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Round 2
Groundwater Monitoring Report
for
Sites 3 and 7

Naval Submarine Base
New London
Groton, Connecticut

Naval Facilities Engineering Command
Mid-Atlantic

Contract Number N62472-03-D-0057

Contract Task Order 064

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ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7

NAVAL SUBMARINE BASE - NEW LONDON
GROTON, CONNECTICUT

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

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TABLE OF CONTENTS

SECTION **PAGE NO.**

ACRONYMS ..... **iv**

EXECUTIVE SUMMARY **ES-1**

1.0 INTRODUCTION **1-1**
1.1 SCOPE AND OBJECTIVE 1-1
1.2 BACKGROUND INFORMATION 1-2
1.2.1 Base Description 1-2
1.2.2 Site Description and History 1-2
1.2.3 Previous Site Investigations 1-4
1.3 REPORT ORGANIZATION 1-7

2.0 FIELD INVESTIGATION ACTIVITIES **2-1**
2.1 GROUNDWATER LEVEL MEASUREMENTS 2-1
2.2 GROUNDWATER SAMPLING 2-1
2.3 DECONTAMINATION AND INVESTIGATION-DERIVED WASTE 2-2

3.0 MONITORING RESULTS **3-1**

REFERENCES **R-1**

APPENDICES

A FIELD FORMS
B IDW ANALYTICAL RESULTS, WASTE PROFILES, AND MANIFESTS
C LABORATORY RESULTS

TABLES

NUMBER

2-1 Monitoring Well Construction and Water Level Information
3-1 Summary of Round 2 Groundwater Analytical Results for Site 3
3-2 Summary of Round 2 Groundwater Analytical Results for Site 7

FIGURES

NUMBER

1-1 Facility Location Map
1-2 Site Location Map
1-3 General Site Layout
2-1 Potentiometric Surface Map
3-1 Detected Concentrations Round 2 Groundwater Monitoring

ACRONYMS

°C	Degree Celsius
µg/L	Micrograms per liter
Atlantic	Atlantic Environmental Services, Inc.
B&RE	Brown & Root Enviornmental
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLEAN	Comprehensive Long-Term Environmental Action Navy
COC	Contaminant of concern
CTO	Contract Task Order
DERP	Defense Environmental Restoration Program
DO	Dissolved oxygen
ESQD	Explosive Safety Quantity Distance
FS	Feasibility Study
GMP	Groundwater Monitoring Plan
IDW	Investigation-derived waste
IRP	Installation Restoration Program
LUC	Land use control
MDL	Method Detection Limit
NAD	North American Datum
NAVD	North American Vertical Datum
NSA	New Source Area
NSB-NLON	Naval Submarine Base - New London
NTU	Nephelometric turbidity unit
OBDA	Overbank Disposal Area
ORP	Oxidation-reduction potential
OU	Operable Unit
PAH	Polynuclear aromatic hydrocarbon
PM	Project Manager
PQL	Practical Quantitation Limit
PPE	Personal Protective Equipment
RAO	Remedial Action Objective
RI	Remedial Investigation
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SOP	Standard Operating Procedure
SVOC	Semivolatile organic compound

TCL	Target Compound List
TtNUS	Tetra Tech NUS, Inc.
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

EXECUTIVE SUMMARY

Groundwater samples were collected from nine monitoring wells at Site 3 and eight monitoring wells at Site 7 as part of the Round 2 quarterly groundwater monitoring event in October 2006. Two volatile organic compounds (VOCs) and one polynuclear aromatic hydrocarbon (PAH), as summarized below, were detected during Round 2 at concentrations that exceeded their remedial goals.

- Trichloroethene was detected in well 2DMW16D at 7 micrograms per liter (µg/L) which is greater than the remedial goal of 5 µg/L.

- Vinyl chloride was detected in well 2DMW29S at 9 µg/L which is greater than the remedial goal of 2 µg/L.

- Benzo(a)anthracene was detected in the duplicate sample from well 7MW13S at 0.27 J µg/L which is greater than the remedial goal of 0.06 µg/L.

Contaminant concentrations detected in Round 2 samples from the remaining 15 wells were all less than the remedial goals.

1.0 INTRODUCTION

This Round 2 Groundwater Monitoring Report for Site 3 - Area A Downstream Watercourses/Overbank Disposal Area (OBDA) and Site 7 - Torpedo Shops at the Naval Submarine Base - New London (NSB-NLON) in Groton, Connecticut was prepared for the United States Department of the Navy (Navy) by Tetra Tech NUS, Inc. (TtNUS) under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62472-03-D-0057, Contract Task Order (CTO) 064. The monitoring activities at Sites 3 and 7 are being conducted under the Navy's Installation Restoration Program (IRP), a component of the Defense Environmental Restoration Program (DERP) established under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA).

1.1 SCOPE AND OBJECTIVE

The remedial action for groundwater at Sites 3 and 7, as selected in the Interim Record of Decision (ROD) for Sites 3, 7, 14, 15, 18, and 20 Groundwater (Navy, 2004c), was institutional controls and monitoring. The remedy was selected to address potential risks to future receptors from exposure to contaminants of concern (COCs) in groundwater at the sites. The groundwater at these two sites makes up a portion of Operable Unit (OU) 9, the basewide groundwater OU. It is expected that the remedy of institutional controls and monitoring will be the final remedy for groundwater at Sites 3 and 7 after remedies are selected for the remaining portions of OU9. The soil OUs at these sites (OU3 and OU8, respectively) were previously addressed by remedial actions (excavation and off-site disposal).

The objectives of the monitoring program were documented in the Work Plan for Remedial Action at Sites 3 and 7 (TtNUS, 2006a) and the Groundwater Monitoring Plan (GMP) included in Volume II of the Operation and Maintenance Manual for Installation Restoration Program Sites (TtNUS, 2006b). The overall objective of the monitoring program is to monitor the degradation and potential migration of groundwater COCs until concentrations decrease to the remedial goals by natural processes and the resulting concentrations are shown to be protective of human health and the environment. The Round 2 monitoring event included the collection of one round of water levels and groundwater samples from the wells in the monitoring program.

The purpose of this report is to present the results of Round 2 of long-term groundwater monitoring at Sites 3 and 7. Monitoring is being conducted quarterly for the first year of the program. Groundwater sampling and analysis were performed during Round 2 in accordance with the Work Plan for Remedial Action at Sites 3 and 7 (TtNUS, 2006a) and GMP (TtNUS, 2006b). Because this report is an interim report that presents the results of the second round of groundwater monitoring, evaluation of monitoring

results is limited to a comparison of results to the criteria identified in the GMP for Sites 3 and 7 (TtNUS, 2006b). An annual report will be prepared after four quarterly rounds of sampling are complete, and a comprehensive evaluation of the results will be provided in the report.

1.2 BACKGROUND INFORMATION

1.2.1 Base Description

NSB-NLON is located in southeastern Connecticut in the Towns of Ledyard and Groton. It encompasses approximately 687 acres on the eastern bank of the Thames River, approximately 6 miles north of Long Island Sound. NSB-NLON is bounded to the east by Connecticut Route 12, to the south by Crystal Lake Road, and to the west by the Thames River (see Figures 1-1 and 1-2). The northern border is a low, east-southeast-trending ridge extending from the Thames River to Baldwin Hill.

NSB-NLON currently provides base command for Naval submarine activities in the Atlantic Ocean. It also provides housing for Navy personnel and their families and supports submarine training facilities, military offices, medical facilities, and facilities for submarine maintenance, repair, and overhaul.

1.2.2 Site Description and History

1.2.2.1 Site 3

Site 3 covers approximately 75 acres and is located in the northern portion of NSB-NLON. The site includes undeveloped wooded areas with several small ponds, streams, wetlands, and recreational areas (golf course and lake for swimming). Site 3 watercourses include several small ponds and interconnected streams that convey surface water to the Thames River. Site 3 also includes the former OBDA. The general configuration of Site 3 and adjacent areas is shown on Figure 1-3.

Site 3 was investigated during several phases from 1990 to 2002. The major sources of contamination at Site 3 include historical application of pesticides, abandoned disposal areas, and the septic system leach fields at Site 7. A summary of the nature and extent of groundwater contamination at the site is provided in the Interim ROD for Sites 3, 7, 14, 15, 18, and 20 Groundwater (Navy, 2004c). The nature and extent of soil contamination at the site was summarized in the ROD for Site 3 - New Source Area (NSA) Soil (OU3) (Navy, 2004b) and the ROD for Site 3 Soil and Sediment (Navy, 1998).

In March 1997, accumulated debris in the OBDA, including discarded wooden pallets, telephone poles, and empty tanks, was removed and disposed off site (Navy, 1997a). During 1999 and 2000, a remedial action was completed for the OU3 portion of Site 3. Approximately 18,050 tons of soil and sediment contaminated with pesticides and metals were excavated and disposed at off-site disposal facilities. The

Site 3 - NSA, discovered during the remedial action for OU3, contains petroleum-contaminated soil. The site is a small disposal area on a hillside adjacent to Stream 5 (see Figure 1-3). Debris such as rusted drums and wire cable were found intermingled with boulders at the site.

A nine-hole golf course covers a majority of the western portion of Site 3. It was reported that groundwater wells were used to provide irrigation water for the golf course until the early 1980s. These wells were eliminated, and municipal potable water is currently used for irrigation purposes.

Most of Site 3 is within designated Explosive Safety Quantity Distance (ESQD) arcs of Site 20 (Area A Weapons Center); therefore, further development is not planned for this area. Navy regulations prohibit construction of inhabited buildings or structures within these arcs and, although existing buildings operate under a waiver of these regulations, no further construction is planned.

1.2.2.2 Site 7

Site 7 is the Torpedo Shops (Buildings 325, 450, 477, and 528) and is located in the northern portion of NSB-NLON on the northern side of Triton Road (see Figure 1-3). The Navy conducts maintenance activities on torpedoes at the site, which is bordered on the east and north by 60-foot-high bedrock cliffs. The remainder of the site slopes to the southwest toward Site 3. An earthen berm extends along the base of the eastern portion of the exposed rock face.

Site 7 media were investigated during several phases from 1990 to 2000. The major sources of contamination at Site 7 include potential historical disposal of solvents/chemicals into two on-site septic systems and leaks or spills associated with on-site underground storage tanks. A summary of the nature and extent of groundwater contamination at the site is provided in the Interim ROD for Sites 3, 7, 14, 15, 18, and 20 Groundwater (Navy, 2004c). The nature and extent of soil contamination at the site is summarized in the ROD for Site 7 and Site 14 Soil (OU8) (Navy, 2004a).

Building 325 is a torpedo overhaul facility at which a variety of fuels, solvents, and petroleum products have been used. Plumbing for the building drained into the on-site septic system until 1983. Three storage tanks, two underground and one aboveground, were located on the southern side of Building 325 and were used to store fuel oil.

A smaller building attached to the eastern side of Building 325 was previously used as an assembly shop for torpedoes and as a paint shop. A closet in this building was used to store containers of 1,1,1-trichloroethane and methyl ethyl ketone (2-butanone). Drums and cylinders were stored outside on the eastern side of this building. The vessels were labeled as containing propane, isobutane,

2-butanone, xylot, methylene chloride, propellant, and zinc chromate. An addition to the northern side of Building 325, completed in 1990, is also used as a torpedo maintenance shop.

Building 450 is the primary MK-48 torpedo overhaul/assembly facility. Petroleum products including TL-250 motor oil and hydraulic fluid have been used in this building for torpedo maintenance. Torpedo overhaul/assembly operations at Building 450 generate fuels, solvents, and petroleum products as wastes.

Building 477, approximately 65 feet east of Building 450, was formerly used to store drums of Otto fuel. Solvents including 1,1,1-trichloroethane, trichloroethene, toluene, mineral spirits, alcohol, and bulk Freon have been used at this facility.

1.2.3 Previous Site Investigations

1.2.3.1 Site 3

The following investigations were conducted at Site 3 from 1990 to 2002:

- Phase I Remedial Investigation (RI) (Atlantic, 1992)
- Focused Feasibility Study (FS) (Atlantic, 1994)
- Phase II RI (B&RE, 1997a)
- FS for Soil and Sediment (B&RE, 1997b)
- Basewide Groundwater OU RI (TtNUS, 2002)
- Basewide Groundwater OU RI Update/FS (TtNUS, 2004)

Chlorinated volatile organic compounds (VOCs) (e.g., cis-1,2-dichloroethene, trichloroethene, and vinyl chloride) were the primary contaminants detected in groundwater at Site 3. Chlorinated VOCs were detected during all of the investigations, and it is likely that their detections are the result of solvents being originally released to groundwater via the two septic systems and associated leach fields at Site 7 and migrating downgradient to Site 3. The concentrations of VOCs detected during the 2002 investigation were less than concentrations detected during previous investigations (1994), indicating that a continuing source of contamination is not present and that natural attenuation processes are working to reduce concentrations. The VOCs were found primarily along the length of Stream 5. The results of the risk assessment showed there are no unacceptable risks to current receptors from exposure to contaminants in Site 3 groundwater, but exposure to maximum concentrations of trichloroethene and vinyl chloride in Site 3 groundwater could result in unacceptable risks to hypothetical future human receptors if they regularly consume the groundwater. The remedial alternative of institutional controls, including land use

controls (LUCs), and monitoring was selected in the ROD for Site 3 groundwater (Navy, 2004c) to meet the following remedial action objectives (RAOs):

- Protect current receptors (construction workers) from incidental exposure to groundwater contaminated with petroleum and chlorinated hydrocarbons at concentrations greater than remedial goals.

- Protect potential future receptors from regular ingestion of groundwater (potable water supply) contaminated with chlorinated hydrocarbons at concentrations greater than remedial goals.

- Protect aquatic ecological receptors by preventing the migration of groundwater contaminated with petroleum hydrocarbons at concentrations greater than remedial goals to surface water.

1.2.3.2 Site 7

The following investigations were completed for Site 7:

- Phase I RI (Atlantic, 1992)
- Phase II RI (B&RE, 1997a)
- Basewide Groundwater OU RI (TtNUS, 2002)
- Basewide Groundwater OU RI Update/FS (TtNUS, 2004)

Investigations at Site 7 found contaminants such as benzene, chlorobenzenes (1,4-dichlorobenzene, chlorobenzene, and hexachlorobenzene), phenanthrene, and trichloroethene in groundwater. The contaminants were probably released to groundwater via the two former septic systems and associated leach fields. The results of the risk assessment showed that there are no unacceptable risks to current receptors from exposure to contaminants in Site 7 groundwater, but exposure to maximum concentrations of benzene, chlorobenzenes, and trichloroethene in Site 7 groundwater could result in unacceptable risks to hypothetical future human receptors if they regularly consume the groundwater. The data also indicated that the maximum concentrations of hexachlorobenzene and phenanthrene posed a potential migration issue from groundwater to surface water; however, upon further evaluation, the potential migration issue was found to be insignificant. The remedial alternative of institutional controls, including LUCs, and monitoring was selected in the ROD for Site 7 groundwater (Navy, 2004c) to meet the following RAOs:

- Protect current receptors (construction workers) from incidental exposure to groundwater contaminated with organics at concentrations greater than remedial goals.

- Protect potential future receptors from regular ingestion of groundwater (potable water supply) contaminated with benzene and chlorinated hydrocarbons at concentrations greater than remedial goals.

- Protect aquatic ecological receptors by preventing the migration of groundwater contaminated with COCs at concentrations greater than remedial goals to surface water.

1.2.3.3 COCs

The groundwater COCs for Sites 3 and 7, as identified in the ROD (Navy, 2004c), are as follows:

VOCs

- 1,4-Dichlorobenzene (Site 7)
- Benzene (Site 7)
- Chlorobenzene (Site 7)
- Trichloroethene (Sites 3 and 7)
- Vinyl chloride (Site 3)

Semivolatile Organic Compounds (SVOCs)

- Hexachlorobenzene (Sites 3 and 7)

In addition to these COCs, the following COCs were identified for the polynuclear aromatic hydrocarbon (PAH)-contaminated soil at Site 7 (Navy, 2004c). Groundwater monitoring will be conducted for these COCs to evaluate the effectiveness of the soil remediation at Site 7. These COCs will only be analyzed for in monitoring well 7MW13S.

PAHs

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Indeno(1,2,3-cd)pyrene

1.3 REPORT ORGANIZATION

This report has been prepared in the following format to address the requirements for long-term groundwater monitoring at Sites 3 and 7. Section 1.0 is this brief introduction including the project scope and objective and a discussion of previous investigations. Section 2.0 describes Round 2 field activities. Section 3.0 presents and evaluates the analytical results from the Round 2 monitoring effort.

