N62661.AR.002846
NS NEWPORT
5090.3a

STUDY AREA SCREENING EVALUATION FOR SITE 1 TANK FARM 3 NS NEWPORT RI
8/1/2013
TETRA TECH

STUDY AREA SCREENING EVALUATION

for

Tank Farm 3

NAVSTA, Newport, Rhode Island

Naval Facilities Engineering Command Mid-Atlantic

Contract Number N62470-08-D-1001
Contract Task Order WE59

August 2013

W5210660F

STUDY AREA SCREENING EVALUATION

FOR

TANK FARM 3

NAVSTA, NEWPORT, RHODE ISLAND

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command Mid-Atlantic
9742 Maryland Avenue
Norfolk, Virginia 23511-3095

Submitted by:
Tetra Tech
234 Mall Boulevard, Suite 260
King of Prussia, Pennsylvania 19406-1433

CONTRACT NUMBER N62470-08-D-1001
CONTRACT TASK ORDER WE59

August 2013

PREPARED UNDER THE DIRECTION OF:

DABRA SEIKEN, CG.
PROJECT MANAGER
TETRA TECH
WILMINGTON, MASSACHUSETTS

APPROVED FOR SUBMISSION BY:

JOHN J. TREPANOWSKI, P.E.
PROGRAM MANAGER
TETRA TECH
KING OF PRUSSIA, PENNSYLVANIA

TABLE OF CONTENTS

SECTION		PAGE
	ACRONYMS	**iv**
	EXECUTIVE SUMMARY	**E-1**
1.0	**INTRODUCTION**	**1-1**
1.1	SITE-SPECIFIC INVESTIGATION OBJECTIVES	1-1
1.2	BACKGROUND INFORMATION	1-2
1.2.1	Site Location	1-2
1.2.2	Site Description	1-3
1.2.3	Facility History	1-4
1.2.4	Previous Site Investigations and Remediation/Closure Activities	1-5
1.2.5	Records of Historical Fuel Spillage Waste Disposal Practices	1-6
2.0	**SITE INVESTIGATION AND ACTIVITIES**	**2-1**
2.1	HISTORICAL RELEASES SITE INVESTIGATIONS	2-1
2.1.1	History of Releases	2-1
2.1.2	History of Site Investigations and Remedial Actions	2-2
2.2	DESCRIPTION OF INVESTIGATIONS AT INDIVIDUAL AREAS	2-10
2.2.1	Tank 32	2-10
2.2.2	Tank 33	2-11
2.2.3	Tank 34	2-12
2.2.4	Tank 35	2-13
2.2.5	Tank 36	2-16
2.2.6	Tank 69	2-17
2.2.7	Tank 70	2-18
2.2.8	Electrical Control House (Building 227)	2-19
2.2.9	Petroleum Distribution Lines	2-19
2.2.10	Lawton Brook and Fuel Line on Burman Road	2-20
2.2.11	Former Burn Pit/Sand Filter (AOC 001)	2-21
2.2.12	Oil/Water Separator #3/Collection UST	2-22
2.2.13	Outdoor Electrical Transformers in AOC 20	2-22
2.2.14	Reported Sludge Pit	2-23
2.2.15	Investigations of Other AOCs	2-23
3.0	**SITE CONDITIONS**	**3-1**
3.1	BASIC SITE CONDITIONS	3-1
3.2	SURFACE WATER HYDROLOGY	3-2
3.3	GEOLOGIC CONDITIONS	3-2
3.3.1	Regional Geology	3-2
3.3.2	Site Geology	3-4
3.4	REGIONAL AND SITE-SPECIFIC HYDROGEOLOGICAL CONDITIONS	3-5
3.4.1	Regional Hydrogeology	3-5
3.4.2	Site Specific Hydrogeology	3-7
3.5	ECOLOGICAL CONDITIONS	3-8
4.0	**CONTAMINANT DISTRIBUTION**	**4-1**
4.1	CONTAMINANTS BY MEDIA	4-1
4.1.1	Soil	4-1
4.1.2	Groundwater	4-2
4.1.3	Surface Water	4-3

TABLE OF CONTENTS (cont.)

SECTION **PAGE**

4.2 REGULATORY CRITERIA 4-3
4.2.1 Surficial Soil and Unknown Soil Subgroups 4-3
4.2.2 Subsurface Soil Subgroup 4-4
4.2.3 Groundwater 4-4
4.3 AREAS OF INVESTIGATION 4-4
4.3.1 Category 1 – Contaminants/Areas Regulated under CERCLA 4-5
4.3.2 Category 2 – Petroleum Contaminants Regulated under CERCLA 4-7

5.0 CHEMICAL FATE AND TRANSPORT 5-1
5.1 FATE AND TRANSPORT PROCESSES 5-2
5.1.1 General Fate and Transport Processes of Soil Compounds 5-2
5.1.2 General Fate and Transport Processes of Groundwater Compounds 5-3
5.1.3 General Transport Processes of Chemicals in Sediment and Surface Water 5-7
5.2 CHEMICAL FATE AND TRANSPORT IN SITE SOILS 5-8
5.2.1 SVOCs Fate and Transport in Soils 5-8
5.2.2 PCBs Fate and Transport in Soils 5-9
5.3 CHEMICAL FATE AND TRANSPORT IN SITE GROUNDWATER 5-10
5.3.1 VOCs Fate and Transport in Groundwater 5-10
5.3.2 SVOCs Fate and Transport in Groundwater 5-10
5.4 CHEMICAL FATE AND TRANSPORT IN SITE SEDIMENT AND SURFACE WATER 5-11
5.5 SUMMARY OF FATE AND TRANSPORT 5-11

