSTAR, 11181 ST JOHNS INDUST PKWY N, JACKSONVILLE FL 32246

Site Address: 6007 FLIGHTLINE RD, CECIL COMMERCE CENTER, JAX FL

County of Origin: DUVAL

Phone: (904) 777-4812 x223

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
PETROLEUM CONTAMINATED SOIL	62,700	33509	LBS.	DUMP TRUCK
			26.59	

Special Handling Instructions CCI PROJECT # 171591

EMERGENCY CONTACT: RICK McCANN
AERO STAR
(904) 591-6589

CTO-086 JETC

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Mitchell B. McPherson
Generator Authorized Agent Name

Signature

10/30/03
Date Shipped

TRANSPORTER

Transporter Name: WHITAKER INC.

DOT#: 977023

Address: ORANGE PARK FL

Truck Number: 102

FRANZ LONG
Name of Authorized Agent

Signature

10-30-03
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone Number: 912-530-7050

Address: 4800 Broadhurst Rd. W., Screven, Georgia 31560

hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

10/30/03
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility

REPUBLIC
Waste Services Division

Manifest Number: 13302

NON-HAZARDOUS WASTE MANIFEST

13256

GENERATOR

Generator Name: U.S. NAVY

US EPA ID#:

Billing Address: AEROSTAR, 11181 ST. JOHNS INDUST PKWY N., JACKSONVILLE FL 32246

Site Address: 6007 FLIGHTLINE RD., CECIL COMMERCE CENTER, JAX FL

County of Origin: DUVAL

Phone: (904) 777-4812 x223

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
PETROLEUM CONTAMINATED SOIL	47,000	33509	LBS	DUMP TRUCK
			23.67	

Special Handling Instructions

CCI PROJECT # 171591
EMERGENCY CONTACT: RICK McCANN
AEROSTAR
(904) 591-6587

CTO-086 JETC

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Mitchell B. McPherson
Generator Authorized Agent Name

Signature

10/30/03
Date Shipped

TRANSPORTER

Transporter Name: WHITAKER

DOT#: 977023

Address: ORANGE PARK

Truck Number: 103

R J McDonald
Name of Authorized Agent

Signature

10-30-03
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.

Phone Number: 912-530-7050

Address: 4800 Broadhurst Rd. W., Screven, Georgia 31560

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

10/30/03
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

REPUBLIC SERVICES, INC.

Approval Number: _____

Expiration Date: _____

SPECIAL WASTE PROFILE

Information utilized for completion of this form must originate from an authorized representative of the generator of the waste material. The information on this form must be COMPLETE, LEGIBLE, and the form must be SIGNED.

A. GENERATOR INFORMATION

1. Generator Name: U.S. Navy
2. Address: 6007 Flightline Rd.
   City: Jacksonville County: Duval
   State: FL Zip: 32205
3. Site Location (if different): _____
4. Contact Name: Mitch McPherson
5. Phone Number: (904) 777-4812 x223
6. Fax Number: (904) 777-4262

B. CUSTOMER/BILLING INFORMATION

1. Billing Name: Aerostar Env. Svcs., Inc.
2. Address: 11181 St. Johns Industrial Parkway
   City: Jacksonville County: Duval
   State: FL Zip: 32246
3. Contact Name: Rick McCann
4. Phone Number: (904) 565-2820
5. Fax Number: (904) 565-2830
6. Is there a service agreement on file? ☐ YES ☑ NO

C. TRANSPORTER INFORMATION

1. Name: Beaver Bulk, Inc.
2. Street Address: P.O. Box 417
   City: Live Oak State: FL Zip: 32060
3. Phone Number: 1-800-232-8371
4. Fax Number: _____
5. Contact Name: Susan Beaver

D. AGENT/CONSULTANT INFORMATION

1. Name: Aerostar Env. Svcs. Inc.
2. Street Address: 11181 St. Johns Industrial Pkwy.
   City: Jax State: FL Zip: 32246
3. Phone Number: (904) 565-2820
4. Fax Number: (904) 565-2830
5. Contact Name: Rick McCann
6. Is there a Letter of Authorization on file? ☐ YES ☐ NO