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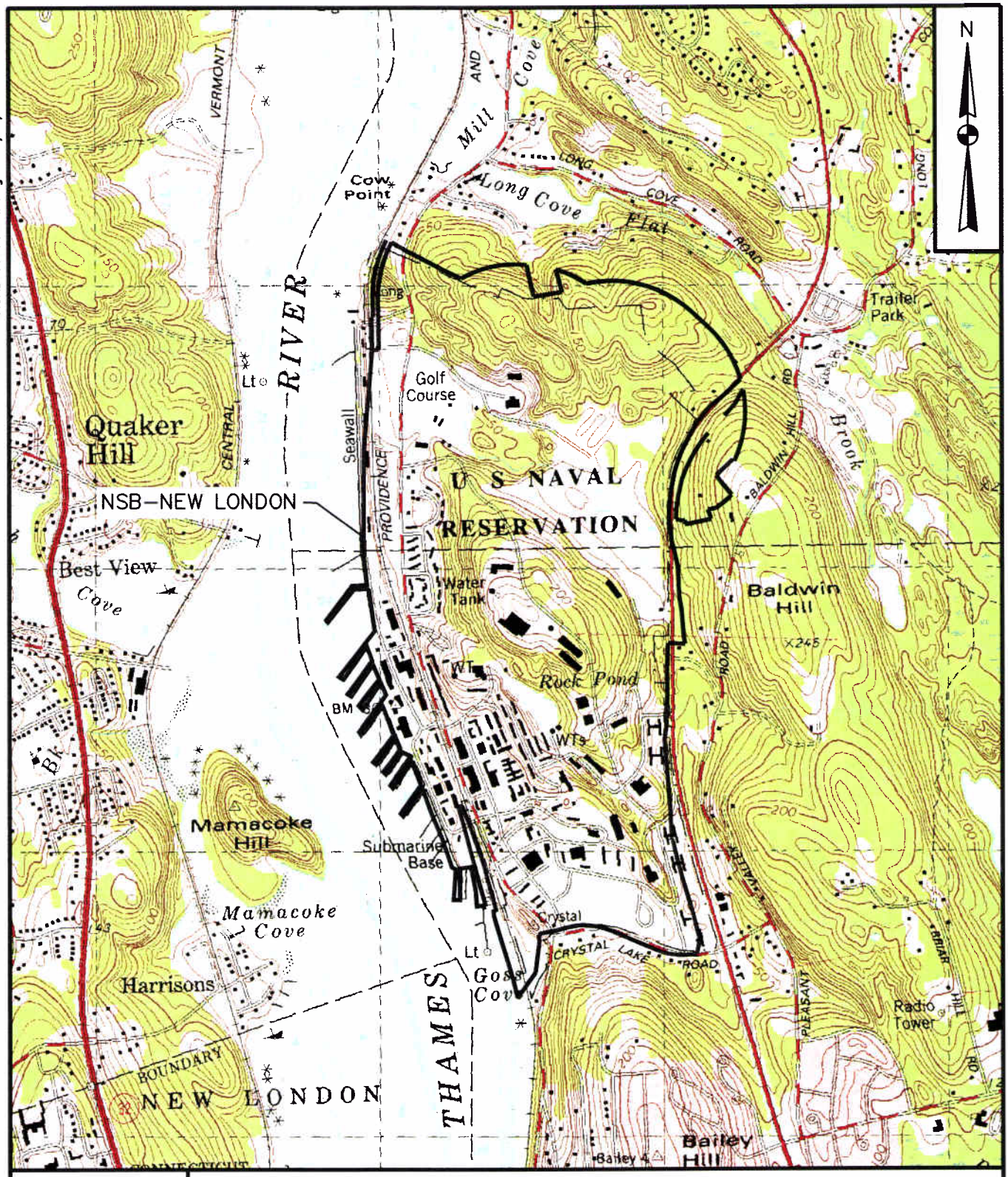

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SOURCE: USGS QUADRANGLE MAP UNCASVILLE, CONNECTICUT, 1984

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APPROVED BY CAR DATE 12/22/06
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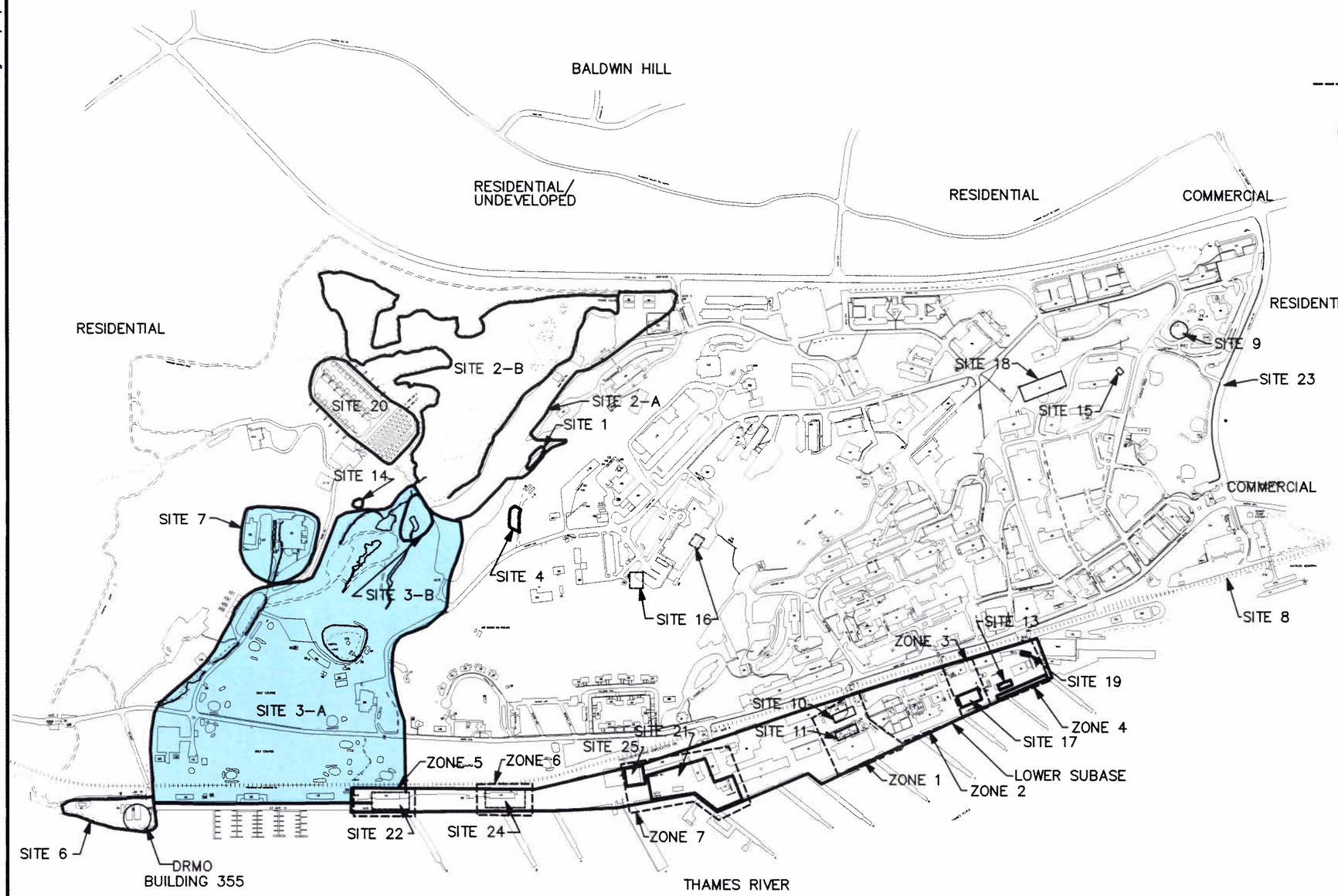

LEGEND:

-------- LOWER SUBASE REMEDIAL INVESTIGATION ZONE BOUNDARY

SITES 3 & 7 AREA WITH LUCs ON SOIL AND/OR GROUNDWATER

NOTES:

1. SITE AND STUDY AREA LOCATIONS WERE TAKEN FROM THE FOLLOWING REPORTS:
   - FEDERAL FACILITY AGREEMENT UNDER CERCLA 120, NAVAL SUBMARINE BASE, NEW LONDON, CONNECTICUT
   - FINAL INITIAL ASSESSMENT STUDY (ENVIRODYNE, MARCH 1983)
   - HYDROGEOLOGIC INVESTIGATION UNDERGROUND STORAGE TANKS OT-4, OT-7, OT-8, OT-9, AND 54-H (FUSS & O'NEILL, SEPTEMBER 1989)
   - PHASE I REMEDIAL INVESTIGATION (ATLANTIC, AUGUST 1992)
   - SITE CHARACTERIZATION REPORT FOR OT-10, BUILDING 325, AND BUILDING 89 (HNUS, APRIL 1995)
   - DRAFT FINAL SUPPLEMENT TO INITIAL ASSESSMENT STUDY (NAVAL FACLILITIES ENGINEERING SERVICE CENTER, APRIL 1995)
   - REMOVAL SITE EVALUATION FOR QUAY WALL (HNUS, MAY 1995)
2. SITE AND STUDY AREA BOUNDRIES ARE APPROXIMATE.

SITE 1 – CONSTRUCTION BATTALION UNIT (CBU) DRUM STORAGE AREA
SITE 2 – (A) AREA A LANDFILL AND (B) AREA A WETLAND
SITE 3 – (A) AREA A DOWNSTREAM WATER COURSES AND (B) OVERBANK DISPOSAL AREA (OBDA)
SITE 4 – RUBBLE FILL AREA AT BUNKER A-86
SITE 6 – DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO)
SITE 7 – TORPEDO SHOPS
SITE 8 – GOSS COVE LANDFILL
SITE 9 – OILY WASTEWATER TANK (OT-5)
SITE 10 – LOWER SUBASE-FUEL STORAGE TANKS AND TANK 54-H
SITE 11 – LOWER SUBASE-POWER PLANT OIL TANKS
SITE 13 – LOWER SUBASE-BUILDING 79 WASTE OIL PIT
SITE 14 – OVERBANK DISPOSAL AREA NORTHEAST (OBDANE)
SITE 15 – SPENT ACID STORAGE AND DISPOSAL AREA (SASDA)
SITE 16 – HOSPITAL INCINERATORS
SITE 17 – HAZARDOUS MATERIALS/SOLVENT STORAGE AREA (BUILDING 31)
SITE 18 – SOLVENT STORAGE AREA (BUILDING 33)
SITE 19 – SOLVENT STORAGE AREA (BUILDING 316)
SITE 20 – AREA A WEAPONS CENTER
SITE 21 – BERTH 16
SITE 22 – PIER 33
SITE 23 – FUEL FARM
SITE 24 – CENTRAL PAINT ACCUMULATION AREA (BUILDING 174)
SITE 25 – LOWER SUBASE-CLASSIFIED MATERIALS INCINERATOR

0 800 1600
GRAPHIC SCALE IN FEET

BASE MAP SOURCE: PREPARED BY THE NAVAL SUBMARINE BASE PUBLIC WORKS DEPT., ENGINEERING DIVISION. MARCH 2006, DRAWING NO. A-667.

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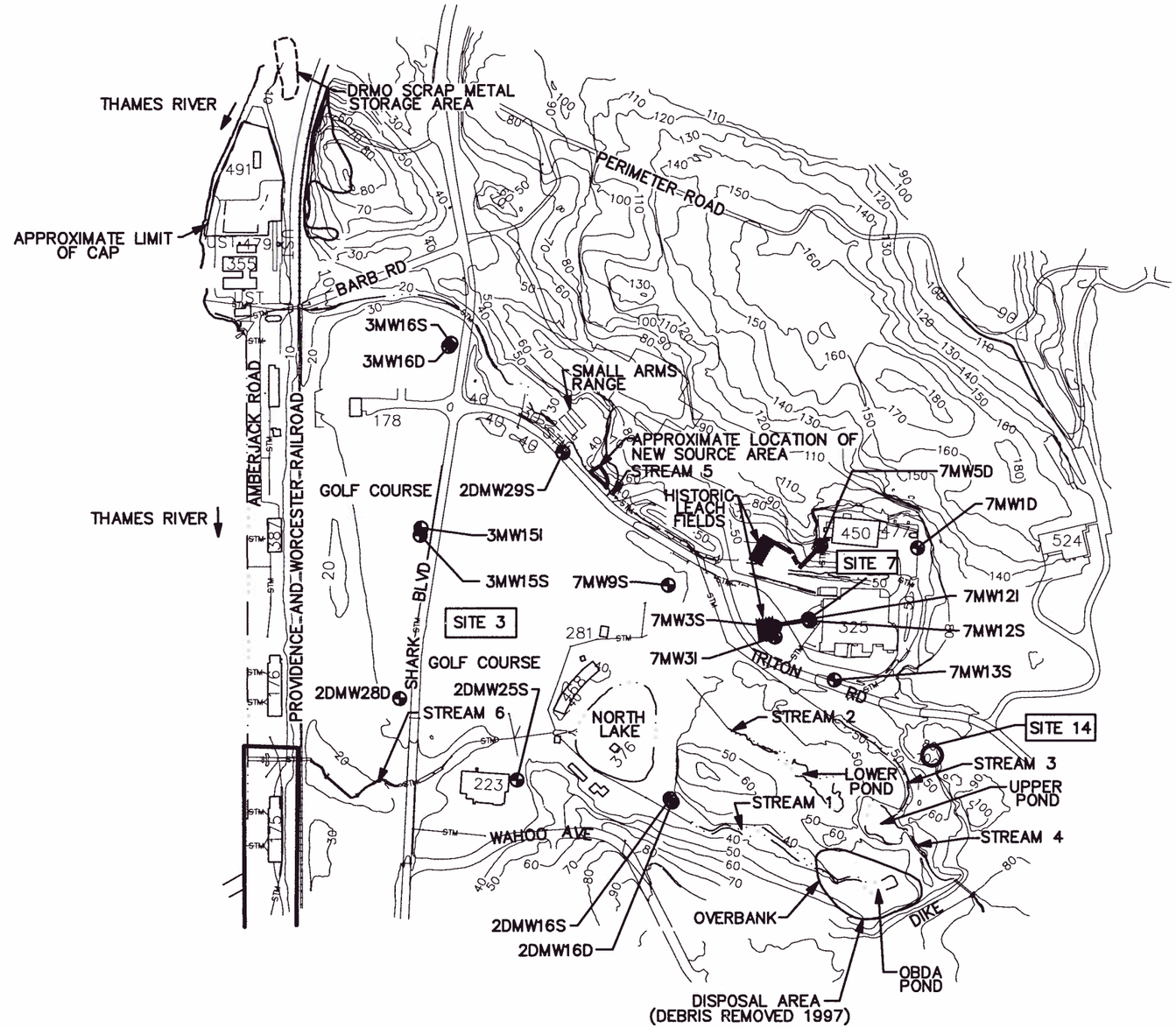

LEGEND:

● MONITORING WELL

—120— GROUND SURFACE CONTOUR (BASE DATUM 1982)

NOTE:

1.) ORIGINAL FIGURE TAKEN FROM BASEWIDE GROUNDWATER OPERABLE UNIT REMEDIAL INVESTIGATION UPDATE/FEASIBILITY STUDY (TtNUS, 2004).

2.) NAVD 88 = 1982 BASE VERTICAL DATUM −2.39 FEET.

0 400 800

SCALE IN FEET

DRAWN BY DT	DATE 12/14/06	Tetra Tech NUS, Inc.	GENERAL SITE LAYOUT SITES 3 AND 7 NSB-NLON, GROTON, CONNECTICUT
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2.0 FIELD INVESTIGATION ACTIVITIES

Field activities performed during Round 2 groundwater monitoring for the remedial action at Sites 3 and 7 included the following tasks:

- Collection of one comprehensive round of groundwater level measurements from all monitoring wells included in the monitoring program.

- Collection of one round of groundwater samples from all monitoring wells included in the monitoring program.

The field activities were performed between October 9 and October 13, 2006 in accordance with the approved Work Plan (TtNUS, 2006a) and GMP (TtNUS, 2006b). Any modifications to the Work Plan that occurred during field activities are discussed below. Figure 1-3 shows the locations of the 17 monitoring wells that are included in the monitoring program. Daily activities are summarized in the field logbook. Copies of the logbook pages are provided in Appendix A-1.

2.1 GROUNDWATER LEVEL MEASUREMENTS

One comprehensive round of groundwater level measurements were taken from all 17 wells that are part of the monitoring program. Water levels were obtained on October 10, 2006 using an electronic water level meter and recorded to an accuracy of 0.01-foot from a marked reference point on each well. Water level measurements and elevations are summarized in Table 2-1. A potentiometric surface map is shown on Figure 2-1. The field groundwater level measurement sheet is provided in Appendix A-2.

2.2 GROUNDWATER SAMPLING

A total of 17 monitoring wells were sampled during Round 2 groundwater monitoring at Sites 3 and 7. The wells were sampled between October 9 and October 13, 2006. The dedicated bladder pumps were used to conduct low-flow purging and sampling. Sampling was performed in accordance with TtNUS Standard Operating Procedure (SOP) SA-1.1 and the United States Environmental Protection Agency (USEPA) Region I Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples (USEPA, 1996).

The wells were purged at rates of 0.1 to 0.4 liter per minute to minimize the drawdown of water levels below the pump intake. Water level measurements were taken in each well prior to purging and throughout the purging process (see Appendix A-3). Groundwater quality parameters were measured

and recorded every 5 to 10 minutes throughout the purging cycle using a Horiba water quality meter equipped with a flow-through cell. All measurements, with the exception of turbidity, were taken through the flow-through cell. A LaMotte turbidity meter was used for turbidity measurements. Purging was performed until water quality parameters were stabilized for three consecutive readings to within the following limits:

- pH, ± 0.2 units
- Specific conductance, ± 10 percent
- Temperature, ± 10 percent
- Dissolved oxygen (DO), ± 10 percent
- Oxidation-reduction potential (ORP), ± 10 millivolts
- Turbidity, less than 10 nephelometric turbidity unit (NTUs)

Similar to Round 1, turbidity levels in wells 3MW15I, 7MW3I, and 7MW12I were elevated and did not go below the 10 NTU level during purging. All other parameters stabilized to the required limits by the completion of purging of these wells. In an effort to reduce turbidity levels in the wells, it is recommended that they be redeveloped prior to conducting the Round 3 sampling effort.

Another minor deviation to the purging process occurred for well 3MW16S. After approximately 30 minutes of purging, the water level was below the bottom of the pump intake. The well was allowed to recover until the next day and then sampling was conducted. This approach was taken to allow sample collection during the allotted field schedule.

After purging was complete, groundwater samples were collected directly from the pump tubing and into the sample bottles. Based on the Work Plan (TtNUS, 2006a) and the GMP (TtNUS, 2006b) samples were collected as appropriate for Target Compound List (TCL) VOCs and SVOCs, including PAHs. Samples to be analyzed for VOCs were collected such that zero head space existed in the container once filled. Quality assurance and quality control samples such as trip blanks, duplicates, rinsate blanks, matrix spike samples, and matrix spike duplicates were also collected as appropriate during the sampling program. Copies of the sample log sheets and low-flow purge data sheets are provided in Appendix A-3. Chain-of-custody records are provided in Appendix A-4 and equipment calibration logs are provided in Appendix A-5. Analytical results are discussed in Section 3.0.

2.3 DECONTAMINATION AND INVESTIGATION-DERIVED WASTE

Decontamination fluids and purge water were collected and containerized in 55-gallon drums. Each drum was properly labeled with appropriate information (e.g., facility, contents, well, date, and responsible

party). All personal protective equipment (PPE) was double bagged and placed in an approved dumpster at the facility.