6.0 SUMMARY AND CONCLUSIONS 6-1
6.1 FINDINGS OF THE INVESTIGATION 6-1
6.1.1 Site Conditions 6-1
6.1.2 Contaminants Found 6-2
6.1.3 Risk Evaluations 6-2
6.2 CONCEPTUAL SITE MODEL 6-3
6.2.1 Primary Sources 6-4
6.2.2 Secondary Sources 6-4
6.2.3 Migration and Transport Mechanisms 6-5
6.2.4 Potential Human and Ecological Receptors 6-5
6.2.5 Potential Intake Routes 6-7
6.3 CONCLUSIONS 6-8
6.3.1 Category 1 Areas – Areas Regulated Under CERCLA 6-8
6.3.2 Category 2 Areas – Petroleum Contaminants Regulated Under RIDEM 6-9
6.3.3 Other Recommended Field Investigations/Inspections 6-10

TABLES

NUMBER

2-1 Summary of Investigation and Remedial Action in 2004
4-1 Analytical Results – Surface Soil Detected Compounds
4-2 Analytical Results – Subsurface Soil Detected Compounds
4-3 Analytical Results – Unknown Soil Detected Compounds
4-4 Analytical Results – Groundwater Detected Compounds
4-5 Sample Collection Summary
6-1 Summary of Results by Area and Category

TABLE OF CONTENTS (cont.)

FIGURES

NUMBER

1-1	Site Locus Map
1-2	Site Plan
1-3	Generalized Tank Construction
2-1	Sample Location Plan
2-2	Tank 32
2-3	Tank 33
2-4	Tank 34
2-5	Tank 35
2-6	Tank 36
2-7	Tank 69
2-8	Tank 70
2-9	AOC 1
2-10	AOC 14 and AOC 17
2-11	AOC 4, 5, 9, and 10
2-12	AOC 20

REFERENCES

APPENDICES

A	Field Sketches and Photographs from SIRAR
B	Boring Logs/ Well Completion Forms
C	Groundwater Contour Map
D	Analytical Database (Existing Conditions)

List of Abbreviations and Acronyms

AOC	Area of Concern
bgs	below ground surface
BSW	Bottom Sediment and Water
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAP	Corrective Action Plan
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLEAN	Comprehensive Long Term Environmental Action Navy
CTO	Contract Task Order
DEC	Direct Exposure Criteria
DESC	Defense Energy Support Center
DFSC	Defense Fuel Support Center
DFSP	Defense Fuel Support Point
DOD	Department of Defense
DRO	Diesel Range Organics
EEI	Envirodyne Engineers, Inc.
EPA	Environmental Protection Agency
FFA	Federal Facilities Agreement
FwEC	Foster Wheeler Environmental Corporation
GA	RIDEM groundwater classification
GTI	Groundwater Technology, Inc.
GRO	Gasoline Range Organics
GZA	GZA GeoEnvironmental, Inc.
IAS	Initial Assessment Study
ICDEC	Industrial/Commercial Direct Exposure Criteria
IR	Installation Restoration
JP-4, JP-5, JP-8	Jet Propulsion (JP) fuel

mg/L	milligrams per liter
MLW	Mean Low Water
NAVSTA	Naval Station
NETC	Naval Education and Training Center
NOV	Notice of Violation
ORNL	Oak Ridge National Laboratory
OWS	Oil Water Separator
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethylene
ppm	part per million
RDEC	Residential Direct Exposure Criteria
RIDEM	Rhode Island Department of Environmental Management
RIPDES	Rhode Island Pollution Discharge Elimination System
RSL	Regional Screening Level
RQD	Rock Quality Designation
SASE	Study Area Screening Evaluation
SIRAR	Site Investigation and Remedial Action Report
SSICAP	Supplemental Site Investigation Corrective Action Plan
SVOC	Semi-Volatile Organic Compound
TPH	Total Petroleum Hydrocarbons
TtEC	Tetra Tech EC, Inc.
TVPH	Total Volatile Petroleum Hydrocarbons
µg/L	micrograms per liter
UST	Underground Storage Tank
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This Study Area Screening Evaluation (SASE) report has been prepared to review and asses current environmental conditions at Tank Farm 3 (the Site) and to determine which portions of the Site, if any, require further investigation or remediation. This report will determine if there are remaining areas that require investigation or remediation under the United States Environmental Protection Agency (EPA) jurisdiction under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), or under Rhode Island Department of Environmental Management (RIDEM) underground storage tank (UST) regulations and/or the RIDEM Remediation regulations. It may also be established that portions of the Site require no further action.

Tank Farm 3 is located on the western shore of Aquidneck Island, in the southwestern portion of Portsmouth, Rhode Island. The Site slopes from a high area of approximately 100 feet above mean low water (MLW) datum in the south central portion of the Site, to a low of approximately 40 feet MLW on the northwest side of the Site (along Defense Highway), and to a low of approximately 10 feet MLW on the northeastern side of the Site (along Lawton Brook). Lawton Brook flows northwesterly across the Site, flows under Defense highway in culverts, and discharges into Narragansett Bay.