E. WASTE STREAM INFORMATION

1. Common Name of Waste: Petroleum-Contaminated Soil
2. Detailed Description of Process: Soil generated during installation of air sparge wells and during excavation of impacted soils.
3. Physical State at 70°F: ☑ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder ☐ Other _____
4. Odor: ☐ None ☑ Mild ☐ Significant: (describe) _____
5. Color: dk brown
6. Flash Point: >145 °F ____ °C
7. Reactive: ☑ NO ☐ YES with _____
8. pH Range: N/A
9. Heat Generating Waste ☑ NO ☐ YES
10. Free Liquid: ☑ NO ☐ YES
11. Water Content: 620 % by water
12. Does the waste contain radioactive or U.S.D.O.T. hazardous materials, PCB's, or asbestos? ☑ NO ☐ YES
13. Does the waste contain any etiological agents or untreated medical waste? ☑ NO ☐ YES
14. Is the waste proposed for management a hazardous waste as defined by Federal or State regulations? ☑ NO ☐ YES

F. SUPPLEMENTAL INFORMATION

1. Attached Document(s): ☐ None ☐ MSDS ☑ Certified Analytical Report ☐ Memo/Letter ☐ Process Knowledge
2. If analytical data is attached, is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws? ☑ YES ☐ NO

G. SHIPPING INFORMATION

1. Packaging: ☑ Bulk Solids ☐ Bulk Liquids ☐ Drums ☐ Roll-Off ☐ Dump Truck ☐ Tank Truck ☐ Other: _____
2. Estimated Volume: 250 ☑ Tons ☐ Cubic Yards ☐ Drums ☐ Gallons ☐ Other: _____
3. Shipping Frequency: 1 per ☑ One Time ☐ Monthly ☐ Yearly ☐ Other: _____
4. Designated Landfill(s): Broadhurst Environmental, Inc., 4800 Broadhurst Rd. W, Screven, GA 31560
5. Disposal Method: ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Other: _____

H. Generator's Certification Statement:

I hereby certify that the above and attached information is complete and accurate to the best of my ability, that no deliberate information was omitted, that all known and suspected hazards have been disclosed, and that the waste is not a regulated hazardous waste by government or local authority, and does not contain PCB's regulated by TSCA or any other regulatory authority. If any of the above information changes, I agree to notify Republic Services prior to offering the waste for shipment or management.

I, Mitchell B. McPherson (NAME, PLEASE PRINT) am employed by NAVY PUBLIC WORKS CNT. (COMPANY NAME) and am authorized to sign this request for NAS JACKSONVILLE, FL 32212

COMPANY NAME: NAVY PWC

DATE: 10-23-03

PRINTED NAME: Mitchell B. McPherson

SIGNATURE: [signature]

REPUBLIC

GENERATOR KNOWLEDGE DOCUMENTATION FOR DISPOSAL OF NON-HAZARDOUS SPECIAL WASTE

Generator Name: U. S. Navy

Waste Name: Petroleum-contaminated soil

Process Description: Soil generated during installation of air sparge wells and excavation of petroleum-contaminated soil from area of former oil/water separator.

Listed Hazardous Waste Determination
This material is not specified as a listed hazardous waste by EPA in 40 CFR 261 Subpart D. It does not meet the requirements of the F, K, P or U list.

Characteristic Hazardous Waste Determination

Ignitability: This material is a waste that is not capable of causing a fire under normal conditions and has a flashpoint greater than 140 F. This waste is not considered an ignitable waste under 40 CFR 261.21. This waste will not generate heat that would adversely affect the structure of the landfill, or adversely affect the health or safety of workers or the public.

Corrosivity: Under 40 CFR 261.22. a waste is considered corrosive if it is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5. The waste may also be considered to be corrosive waste if it corrodes steel at a rate greater than 6.35 mm/year at 130 F. This material is a waste that has a pH greater than 2 and less than 12.5. Therefore, this material does not exhibit the characteristics of corrosivity as defined under 40 CFR 261.23.