All drummed investigation-derived waste (IDW) was transported from Sites 3 and 7 to the NSB-NLON short-term waste storage facility off of Wahoo Avenue by the Navy. The liquid waste was sampled for characterization purposes by TtNUS's subcontractor Global Remediation Services, Inc. on October 13, 2006. The analytical results for the characterization samples are provided in Appendix B. The results showed that liquid IDW was non-hazardous. The drummed waste was collected on November 1, 2006 and transported off site for disposal. Copies of the waste profiles and manifests are provided in Appendix B.

TABLE 2-1

MONITORING WELL CONSTRUCTION AND WATER LEVEL INFORMATION
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

Monitoring Well	Northing [1]	Easting [1]	Ground Surface Elev (ft) [2]	Top of Casing Elev (ft) [2]	Top of Pipe Elev (ft) [2]	Screened Aquifer	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Screen Top Elev (ft) [2]	Screen Bottom Elev (ft) [2]	Depth to Water (ft)[3]	Elev of Water (ft)[3]
Site 3												
2DMW16S	708522.1	1181411.1	33.21	35.69	35.46	Overburden (Alluvium)	1.69	11.69	31.52	21.52	6.63	28.83
2DMW16D	708531.9	1181404.8	33.51	35.30	NA	Bedrock	18.00	59.91	15.51	-26.40	6.25	29.05
2DMW25S	708649.4	1180952.5	31.09	33.02	32.59	Overburden (Fill)	5.50	10.50	25.59	20.59	8.62	23.97
2DMW28D	708835.6	1180594.4	33.22	33.22	33.01	Bedrock	26.00	136.00	7.22	-102.78	16.95	16.06
2DMW29S	709579.0	1181082.1	32.59	34.47	34.29	Overburden (Alluvium)	6.00	16.00	26.59	16.59	10.10	24.19
3MW15S	709329.6	1180638.3	33.20	33.24	32.86	Overburden (Alluvium)	28.00	38.00	5.20	-4.80	29.10	3.76
3MW15I	709351.2	1180640.8	33.50	33.53	33.10	Overburden (Alluvium)	55.50	65.50	-22.00	-32.00	30.74	2.36
3MW16S	709908.8	1180730.0	36.10	36.10	35.78	Bedrock	17.00	27.00	19.10	9.10	15.43	20.35
3MW16D	709899.8	1180723.2	36.20	36.19	35.80	Bedrock	59.00	69.00	-22.80	-32.80	22.16	13.64
Site 7												
7MW1D	709291.1	1182145.8	52.28	NA	51.69	Bedrock	14.20	25.20	38.08	27.08	9.87	41.82
7MW3S	709033.9	1181704.2	43.59	43.59	43.32	Overburden (Fill/Alluvium)	6.90	16.90	36.69	26.69	6.26	37.06
7MW5D	709280.3	1181887.3	54.43	54.43	54.18	Bedrock	32.00	42.00	22.43	12.43	12.28	41.90
7MW9S	709177.8	1181377.0	35.80	35.77	35.40	Overburden (Alluvium)	4.00	14.00	31.81	21.81	5.42	29.98
7MW3I	709021.9	1181707.0	43.40	45.38	45.21	Overburden (Alluvium)	22.50	32.50	20.90	10.90	8.11	37.10
7MW12S	709075.9	1181805.7	44.10	44.13	43.62	Overburden (Fill/Alluvium)	3.50	13.50	40.60	30.60	4.12	39.50
7MW12I	709070.3	1181808.8	44.20	44.22	43.90	Overburden (Alluvium)	20.00	30.00	24.20	14.20	5.55	38.35
7MW13S	708891.7	1181882.7	48.60	50.79	50.58	Overburden (Fill/Alluvium)	6.50	16.50	42.10	32.10	9.77	40.81

1 North American Datum 83, Connecticut State Plane
2 North American Vertical Datum (NAVD) 88 (NAVD 88 = 1982 Base Vertical Datum - 2.39 feet[3]). Vertical datum conversion factor of 2.39 feet was provided by NSB-NLON Public Works Department.
3 Water levels were measured from top of pipe on October 10, 2006.
NA - Not available.
Elev - Elevation.
ft - feet.

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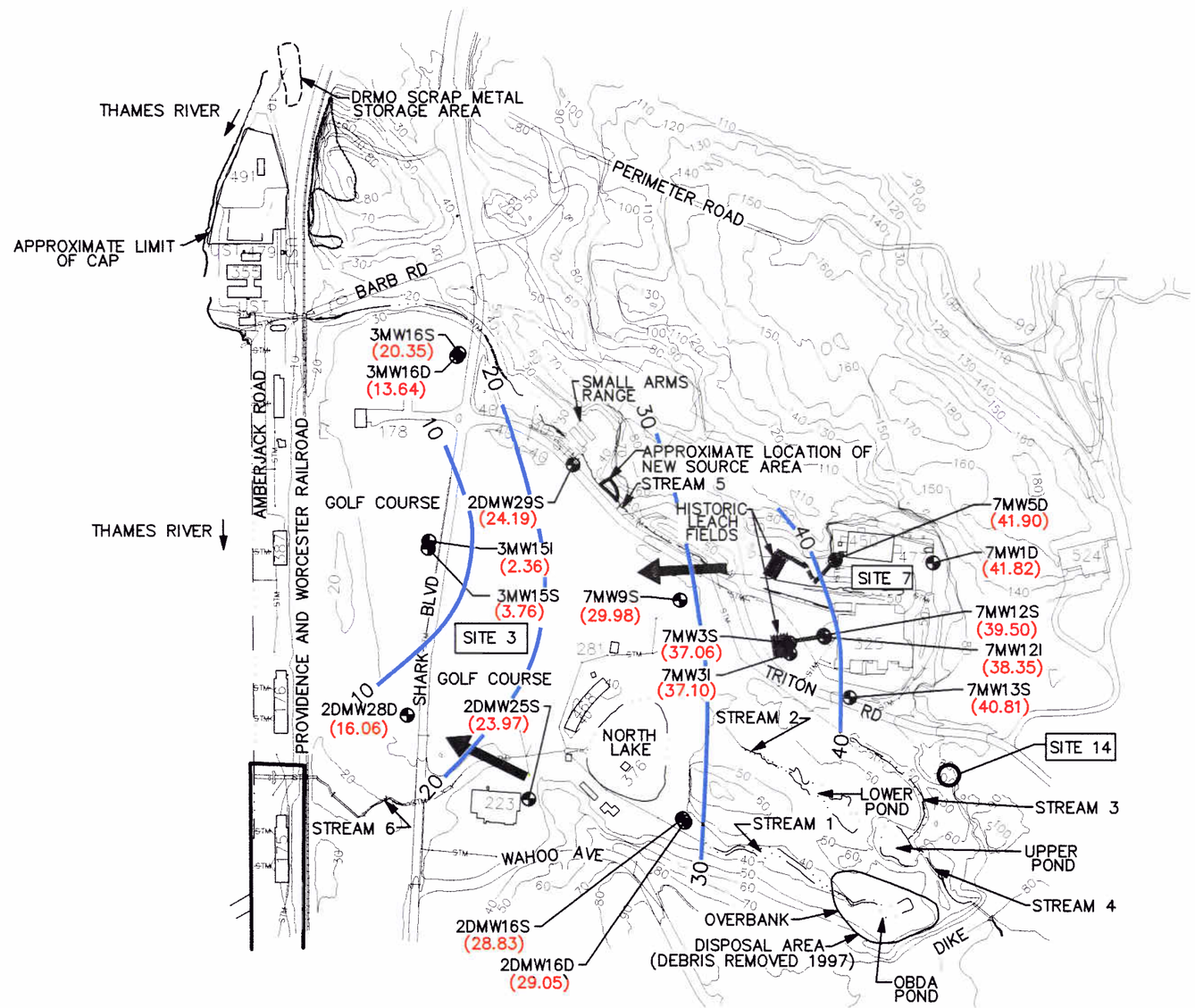

LEGEND:

◉	MONITORING WELL
(41.87)	GROUNDWATER ELEVATION (NAVD 88)
30	GROUNDWATER CONTOUR (NAVD 88)
➡	GROUNDWATER FLOW DIRECTION
—120—	GROUND SURFACE CONTOUR (BASE DATUM 1982)

NOTE:

1.) ORIGINAL FIGURE TAKEN FROM BASEWIDE GROUNDWATER OPERABLE UNIT REMEDIAL INVESTIGATION UPDATE/FEASIBILITY STUDY (TtNUS, 2004).

2.) GROUNDWATER ELEVATIONS WERE MEASURED ON OCTOBER 10, 2006.

3.) NAVD 88 = 1982 BASE VERTICAL DATUM −2.39 FEET.

0 400 800
SCALE IN FEET

DRAWN BY MF	DATE 12/11/06	Tetra Tech NUS, Inc.	POTENTIOMETRIC SURFACE MAP ROUND 2 GROUNDWATER MONITORING SITES 3 AND 7 NSB-NLON, GROTON, CONNECTICUT
CHECKED BY	DATE		
REVISED BY	DATE		
SCALE AS NOTED			

CONTRACT NO. 0616	
OWNER NO. 064	
APPROVED BY CAR	DATE 12/22/06
DRAWING NO. FIGURE 2-1	REV. 0

FORM CADD NO. TTNUS-BH.DWG – REV 1 – 9/10/98

3.0 MONITORING RESULTS

Groundwater samples were collected from Sites 3 and 7 as part of the Round 2 quarterly groundwater monitoring event. Groundwater samples were collected from nine monitoring wells associated with Site 3 and eight monitoring wells associated with Site 7. The analytical program for the samples is summarized in the following table.

Well	VOCs	SVOCs	PAHs	Water Quality
Site 3				
2DMW16S	X			X
2DMW16D	X			X
2DMW25S	X			X
2DMW28D	X			X
2DMW29S	X			X
3MW15S	X			X
3MW15I	X			X
3MW16S	X			X
3MW16D	X			X
Site 7				
7MW1D	X			X
7MW3S	X	X		X
7MW5D	X			X
7MW9S	X	X		X
7MW3I	X	X		X
7MW12S	X	X		X
7MW12I	X	X		X
7MW13S		X	X	X

VOCs - Volatile organic compounds
SVOCs - Semivolatile organic compounds
PAHs - Polynuclear aromatic hydrocarbons
Water Quality – DO, ORP, pH, specific conductance, salinity, temperature, and turbidity

Groundwater monitoring focused on the following COCs as identified in the ROD (Navy, 2004c):

- 1,4-Dichlorobenzene (Site 7)
- Benzene (Site 7)
- Benzo(a)anthracene (Site 7)
- Benzo(a)pyrene (Site 7)
- Benzo(b)fluoranthene (Site 7)

- Chlorobenzene (Site 7)
- Hexachlorobenzene (Sites 3 and 7)
- Indeno(1,2,3-cd)pyrene (Site 7)
- Trichloroethene (Sites 3 and 7)
- Vinyl chloride (Site 3)

The Round 2 analytical results are summarized in Table 3-1 (Site 3) and Table 3-2 (Site 7). The data validation letter and summary tables for the Round 2 results are provided in Appendix C. Within each table, the analytical results are compared to remedial goals identified in the ROD (Navy, 2004c), and the chemicals exceeding the goals are noted by shading.

The Round 2 results can be summarized as follows:

- Trichloroethene was detected in two of nine groundwater wells at Site 3 and two of eight wells at Site 7. Trichlorothene concentrations slightly exceeded the remedial goal of 5 micrograms per liter (µg/L) in only one Site 3 sample (2DMW16D at 7 µg/L). This value is greater than the only exceedance detected during Round 1.

- Vinyl chloride was detected in one Site 3 sample (2DMW29S) and its duplicate at concentrations of 9 µg/L and 10 µg/L, respectively. These concentrations are greater than the remedial goal of 2 µg/L.

- Chlorobenzene was detected in only one Site 7 sample (7MW12S at 1J µg/L), at an estimated concentration less than the remedial goal (100 µg/L).

- 1,4-Dichlorobenzene and benzene were not detected in any samples collected during Round 2.

- Hexachlorobenzene was detected in only one Site 7 sample (7MW09S at 0.14J µg/L), at an estimated concentration less than the remedial goal (1 µg/L).

- The sample collected from Site 7 monitoring well 7MW13S was analyzed for PAHs. Benzo(a)anthracene was detected at a concentration of 0.27J µg/L in the duplicate sample collected from this well. This was above the remedial goal of 0.06 µg/L. The project laboratory was able to reach a method detection limit of 0.07 µg/L using the best available technology for benzo(a)anthracene in the sample from well 7MW13S. This detection limit is slightly higher than the remedial goal of 0.06 µg/L, which results in uncertainty as to whether the remedial goal was met in this sample. Because the detection limit and remedial goal are so close, it is unlikely that benzo(a)anthracene is present at a concentration greater than the remedial goal in the sample.

- Water quality parameter data (DO, ORP, pH, specific conductance, salinity, temperature, and turbidity) are also presented in Tables 3-1 and 3-2.

- As discussed in Section 1.1, because this is only an interim report, the evaluation of analytical results is limited to the above comparisons. No conclusions or recommendations are drawn based on these comparisons. An evaluation of the first four quarters of results, conclusions, and recommendations will be provided as part of the Year 1 Annual Groundwater Monitoring Report.

TABLE 3-1

SUMMARY OF ROUND 2 GROUNDWATER ANALYTICAL RESULTS FOR SITE 3
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

PARAMETER	REMEDIAL GOAL	2DMW16D	2DMW16S	2DMW25S	2DMW28D
Volatile Organics (µg/L)					
TRICHLOROETHENE	5	**7**	1 U	1 U	1 U
VINYL CHLORIDE	2	1 U	1 U	1 U	1 U
Field Parameters					
DISSOLVED OXYGEN (MG/L)	NC	4.29	1.7	7.6	0.22
OXIDATION REDUCTION POTENTIAL (MV)	NC	-102	1	314	-108
PH	NC	6.9	6.27	5.28	7.09
SALINITY (%)	NC	0.1	0	0	0
SPECIFIC CONDUCTANCE (MS/CM)	NC	1.92	0.716	0.267	0.483
TEMPERATURE (C°)	NC	15.13	15.43	17.69	13.15
TURBIDITY (NTU)	NC	1.7	2.02	0.26	1.37

TABLE 3-1

SUMMARY OF ROUND 2 GROUNDWATER ANALYTICAL RESULTS FOR SITE 3
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

PARAMETER	REMEDIAL GOAL	2DMW29S		3MW15I	3MW15S
		Sample	Duplicate		
Volatile Organics (µg/L)					
TRICHLOROETHENE	5	1 U	1 U	1 U	1 U
VINYL CHLORIDE	2	**9**	**10**	1 U	1 U
Field Parameters					
DISSOLVED OXYGEN (MG/L)	NC	1.37	-	1.09	7.58
OXIDATION REDUCTION POTENTIAL (MV)	NC	71	-	139	323
PH	NC	6.08	-	6.6	5.87
SALINITY (%)	NC	0	-	0	0
SPECIFIC CONDUCTANCE (MS/CM)	NC	0.383	-	0.657	0.336
TEMPERATURE (C°)	NC	15.97	-	13.67	13.6
TURBIDITY (NTU)	NC	6.95	-	328	0.76

TABLE 3-1

SUMMARY OF ROUND 2 GROUNDWATER ANALYTICAL RESULTS FOR SITE 3
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

PARAMETER	REMEDIAL GOAL	3MW16D	3MW16S
Volatile Organics (µg/L)			
TRICHLOROETHENE	5	2	1 U
VINYL CHLORIDE	2	1 U	1 U
Field Parameters			
DISSOLVED OXYGEN (MG/L)	NC	3.15	6.66
OXIDATION REDUCTION POTENTIAL (MV)	NC	29	159
PH	NC	8.13	6.96
SALINITY (%)	NC	0	0
SPECIFIC CONDUCTANCE (MS/CM)	NC	0.863	0.811
TEMPERATURE (C°)	NC	14.25	15.9
TURBIDITY (NTU)	NC	0.16	109

µg/L - Micrograms per liter.
mg/L - Milligrams per liter.
mV - Millivolts.
mS/cm - MilliSiemens per centimeter.
C° - Degrees Celsius.
NTU - Nephelometric turbidity units.
U - Nondetect.
NC - No criterion.