The Site contains five 1.18 million gallon concrete USTs and two 2.1 million gallon steel USTs. Throughout the history of the Site, these tanks were used to store aviation fuels and marine diesel fuel. All tanks are cylindrical in shape and their tops are approximately 5 feet below grade. The USTs were constructed in blasted bedrock sockets that were approximately 120 feet in diameter and 35 feet deep. Bedrock spoil material was typically placed around the tanks after construction and additional fill material was imported and used as cover for the USTs. The valve houses pump houses and vents are visible at grade.

The Site is covered with grass, scrub, trees, paved access roads, and miscellaneous structures associated with the storage and transfer of petroleum products such as transfer pumps and control chambers. Underground petroleum distribution lines interconnect the USTs. Support buildings/ structures are also located on the Site. Each tank is constructed with a ring drain, which acts as a groundwater drainage system, to relieve pressure from hydrostatic uplift. The ring drains connect to a common under-drainage pipe, which discharges via gravity to an oil/water separator (OWS) located in the northwest portion of the Site. Following processing in the OWS, water is discharged into Lawton Brook under a Rhode Island Pollutant Discharge Elimination System (RIPDES) permit. A 5,000 gallon underground storage tank is located adjacent to the oil/water separator which is used to store floating petroleum product that may accumulate.

The Site is owned by the Navy and was previously operated by the Defense Energy Support Center (DESC), an entity that provides the Department of Defense (DOD) and other governmental agencies with energy support, including alternative fuels, bulk fuels, and facilities and distribution management. The DESC formerly leased Tank Farm 3, from the Navy, using it for storage and transfer of petroleum products. The DESC has completed numerous environmental investigations and remedial actions at the Site, completed under the jurisdiction of RIDEM regulations and oversight.

An early 1980's surface spill of petroleum product was recorded and resulted in petroleum recovery, soil excavation, investigation and remediation. In 1992, a recorded leak in Tank 70 resulted in investigation and remediation being performed in this area. Tank and pipeline closures (performed in 1996 and 2000) were documented in two Tank Closure Reports, provided to the RIDEM UST Program. A site investigation and remedial action occurred in 2004 and was documented in the Site Investigation Remedial Action Report (SIRAR).

During the investigation for the SIRAR, over thirty Areas of Concern (AOCs) were investigated. Many of these areas were selected based upon the prior use of the Site and an extensive review of historical aerial photography. Following investigation through test pitting, 12 areas were remediated by excavation. Remedial excavations consisted of 5-foot square areas around the sample location that exceeded the standards. Soil excavation occurred in areas where the RIDEM industrial/commercial direct exposure criteria (ICDEC) for soils was exceeded. At RIDEMs request, an attempt was made to also reduce soil concentrations below the RIDEM residential direct exposure criteria (RDEC). Soil excavation resulted in most areas of contamination reduced to below ICDEC. However, several areas remained with concentrations above RDEC and two areas remained with concentrations above ICDEC.

In accordance with subsequent decisions made by the Project Team, the site has been broken up into Category 1 (CERCLA-regulated) areas and Category 2 (RIDEM UST Program regulated) areas. Also, RIDEM has identified several areas of potential concern and the Project Team has identified these as Category 3 areas. The Category 3 areas will be further evaluated to determine if additional investigation of these areas, if any, will be performed as a Category 1 or Category 2 area.

The Category 1 areas in Tank Farm 3 that are recommended for further investigation and would be regulated under CERCLA, are AOC 001 (Former Burn Sand Filter Pit), AOC 020 (Transformers) and Building 227 (Former Electrical Control House). Until around 1974, AOC 001 was used to process bottom sediment water (BSW) and groundwater from ring-drains around the tanks. The filtered water was discharged to Narragansett Bay and residual oil in the sand filter was reportedly burned or scraped off and removed. Total Petroleum Hydrocarbon (TPH) was detected in soil at AOC 001. The areas of TPH in soil elevated above RIDEM ICDECs in AOC 001 are limited in extent. During excavation and cleaning

of the burn pit in 2004, these areas were not accessible for excavation without undermining the structure of the burn pit. In addition, the location of the TPH contaminated soil is well below the existing grade making them difficult to access. Semi volatile organic compounds (SVOCs), typical constituents of TPH, or other individual contaminants, were not detected in soil samples from AOC 001. AOC 020 is an area where two pad mounted transformers are present and polychlorinated biphenols (PCBs) were detected in soil. This area is recommended for further investigation to determine the nature and extent of PCBs. In addition, Building 227 is recommended for further soil and groundwater investigation to ensure that it is not a source of contamination.

The Category 2 areas in the Tank Farm 3 to be addressed under RIDEM UST regulations include those areas exceeding RIDEMs RDEC or ICDECs. Additional investigation or remediation is not necessary for areas with contamination below ICDECs, but above RDEC; however, land use controls (LUCs) are required to provide protectiveness for these areas. The Navy will develop a Corrective Action Plan (CAP) under the UST Regulations to implement the required LUCs at these locations (Tank 32 vent, AOC 005, AOC 009, AOC 010, AOC 012, AOC 018 and AOC 029). Four Category 2 areas, AOC 004, AOC 017, AOC 023 and Tank 33, have soil or groundwater contamination exceeding ICDECs or RIDEM GA groundwater objectives and are recommended for further investigation under the RIDEM UST program and Site Remediation program. The Navy has initiated a contract to scope and develop a Category 2 SAP for these areas.