Reactivity: This material is a solid waste that does not react violently or have the capability of generating heat when mixed with other wastes or water. Nor does this waste contain cyanide or sulfide and is therefore not considered a reactive waste under 40 CFR 261.33.

Toxicity: The technical information provided by the manufacturer for the process materials provides the chemical makeup to the nearest 0.01% by weight. None of the contaminants listed in 40 CFR 261.33 as Toxicity Characteristics in Table 1 are listed in the technical information supplied by the manufacturer. Due to the fact that none of these chemicals are present in this material, or are present in extremely low concentrations (<0.01% by weight), this process waste is considered non-hazardous.

Polychlorinated Biphenyls (PCB's): The technical information provided by the manufacturer for all materials in this process provides the chemical makeup of the material to the nearest 0.01% by weight. No PCB's have been listed on this information and therefore are in concentrations less than 0.01% by weight. Therefore, this material has concentrations of PCB's less than the regulatory limits specified under 40 CFR 761 and all applicable state regulations.

Asbestos: The waste stream generated does not come into contact with any materials containing asbestos.

Free Liquids: The process waste generated is solidified and/or dried before disposal at the landfill and would pass a paint filter test.

This information is, to the best of my knowledge, true, accurate and complete.

Generator Signature

10-23-03
Date

Broadhurst
Environmental, Inc.

October 24, 2003

Mr. Rick McCann
Aerostar Environmental Services, Inc.
11200-1 St. Johns Industrial Parkway N.
Jacksonville, Fl. 32246

Dear Mr. McCann,

Thank you for speaking with me today regarding the disposal of petroleum contaminated soil from the Jacksonville, Fl. area. We have reviewed Special Waste Acceptance Application number 33509 and have approved the material for disposal at our Broadhurst Landfill. This approval number will be used to track this waste stream throughout its transportation and disposal. This approval expires on December 31, 2003.

A manifest must accompany each load and reference the approved profile number. The waste may not contain free liquids upon arrival at the landfill. This approval is for petroleum-contaminated soil as represented by the attached analytical only. All other material must be profiled and approved separately. The price for transportation and disposal of this material is $26.40 per ton as detailed below:

Thank you for the opportunity to do business with Aerostar Environmental Services, Inc. If I can be of any further assistance, please contact me at (904) 731-2456.

Sincerely,

Butch Pustay
Director of Special Waste Services
Broadhurst Environmental, Inc.

P. O. Box 278 • Screven, Georgia 31560 • Phone (912) 530-7050 • Fax (912) 530-7070

Broadhurst Environmental
4800 Broadhurst Rd W
Screven GA 31560
Phone (912) 530-7050

Ticket: 239785
Date/Time In: 30 October 2003 12:59 pm
Vehicle: AEROSTAR
Origin: Duval Co., FL
Reference: 108 BAR K
Contract: 33509

000126
AEROSTAR ENVIRONMENTAL

Inbound

11200-1 ST.JOHNS INDUSTRIAL PKWY-NORTH
JACKSONVILLE, FL 32246

00 Gross Weight 92,960.00 LB
Tare Weight 32,140.00 LB
Net Weight 60,820.00 LB 30.41 TN

Quantity	Unit	Description	Rate	Total
30.41	TN	Contaminated Soil	$26.40	$802.82

Net Amount: $802.82
Tendered: $0.00
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Weighmaster: Earlene

Driver

Broadhurst Environmental
4800 Broadhurst Rd W
Screven GA 31560
Phone (912) 530-7050

Ticket: 239819
Date/Time In: 30 October 2003 2:13 pm
Vehicle: AEROSTAR
Origin: Duval Co., FL
Reference: WHIT**107**13298
Contract: 33509

000126
AEROSTAR ENVIRONMENTAL

Inbound

11200-1 ST.JOHNS INDUSTRIAL PKWY-NORTH
JACKSONVILLE, FL 32246

00 Gross Weight 76,140.00 LB
Tare Weight 29,160.00 LB
Net Weight 46,980.00 LB 23.49 TN

Quantity	Unit	Description	Rate	Total
23.49	TN	Contaminated Soil	$26.40	$620.14

Net Amount: $620.14
Tendered: $0.00
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Broadhurst Environmental
4800 Broadhurst Rd W
Screven GA 31560
Phone (912) 530-7050