TABLE 3-2

SUMMARY OF ROUND 2 GROUNDWATER ANALYTICAL RESULTS FOR SITE 7
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

PARAMETER	REMEDIAL GOAL	7MW01D		7MW03I	7MW03S
		Sample	Duplicate		
Volatile Organics (µg/L)					
1,4-DICHLOROBENZENE	75	1 U	1 U	1 U	1 U
BENZENE	1	1 U	1 U	1 U	1 U
CHLOROBENZENE	100	1 U	1 U	1 U	1 U
TRICHLOROETHENE	5	1 U	1 U	1 U	1 U
Semivolatile Organics (µg/L)					
HEXACHLOROBENZENE	1	-	-	1 U	1 U
Polynuclear Aromatic Hydrocarbons (µg/L)					
BENZO(A)ANTHRACENE	0.06	-	-	-	-
BENZO(A)PYRENE	0.2	-	-	-	-
BENZO(B)FLUORANTHENE	0.08	-	-	-	-
INDENO(1,2,3-CD)PYRENE	0.5	-	-	-	-
Field Parameters					
DISSOLVED OXYGEN (MG/L)	NC	1.59	-	1.45	4.27
OXIDATION REDUCTION POTENTIAL (MV)	NC	209	-	112	182
PH	NC	6.39	-	6.23	6.27
SALINITY (%)	NC	0	-	0	0
SPECIFIC CONDUCTANCE (MS/CM)	NC	0.199	-	0.698	0.375
TEMPERATURE (C°)	NC	13.54	-	15.47	18.63
TURBIDITY (NTU)	NC	0.65	-	>999	0.35

TABLE 3-2

SUMMARY OF ROUND 2 GROUNDWATER ANALYTICAL RESULTS FOR SITE 7
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

PARAMETER	REMEDIAL GOAL	7MW05D	7MW09S	7MW12I	7MW12S
Volatile Organics (µg/L)					
1,4-DICHLOROBENZENE	75	1 U	1 U	1 U	1 U
BENZENE	1	1 U	1 U	1 U	1 U
CHLOROBENZENE	100	1 U	1 U	1 U	1 J
TRICHLOROETHENE	5	1	1 U	0.9 J	1 U
Semivolatile Organics (µg/L)					
HEXACHLOROBENZENE	1	-	0.14 J	1 U	1 U
Polynuclear Aromatic Hydrocarbons (µg/L)					
BENZO(A)ANTHRACENE	0.06	-	-	-	-
BENZO(A)PYRENE	0.2	-	-	-	-
BENZO(B)FLUORANTHENE	0.08	-	-	-	-
INDENO(1,2,3-CD)PYRENE	0.5	-	-	-	-
Field Parameters					
DISSOLVED OXYGEN (MG/L)	NC	8.02	1.65	2.49	5.28
OXIDATION REDUCTION POTENTIAL (MV)	NC	177	143	1	-71
PH	NC	7.22	6.06	6.53	6.38
SALINITY (%)	NC	0	0	0	0
SPECIFIC CONDUCTANCE (MS/CM)	NC	0.849	0.349	0.653	0.531
TEMPERATURE (C°)	NC	15.22	17.76	16.03	19.79
TURBIDITY (NTU)	NC	0.53	9.25	>1000	7.3

TABLE 3-2

SUMMARY OF ROUND 2 GROUNDWATER ANALYTICAL RESULTS FOR SITE 7
ROUND 2 GROUNDWATER MONITORING REPORT FOR SITES 3 AND 7
NSB-NLON, GROTON, CONNECTICUT

PARAMETER	REMEDIAL GOAL	7MW13S	
		Sample	Duplicate
Volatile Organics (µg/L)			
1,4-DICHLOROBENZENE	75	-	-
BENZENE	1	-	-
CHLOROBENZENE	100	-	-
TRICHLOROETHENE	5	-	-
Semivolatile Organics (µg/L)			
HEXACHLOROBENZENE	1	1 U	1 U
Polynuclear Aromatic Hydrocarbons (µg/L)			
BENZO(A)ANTHRACENE	0.06	0.07 UJ	**0.27 J**
BENZO(A)PYRENE	0.2	0.05 U	0.05 U
BENZO(B)FLUORANTHENE	0.08	0.08 U	0.08 U
INDENO(1,2,3-CD)PYRENE	0.5	0.10 U	0.10 U
Field Parameters			
DISSOLVED OXYGEN (MG/L)	NC	10.86	-
OXIDATION REDUCTION POTENTIAL (MV)	NC	208	-
PH	NC	6.16	-
SALINITY (%)	NC	0	-
SPECIFIC CONDUCTANCE (MS/CM)	NC	6.454	-
TEMPERATURE (C°)	NC	19.05	-
TURBIDITY (NTU)	NC	3.59	-

µg/L - Micrograms per liter.
mg/L - Milligrams per liter.
mV - Millivolts.
mS/cm - MilliSiemens per centimeter.
C° - Degrees Celsius.
NTU - Nephelometric turbidity units.
U - Nondetect.
J - Estimated .
NC - No criterion.

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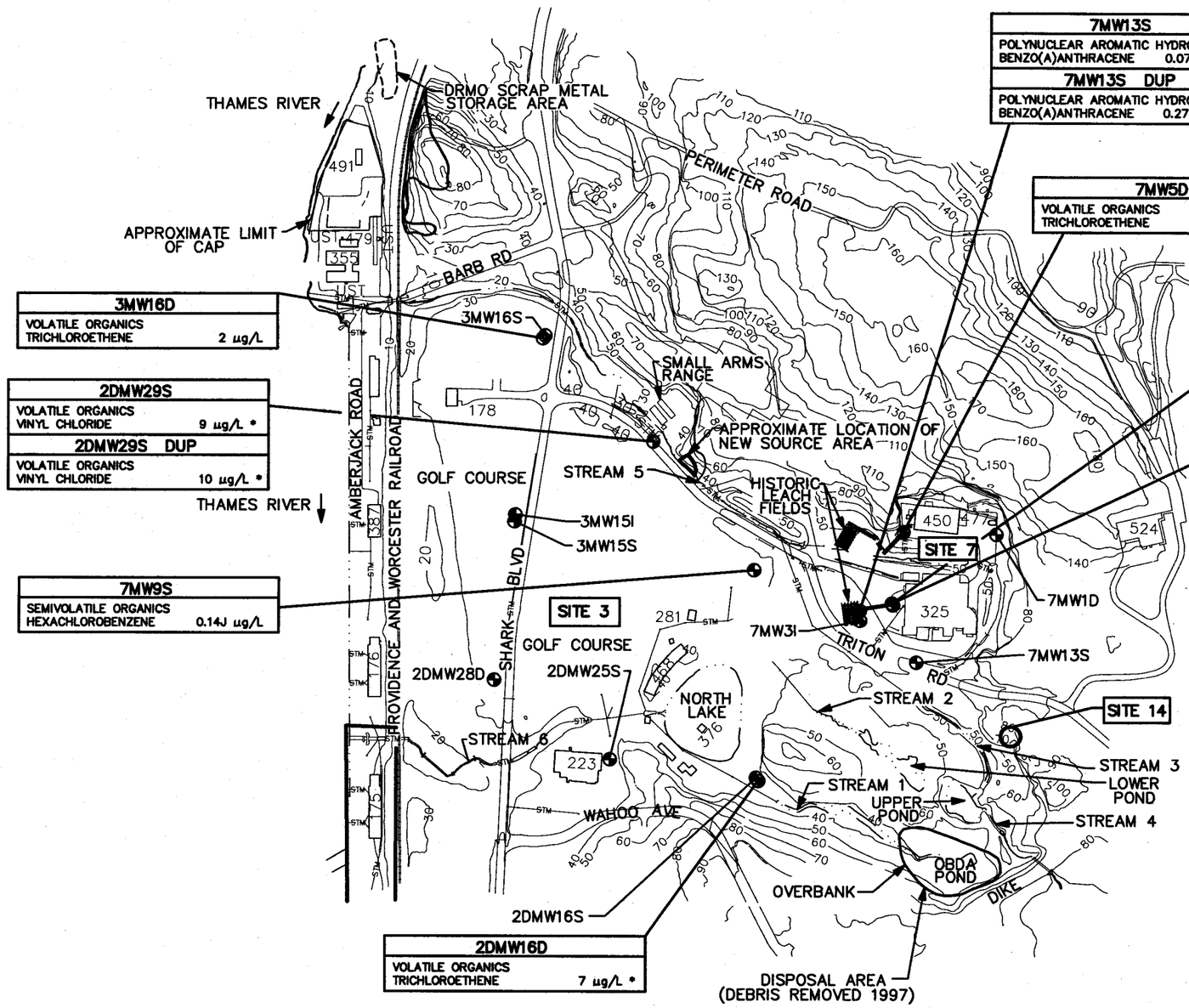

LEGEND:

⊕	MONITORING WELL
µg/L	MICROGRAMS PER LITER
VOCs	VOLATILE ORGANIC COMPOUNDS
5.7	CONCENTRATION
*	CONCENTRATION EXCEEDED MONITORING CRITERION
J	ESTIMATED
U	NON DETECT
—120—	GROUND SURFACE CONTOUR (BASE DATUM 1982)

NOTE:

1.) ORIGINAL FIGURE TAKEN FROM BASEWIDE GROUNDWATER OPERABLE UNIT REMEDIAL INVESTIGATION UPDATE/FEASIBILITY STUDY (TtNUS, 2004).

2.) NAVD 88 = 1982 BASE VERTICAL DATUM −2.39 FEET.

0 400 800
SCALE IN FEET

DRAWN BY DT	DATE 12/11/06	Tetra Tech NUS, Inc.	DETECTED CONCENTRATIONS ROUND 2 GROUNDWATER MONITORING SITES 3 AND 7 NSB-NLON, GROTON, CONNECTICUT
CHECKED BY	DATE		
REVISED BY	DATE		
SCALE AS NOTED			

CONTRACT NO. 0616
OWNER NO. 064
APPROVED BY CAR DATE 2/6/07
DRAWING NO. FIGURE 3-1
REV. 0

FORM CADD NO. TTNUS-BH.DWG – REV 1 – 9/10/98

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APPENDIX A

FIELD FORMS

A-1 FIELD ACTIVITES LOGBOOK

A-2 GROUNDWATER LEVEL MEASUREMENT SHEET

A-3 GROUNDWATER SAMPLE LOGSHEET AND LOW-FLOW PURGE DATA SHEET

A-4 CHAIN OF CUSTODY RECORDS

A-5 EQUIPMENT CALIBRATION LOGS

A-1 FIELD ACTIVITIES NOTEBOOK

Work continued from Page

CREW - S. HANEY (SH)
T. ROJAHN (TR)

ROUND 2 START

SITES 3 & 7

10/9/06

Contacts for Subase.

~~TSDF (IDW)~~
(Col)
✓ Tony Leite (Cell 860-625-7386)
Linda Tirrell (860-694-4298)

~~NSSF Weapons.~~

LCDR Stronach 860-694-2656

Theresa Lewis (NSSF Env. 860 ~~964~~ 69-5412 B-325&450

Lt. ~~Mark~~ J.G. Dunning - 2658

Gate passes.

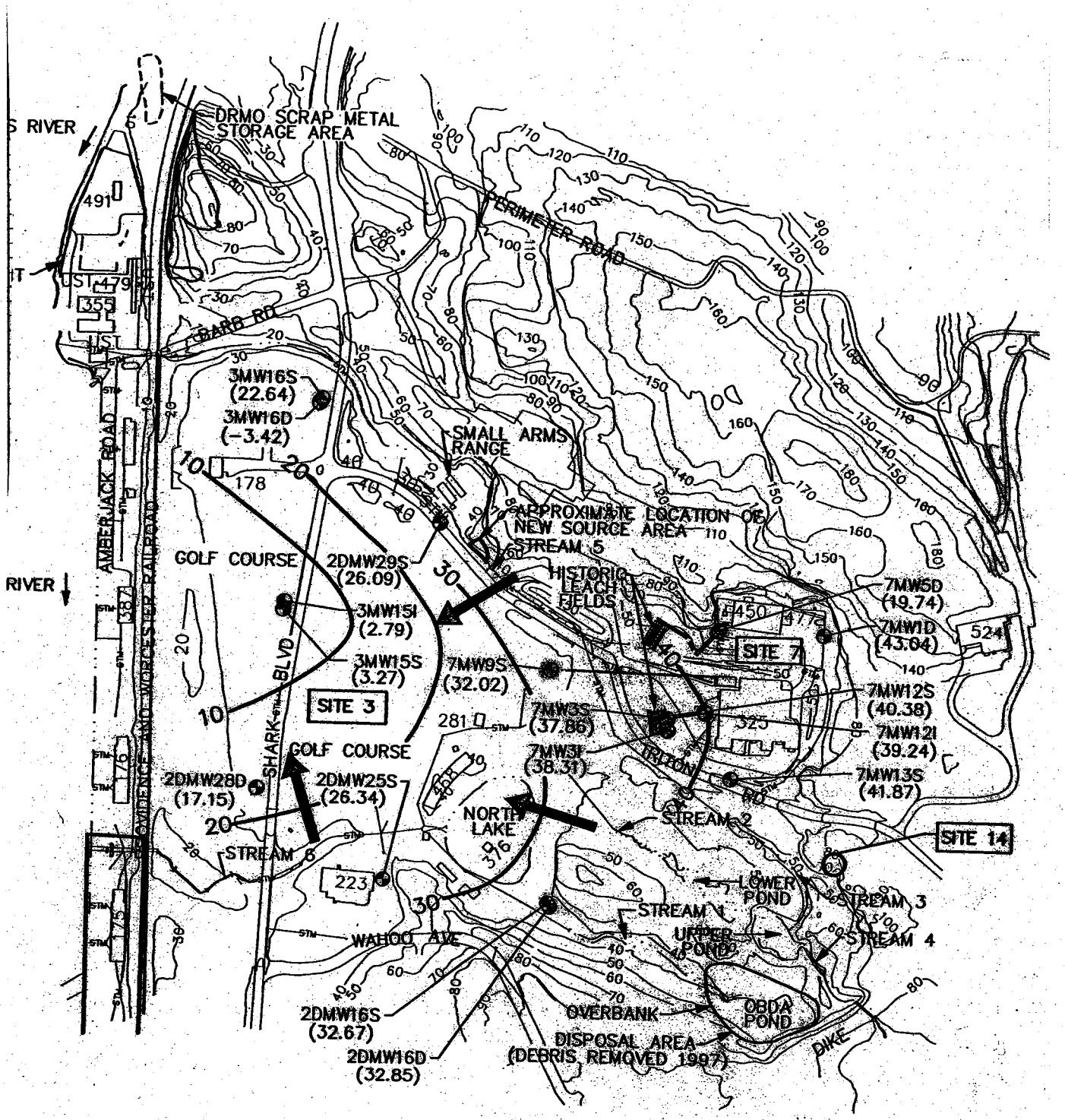
✓ You can try Steve Meagher at 860-694-4912 or call us in Env.
(Mayor) Dick

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE Terry Rojahn DATE 10/9/06

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE



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Tetra Tech NUS, Inc.

SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

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	Sample ID	Location	4°C/HCl	4°C	
			VOCs OLCO2.1, CLP	SVOCs SW-846 8270C	SVOCs & PAHs 8270C &8310,HPLC
	S3GW2DMW16S02	2DMW16S ✓	[redacted]	[redacted]	[redacted]
	S3GW2DMW16D02	2DMW16D ✓	[redacted]	[redacted]	[redacted]
	S3GW2DMW25S02	2DMW25S	[redacted]	[redacted]	[redacted]
	S3GW2DMW28D02	2DMW28D	[redacted]	[redacted]	[redacted]
	S3GW2DMW29S02	2DMW29S	[redacted]	[redacted]	[redacted]
	S3GW3MW15S02	3MW15S ✓	[redacted]	[redacted]	[redacted]
	S3GW3MW15I02	3MW15I ✓	[redacted]	[redacted]	[redacted]
	S3GW3MW16S02	3MW16S ✓	[redacted]	[redacted]	[redacted]
	S3GW3MW16D02	3MW16D ✓	[redacted]	[redacted]	[redacted]
MS/MSD & DUP	S7GW7MW1D02	7MW1D ✓	[redacted]	[redacted]	[redacted]
	S7GW7MW3S02	7MW3S ✓	[redacted]	[redacted]	[redacted]
	S7GW7MW5D02	7MW5D ✓	[redacted]	[redacted]	[redacted]
	S7GW7MW9S02	7MW9S	[redacted]	[redacted]	[redacted]
	S7GW7MW3I02	7MW3I ✓	[redacted]	[redacted]	[redacted]
	S7GW7MW12S02	7MW12S ✓	[redacted]	[redacted]	[redacted]
	S7GW7MW12I02	7MW12I ✓	[redacted]	[redacted]	[redacted]
MS/MSD - & DUP	S7GW7MW13S02	7MW13S	[redacted]	[redacted]	[redacted]

PROJECT: G00616
LOCATION: NSB New London
CTO: 038
MATRIX: GW
LABORATORY: Katahdin
Please print up 4 extra sheet sets with blank IDs for QA/QC and 1 sets of Trip Blank Sheets
Charge number: 112G00616 R2 Sampling
Need order by: 10/6/2006

Number of labels needed: [redacted]

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE [signature] DATE 10/9/06

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE

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SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

TITLE NSB NLON SITE 3 & 7 MON 10-09-06

CREW S. HANEY T. ROJAHN

PROJECT NO. 0616

BOOK NO. 1398

Work continued from Page

1136 HRS - CHECK IN to BEST WESTERN
1205 HRS - LUNCH @ HOTEL
1240 HRS - LEFT FOR NEW ENGLAND BARREL Co.
1325 HRS - PURCHASE 6 55gal BUNG DRUMS IN North HAVEN
1540 HRS - PURCHASE 2 Cylinders of NITROGEN GAS
1618 HRS - PURCHASE SUPPLIES @ WAL-MART IN GROTON
1706 HRS - PURCHASE SUPPLIES @ LOWE'S IN NEW LONDON
1730 HRS - RETURN to MOTEL

END

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE Tony Rojahn

DATE 10/9/06

DISCLOSED TO AND UNDERSTOOD BY | **DATE** | **WITNESS** | **DATE**

B 100 P ©

SAMPLE SUMMARY 10/10/06

SAMPLE ID	PURGE START	PURGE END	VOL PURGED	SAMPLE TIME	COMMENTS
S7GW7MW3I02	1405	1515	15.3 L	1520	TR
S7GW7MW3S02	1359	1509	14.0 L	1524	SH
S3GW2DMW16D02	1738	1847	14.0 L	1850	SH
S3GW2DMW16S02	1730	1850	12.5 L	1855	TR

Also, complete ground water measurements this date @ sites 3 & 7.