The other areas in Tank Farm 3 identified by RIDEM as potential areas of concern will be addressed as Category 3 areas. These areas will be further evaluated to determine if additional investigations are warranted. If it is determined that additional investigations are warranted it will be determined if they will be performed as a Category 1 or Category 2 AOC:

1) Potential floor drains within the valve house (Building 228)
2) An electrical substation (in the southwest corner of the property)
3) The location of a former pump house/ security shed (Building 108);
4) A stripper valve point (Building 229);
5) A possible additional oil water separator (OWS#4), and
6) Fencing.

1.0 INTRODUCTION

This SASE report has been prepared under the Comprehensive Long Term Environmental Action Navy (CLEAN) Contract No. N62470-08-1001, Contract Task Order (CTO) WE59 to provide a summary of environmental activities and conditions for Tank Farm 3, which is identified as Site 11 at Naval Station (NAVSTA)-Newport, and which is located in Portsmouth Rhode Island (the Site). Tank Farm 3 is part of the former Defense Fuel Support Point (DFSP) Melville, RI. The former DFSP Melville was a fuel receipt, storage, and issue facility that provided fuel support to authorized DOD customers. The DFSP Melville consisted of Tank Farms 1, 2, and 3 and the main fuel terminal.

The Site is owned by the Navy and was previously operated by the DESC, an entity that provides the DOD and other governmental agencies with energy support, including alternative fuels, bulk fuels, and facilities and distribution management. For many years, the DESC leased Tank Farm 3 from the Navy and formerly used the Site for storage and transfer of petroleum products. DESC has completed numerous environmental investigations and remedial actions at the Site which have been completed under the jurisdiction of RIDEM regulations and with RIDEM oversight.

1.1 SITE-SPECIFIC INVESTIGATION OBJECTIVES

The objective of this report is to review and asses current environmental conditions at the Site and to determine which portions of the Site, if any, require further investigation or remediation. Additionally, this report will determine if any of such remaining areas require investigation or remediation under the US Environmental Protection Agency (EPA) jurisdiction under the CERCLA, or under RIDEM UST regulations and/or the RIDEM Remediation regulations. It may also be established that portions of the Site require no further action.

This SASE report was produced using data from samples and field observations collected during previous field investigations conducted by others for the Navy and/or DESC. The information gathered from the previous investigations was used to identify and characterize environmental contamination resulting from former fuel releases and disposal activities at Tank Farm 3 and to assess potential pathways for releases of contamination to the soil, sediment, surface water and groundwater.

Section 2.0 of this report presents a description of the field work performed during the previous field investigations. Tasks are listed in chronological order of execution. Sample collection procedures and analytical parameters are also described in this section. Section 3.0 presents a summary of the physical conditions at the Site including basic site features, geology, and hydrogeology. Section 4.0 presents the data collected and the findings of the sample collection from the 2004 and 2009 investigations. Section

5.0 presents a brief description of fate and transport characteristics of the contaminants detected, and Section 6.0 presents the Data Summary, Site Conceptual Model and Conclusions.

1.2 BACKGROUND INFORMATION

The following section presents the background information about the Site. A description and history of the Site and the surrounding region is detailed.

1.2.1 Site Location

Tank Farm 3 is located on the western shore of Aquidneck Island, in the southwestern portion of Portsmouth, Rhode Island, approximately 1 mile south of the DESC Melville Terminal. Figure 1-1 presents the site location map. The 40-acre site is adjoined by the Navy's Defense Highway (Burma Road) to the northwest, Raytheon's Submarine Signal Division plant to the northeast, Bayview Estates (residential condominiums) to the southeast, and newer residential properties to the southwest. Other nearby features include: Tank Farm 4 (located 700 feet south of the Site); Narragansett Bay (located about 200 feet northwest of the Site); and the Lawton Valley Reservoir (located 2,000 feet southeast of the Site). The Lawton Valley Reservoir is a drinking water supply for the City of Newport and the Towns of Middleton and Portsmouth, and is located hydraulically upgradient of the Site to the southeast.

1.2.2 Site Description

The Site slopes from a high area of approximately 100 feet above MLW datum in the south central portion of the Site, to a low of approximately 40 feet MLW on the northwest side of the Site (along Defense Highway), and to a low of approximately 10 feet MLW on the northeastern side of the Site (along Lawton Brook). Lawton Brook flows northwesterly across the Site, flows under Defense highway in culverts, and discharges into Narragansett Bay.

The Site consists of five 1.18 million gallon-capacity concrete USTs (Tanks 32 to 36) and two 2.1 million gallon-capacity steel USTs (Tanks 69 and 70) as shown on Figure 1-2. A typical UST schematic is presented as Figure 1-3. Throughout the history of the Site, these tanks were used to store aviation fuels (jet propulsion (JP)-4, JP-5, and JP-8) and marine diesel fuel.

All tanks are cylindrical in shape, set vertically within the ground, and their tops are approximately 5 feet below grade. Tanks 32 through 36 are 100 feet in diameter and 20 feet tall. Tanks 69 and 70 are 118 feet in diameter and 24 feet tall. The USTs were constructed in blasted bedrock sockets that were approximately 120 feet in diameter and 35 feet deep. Bedrock spoil material was typically placed around

the tanks after construction and additional fill material was imported and used as cover for the USTs. The valve houses, pump houses and vents are visible at grade.