Ticket: 239818
Date/Time In: 30 October 2003 2:37 pm
Vehicle: AEROSTAR
Origin: Duval Co., FL
Reference: 280 BEAVER**13300
Contract: 33509

000126
AEROSTAR ENVIRONMENTAL

Inbound -

11200-1 ST.JOHNS INDUSTRIAL PKWY-NORTH
JACKSONVILLE, FL 32246

00 Gross Weight 91,880.00 LB
Tare Weight 32,100.00 LB
Net Weight 59,780.00 LB 29.89 TN

Quantity	Unit	Description	Rate	Total
29.89	TN	Contaminated Soil	$26.40	$789.10

Net Amount: $789.10
Tendered: $0.00
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Weighmaster: Earlene

Driver

Broadhurst Environmental
4800 Broadhurst Rd W
Screven GA 31560
Phone (912) 530-7050

Ticket: 239817
Date/Time In: 30 October 2003 2:32 pm
Vehicle: AEROSTAR
Origin: Duval Co., FL
Reference: L120 BEAVER
Contract: 33509

000126
AEROSTAR ENVIRONMENTAL

Inbound -

11200-1 ST.JOHNS INDUSTRIAL PKWY-NORTH
JACKSONVILLE, FL 32246

00 Gross Weight 86,660.00 LB
Tare Weight 29,260.00 LB
Net Weight 57,400.00 LB 28.70 TN

Quantity	Unit	Description	Rate	Total
28.70	TN	Contaminated Soil	$26.40	$757.68

Net Amount: $757.68
Tendered: $0.00
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Broadhurst Environmental
4800 Broadhurst Rd W
Screven GA 31560
Phone (912) 530-7050

Ticket: 239053
Date/Time In: 30 October 2003 3:58 pm
Vehicle: AEROSTAR
Origin: Duval Co., FL
Reference: 103 WHOITT*13302
Contract: 33509

000126
AEROSTAR ENVIRONMENTAL

Inbound -

11200-1 ST.JOHNS INDUSTRIAL PKWY-NORTH
JACKSONVILLE, FL 32246

00 Gross Weight 78,360.00 LB
Tare Weight 31,020.00 LB
Net Weight 47,340.00 LB 23.67 TN

Quantity	Unit	Description	Rate	Total
23.67	TN	Contaminated Soil	$26.40	$624.89

Net Amount: $624.89
Tendered: $0.00
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Weighmaster: Earlene

Driver

Broadhurst Environmental
4800 Broadhurst Rd W
Screven GA 31560
Phone (912) 530-7050

Ticket: 239051
Date/Time In: 30 October 2003 3:37 pm
Vehicle: AEROSTAR
Origin: Duval Co., FL
Reference: WHIT 102*13301
Contract: 33509

000126
AEROSTAR ENVIRONMENTAL

Inbound -

11200-1 ST.JOHNS INDUSTRIAL PKWY-NORTH
JACKSONVILLE, FL 32246

00 Gross Weight 84,600.00 LB
Tare Weight 31,420.00 LB
Net Weight 53,180.00 LB 26.59 TN

Quantity	Unit	Description	Rate	Total
26.59	TN	Contaminated Soil	$26.40	$701.98

Net Amount: $701.98
Tendered: $0.00
Change:

I certify that I have not disposed of any liquid or hazardous waste. I will not exceed the posted speed limit of 15 mph.