BLDG - 562 (TSDF) - Linda Tirrell Contact
OFFICE Hrs 7:00 - 3:30

SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

TUES 10-10-06

Work continued from Page

WEATHER - SUNNY and MILD TEMP 60s

0800 HRS - ARRIVE @ TRUCK GATE PER MR STEVE MEAGHER'S INSTRUCTION
OBTAIN 1 DAY PASS; WILL HAVE WEEK PASS TOMORROW

0815 HRS - CHECK IN W/ MR RICHARD CONANT (RC) @ B-439
- RC tried to track down TONY LEITE - UNSUCCESSFULLY
- RC then talked to ~~THERESA~~ (TR) LINDA TIRRELL FOR drum STORAGE SPACE - LINDA'S OFFICE IS @ B-562 / TSDF

0905 HRS - DROP OFF 6 Steel Bong drums @ HAZ WASTE STORAGE INSIDE LOCKER

0925 HRS - RETURN to B-439 PICKUP EQ AND SAMPLE CONTAINERS

0950 HRS - ARRIVE @ FIELD TRAILER NEAR BULK STORAGE AREA
- OPEN EQ. PACKAGES & PREP VEHICLES FOR SAMPLING

1030 HRS - ARRIVE @ TORPEDO SHOPES
- GET Badged @ GATE
- FIND monitoring WELL 7MW1D (covered w/ vegatation)
- MEAS. water levels @ 7MW1D & 5D
- FIND MONITORING WELL 7MW3S

1135 HRS - LEAVE TORPEDO SHOPES FOR LUNCH

1215 HRS - PICK UP ICE

1230 HRS - ARRIVE @ FIELD TRAILER
- PREP to SAMPLE GW
- CALI. METERS
- SAMPLE monitoring WELLS 7MW3S & 3I and 20MW16S & 16D SEE PAGE 82 FOR DETAILES
- COMPLETE GROUND WATER MEASUREMENTS @ SITES 3 & 7 SEE GW LEVEL MEASUREMENT SHEET

1915 HRS - FINISH CLEAN UP @ monitoring WELLS 20MW16S & 16D

1930 HRS - DROP OFF PURGE WATER @ FIELD TRAILER WILL TRANSFER to DRUMS @ HAZ. WASTE Storage tomorrow

1945 HRS - LEAVE BASE FOR Hotel - PICK UP Additional ICE

END

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE Ted Rosik
DATE 10-10-06
DISCLOSED TO AND UNDERSTOOD BY
DATE
WITNESS
DATE

SAMPLE SUMMARY 10-11-06:

SAMPLE ID	PURGE START	PURGE END	VOL PURGE	SAMPLE TIME	COMMENTS
S7GW7MW12S02	0907	1002	16.6L	1008	(SH)
S7GW7MW12I02	0955	1015	16.0L	1020	(TR)
S7GW7MW1D02	1068	1203	19L	1205	(TR)
S7GW7MW5002	1118	1253	15.5L	1305	(SH)
S3GW3MW15S02	1515	1620	13L	1625	(TR)
S3GW3MW16D02	1515	1640	12.75L	1640	(SH)
S3GW3MW15I02	1640	1810	17.4	1815	(TR)
S3GW3MW16S02	1513	1543	9L	10/12/06	(SH)

SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

TITLE NSB NLON SITES 3 & 7 **PROJECT NO.** 0616 **BOOK NO.** 1398

WED 10-11-06

Work continued from Page WEATHER - OVERCAST & 60°S

0645 Hrs - ARRIVE @ TRUCK GATE FOR INSPECTION and WEEK PASS
- PICK UP ICE ON BASE
- PICK UP Purge WATER & SUPPLIES @ FIELD TRAILER

0740 Hrs - ARRIVE @ B-562 DROP OFF WASTE WATER @ Storage Unit

0806 Hrs - Sign out @ B-562

0830 Hrs - ARRIVE @ Torpedo Shop / Site 7; get passes
SAMPLE monitoring WELLS 7MW12S, 12I, 5D & 1D SEE page 84 FOR additional INFORMATION

1250 Hrs - LEFT SITE 7 FOR WASTE Disposal Area B-562

1255 Hrs - ARRIVE @ B-562
- DROP OFF ground water purged @ Site 7

1316 Hrs - CHECK out @ B-562

1326 Hrs - MEET S. Haney

1340 Hrs - LUNCH

1415 Hrs - ARRIVE @ AIRGAS - PICK UP FULL NITROGEN cylinders drop off EMPTIES

1440 Hrs - ARRIVE @ GOLF COURSE - TALKED to SCOTT SKINNER OK to sample WELLS (only two golfers on course)
SAMPLE monitoring WELLS 3MW16S, 16D, 15S & 15I SEE PAGE 84 FOR DETAILES

1847 Hrs - Finish sampling at Golf Course this date

1855 Hrs - LEAVE BASE FOR MOTEL

END

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE		DATE
Ted Rogers		10-11-06
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

SAMPLE SUMMARY 10-12-06

SAMPLE ID	PURGE START	PURGE END	VOL PURGED	SAMPLE TIME	COMMENTS
S3GW3MW16S02	10-11-06		9L	0729	(SH)
S3GW2DMW29S02	0820	0910	15L	0915	(TR) ED10120602
S7GW7MW13S02	0843	1003	24L	1003	(SH) MS/MSD & ED10120601
S7GW7MW9S02	0945	1045	13L	1050	(TR)
S3GW2DMW28D02				1330	(TR)
S3GW2DMW25S02	1224	1334	14L	1334	(SH)

SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

THURS 10-12-06

Work continued from Page WEATHER - OVERCAST and 60's

0635 Hrs - ARRIVE @ TRUCK GATE - OBTAIN PASS, GET INSPECTED
0713 Hrs - DROP OFF PURGE WATER @ TSDF
0726 Hrs - SIGN OUT @ B-562
0730 Hrs - ARRIVE @ FIELD TRAILER - PICK UP SAMPLE CONTAINERS
0800 Hrs - PREP to SAMPLE monitoring wells @ SITES 3 & 7
(monitoring wells 7MW135 & 9S and 20MW29S and
FINISH 3MW16S (purged p/h)) SEE page 86 FOR details
1119 Hrs - DROP OFF PURGE WATER @ TSDF
1132 Hrs - SIGN OUT @ TSDF / B-562
1140 Hrs - LUNCH
1210 Hrs - RETURN to SITE 3 to SAMPLE 20MW25S & 28D
SEE PAGE 86 FOR DETAILS
1400 Hrs - FINISH @ SITE 3
1410 Hrs - RETURN to FIELD trailer
- PREP SAMPLES FOR SHIPMENT to KATAHDIN LAB on
FED. EX AB# 8494 1921 4438 (COC #s 4484 & 4485)
- PREP EQ to RETURN to U.S. ENVIRONMENTAL ON
AB# 8494 1921 4416
- PREP EQ to RETURN to TNLIS WAREHOUSE ON
AB# 8494 1921 4449
1717 Hrs - DROP OFF SAMPLES @ FED. EX w/ EQUIPMENT
SEE ABOVE FOR FED EX AB#
1755 Hrs - ARRIVE @ MOTEL

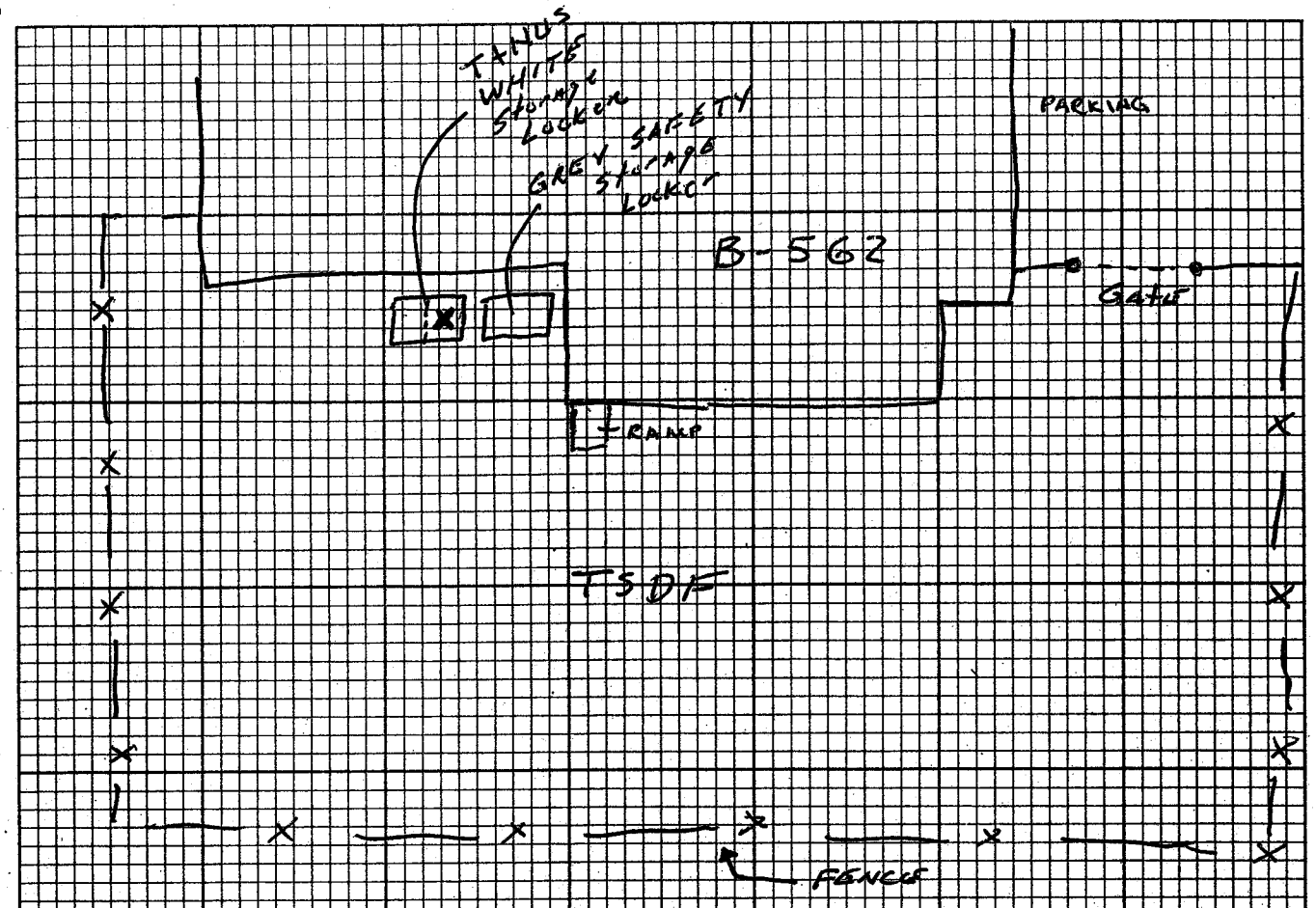
END

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE Terry [illegible] DATE 10-12-06

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE



✖ location of drums

SEE Drum sample INFO ON PAGE 91.

SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

TITLE NSB-NLON SITES 3 & 7

PROJECT NO. 0616

BOOK NO. 1398

FRI 10-13-06

Work continued from Page

0700 Hrs - Arrive @ Truck Gate

0755 Hrs - Meet Randy Rose of Global Remediation Services

0809 Hrs - Check in @ B-562 / TSDF w/ R. Rose

Sample Drums 1 & 2, see map on P. 88 for drum locations

0855 Hrs - checked out of B-562/TSDF

0910 Hrs - Arrive @ Field Trailer

- Clean up Trailer

1000 Hrs - Meet w/ D. Conant - drop off trailer key & say good bye

1030 Hrs - Remainder of the day Travel

Flight was delayed 66 mins @ TF Green Airport

END left " " " @ 1640 Hrs

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605 MADE IN USA

Work continued to Page

SIGNATURE [signature]

DATE 10-13-16

DISCLOSED TO AND UNDERSTOOD BY | **DATE** | **WITNESS** | **DATE**

Drums 1 & 2 composite sample
INFO FROM 10-13-06

RAND ROSE OF Global - Sampler

SCIENTIFIC BINDERY PRODUCTS., CHICAGO 60605 MADE IN USA

Job # _____ WORKSHEET P.O.# _____

Day & Date Fri 10-13-06

Contact Person Terry

Telephone _____

Client Tetra Tech NUS

Billing Address _____

Attn: _____

GLOBAL

T&M ☐ RATE ☐

Contract ☐ RATE ☐

Start Time 5:30A

On-Site Time 7:30A - 9A

Ending Time _____

Job Location Groton Sub Base Groton CT

LABOR

Name	Title	ST	OT	DT
	Project Manager			
	Supervisor			
	Foreman			
	Field Technician			
Randy Rose	Field Technician			
	Equip. Operator			
	Equip. Operator			
	Truck Driver			
	Truck Driver			

EQUIPMENT

Qty.	Type	Fleet#	# of hours	Day Rate
1	H.D. pickup /Box	R9		
	Van			
	Dump Truck			
	Tractor			
	Vacuum Truck			
	Backhoe			
	Excavator			
	Bobcat w/			
	Compressor			
	Rolloff Can			

DISPOSAL

Destination

Truck#	Amount	Manifest #

MATERIAL

Qty:	Description
	Level C ☐ Level B ☐

Qty:	Description

JOB DESCRIPTION

Provided Services to take Composite Samples of 2 drums and drop off Samples at lab.

JOB COMPLETED YES ☒ NO ☐

ANALYSIS

Qty	Type	Destination

SUBCONTRACTORS

Name of Company	Description

Signature: [signature]

Date: 10-13-06

Customer: TETRA TECH NUS, INC.
(Company Name)

By: [signature]
(Signature)

TERRY ROSAHN
(Print Name)

SR FIELD TECH
(Title)

Date: 10-13-06

ENVIRONMENTAL/ CONSTRUCTION/ TRANSPORTATION

A-2 GROUNDWATER LEVEL MEASUREMENT SHEET

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NSB New London
Project No.: G00616, CTO 064
Location: Site 3 and 7
Personnel: S. Haney & T. Rojahn
Weather Conditions: Sunny and mild, Temp 60s
Measuring Device: Water Level Indicator
Tidally Influenced: Yes ____ No __X__
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Reading (feet)*	Thickness of Product (feet)*	Groundwater Elevation (feet)*	Comments
2DMW16S	10/10/2006	1725			6.63			
2DMW16D	10/10/2006	1738			6.25			6" Steel Riser
2DMW25S	10/10/2006	1709			8.62			
2DMW28D	10/10/2006	1701			16.95			6" Steel Riser
2DMW29S	10/10/2006	1630			10.1			
3MW15S	10/10/2006	1653			29.1			
3MW15I	10/10/2006	1651			30.74			
3MW16S	10/10/2006	1643			15.43			
3MW16D	10/10/2006	1638			22.16			
7MW1D	10/10/2006	1048			9.87			6" Steel Riser
7MW3S	10/10/2006	1354			6.26			
7MW5D	10/10/2006	1059			12.28			
7MW9S	10/10/2006	1626			5.42			
7MW3I	10/10/2006	1352			8.11			Pump stuck in sedi.
7MW12S	10/10/2006	1614			4.12			
7MW12I	10/10/2006	1615			5.55			
7MW13S	10/10/2006	1618			9.77			

* All measurements to the nearest 0.01 foot @ TOR.

A-3 GROUNDWATER SAMPLE LOGSHEETS AND LOW-FLOW PURGE DATA SHEET

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW2DMW16S02
Sample Location: 2DMW16S
Sampled By: T. Rohhn
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-10-06	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ Sal ~~NA~~ %
Time: 1855								
Method: Dedicated Bladder Pump	Clear	6.27	0.716	15.43	2.02	1.70	1	0.0

PURGE DATA:

Date: 10-10-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 26.76'								
Static Water Level (WL): 6.65								
One ~~Casing~~ Sat. Screen Volume(gal/L): 6.2								
Start Purge (hrs): 1730								
End Purge (hrs): 1850								
Total Purge Time (min): 80								
Total Vol. Purged (gal/L): 12.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES / NO

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s): Tony Rohhn

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 2DMW16S
DATE: 10-10-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1730	6.83	200	NA	—					→	0 Rusty
1740	6.68	200	5.77	0.662	20.9	2.83	15.62	0.0	65	2000 CLEAR
1750	6.63	150	5.87	0.688	10.9	2.23	15.63	0.0	50	3500 "
1800	6.63	150	6.12	0.698	7.57	1.93	15.56	0.0	28	5000 "
1810	6.63	150	6.18	0.706	2.76	1.77	15.53	0.0	21	6500 "
1820	6.63	150	6.23	0.711	2.10	2.17	15.51	0.0	10	8000 "
1830	6.63	150	6.24	0.716	1.76	1.88	15.47	0.0	4	9500 "
1840	6.63	150	6.25	0.716	1.96	1.76	15.45	0.0	2	11000 "
1850	6.63	150	6.27	0.716	2.02	1.70	15.43	0.0	1	12500 "
1865	—	—	—	—	—	—	—	—	—	start SAMPLING

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW2DMW16D02
Sample Location: 2DMW16D
Sampled By: HANEY
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/10/06	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other NA
Time: 1850								
Method: Dedicated Bladder Pump	Clear	6.90	1.92	15.13	1.7	4.29	-102	

PURGE DATA:

Date: 10/10/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material Type: 2in Dia. ~~PVC~~ STEEL			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 61.80'								
Static Water Level (WL): 6.25								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1737								
End Purge (hrs): 1847								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 14L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 2DMW16D
DATE: 10/10/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1737	6.25									start purge
1747	6.57	200	6.68	1.82	11.0	12.94	16.01	0.1	-74	2L / mod. turbid
1757	6.76	200	6.75	1.86	6.0	10.67	15.42	0.1	-84	4L / clear
1807	6.93	200	6.81	1.87	3.2	8.97	15.25	0.1	-89	6L / clear
1817	7.09	200	6.86	1.88	5.1	4.66	14.98	0.1	-92	8L / clear
1827	7.23	200	6.90	1.92	1.7	5.39	14.82	0.1	-97	10L / clear
1837	7.28	200	6.90	1.92	3.7	4.74	14.94	0.1	-100	12L / clear
1847	7.29	200	6.90	1.92	1.7	4.29	15.13	0.1	-102	14L / clear
1850										start sampling

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR): 61.80
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 03864

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW2DMW25S02
Sample Location: 2DMW25S
Sampled By: Haney
C.O.C. No.: 4485
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/12/06	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 0134 / 1334	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	NA
Method: Dedicated Bladder Pump	clear	5.28	0.267	17.69	0.26	7.60	314	

PURGE DATA:

Date: 10/12/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 12.52'								
Static Water Level (WL): 7.76								
One Casing Volume(gal/L): 6.2								
Start Purge (hrs): 1224								
End Purge (hrs): 0134								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 14L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.: —	Signature(s):
		[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 2DMW25S
DATE: 10/12/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1224	7.76	200								begin purge, [redacted] turbid
1234	8.11	200	5.32	0.175	61.2	19.77	19.70	0.0	284	2 L / [redacted] turbid
1244	8.20	200	5.06	0.169	21.9	13.21	18.96	0.0	300	4 L / turbid
1254	8.31	200	5.03	0.197	5.67	10.68	18.44	0.0	310	6 L / clear
0104	8.50	200	5.09	0.215	1.08	9.69	18.08	0.0	315	8 L / clear
0114	8.68	200	5.17	0.233	1.38	8.97	17.84	0.0	320	10 L / clear
0124	8.70	200	5.24	0.247	0.00	8.32	17.85	0.0	316	12 L / clear
0134	8.64	200	5.28	0.267	0.26	7.60	17.69	0.0	314	14 L / clear
0134										sampled

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR): 12.52
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW2DMW28D02
Sample Location: 2DMW28D
Sampled By: T. Rosahn
C.O.C. No.: 4485
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL ~~NA~~ %
Date: 10-12-06								
Time: 1330								
Method: Dedicated Bladder Pump	CLEAR	7.09	0.483	13.15	1.37	0.22	-108	0.0

PURGE DATA:

Date: 10-12-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material Type: ~~2~~ 6 in Dia. ~~PVC~~ steel	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 133.20'								
Static Water Level (WL): 16.45								
One Casing Volume(gal/L): –								
Start Purge (hrs): 1230								
End Purge (hrs): 1325								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Sampled consistant w/ Round 1 - when parameters (water quality) stablize.