The Site is covered with grass, scrub, trees, paved access roads, and miscellaneous structures associated with the former storage and transfer of petroleum products such as transfer pumps and control chambers. Two outdoor electrical transformers are located in the southwest portion of the Site and an indoor electrical transformer is located in the electrical control house (structure 227). Underground petroleum distribution lines interconnect the underground storage tanks. These fuel lines are located approximately 4 feet below grade and run underground to the DFSC Melville Terminal located one mile north of the Site.

Each tank is constructed with a ring drain, which acts as a groundwater drainage system, to relieve pressure from hydrostatic uplift. The ring drains are reportedly 6 or 7 feet above the bottoms of the tanks. The ring drains connect to a common 12-inch diameter underground under-drainage pipe, which discharges via gravity to an OWS (OWS No. 3) located in the northwest portion of the Site.

The OWSs' design flow rate is 250 gallons per minute, and following processing in the OWS, water is discharged into Lawton Brook. The OWS outfall (outfall #005) is located immediately upstream of the Lawton Brook culvert under Defense Highway as shown on Figure 1-2. Outfall #005 is regulated by a RIPDES permit. A 5,000 gallon UST is located adjacent to the OWS which is used to store petroleum product captured by the OWS.

1.2.3 Facility History

The United States Navy has owned this property since at least the 1940s. Tanks 32 to 36 were installed in the early 1940s and Tanks 60 and 70 were installed in 1953 and 1954, respectively. The tank farm was operated by the Navy from the 1940s to 1974, and has been controlled by DESC ever since. Between 1996 and 2000 DESC conducted tank closure activities, including the inspection and cleaning of, USTs and accessible, associated, auxiliary equipment such as pumps, interior pipelines, and vaults. The USTs were certified as suitable for closure in accordance with the RIDEM UST closure criteria. In addition, the fuel distribution pipelines associated with the USTs and the transfer pipe loop were permanently decommissioned. However, RIDEM has not issued closure certificates for the tanks and fuel lines and indicates that the tanks and fuel lines may require additional investigation. Presently, DESC maintains control of the facility, but as of 1998 has ceased operation at the property.

Tanks 32 to 36 were formerly used to store marine diesel fuel and were changed over to storing JP-5 jet fuel between 1978 and 1986, and then to JP-8 in 1994. Tanks 69 and 70 were formerly used to store JP-5 jet fuels and were changed over to storing JP-4 jet fuel in 1980 and 1993, respectively, and then

changed back to JP-5 in 1994. Tank closure activities were performed on two occasions, in 1996 and in 2000. Most of the Site fuel line closure also occurred in 1996. In 1998 the fuel lines along Defense Highway were closed. Details regarding the closure of the tanks and the lines are provided in Section 2.1.2.

In addition to cleaning the tanks, the tank bottoms were periodically stripped to remove bottom sediments and water. To conduct this effort prior to 1974, the tank bottoms were reportedly pumped to a sand filter that was located northwest of Tank 32 (Figure 1-2). The filtered water was reportedly discharged into Narragansett Bay. Residual oil remaining in the sand filter was reportedly burned or scraped off and removed to an off-site location. This sand filter was also apparently used in the past for the discharge of groundwater from the ring drains (prior to the installation of the OWS). Since 1974, the tank bottoms have reportedly been disposed of at off-site facilities, and the OWS was installed, for use in processing groundwater from the ring drains as described in Section 1.2.2.

1.2.4 Previous Site Investigations and Remediation/ Closure Activities

Numerous environmental investigations, remedial action and closure activities have been conducted at the Site. A summary of the major investigations are provided here and details are provided in Section 2.0.

- As part of Envirodyne Engineers, Inc. (EEI) Initial Assessment Study (1983) the Site was evaluated and additional studies throughout NAVSTA Newport were recommended. The recommendation was that Tank Farm 4, which had similar features, activities and history, be investigated through sampling and analysis, and based upon the findings at Tank Farm 4, it would be determined weather similar investigations would be recommended for other tank farms, including Tank Farm 3.

- In September, 1992 a release of petroleum was observed from Tank 70 and a Notice of Violation (NOV) was issued by RIDEM in response to the leak. The NOV required well installation and soil and groundwater sampling and analysis in the vicinity of Tank 70. Groundwater Technology, Inc. (GTI) installed 7 groundwater monitoring wells and performed the required sampling and analysis. This subsurface investigation was documented in the report “Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located in Tank Farm 3” (GTI, 1992). This report concluded that the release from Tank 70 was from the tank foundation and there were minor and limited impacts to soil and groundwater.

- In 1994, an Environmental Site Investigation was conducted by GZA GeoEnvironmental, Inc. (GZA) in order to evaluate the nature and extent of contamination at the Site. This investigation

was documented in “Environmental Site Investigation, Defense Fuel Supply Center, Tank Farm 3” (GZA, 1995). Based upon this work, separate phase floating product was found downgradient of Tanks 34, 35 and 36. The separate phase product northeast of Tank 35 was attributed to an early 1980’s overfilling accident where about 50,000 to 60,000 gallons of JP-5 was spilled on the ground surface. Additional subsurface investigation was recommended.

- In response to the 1980's surficial spill at Tank 35 a SSI was conducted by GZA in 1996 (GZA, 1996).

- A soil gas survey was conducted in 1997 to evaluate soil conditions near the petroleum distribution lines (GZA, 1998c).
- Also in 1997 a SSI and CAP was conducted in order to further investigate contamination resulting from the surficial spill at Tank 35 in the early 1980s (GZA, 1998a).