Frank Jones

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 000484
Manifest Document No. 17000
2. Page 1 of 1/6/04

3. Generator's Name and Mailing Address
NAS-Cecil Field
PO Box 30 / Code 331
Jacksonville, Fl 33313
4. Generator's Phone (904) 777-4812

5. Transporter 1 Company Name
Moran Environmental Recovery LLC
6. US EPA ID Number F L D 0 9 2 7 1 8 5 7 6
A. Transporter's Phone (904) 241-2200

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INC
1819 ALBERT STREET
JACKSONVILLE, FL 32216
10. US EPA ID Number F L R 0 0 0 0 6 9 0 6 2
C. Facility's Phone (904) 475-9320

11. Waste Shipping Name and Description

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Contaminated Water tank Cleaning		T. T	0009.50	G
b.				
c.				
d. pH 10.16 solids 3.5 oil 2 tm 10:50 tm 11:10				

D. Additional Descriptions for Materials Listed Above
Location: 6807 Flightline Road / 14434 Cecil Pines St.
WRI Approval# W-0282

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Moran Environmental Recovery LLC
24 hr Emergency Contact #1-800-359-3740
MER Job#RM[redacted]062

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name Wayne C. HAGWOOD Signature Wayne C Hagwood Month Day Year 12.18.03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Kenneth D. Holmes Signature Kenneth D. Holmes Month Day Year 10.16.04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Jim Palamier Signature Jim Palamier Month Day Year 1 17 04

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

WRI
Water Recovery, Inc.

Certificate of Final Disposition

Generator: NAS-Cecil Field, Public Works Center
P.O. Box 30/Code 331
Jacksonville, FL 32313
Phone: 904-777-4812
Fax: 904-777-4262

Transporter: Moran Environmental Recovery.
P. O. Box 330569
Atlantic Beach, FL 32233-0569
EPA ID No.: FLD0092718576

Processing Facility: Water Recovery, Inc.
1819 Albert Street
Jacksonville, FL 32202
EPA ID No.: FLR000069062

Manifest No.: 000404

WRI Load No.: 3737

Date Received: January 7, 2004

Load Characteristics

Quantity	950 gallons
Waste Stream	Petroleum Contaminated Water

Final Disposition: This product was received and processed at our facility in accordance with local, state and federal regulations.

Mark Owens, Plant Manager
For Water Recovery, Inc.

1819 Albert Street
P.O. Box 330569
Jacksonville
FL 32233-0569
Fax (904) 475-9449
Tel (904) 475-9320

Water Recovery, Inc.

Waste Stream Profile

Date Submitted _____

Generator Information

Company Name	NAS - Cecil Field	Contact Name	Public Works Center
Street Address	P.O. Box 30 / Code 331	Phone Number	(904) 777-4812
City, State ZIP	Jacksonville, FL 32213	Fax Number	(904) 777-4262
Broker Information			

Wastestream Background Information

Waste Stream Name	Petroleum ~~Contaminated Water~~ Contaminated Water
Generation Location	~~Various Facilities~~ 6007 Flightline Rd. / 14434 Cecil Pines St.
Generating Process	~~Water from Fuel Storage~~ Monitor well installation / Decontamination
Previous Approval Number	None
Volume per Load	~~[illegible]~~ 1000 Gallons in [redacted] a Truck X Drums X Other
Delivery Frequency	X Once Loads per ☐ Week ☐ Month ☐ Year

Waste Classification

Actual % Oil	Range	Classification	Instructions
10-50 %	< 20 %	Wastewater	Disregard the Used Oil Characteristics Section of the profile
	20-80 %	Mixed	Fill out the BOTH sections each for the appropriate phase
	> 80 %	Used Oil	Disregard the Wastewater Characteristics Section of the profile

Wastewater Characteristics

✓ Analytical data available? (please attach)

Check if Present		Concentration (mg/L)
Antimony	☐	None Expected
Arsenic	☐	None Expected
Barium	X	~~None Expected~~ 0.67
Cadmium	☐	None Expected
Chromium	☐	None Expected
Cobalt	☐	None Expected
Copper	☐	None Expected
Lead	☐	None Expected
Mercury	☐	None Expected
Molybdenum	☐	None Expected
Nickel	☐	None Expected
Selenium	☐	None Expected
Silver	☐	None Expected
Tin	☐	None Expected
Titanium	☐	None Expected
Vanadium	☐	None Expected
Zinc	X	~~Some~~ 0.025
Oil & Grease	☐	Oil Layer
Cyanide	☐	None Expected
Nitrogen (T)	☐	None Expected