Circle If Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s): [signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 2DMW28D
DATE: 10-12-06

Time (Hrs)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)	
1230	16.85	0	NA	—	—	—	—	—	→	0	CLEAR
1240	17.15	300	6.75	0.478	2.69	1.99	13.44	0.0	-74	3000	"
1250	17.40	300	6.79	0.485	1.63	1.63	13.24	0.0	-86	6000	"
1300	17.78	300	6.78	0.489	1.34	1.35	12.98	0.0	-103	9000	"
1310	17.85	300	7.01	0.485	1.29	0.32	12.92	0.0	-104	12000	"
1320	17.80	200	7.07	0.471	1.33	0.26	13.10	0.0	-108	18000	"
1325	17.78	200	7.09	0.483	1.37	0.22	13.15	0.0	-108	15000	"
1330	—	—	—	—	—	—	—	—	—	SAMPLE TIME	

SIGNATURE(S): Terry Rogers

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW2DMW29S02
Sample Location: 2DMW29S
Sampled By: T. ROJAHN
C.O.C. No.: 4485
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-12-06	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL ~~NA~~ %
Time: 0915								
Method: Dedicated Bladder Pump	CLEAR	6.08	0.383	15.97	6.95	1.37	71	0.0

PURGE DATA:

Date: 10-12-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 17.92'								
Static Water Level (WL): 9.93								
One ~~Casing~~ SAT SCREEN Volume(gal/L): 6.2								
Start Purge (hrs): 0820								
End Purge (hrs): 0910								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	FD10120602	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 2DMW29S
DATE: 10-12-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
0820	9.93	0	NA	—	—	—	—	—	—	0 Rusty
0830	10.85	300	6.03	0.383	110	2.26	16.33	0.0	86	3000 Orange Floaters
0840	10.85	300	6.05	0.382	20.4	1.75	16.12	0.0	80	6000 CLEAR
0850	10.85	300	6.07	0.381	7.04	1.49	16.00	0.0	74	9000 "
0900	10.85	300	6.07	0.382	9.02	1.42	16.07	0.0	71	12000 "
0910	10.85	300	6.08	0.383	6.95	1.37	15.97	0.0	71	15000 "
0915	—	—	—	—	—	—	—	—	—	SAMPLE TIME

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW3MW15S02
Sample Location: 3MW15S
Sampled By: T. Rojahn
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL % NA
Date: 10-11-06								
Time: 1625								
Method: Dedicated Bladder Pump	CLEAR	5.87	0.336	13.60	0.76	7.58	323	0.0

PURGE DATA:

Date: 10-11-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 38.05'								
Static Water Level (WL): 29.10								
One ~~Casing~~ SAT. SCREEN Volume(gal/L): 6.2								
Start Purge (hrs): 1515								
End Purge (hrs): 1620								
Total Purge Time (min): 65								
Total Vol. Purged (gal/L): 13								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	Terry Rojahn

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 3MW155
DATE: 10-11-06

Time (Hrs)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1515	29.10	0	NA	—	—	—	—	—	→	0 CLEAR
1525	29.11	200	5.93	0.376	3.32	8.81	14.10	0.0	325	2000 "
1535	29.11	200	5.68	0.340	4.42	8.06	13.72	0.0	334	4000 "
1545	29.11	200	5.66	0.330	5.20	7.99	13.66	0.0	333	6000 "
1555	29.11	200	5.76	0.333	6.40	7.74	13.66	0.0	327	8000 "
1605	29.11	200	5.85	0.336	1.70	7.65	13.59	0.0	324	10000 "
1615	29.11	200	5.88	0.336	1.75	7.60	13.57	0.0	323	12000 "
1620	29.11	200	5.87	0.336	0.76	7.58	13.60	0.0	323	13000 "
1625	—	—	—	—	—	—	—	—	—	START SAMPLING

SIGNATURE(S): Terry R Gatch

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW3MW15I02
Sample Location: 3MW15I
Sampled By: T. ROJAHN
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-11-06	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL ~~NA~~ %
Time: 1815								
Method: Dedicated Bladder Pump	Cloudy	6.60	0.657	13.67	328	1.09	159	0.0

PURGE DATA:

Date: 10-11-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 65.10'								
Static Water Level (WL): 30.72								
One ~~Casing~~ SAT. SCREEN Volume(gal/L): 6.2								
Start Purge (hrs): 1640								
End Purge (hrs): 1810								
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 17.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	Tey Rojahn

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 3MW15I
DATE: 10-11-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1640	30.72	0	NA	—	—	—	—	—	→	0 V. Sl. Cloudy
1650	31.60	200	6.55	0.619	96.2	1.78	13.98	0.0	187	2000 " " "
1700	31.72	200	6.53	0.619	237	1.49	13.73	0.0	167	4000 Sl Cloudy
1710	31.72	200	6.55	0.634	310	1.32	13.63	0.0	154	6000 " "
1720	31.75	200	6.57	0.640	450	1.20	13.46	0.0	147	8000 CLOUDY
1730	31.97	250	6.59	0.644	554	1.15	13.31	0.0	140	10500 "
1740	31.72	200	6.59	0.652	337	1.13	13.59	0.0	139	12500 "
1750	31.65	170	6.60	0.653	312	1.14	13.71	0.0	138	14200 "
1800	31.62	170	6.60	0.654	291	1.12	13.70	0.0	138	15900 "
1810	31.60	150	6.60	0.657	328	1.09	13.67	0.0	139	17400 "
1815	—	—	—	—	—	—	—	—	—	SAMPLE TIME

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW3MW16S02
Sample Location: 3MW16S
Sampled By: Haney
C.O.C. No.: 4485
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/12/06	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 0723	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	NA
Method: Dedicated Bladder Pump	Clear	6.96	0.311	15.90	109	6.66	159	

PURGE DATA:

Date: 10/11/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 26.76'								
Static Water Level (WL): 15.46								
One ~~Casing~~ Sat. Screen Volume(gal/L): 6.2								
Start Purge (hrs): 1513								
End Purge (hrs): 1543								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 9 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

sampled water clearer on 10/12/06 - less turbidity

Circle if Applicable:

MS/MSD

Duplicate ID No.: —

Signature(s): Stephanie Haney

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 3MW165
DATE: 10/11/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
15:13	15.46									begin purge
15:23	18.02	300	7.09	0.287	161	10.93	17.16	0.0	184	3L / turbid
15:33	19.94	300	6.88	0.303	137	7.11	16.45	0.0	183	6L / turbid
15:43	below pump	300	6.96	0.311	109	6.66	15.90	0.0	159	9L / turbid (slightly)
15:53										
			will sample 10/12/06 upon recovery							

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR): 26.76
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 3
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S3GW3MW16D02
Sample Location: 3MW16D
Sampled By: Haney
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other NA
Date: 10/11/06								
Time: 1640								
Method: Dedicated Bladder Pump	clear	8.13	0.863	14.25	0.16	3.15	29	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 10/11/06								
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 69.20'								
Static Water Level (WL): 22.21								
One Casing Volume(gal/L): 6.2 (Int. Screen)								
Start Purge (hrs): 1515								
End Purge (hrs): 1640								
Total Purge Time (min): 85								
Total Vol. Purged (gal/L): 12.75L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD

Duplicate ID No.: —

Signature(s): [signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 3
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 3MW16D
DATE: 10/11/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1515	22.21									Start purge
1525	24.17	150	8.57	0.830	4.92	11.88	16.41	0.0	-65	1.5 L/clear
1535	25.93	150	8.41	0.929	~~5.32~~ 4.90	5.52	15.74	0.0	-121	3.0 L/clear
1545	27.73	150	8.36	0.992	10.48	4.34	15.39	0.0	-113	4.5 L/clear
1555	29.71	150	8.23	0.996	0.65	3.87	15.14	0.0	-56	6.0 L/clear
1605	31.34	150	8.13	0.931	1.01	3.76	14.97	0.0	-26	7.5 L/clear
1615	32.91	150	8.07	0.912	0.48	3.56	14.89	0.0	-3	9.0 L/clear
1625	35.24	150	8.04	0.896	0.74	3.27	14.36	0.0	12	10.5 L/clear
1635	38.06	150	8.09	0.872	0.50	3.16	14.22	0.0	24	12.0 L/clear
1640	39.52	150	8.13	0.863	0.16	3.15	14.25	0.0	29	12.75 L/clear
1640										sampled

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR): ~~71.90~~ 69.20
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW1D02
Sample Location: 7MW1D
Sampled By: T. Rojahn
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL ~~NA~~ %
Date: 10-11-06								
Time: 1205								
Method: Dedicated Bladder Pump	CLEAR	6.39	0.199	13.54	0.65	1.59	209	0.0

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 10-11-06								
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material Type: ~~2~~ 6 in Dia. ~~PVC~~ STEEL	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 24.30'								
Static Water Level (WL): 9.85								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 10:58								
End Purge (hrs): 12:03								
Total Purge Time (min): 65								
Total Vol. Purged (gal/L): 19								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Sampled consistant w/ Round 1 - when water quality parameters were stable

Circle If Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
YES	FD10110601	Ty Rojahn

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW1D
DATE: 10-11-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1058	9.85	0	NA	—	—	—	—	—	→	0 CLEAR
1108	9.85	300	6.32	0.197	1.83	2.05	13.56	0.0	204	3000 "
1118	9.85	250	6.37	0.202	1.02	1.76	13.52	0.0	207	5500 "
1128	9.85	300	6.40	0.202	0.70	1.69	13.41	0.0	210	8500 "
1138	9.85	300	6.41	0.201	0.70	1.64	13.41	0.0	211	11500 "
1148	9.85	300	6.40	0.200	0.72	1.61	13.56	0.0	216	14500 "
1158	9.85	300	6.39	0.199	0.68	1.59	13.52	0.0	210	17500 "
1203	9.85	300	6.39	0.199	0.65	1.59	13.54	0.0	209	19000 "
1205	—	—	—	—	—	—	—	—	—	SAMPLE TIME

SIGNATURE(S): Tuy Nguyl

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW3S02
Sample Location: 7MW3S
Sampled By: Haney
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/10/06 Time: 1524 Method: Dedicated Bladder Pump	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other NA
	clear	6.27	0.375	18.63	0.35	4.27	122	—

PURGE DATA:

Date: 10/10/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 18.72'								
Static Water Level (WL): 6.71								
One ~~Casing~~ Sat Screen Volume(gal/L): 6.2L								
Start Purge (hrs): 1359								
End Purge (hrs): 1509								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 14.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES
TCL SVOCs	4°C	(2) 1L Glass Amber	YES

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW35
DATE: 10/10/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
13:59	6.26									start purge, clear
14:09	6.54	180	6.01	0.380	1.2	10.04	20.28	0.0	163	1.8 L/clear
14:19	6.54	180	6.01	0.375	0.60	6.86	19.78	0.0	145	3.6 L/clear
14:29	6.60	180	6.06	0.375	0.50	5.97	19.48	0.0	139	5.4 L/clear
14:39	6.63	220	6.06	0.374	0.20	5.32	18.96	0.0	135	7.4 L/clear
14:49	6.66	220	6.12	0.375	0.50	4.92	18.52	0.0	131	9.6 L/clear
14:59	6.63	220	6.22	0.375	0.15	4.45	18.76	0.0	127	11.8 L/clear
15:09	6.71	220	6.27	0.375	0.85	4.27	18.63	0.0	122	14.0 L/clear
15:24										begin sampling

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW3I02
Sample Location: 7MW3I
Sampled By: T. ROJAHN
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-10-06	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL ~~NA~~ ‰
Time: 1520								
Method: Dedicated Bladder Pump	BRN	6.23	0.698	15.47	999+	1.45	112	0.0

PURGE DATA:

Date: 10/10/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 34.75'								
Static Water Level (WL): 8.11								
One ~~Casing~~ SAT. SCREEN Volume(gal/L): 6.2								
Start Purge (hrs): 1405								
End Purge (hrs): 1515								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 15.3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES
TCL SVOCs	4°C	(2) 1L Glass Amber	YES

OBSERVATIONS / NOTES:

PUMP stuck in SEDIMENT

Circle If Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): [signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW3I
DATE: 10/10/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
1405	8.11	250	NA	—					→	0 BRN
1415	9.90	250	5.80	0.631	999+	8.11	16.46	0.0	149	2500 "
1425	9.82	220	5.89	0.649	"	6.61	16.48	0.0	143	4700 "
1435	10.00	220	6.02	0.663	"	5.59	15.20	0.0	134	6900 "
1445	10.05	220	6.13	0.678	"	4.31	15.35	0.0	127	9100 "
1455	10.05	220	6.23	0.688	"	1.63	15.55	0.0	119	11300 "
1505	9.85	200	6.24	0.694	"	1.51	15.88	0.0	116	13300 "
1515	9.85	200	6.23	0.698	"	1.45	15.47	0.0	112	15300 "
1520	—	—	—	—	—	—	—	—	—	SAMPLE TIME

SIGNATURE(S): [signature]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW5D02
Sample Location: 7MW5D
Sampled By: Haney
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/11/06 Time: 13:05 Method: Dedicated Bladder Pump	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other NA
	clear	7.22	0.849	15.22	0.53	8.02	177	

PURGE DATA:

Date: 10/11/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 41.90'								
Static Water Level (WL): 12.31								
One Casing Volume(gal/L): ~~DSL~~ 6.2 Sat Screen								
Start Purge (hrs): 1118								
End Purge (hrs): 1255								
Total Purge Time (min): 95								
Total Vol. Purged (gal/L): 15.5 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW5D
DATE: 10/11/06

Time (Hrs)	Water Level (Ft. below TOC)	Flow (mL/Min)	pH (SU)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
11:18	12.31									start purge
11:28	16.79	300	7.04	0.872	18	10.88	15.27	0.0	115	3 L/clear
11:38	19.59	300	7.16	0.852	5.96	9.34	15.56	0.0	134	6 L/clear
11:48	21.85	~~200~~ 150	7.21	0.849	4.47	8.68	15.52	0.0	146	9.5 L/clear
11:58	22.88	120	7.22	0.848	2.81	9.09	15.73	0.0	152	8.7 L/clear
12:08	24.29	120	7.21	0.851	3.23	9.79	15.60	0.0	159	9.9 L/clear
12:18	25.46	140	7.21	0.849	1.53	8.35	15.52	0.0	[redacted]	[redacted] 11.3 L/clear
12:28	27.12	140	7.20	0.852	0.78	9.31	15.39	0.0	[redacted]	12.7 L/clear
12:38	28.54	140	7.21	0.851	0.63	8.40	15.23	0.0	172	14.1 L/clear
12:48	30.09	140	7.22	0.848	0.54	9.13	15.16	0.0	175	15.5 L/clear
12:53	30.95	140	7.22	0.849	0.53	8.02	15.22	0.0	177	Shut pump off - WL approaching TOS, let well recharge for 10 min before sampling

SIGNATURE(S):

TOTAL DEPTH (BTOR): 41.90
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW9S02
Sample Location: 7MW9S
Sampled By: T. ROJAHN
C.O.C. No.: 4485
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-12-06	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other SAL NA %
Time: 1050								
Method: Dedicated Bladder Pump	Clear	6.06	0.349	9.25	17.76	1.65	143	0.0

PURGE DATA:

Date: 10-12-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 14.25'								
Static Water Level (WL): 4.92								
One ~~Casing~~ Screen Volume(gal/L): 6.2								
Start Purge (hrs): 0945								
End Purge (hrs): 1045								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 13								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES
TCL SVOCs	4°C	(2) 1L Glass Amber	YES

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	Ty Rojahn

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW95
DATE: 10-12-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
0945	4.92	0	NA	—	—	—	—	—	—	0 Rusty
0955	5.15	300	6.00	0.349	121	2.70	17.82	0.0	213	3000 Sl Cloudy w/floaters
1005	5.19	200	6.04	0.349	23.4	1.98	17.73	0.0	219	5000 CLEAR
1015	5.20	200	6.06	0.349	13.7	1.85	17.75	0.0	188	7000 CLEAR
1025	5.20	200	6.06	0.350	4.94	1.76	17.73	0.0	153	9000 CLEAR
1035	5.22	200	6.06	0.349	2.96	1.69	17.74	0.0	146	11000 CLEAR
1045	5.22	200	6.06	0.349	9.25	1.65	17.76	0.0	143	13000 CLEAR
1050	—	—	—	—	—	—	—	—	—	start sampling

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW12S02
Sample Location: 7MW12S
Sampled By: Harney
C.O.C. No.: 4494
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/11/06 Time: 10⁰⁰	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other NA
Method: Dedicated Bladder Pump	clear	6.38	0.521	19.79	7.3	5.28	-71	

PURGE DATA:

Date: 10/11/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 13.46'								
Static Water Level (WL): 4.55								
One Casing Volume(gal/L): 5.6L								
Start Purge (hrs): 0907								
End Purge (hrs): 1002								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 16.6 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES
TCL SVOCs	4°C	(2) 1L Glass Amber	YES

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW125
DATE: 10/11/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min)	pH (S.U)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
0907	4.18	~~310~~								start purge, slightly turbid
0917	4.48	310	6.51	0.518	32	7.05	20.28	0.0	-65	3.10 L / turbid
0927	4.54	300	6.48	0.537	18	9.40	20.15	0.0	-70	6.10 L / clear
0937	4.55	300	6.44	0.533	13	6.98	20.01	0.0	-70	9.10 L / clear
0947	4.55	300	6.41	0.534	11	7.11	19.88	0.0	-70	12.10 L / clear
0957	4.55	300	6.40	0.532	4.9	5.66	19.84	0.0	-70	15.10 L / clear
1002	4.55	150	6.38	0.531	7.3	5.28	19.79	0.0	-71	16.60 L / clear
1008										begin sampling

SIGNATURE(S): [signature]

TOTAL DEPTH (BTOR): 13.46'
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW12I02
Sample Location: 7MW12I
Sampled By: T. Rosann
C.O.C. No.: 4484
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-11-06 Time: 1020	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ SAL ~~NA~~ %
Method: Dedicated Bladder Pump	Greyish	6.53	0.653	16.03	>1000	2.49	1	0.0

PURGE DATA:

Date: 10-11-06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC			See Low Flow Purge Data Sheets					
Total Well Depth (TD): 28.50'								
Static Water Level (WL): 5.83								
One ~~Casing~~ SAT. SCREEN Volume(gal/L): 6.2								
Start Purge (hrs): 0855								
End Purge (hrs): 1015								
Total Purge Time (min): 80								
Total Vol. Purged (gal/L): 16.8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	4°C/HCl	(3) 40ml Vails	YES
TCL SVOCs	4°C	(2) 1L Glass Amber	YES

OBSERVATIONS / NOTES:

Purge / sample consistant w/ Round 1 (High Turb.)