- A Tank Closure Report was produced by GZA in 1998 to report on closure activities that occurred between August and December of 1996 (GZA, 1998b).

- In 1999 Foster Wheeler Environmental Corporation (FwEC) conducted a groundwater monitoring round at the Site to further investigate potential groundwater contamination (FwEC, 1999).

- A soil removal action was conducted in the vicinity of Tank 35 by FwEC in 1999 in order to remediate contaminated soil caused by the surficial spill that occurred in the early 1980s (FwEC, 2000).

- In 2000 FwEC conducted an additional closure of the tanks at the Site taking into consideration the conclusions and recommendations made by GZA in their initial Tank Closure Assessment Report from 1998 (FwEC, 2001).

- A SIRAR was conducted in 2004 by Tetra Tech EC, Inc. (TtEC). The purpose of this investigation was to investigate and remediate areas of the Site affected by historical use of the Site for storage and distribution of petroleum products (TtEC, 2005).

- Regular free-phase thickness monitoring and groundwater sampling has occurred at the Site. In addition, a program of manual removal of free phase floating petroleum product from monitoring wells that exhibited greater than 0.1 foot of floating product was performed. The most recent groundwater monitoring event occurred in 2009 (TtEC, 2009).

Details about previous site investigations and remediation/ closure activities are further described in Section 2.0.

1.2.5 Records of Historical Fuel Spillage and Waste Disposal Practices

In the early 1980s Tank 35 was overfilled and JP-5 flowed over and seeped into soil east of the tank. Approximately 50,000 to 60,000 gallons were spilled and about 4,000 gallons were recovered. In 1998 GZA submitted to RIDEM a Supplemental Investigation (SI) and CAP regarding the remediation of any contaminated soils as a result of this release (GZA, 1998a). In the summer of 1999 FwEC responded to RIDEM's comments and initiated the remediation. In September of 1999 excavation work began on the east side of Tank 35 in order to remove the contaminated soils. TPH levels in the original excavation exceeded RIDEMs RDEC so in October of 1999 additional soil was removed from the excavation wall closest to Tank 35. During the initial excavation about 1200 cubic yards of soil were removed, and about 600 cubic yards were removed in the second excavation. To confirm that no further contamination remained, several test pits were excavated beyond the limits of the excavation. Headspace results, as well as visual and olfactory observations, indicated that no further contamination existed within these test pits.

In 1992, NOV was issued by RIDEM in response to an observed petroleum leak at Tank 70. This NOV required the installation of groundwater monitoring wells, as well as the collection of soil and groundwater samples for laboratory analysis to investigate the leak. In response to this groundwater monitoring wells GT-301 to GT-307 were installed, soil samples were collected during installation and groundwater samples were collected upon completion (GTI, 1992).

Interviews with previous workers at the Site suggested the presence of a sludge pit consisting of tank cleaning wastes from Tanks 69 and 70 on the Site. This sludge pit was reportedly located southeast of the electrical control house (Figure 1-2). The possible presence of this sludge pit was investigated during the SIRAR (TtEC, 2005). Evidence of sludge disposal was not found.

2.0 SITE INVESTIGATION ACTIVITIES

This section presents a summary of the historical SI activities that were conducted at Tank Farm 3. These include the Tank Farm 3 Initial Assessment Study (EEI, 1983), the Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located In Tank Farm 3 (GTI, 1992), Environmental Site Investigation (GZA, 1995), Supplemental Site Investigation (GZA, 1996), Soil Gas Survey (GZA, 1998c), Supplemental Site Investigation and Corrective Action Plan (GZA, 1998a), Tank Closure Assessment Report (GZA, 1998b), Groundwater Sampling for Fuel Loading Area and Tank Farms 1, 2, and 3 (FwEC, 1999), Tank Farm 3 Soil Removal Activities in the Vicinity of Tank 35 (FwEC, 2000), Closure Report for Underground Storage tanks at Tank Farm 3 (FwEC, 2001), and the SIRAR (TtEC, 2005).

Sampling programs conducted at Tank Farm 3 have included the collection of surface soil, subsurface soil, ground water, surface water, and soil gas. Analytical results for these sampling activities are presented in Section 4 of this report.

2.1 HISTORICAL RELEASES SITE INVESTIGATIONS

The following sections provide an overview of historical releases and site investigation activities that have been performed at the Site.

2.1.1 History of Releases

Reportedly, in the early 1980's, Tank 35 was inadvertently overfilled resulting in JP-5 spilling onto the ground surface from the vent line. It was estimated that between 50,000 and 60,000 gallons were released and 4,000 gallons were recovered.

During cleaning of Tank 70 in September, 1992, Management Engineering Associates reportedly observed petroleum seepage near the bottom of the tank. The leak was reportedly sealed and the tank subsequently passed a tightness test. As a result of this release, a NOV was issued to DFSC by RIDEM. By March of 1993, DFSC reportedly obtained permission from RIDEM to re-use this tank.

In 2008 an emergency removal at the intersection of Lawton Brook and Burma Road was conducted. During test pitting and soil removal, petroleum hydrocarbons were used as the target field screening compound, soils were analyzed by Petroflag™ analysis during the investigations. Samples with screening results over 100 parts per million (ppm) were further analyzed for TPH by a laboratory using EPA Method 8015 for diesel range and gasoline range organics (DRO and GRO). If Petroflag™ or

subsequent laboratory analysis for TPH was below 100 ppm, no further action was required. This 100 ppm screening threshold was agreed upon by RIDEM, DESC, and the Navy prior to the commencement of this field work. If laboratory results indicated TPH results greater than 100 ppm and less than 500 ppm, additional analysis for Volatile Organic Compounds (VOCs) and SVOCs were performed for comparison to RIDEM RDEC and ICDEC. Further information on the outcome of this action is provided in Section 2.1.2.