Total Suspended Solids (wt%):				
☐ <1	XXX 1-5	☐ 6-10	☐ 11-20	☐ >20

pH Range (<2 or >12.5 is a hazardous waste)				
☐ 2-4	[redacted] 5-6	[redacted] 7	[redacted] 8-9	X 10-12.5

COD Range (mg/L) (if known)					
☐ <100	☐ 101-500	☐ 501-1000	XX 1001-3000	☐ 3001-6000	☐ >6000

Organic Pollutants Present	Concentration (mg/L)

Does this wastestream contain any of the following?
☐ PCBs ☐ Sulfides ☐ AFFF ☐ Electroless Plating ☐ EDTA None

Are multiple layers present? XXX Yes ☐ No
Describe Petroleum and Water

Describe the odor (if any) Petroleum

Describe the color (if any) ~~Black~~ Colorless

Don't Forget Page 2 →

Water Recovery, Inc.

Waste Stream Profile

Used Oil Characteristics

☐ Analytical data available? (please attach)

Characteristic	Actual	Range				
Flash Point (Closed Cup - °F)		XXX < 140	XXX 141-200	> 200		
Total Solids (%)		< 1	XXX 1-5	6-10	11-20	>20
pH (<2 or >12.5 is hazardous)		2-4	[redacted] 5-6	[redacted] 7	[redacted] 8-9	X 10-12.5
Viscosity		X Low	[redacted] Medium	High		
Percent Moisture		<1	1-5	6-10	11-20	>20
BTU/pound		< 2000	2001-6000	6001-10000	10001-16000	

Check if Present	Concentration (mg/L)
Arsenic	None Expected
Cadmium	None Expected
Chromium	None Expected
Lead	None Expected
Total Organic Halogens	None Expected
PCBs	None Expected
Other	None Expected

Does this wastestream contain any of the following?
☐ PCBs ☐ Sulfides ☐ AFFF ☐ Electroless Plating ☐ EDTA None
Are multiple layers present? XXX Yes ☐ No
Describe _____ Oil and Water _____

Describe the odor (if any) _____ Petroleum _____

Describe the color (if any) _____ [redacted] Colorless

Additional Information and Comments

Certification

I certify that this waste is not classified as, mixed with, or derived from a hazardous or special waste under the Resource Conservation and Recovery Act (40 CFR Part 261). I further certify that the above information is true and accurate to the best of my knowledge and is based on analysis of a representative sample of the waste in accordance with EPA guidelines and documents, or on my thorough knowledge of the waste and the generating process.

Name Mitchell B. McPherson

Title Environmental Protection Specialist

Signature [signature]

Date 12-30-03

[redacted]

WATER RECOVERY, INCORPORATED

PETROLEUM CONTACT WATER (PCW) PRODUCER CERTIFICATION AND DOCUMENTATION

1. GENERATOR NAME: Naval Air Station - Cecil Field Public Works Center
2. PROCESS KNOWLEDGE CERTIFICATION: YES / NO (CIRCLE ONE).
3. ANALYTICAL TEST RESULT CERTIFICATION: YES / NO (CIRCLE ONE – ATTACH TEST REPORTS IF YES IS CIRCLED).
4. DOES THE PCW CONTAIN A RECOVERABLE PRODUCT: YES / NO (CIRCLE ONE).
5. IS THE PCW MANAGED AS A PRODUCT? YES / NO (CIRCLE ONE).
6. DOES THE PCW UNDERGO PRODUCT RECOVERY? YES / NO (CIRCLE ONE).
7. DOES THE PCW CONTAIN LEVELS OF HAZARDOUS CONSTITUENTS ABOVE THOSE FOUND IN THE SOURCE OF THE PCW? YES / NO (CIRCLE ONE).

NAME (PRINTED): Mitchell B. McPherson

SIGNATURE: [signature]

TITLE: Environmental Protection Specialist DATE: 12-30-03