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): [signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW12I
DATE: 10-11-06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
0855	5.83	—								
0905	8.18	240	6.47	0.567	>1000	2.41	16.40	0.0	25	2400 Greyish
0915	9.40	240	6.47	0.567	755	1.79	16.26	0.0	16	4800 Lt Grey
0925	8.95	200	6.50	0.605	>1000	3.67	16.06	0.0	12	6800 Greyish
0935	9.11	200	6.52	0.641	>1000	5.03	16.09	0.0	1	8800 Greyish
0945	9.19	200	6.53	0.644	>1000	3.91	16.02	0.0	-2	10800 Greyish
0955	9.22	200	6.53	0.654	>1000	3.13	16.05	0.0	-5	12800 Greyish
1005	9.22	200	6.54	0.650	>1000	2.50	15.96	0.0	-2	14800 Greyish
1015	9.20	200	6.53	0.653	>1000	2.49	16.03	0.0	1	16800 Greyish
1020	—	—	—	—	—	—	—	—	—	SAMPLE TIME

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR):
PUMP INTAKE SET AT (BTOR):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB New London, CT Site 7
Project No.: G00616, CTO 064

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: S7GW7MW13S02
Sample Location: 7MW13S
Sampled By: [redacted]
C.O.C. No.: 4485
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10/12/06	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1003	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	NA
Method: Dedicated Bladder Pump	clear	6.16	6.454	19.05	3.59	10.86	208	

PURGE DATA:

Date: 10/12/06	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Dedicated Bladder Pump								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2in Dia. PVC	See Low Flow Purge Data Sheets							
Total Well Depth (TD): 17.96'								
Static Water Level (WL): 8.92								
One ~~Casing~~ Scr Screen Volume(gal/L): 5.6								
Start Purge (hrs): 0843								
End Purge (hrs): 1003								
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 24L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL SVOCs & PAHs	4°C	4x (2) 1L Glass Amber	YES

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	FD10120601

Signature(s): [signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB New London, Site 7
PROJECT NUMBER: G00616, CTO 064

WELL ID.: 7MW135
DATE: 10/12/06

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	Salinity (% or ppt)	ORP (mV)	Comments (Volume & Color)
0843	8.92	300								start purge, cloudy
0853	9.09	300	6.11	0.409	4.55	11.67	19.40	0.0	263	3L / clear
0903	9.11	300	6.14	0.403	6.81	10.79	19.43	0.0	260	6L / clear
0913	9.14	300	6.17	0.426	4.37	7.42	19.39	0.0	244	9L / clear
0923	9.03	300	6.17	0.438	4.31	6.82	19.35	0.0	228	12L / clear
0933	[illegible]	300	6.17	0.442	4.23	7.86	19.18	0.0	221	15L / clear
0943	[illegible]	300	6.16	0.447	3.24	6.83	19.20	0.0	211	18L / clear
0953	[illegible]	300	6.17	0.451	3.12	8.01	19.11	0.0	210	21L / clear
1003	9.11	300	6.16	0.454	~~10.53~~	10.86	19.05	0.0	208	24L / clear
1005										begin sampling.

SIGNATURE(S): [illegible]

TOTAL DEPTH (BTOR): 17.96
PUMP INTAKE SET AT (BTOR):

A-4 CHAIN OF CUSTODY RECORDS

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4485 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
00616	NSB New London	Corey Rich	(412) 921-8984	Katahdin / Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Terry Rojah		T. Rojahn	(412) 921-8857	340 County Road #5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED. EX AB# 8494 1921 4438		Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOCs 40ml Vials	SVOCs 1L Glass Amber	SVOCs & PAHs 1L Glass Amber						COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G							
PRESERVATIVE USED									4°C HCl	4°C							
TYPE OF ANALYSIS																	
10/12	0725	S3GW3MW16S02	3MW 16S	–	–	GW	G	3	3								
10/12	0915	S3GW2DMW29S02	2DMW 29S	–	–	GW	G	3	3								
10/12	1003	S7GW7MW13S02	7MW 13S	–	–	GW	G	8	–	–	8						DO MS/MSD
10/12	1050	S7GW7MW9S02	7MW 9S	–	–	GW	G	5	3	2							
10/12	1330	S3GW2DMW28D02	2DMW 28D	–	–	GW	G	3	3								
10/12	1334	S3GW2DMW25S02	2DMW 25S	–	–	GW	G	3	3								
10/12	0000	FD10120601	QC	–	–	GW	G	2	–	–	2						DUP OF 7MW13S
10/12	0000	FD10120602	QC	–	–	GW	G	3	3								DUP OF 2DMW29S

1. RELINQUISHED BY Terry Rojah	DATE 10-12-06	TIME 1800	1. RECEIVED BY FEDERAL EXPRESS	DATE 10-12-06	TIME 1800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4484 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
00616	NSB New London	Corey Rich	(412) 921-8984	Katahdin / Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Terry Rojahn		Terry Rojahn	(412) 921-8857	340 County Road #5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB# 8494 1921 4438		Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOLATILES (CONTAINER TYPE: G, PRESERVATIVE: 4°C)	SVOCS (CONTAINER TYPE: G, PRESERVATIVE: 4°C)							COMMENTS
									40ml Vial	1L Amber Glass							
10/10	1200	TB10100601	TB	–	–	QC	G	2	2								Trip Blank
10/10	1520	S7GW7MW3I02	7MW 3I	–	–	GW	G	5	3	2							
10/10	1524	S7GW7MW3S02	7MW 3S	–	–	GW	G	5	3	2							
10/10	1850	S3GW2DMW16D02	2DMW 16D	–	–	GW	G	5	3								
10/10	1855	S3GW2DMW16S02	2DMW 16S	–	–	GW	G	5	3								
10/11	1008	S7GW7MW12S02	7MW 12S	–	–	GW	G	5	3	2							
10/11	1020	S7GW7MW12I02	7MW 12I	–	–	GW	G	5	3	2							
10/11	1205	S7GW7MW1D02	7MW 1D	–	–	GW	G	9	9								DO MS/MSD
10/11	1305	S7GW7MW5D02	7MW 5D	–	–	GW	G	3	3								
10/11	1625	S3GW3MW15S02	3MW 15S	–	–	GW	G	3	3								
10/11	1640	S3GW3MW16D02	3MW 16D	–	–	GW	G	3	3								
10/11	1815	S3GW3MW15I02	3MW 15I	–	–	GW	G	3	3								
10/11	0000	FD10110601	QC	–	–	GW	G	3	3								DUP OF 7MW1D

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Terry Rojahn	10-12-06	1800	1. RECEIVED BY FEDERAL EXPRESS	10-12-06	1800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

A-5 EQUIPMENT CALIBRATION LOGS

Tetra Tech NUS, Inc.

DOCUMENTATION OF FIELD CALIBRATION

PROJECT NAME : NSB New London

SITE NAME: Site 3 & 7

PROJECT No.: G00616, CTO 064

INSTRUMENT NAME/MODEL: Horiba U-22 XD

MANUFACTURER: Horiba

SERIAL NUMBER: 3013003

Date of Calibration	Person Performing Calibration	INITIAL READINGS						FINAL READINGS						Calibration Standard (Lot No.)	Remarks and Comments
		PH (SU)		CON (mS/cm)		DO (mg/L)		PH (SU)		CON (mS/cm)		DO (mg/L)			
10/10/06	TR	3.98		4.76		8.22		4.01		4.51		8.35		5350	7-14-07 EXP.
10/11/06	TR	3.98		4.16		10.66		4.00		4.53		9.87		"	"
10/12/06	TR	4.00		4.56		9.66		4.06		4.51		9.58		"	"

Tetra Tech NUS, Inc.

DOCUMENTATION OF FIELD CALIBRATION

PROJECT NAME : NSB New London

SITE NAME: Site 3 & 7

PROJECT No.: G00616, CTO 064

INSTRUMENT NAME/MODEL: Horiba U-22 XD

MANUFACTURER: Horiba

SERIAL NUMBER: 3073002

Date of Calibration	Person Performing Calibration	INITIAL READINGS						FINAL READINGS						Calibration Standard (Lot No.)	Remarks and Comments
		PH (SU)		CON (mS/cm)		DO (mg/L)		PH (SU)		CON (mS/cm)		DO (mg/L)			
10/10/06	Haney	3.66		9.0		4.92		4.0		7.21		9.59		5350	Exp 07/14/07
10/10/06	Haney	3.99		6.99		8.15		4.0		4.69		8.53		5350	Exp 07/14/07
10/11/06	Haney	4.00		4.70		9.65		3.99		3.26		10.48		5350	Exp 07/14/07
10/11/06	Haney	3.99		3.26		10.48		4.00		4.46		8.62		5350	Exp 07/14/07
10/12/06	Haney	4.11		6.59		7.57		3.98		4.53		8.47		5350	Exp 07/14/07

Tetra Tech NUS, Inc.

EQUIPMENT CALIBRATION LOG

PROJECT NAME : NSB New London

SITE NAME: SITE 3 & 7

PROJECT No.: G00616, CTO 064

INSTRUMENT NAME/MODEL: LAMOTTE 2020

MANUFACTURER: LAMOTTE

SERIAL NUMBER:

Date of Calibration	Instrument I.D. Number	Person Performing Calibration	0 NTUs		10 NUTs		Calibration Standard (Lot No.)	Remarks and Comments
			Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
10/10/06	0916-4293	Haney	0	0	10	10	4711(0)	AmCo Clear
							P568485(10)	LaMott Amco exp June 2007
10/11/06	0916-4293	Haney	0	0	9.8	10	4711(0)	AmCo Clear
							P568485(10)	LaMott Amco exp June 2007
10/12/06	0916-4293	Haney	0	0	11.9	10	4721(0)	AmCo Clear
							P568485(10)	LaMott Amco exp June 2007

Tetra Tech NUS, Inc.

EQUIPMENT CALIBRATION LOG

PROJECT NAME : NSB New London

INSTRUMENT NAME/MODEL: LAMOTTE 2020

SITE NAME: SITE 3 & 7

MANUFACTURER: LAMOTTE

PROJECT No.: G00616, CTO 064

SERIAL NUMBER: 4531-3303

Date of Calibration	Instrument I.D. Number	Person Performing Calibration	0 NTUs		10 NUTs		Calibration Standard (Lot No.)	Remarks and Comments
			Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
10/10/06	SAMC	TR	0.00	0.00	10.0	10.0	0: 4771	AMCO CLEAR
10/11	"	TR	0.00	0.00	10.1	10.0	10: P568485	AMCO
10/12	"	TR	0.00	0.00	10.2	10.0		

APPENDIX B

IDW ANALYTICAL RESULTS, WASTE PROFILES, AND MANIFESTS

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Global Remediation Services
Attn: Mr. Paul Mastrodomenico
1 Westinghouse Plaza
Boston, MA 02137

Date Received: 10/13/06
Date Reported: 10/19/06
P.O. #:
Work Order #: 0610-18527

DESCRIPTION: PROJECT# GR06238 NAVAL SUB BASE - NEW LONDON (SITE 3 & 7)

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Mike Hobin
Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Global Remediation Services
Date Received: 10/13/06
Work Order #: 0610-18527

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: LIQUID IDW (SITE 3 & 7)
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 10/13/2006 @ 08:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
pH	6.2		SU	EPA 150.1	10/13/06	ML
FLASHPOINT	>200	80	deg F	SW846 1010	10/16/06	EOO
PCB						
Aroclor-1016	<1	1	ug/l	SW-846 8082	10/18/06	MFT
Aroclor-1221	<1	1	ug/l	SW-846 8082	10/18/06	MFT
Aroclor-1232	<1	1	ug/l	SW-846 8082	10/18/06	MFT
Aroclor-1242	<1	1	ug/l	SW-846 8082	10/18/06	MFT
Aroclor-1248	<1	1	ug/l	SW-846 8082	10/18/06	MFT
Aroclor-1254	<1	1	ug/l	SW-846 8082	10/18/06	MFT
Aroclor-1260	<1	1	ug/l	SW-846 8082	10/18/06	MFT
SURROGATE			RANGE	SW-846 8082	10/18/06	MFT
Tetrachloro-m-xylene (TCMX)	76		30-150%	SW-846 8082	10/18/06	MFT
Decachlorobiphenyl	67		30-150%	SW-846 8082	10/18/06	MFT
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Bromobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Bromochloromethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Bromoform	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Bromomethane	<10	10	ug/l	SW-846 8260B	10/18/06	BAS
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
sec-Butylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Chlorobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Chloroethane	<5	5	ug/l	SW-846 8260B	10/18/06	BAS
Chloroform	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Chloromethane	<5	5	ug/l	SW-846 8260B	10/18/06	BAS
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	10/18/06	BAS
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Dibromomethane	<2	2	ug/l	SW-846 8260B	10/18/06	BAS
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	10/18/06	BAS
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Global Remediation Services
Date Received: 10/13/06
Work Order #: 0610-18527

Approved by: Data Reporting

Sample # 001
SAMPLE DESCRIPTION: LIQUID IDW (SITE 3 & 7)
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 10/13/2006 @ 08:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
trans-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Ethylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Methylene Chloride	<5	5	ug/l	SW-846 8260B	10/18/06	BAS
Naphthalene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Styrene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Toluene	1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Trichloroethene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
o-Xylene	<1	1	ug/l	SW-846 8260B	10/18/06	BAS
m&p-Xylene	1	1	ug/l	SW-846 8260B	10/18/06	BAS
MTBE	<2	2	ug/l	SW-846 8260B	10/18/06	BAS
SURROGATES			RANGE	SW-846 8260B	10/18/06	BAS
Dibromofluoromethane	105		86-118%	SW-846 8260B	10/18/06	BAS
Toluene-d8	96		88-110%	SW-846 8260B	10/18/06	BAS
4-Bromofluorobenzene	88		86-115%	SW-846 8260B	10/18/06	BAS
1,2 Dichloroethane-d4	107		80-120%	SW-846 8260B	10/18/06	BAS
TOTAL METALS						
ARSENIC	<0.1	0.1	mg/l	EPA 200.7	10/17/06	CL
BARIUM	0.037	0.005	mg/l	EPA 200.7	10/17/06	CL
CADMIUM	<0.005	0.005	mg/l	EPA 200.7	10/17/06	CL

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Global Remediation Services
Date Received: 10/13/06
Work Order #: 0610-18527

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: LIQUID IDW (SITE 3 & 7)
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 10/13/2006 @ 08:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
CHROMIUM	<0.03	0.03	mg/l	EPA 200.7	10/17/06	CL
LEAD	<0.04	0.04	mg/l	EPA 200.7	10/17/06	CL
MERCURY	<0.0005	0.0005	mg/l	EPA 245.1	10/16/06	REA
SELENIUM	<0.2	0.2	mg/l	EPA 200.7	10/17/06	CL
SILVER	<0.02	0.02	mg/l	EPA 200.7	10/17/06	CL

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type[T]	Preservation Code[P]	Matrix Code[M]	PCB's (8082)	Flashpoint (1010)	PH (150.1/9040)	VOC's (8260)	RCRA8 Metals (6010)
10/13/06	08:35	Liquid IDW (site 3+7)		2AG	NP	GW	X	X	X		
10/13/06	08:36	Liquid IDW (site 3+7)		1P	N	GW					X
10/13/06	08:37	Liquid IDW (site 3+7)		2V	H	GW				X	

Client Information

Company Name: Global Remediation
Address: PO Box 193
City / State / Zip: Boston, MA 02137
Telephone: 617-364-0012 Fax: 617-361-5088
Contact Person: Paul Mastrodomenico

Project Information

Project Name: Naval Sub Base - New London (site 3 and site 7)
P.O. Number: Project Number: GR06238
Report To: Paul Mastrodomenico Phone: 617-364-0012 Fax: 617-361-5088
Sampled by: Randy Rose
Quote No: Email address: pmastro@globalremediation.com

Relinquished By	Date	Time	Received By	Date	Time
Randy Rose	10-13-06	11:08A	Suzanne Stephenson	10/13/06	1108

Turn Around Time

	Normal	X	EMAIL Report
X	5 Business days		
	Rush _____ (business days)		

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement QC Package? Yes No

* invoice per Quote # GL040416 + RCRA8 Metals

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- ✓ Shipped on ice

Workorder No: 0010-185227

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile
Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=$Na_2S_2O_3$, Z=ZnOAc, I=Ice
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, O=_____

40849

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CT4170022020	1	1-800-565-7916	2193

5. Generator's Name and Mailing Address
U.S. Submarine
Route 12-Crystal Lake Road
Groton, CT 06349
Generator's Phone: 860-694-4296

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name: Enviro-Safe Corporation — U.S. EPA ID Number: MAC300001617

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
JONES ENVIRONMENTAL SERVICES(N.E.)INC.
283 HOWARD STREET
LOWELL, MA 01852
Facility's Phone: 978-453-7772
U.S. EPA ID Number: MAD047075734

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non DOT, Non RCRA Regulated Liquid Material	2	DM	75	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
a. 16678-02 Purge Development Water CR04

14. 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.
Generator's/Offeror's Printed/Typed Name: X ANTONIO LETTE — Signature: X — Month/Day/Year: 11/02/06

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MICHAEL BATTISTA — Signature: Michael Battista — Month/Day/Year: 11/02/06
Transporter 2 Printed/Typed Name — Signature — Month/Day/Year:

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month/Day/Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Valerie Appian — Signature: Valerie — Month/Day/Year: 11/07/06

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLS-C 6 10497 (Rev. 8/06)

DESIGNATED FACILITY'S COPY

(MON)NOV 6 2006 13:19/ST. 13:15/No. 6872630889 P 1

Job # _____ WORKSHEET P.O.# _____

Day & Date Fri 10-13-06

Contact Person Terry

Telephone _____

Client Tetra Tech NUS

Billing Address _____

Attn: _____

GLOBAL

T&M ☐ RATE ☐

Contract ☐ RATE ☐

Start Time 5:30A

On-Site Time 7:30A - 9A

Ending Time 12P

Job Location Groton Sub Base Groton, CT

LABOR:

Name	Title	ST	OT	DT
	Project Manager			
	Supervisor			
	Foreman			
	Field Technician			
Randy Rose	Field Technician	6.5		
	Equip. Operator			
	Equip. Operator			
	Truck Driver			
	Truck Driver			

EQUIPMENT:

Qty.	Type	Fleet#	# of hours	Day Rate
1	H.D. pickup /Box	R9		
	Van			
	Dump Truck			
	Tractor			
	Vacuum Truck			
	Backhoe			
	Excavator			
	Bobcat w/			
	Compressor			
	Rolloff Can			

DISPOSAL

Destination

Truck#	Amount	Manifest #

MATERIAL

Qty:	Description
	Level C ☐ Level B ☐

Qty:	Description

JOB DESCRIPTION

Provided Services to Take Composite Samples of 2 drums and drop off Samples at lab.