2.1.2 History of Site Investigations and Remedial Actions

Initial Assessment Study (EEI, 1983)

In March 1983, Envirodyne Engineers Inc. completed a Final Initial Assessment Study of 18 study areas at the Naval Education and Training Center (NETC) facility, including Tank Farm 3. This study was performed for the Navy to identify potential threats caused by past practices at the Newport Naval Station, then referred to as NETC Newport. The study did not include any soil or groundwater sampling but identified that tank bottom sludge may have been disposed of in a burning chamber (later identified as the sand filter) at Tank Farm 3 and recommended additional studies be performed.

Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 (GTI, 1992)

As a result of the recorded leak in Tank 70, RIDEM issued a NOV to DFSC in September 1992. The NOV required well installations and soil and groundwater testing in the vicinity of Tank 70. As a result, GTI advanced seven monitoring wells (GT-301 to GT-307). These monitoring wells were installed as either bedrock monitoring wells or bedrock/overburden interface monitoring wells. Soil and groundwater samples taken from these borings/ monitoring wells were analyzed for benzene, toluene, ethyl benzene, and xylene (BTEX) (Figure 2-1). A composite soil sample from borings GT-301 through GT-307 was analyzed for VOCs, SVOCS, metals and PCBs. A composite groundwater sample from GT-301 and GT-302 was analyzed for SVOCs, metals and PCBs. Results indicated that low levels of BTEX compounds were present in soil and groundwater samples below regulatory criterion, with the exception of benzene in groundwater from one monitoring well. The composite soil sample results did not indicate elevated concentrations of SVOCs, PCBs or metals.

Environmental Site Investigation (GZA, 1995)

During 1994, GZA installed sixteen groundwater monitoring wells across the Site (GZ-301 to GZ-316). The wells were installed downgradient of or within the Tank 35 spill area, downgradient of the outdoor electrical transformers, downgradient of the former sand filter/ burning pit; downgradient of an

underground fuel oil line, and downgradient of the USTs (Figure 1-2). The well screens were set to intersect the water table. Fifteen of the wells were installed as bedrock wells or bedrock/overburden interface monitoring wells. GZ-308 was installed as an overburden monitoring well.

Groundwater samples from new and existing wells were analyzed for VOCs, Total Volatile Petroleum Hydrocarbons (TVPH), TPH and one was analyzed for PCBs. Groundwater results indicated that separate phase petroleum product (between 0.01 and 0.03 feet) was measured in the vicinity of (GZ-310) and downgradient of (GZ-315) the 1980's surficial spill of JP-5. The floating product was measured in the bedrock. Moderate to high concentrations of dissolved petroleum hydrocarbons were detected in the vicinity of the 1980's release and downgradient of Tank 34 (GZ-307) and Tank 36 (GZ-311). Low concentrations of petroleum were found in groundwater beneath the remainder of the Site. Low concentrations of VOCs (petroleum-related) were detected in groundwater throughout the Site.

A soil sample from each boring was analyzed for VOCs, TVPH and TPH and one soil sample was analyzed for PCBs. Soil sample results indicated that elevated TPH, TVPH, and petroleum-related VOCs were present in two soil samples from the area of the 1980's surficial spill at Tank 35 (GZ-309 and GZ-310). One soil sample collected downgradient of the OWS contained slightly elevated concentrations of TPH, TVPH and petroleum-related VOCs. PCBs were not detected in the surface soil sample (GZ-314) collected near the outdoor electrical transformer.

Three surface water samples (an upstream, midstream and downstream location) from Lawton Brook were collected and analyzed for VOCs, TVPH, and TPH (Figure 2-1). The surface water analytical results indicated chlorinated VOCs in all three samples, and TVPH in two samples. Chlorinated VOCs and TVPH were not attributed to operations at the Site, but rather to an offsite source as discussed further in Section 4.1.3.

The recommendations in the report included additional groundwater sampling in the vicinity of the 1980's Tank 35 spill and downgradient of Tanks 34 and 35 to better define nature and extent of contaminants, and tightness testing of Tanks 34 and 36.

<u>Supplemental Site Investigation (GZA, 1996)</u>

The SSI was performed in 1995 and 1996 to further evaluate the nature and extent of contamination in the vicinity of the 1980's spill and downgradient of Tanks 34 and 35. Ten shallow soil borings were advanced in the area of the 1980s surficial spill. Twelve monitoring wells (GZ-317 through GZ-328) were installed; soil and groundwater samples were collected and analyzed.

Thirty eight soil samples were analyzed for TPH, 6 soil samples were analyzed for VOCs and Polycyclic Aromatic Hydrocarbons (PAHs). The results of the soil sampling and analysis indicated that soil from borings B-1 and B-2 (in the area of the 1980's release at Tank 35) exceeded 1,000 ppm, the upper TPH RIDEM direct exposure guideline for residential use. One additional location (B-6) provided TPH concentrations between the low and high RIDEM soil objective range of 500 to 1,000 ppm. Elevated concentrations of PAHs and VOCs were detected in soil from B-1. The VOCs and PAHs detected are associated with petroleum products.