JOB COMPLETED YES ☒ NO ☐

ANALYSIS

Qty	Type	Destination

SUBCONTRACTORS

Name of Company	Description

Signature: Randy

Date: 10-13-06

Customer: TETRA TECH NUS, INC.
(Company Name)

By: Terry Rogahn
(Signature)

TERRY ROGAHN
(Print Name)

SR FIELD TECH
(Title)

Date: 10-13-06

APPENDIX C

LABORATORY RESULTS

C-1 DATA VALIDATION LETTER

C-2 QUALIFIED LABORATORY RESULTS

C-1 DATA VALIDATION LETTER

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **COREY RICH** **DATE: DECEMBER 4, 2006**

FROM: **KELLY CARPER** **COPIES: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION: VOC/SVOC/PAH**
CTO 064, NSB NEW LONDON
SDG WW5476

SAMPLES:

19/Aqueous/VOC/

FD10110601	FD10120602	S3GW2DMW16D02	
S3GW2DMW16S02	S3GW2DMW25S02	S3GW2DMW28D02	
S3GW2DMW29S02	S3GW3MW15I02	S3GW3MW15S02	
S3GW3MW16D02	S3GW3MW16S02	S7GW7MW12I02	
S7GW7MW12S02	S7GW7MW1D02	S7GW7MW3I02	
S7GW7MW3S02	S7GW7MW5D02	S7GW7MW9S02	TB10100601

7/Aqueous/SVOC

FD10120601	S7GW7MW12I02	S7GW7MW12S02
S7GW7MW13S02	S7GW7MW3I02	S7GW7MW3S02
S7GW7MW9S02		

2/Aqueous/PAH

FD10120601	S7GW7MW13S02

7/Aqueous/Hexachlorobenzene SIM

S7GW7MW12I02	S7GW7MW12S02	S7GW7MW3I02
S7GW7MW3S02	S7GW7MW9S02	FD10120601
S7GW7MW13S02		

Overview

The sample set for CTO 064 SDG WW5476, NSB New London consists of twenty (20) environmental aqueous samples (including 2 field duplicate pairs), and one (1) trip blank. All samples were analyzed as indicated above. The field duplicate pairs included in this SDG are FD-10120601/S7GW7MW13S02, FD-10120602/ S3GW2DMW29S02 and FD-10110601/ S7GW7MW1D02.

The samples were collected by Tetra Tech NUS, Inc. on October 10, 11, and 12, 2006 and analyzed by Katahdin Analytical. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using USEPA CLP SOW OLC02.1, SW-846 Methods 8270C, and 8270C SIM analytical and reporting protocol. A Tier 3 data validation was performed on the referenced samples. The data contained in this SDG were validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • GC/MS Tuning

- Initial and Continuing Calibration
- Laboratory Method and/or Field Quality Control Blanks
- Surrogate Spike Recoveries
- Laboratory Control Spike / Laboratory Control Spike Duplicate Recoveries
- * Internal Standards Performance
- * Matrix Spike/Matrix Spike Duplicate Results
- * Field Duplicate Precision
- * Tentatively Identified Compounds
- * Detection Limits
- * Sample Quantitation

The asterisk (*) indicates that all quality control criteria were met for this parameter. Qualified (if applicable) analytical results are summarized in Appendix A. Results as reported by the laboratory are presented in Appendix B. Appendix C contains Region I worksheets, and Appendix D contains the documentation to support the findings as discussed in this data validation report. The attached Table summarizes the validation qualifications which are based on the following information:

CALIBRATIONS

The initial calibration percent relative standard deviation (%RSD) exceeded the 30% quality control limit for methylene chloride on instrument GCMS-S on 10/18/06. All samples in the SDG are affected. All methylene chloride results were nondetects and the nondetected results were qualified as estimated (UJ). All samples in the SDG were affected.

The continuing calibration %D for 1,1,2,2-tetrachloroethane run on 10/20/06 at 14:32 was greater than 30%. The nondetected results reported for this compound in samples: FD10120602, S3GW3MW16S02, S3GW2DMW29S02, S7GW7MW9S02, S3GW2DMW28D02, and S3GW2DMW25S02 were qualified as estimated (UJ). No positive results were reported for this compound.

The continuing calibration %Ds for 3-nitroaniline and 3,3'-dichlorobenzidine run on 10/24/06 instrument GCMS-U at 12:14 were greater than 25%. The nondetected results reported for these compounds in samples: S7GW7MW3I02, S7GW7MW3S02, and S7GW7MW12S02 were qualified as estimated (UJ). No positive results were reported for these compounds.

The continuing calibration %Ds for 3-nitroaniline and 3,3'-dichlorobenzidine run on 10/25/06 instrument GCMS-U at 12:58 were greater than 25%. The nondetected results reported for these compounds in samples: S7GW7MW12I02, S7GW7MW13S02, FD10120601, and S7GW7MW9S02 were qualified as estimated (UJ). No positive results were reported for these compounds.

The continuing calibration %Ds for 3-nitroaniline, 4-nitrophenol, and 3,3'-dichlorobenzidine run on 11/02/06 instrument GCMS-U at 10:38 were greater than 25%. No actions were warranted because only the reanalysis of sample S7GW7MW3I02 was affected by this calibration and this sample was not used.

The continuing calibration %D for benzo(a)anthracene run on 10/18/06 instrument GCMS-R at 10:18 was greater than 25%. No actions were required in samples: S7GW7MW3I02 and S7GW7MW3S02 as these samples were only analyzed for hexachlorobenzene.

The continuing calibration %D for benzo(a)anthracene run on 10/19/06 instrument GCMS-R at 10:18 was greater than 25%. No actions were required in samples: S7GW7MW12I02, S7GW7MW12S02, and S7GW7MW9S02 as these samples were only analyzed for hexachlorobenzene. Positive and nondetected

results for benzo(a)anthracene in samples S7GW7MW13S02 and FD10120601 were qualified as estimated (J) and (UJ), respectively.

BLANKS

The following compound was detected in the method blank at the following maximum concentration:

Compound	Maximum Concentration	Action Level
Methylene Chloride	2 µg/L	20 µg/L

Blank Actions

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

An Action level of 10X the maximum contaminant concentration (for methylene chloride) was established to evaluate blank contamination. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. No actions were warranted as not positive results were reported for this compound. The trip blank was not qualified for method blank contamintion.

SURROGATE SPIKE RECOVERIES

The surrogate percent recoveries (%Rs) were low for 2-fluorophenol and 2,4,6-tribromophenol in sample S7GW7MW3I02 the sample was re-extracted 24 days from the date of sample collection. These surrogate recoveries were compliant in the reanalysis. The original analysis was used for validation because the re-extraction grossly exceeded the holding time. Therefore, the nondetected acid fraction compounds were qualified as estimated (UJ) due to the low surrogate recoveries. No positive results were reported for the acid fraction compounds.

LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

The Laboratory Control Spike (LCS) %R for 2,4,6-trichlorophenol was below the quality control limits and 3,3'-dichlorobenzidine was above the quality control limits. Additionally, the relative percent difference was high for 4-nitrophenol. No actions were necessary as the only affected sample is the reanalysis of S7GW7MW3I02 which was not used in validation of this SDG.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis of sample S7GW7MW1D02 had a relative percent difference for benzene that was in excess of the quality control limit. No action was warranted this compound was not detected in the unspiked sample.

ADDITIONAL COMMENTS

Positive results reported at concentrations below the CRQL were qualified as estimated (J).

The semivolatile fraction did not contain polycyclic aromatic hydrocarbons in five samples. This item is included for completeness.

EXECUTIVE SUMMARY

Laboratory Performance: Several compounds exceeded continuing calibration %D criteria in the volatile and semivolatile fractions. Low surrogate recoveries were noted for 2 acid fraction surrogates in sample S7GW7MW3I02.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the Region I EPA "Data Validation Functional Guidelines - Part II" (12/96), National Functional Guidelines for Low Concentration Organic Data Review (6/2001), and the DoD Quality Systems (QSM) (January 2006).

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM."

TetraTech NUS
Kelly Carper
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Regional Worksheets
4. Appendix D - Support Documentation

C-2 QUALIFIED LABORATORY RESULTS

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	FD10110601
samp_date	10/11/2006
lab_id	WW5476-17
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S7GW7MW1D02

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	FD10110601
samp_date	10/11/2006
lab_id	WW5476-17
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S7GW7MW1D02

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	FD10120602
samp_date	10/12/2006
lab_id	WW5476-28
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S3GW2DMW29S02

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	UJ	C
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	6		
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	FD10120602
samp_date	10/12/2006
lab_id	WW5476-28
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S3GW2DMW29S02

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	6		
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	10		

nsample	S3GW2DMW16D02
samp_date	10/10/2006
lab_id	WW5476-6
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	3		
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S3GW2DMW16D02
samp_date	10/10/2006
lab_id	WW5476-6
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	3		
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	7		
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S3GW2DMW16S02
samp_date	10/10/2006
lab_id	WW5476-7
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S3GW2DMW16S02
samp_date	10/10/2006
lab_id	WW5476-7
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	S3GW2DMW25S02
samp_date	10/12/2006
lab_id	WW5476-25
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	UJ	C
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S3GW2DMW25S02
samp_date	10/12/2006
lab_id	WW5476-25
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	S3GW2DMW28D02
samp_date	10/12/2006
lab_id	WW5476-24
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	UJ	C
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S3GW2DMW28D02
samp_date	10/12/2006
lab_id	WW5476-24
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	0.6	J	P
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	2		
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	0.6	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S3GW2DMW29S02
samp_date	10/12/2006
lab_id	WW5476-19
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	UJ	C
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	6		
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S3GW2DMW29S02
samp_date	10/12/2006
lab_id	WW5476-19
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	6		
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	9		

nsample	S3GW3MW15I02
samp_date	10/11/2006
lab_id	WW5476-16
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	2		
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample S3GW3MW15I02
samp_date 10/11/2006
lab_id WW5476-16
qc_type NM
units UG/L
Pct_Solids 0.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample S3GW3MW15S02
samp_date 10/11/2006
lab_id WW5476-14
qc_type NM
units UG/L
Pct_Solids 0.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample S3GW3MW15S02
samp_date 10/11/2006
lab_id WW5476-14
qc_type NM
units UG/L
Pct_Solids 0.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S3GW3MW16D02
samp_date	10/11/2006
lab_id	WW5476-15
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	0.5	J	P
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	3		
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	4		
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S3GW3MW16D02
samp_date	10/11/2006
lab_id	WW5476-15
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	4		
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	2		
VINYL CHLORIDE	1	U	

nsample	S3GW3MW16S02
samp_date	10/12/2006
lab_id	WW5476-18
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	UJ	C
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	2		
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S7GW7MW12S02
samp_date	10/11/2006
lab_id	WW5476-8
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	J	P
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S7GW7MW12S02
samp_date	10/11/2006
lab_id	WW5476-8
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	S7GW7MW1D02
samp_date	10/11/2006
lab_id	WW5476-12
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S3GW3MW16S02
samp_date	10/12/2006
lab_id	WW5476-18
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	S7GW7MW12I02
samp_date	10/11/2006
lab_id	WW5476-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	0.6	J	P
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S7GW7MW12I02
samp_date	10/11/2006
lab_id	WW5476-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	0.9	J	P
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S7GW7MW1D02
samp_date	10/11/2006
lab_id	WW5476-12
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	S7GW7MW3I02
samp_date	10/10/2006
lab_id	WW5476-2
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S7GW7MW3I02
samp_date	10/10/2006
lab_id	WW5476-2
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S7GW7MW3S02
samp_date	10/10/2006
lab_id	WW5476-4
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S7GW7MW3S02
samp_date	10/10/2006
lab_id	WW5476-4
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

nsample	S7GW7MW5D02
samp_date	10/11/2006
lab_id	WW5476-13
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	S7GW7MW5D02
samp_date	10/11/2006
lab_id	WW5476-13
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1		
VINYL CHLORIDE	1	U	

nsample	S7GW7MW9S02
samp_date	10/12/2006
lab_id	WW5476-22
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	UJ	C
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	S7GW7MW9S02
samp_date	10/12/2006
lab_id	WW5476-22
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	2	UJ	C
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OV

nsample	TB10100601
samp_date	10/10/2006
lab_id	WW5476-1
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,4-DICHLOROBENZENE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	

nsample	TB10100601
samp_date	10/10/2006
lab_id	WW5476-1
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
M+P-XYLENES	1	U	
METHYLENE CHLORIDE	1	J	CP
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OS

nsample	FD10120601
samp_date	10/12/2006
lab_id	WW5476-26
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S7GW7MW13S02

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	25	UJ	C
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	25	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

nsample	FD10120601
samp_date	10/12/2006
lab_id	WW5476-26
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S7GW7MW13S02

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENOL	10	U	

nsample	S7GW7MW12I02
samp_date	10/11/2006
lab_id	WW5476-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	26	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	26	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	26	U	
2-NITROPHENOL	10	U	
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	26	UJ	C
4,6-DINITRO-2-METHYLPHENOL	26	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	26	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	26	U	
4-NITROPHENOL	26	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OS

nsample	S7GW7MW12I02
samp_date	10/11/2006
lab_id	WW5476-10
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	26	U	
PHENOL	10	U	

nsample	S7GW7MW12S02
samp_date	10/11/2006
lab_id	WW5476-8
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	25	UJ	C
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	25	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

nsample	S7GW7MW12S02
samp_date	10/11/2006
lab_id	WW5476-8
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENOL	10	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OS

nsample S7GW7MW13S02
samp_date 10/12/2006
lab_id WW5476-20
qc_type NM
units UG/L
Pct_Solids 0.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	25	UJ	C
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	25	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

nsample S7GW7MW13S02
samp_date 10/12/2006
lab_id WW5476-20
qc_type NM
units UG/L
Pct_Solids 0.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENOL	10	U	

nsample S7GW7MW3I02
samp_date 10/10/2006
lab_id WW5476-2
qc_type NM
units UG/L
Pct_Solids 0.0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	26	UJ	R
2,4,6-TRICHLOROPHENOL	10	UJ	R
2,4-DICHLOROPHENOL	10	UJ	R
2,4-DIMETHYLPHENOL	10	UJ	R
2,4-DINITROPHENOL	26	UJ	R
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	UJ	R
2-METHYLPHENOL	10	UJ	R
2-NITROANILINE	26	U	
2-NITROPHENOL	10	UJ	R
3&4-METHYLPHENOL	10	UJ	R
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	26	UJ	C
4,6-DINITRO-2-METHYLPHENOL	26	UJ	R
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	26	UJ	R
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	26	U	
4-NITROPHENOL	26	UJ	R
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OS

nsample	S7GW7MW3I02
samp_date	10/10/2006
lab_id	WW5476-2
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	26	UJ	R
PHENOL	10	UJ	R

nsample	S7GW7MW3S02
samp_date	10/10/2006
lab_id	WW5476-4
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	25	UJ	C
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	25	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

nsample	S7GW7MW3S02
samp_date	10/10/2006
lab_id	WW5476-4
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENOL	10	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: OS

nsample	S7GW7MW9S02
samp_date	10/12/2006
lab_id	WW5476-22
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3&4-METHYLPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	UJ	C
3-NITROANILINE	25	UJ	C
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	25	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	

nsample	S7GW7MW9S02
samp_date	10/12/2006
lab_id	WW5476-22
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DI-N-OCTYL PHTHALATE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
ISOPHORONE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENOL	10	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: PAH

nsample	FD10120601
samp_date	10/12/2006
lab_id	WW5476-27
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	S7GW7MW13S02

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.27	J	C
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.23		
FLUORENE	0.2	U	
HEXACHLOROBENZENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.051	J	P
PYRENE	0.067	J	P

nsample	S7GW7MW12I02
samp_date	10/11/2006
lab_id	WW5476-11
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
HEXACHLOROBENZENE	1	U	

nsample	S7GW7MW12S02
samp_date	10/11/2006
lab_id	WW5476-9
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
HEXACHLOROBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: PAH

nsample	S7GW7MW13S02
samp_date	10/12/2006
lab_id	WW5476-21
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	UJ	C
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
HEXACHLOROBENZENE	1	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	S7GW7MW3I02
samp_date	10/10/2006
lab_id	WW5476-3
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
HEXACHLOROBENZENE	1	U	

nsample	S7GW7MW3S02
samp_date	10/10/2006
lab_id	WW5476-5
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
HEXACHLOROBENZENE	1	U	

PROJ_NO: 00616

SDG: WW5476 MEDIA: WATER DATA FRACTION: PAH

nsample	S7GW7MW9S02
samp_date	10/12/2006
lab_id	WW5476-23
qc_type	NM
units	UG/L
Pct_Solids	0.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
HEXACHLOROBENZENE	0.14	J	P