Groundwater samples from 34 monitoring wells were collected and analyzed for PAHs. Groundwater samples from the 12 new monitoring wells were analyzed for VOCs, TPH and TVPH.

This investigation concluded that separate phase petroleum product was present on the groundwater table in four areas of the Site:

1) downgradient of Tank 33 (at GZ-304);
2) downgradient of Tank 34 (at GZ-323);
3) downgradient of an underground fuel pipeline (GZ-318); and
4) in the area of the 1980's release to the ground surface (Tank 35 vent).

Low levels of PAHs were detected in 4 groundwater samples (GZ-310, GZ-318, GZ-323, and GZ-325). The PAHs detected were attributed to the presence of separate phase petroleum product and were petroleum related PAHs (naphthalene, methyl naphthalene, and phenanthrene). TPH was detected in three groundwater samples, (GZ-318, GZ-323 and GZ-325) and all three locations had separate phase petroleum product observed. Low levels of VOCs were detected in groundwater from 4 wells (GZ-318, GZ-3232, GZ-324 and GZ-325). With the exception of one detection of tetrachloroethylene (PCE), in one monitoring well (GZ-323, located adjacent to Tank 34), all of the VOCs detected were associated with petroleum products. Exceedances of the RIDEM GA standards for naphthalene (in four groundwater samples) and PCE (in one groundwater sample) were reported. The elevated naphthalene concentrations were attributed to the presence of separate phase petroleum product.

GZA recommended additional monitoring wells downgradient of Tank 33 and the underground fuel pipe line in the vicinity of GZ-318.

<u>Supplemental Site Investigation and Corrective Action Plan (GZA, 1998a)</u>

As recommended in the 1996 SSI Report, additional investigation was performed to assess the extent of petroleum hydrocarbon contamination downgradient of Tank 33 and downgradient of the underground

fuel pipe line in the vicinity of GZ-318. Four additional groundwater monitoring wells (GZ-329 through GZ-332) were installed and soil and groundwater samples were collected. GZ-330 and GZ-332 were located downgradient of Tank 33 and GZ-329 and GZ-331 were located downgradient of the underground fuel pipeline downgradient of GZ-318, as shown on Figure 2-1. Four soil samples were analyzed for TPH, PAHs and VOCs. TPH was detected at a low concentration (below applicable RIDEM criteria) in one soil sample and VOCs and PAHs were not detected.

Groundwater samples were collected from the new monitoring wells. One petroleum-related VOC and TVPH were detected at low concentrations in the sample from GZ-329. Other contaminants (with the exception of chloroform, determined to be a laboratory artifact) were not detected.

A bedrock pump test was performed in the vicinity of the release to the ground surface that occurred in the 1980's. In order to perform this test, a recovery well (RW-301) and three monitoring wells (GZ-333 through GZ-335) were installed (Figure 1-2). The results of the pump test indicated that the bedrock had low transmissivity. In addition, it was concluded that the separate phase product was only intermittently present and was not present in quantities that were recoverable by pumping. The CAP therefore called for the collection of floating product that may occasionally appear in wells and the excavation of TPH contaminated soil in the area of the 1980's release.

Draft Tank Closure Assessment and Report (September, 1998b)

The UST closure activities were performed on the 7 tanks between August and December, 1996. Residual fuels, water and sludge were removed from the tanks. The tank interior surfaces were cleaned with a degreaser, and the interior epoxy coating on Tank 69 was removed through sandblasting. Accessible appurtenances associated with the USTs were cleaned. Following cleaning, a marine chemist inspected each tank to evaluate the presence of residual petroleum product and to observe atmospheric conditions inside the tanks. A structural inspection was performed on all tanks. The structural assessment reported that there were several cracks on the floor of Tank 35 and groundwater was seeping into Tank 69 through pinholes in floor seams.

Groundwater samples were collected, proximate to Tanks 32, 33, 34, 35, 36, 69 and 70, and analyzed for VOCs, SVOCs and TPH. Results indicated one compound (naphthalene) present above the RIDEM GA groundwater objective in one location (downgradient of Tank 33).

As a part of the Tank Closure Assessment, 10,553 linear feet of fuel distribution pipelines associated with each tank and the transfer pipe loop were decommissioned. To decommission, the pipeline was purged, cleaned and following the decommissioning of the underground fuel distribution pipe line, a soil gas survey was performed. The objective was to evaluate possible vadose zone contamination in the vicinity of the underground fuel distribution line. Soil vapor samples at 27 locations along the pipelines were collected and analyzed for total VOCs using field screening techniques (Figure 2-1). Instrument response was low, typically non detect but always less than 2 ppm. The decommissioned piping was left in place.

Draft Underground Fuel Line Closure and Soil Gas Survey Report (GZA, 1998c)

This investigation included cleaning and decommissioning fuel oil transfer pipelines and performing a soil gas survey at the fuel loading area and along Defense Highway. A minor portion of this work was performed at the Site (along Defense Highway). The eastern site boundary is about 200-feet east of the location where Lawton Brook flows under Defense Highway. About 400 linear feet of pipeline at Tank Farm 3 (along Defense Highway) was decommissioned under this project. Following decommissioning of the pipelines, a soil gas survey was performed. Soil gas samples SG-1 through SG-4 were collected along this 400-linear feet, at the locations shown on Figure 2-1. Soil vapor samples were collected and screened for total VOCs using field screening techniques. Results indicated that SD-2, located near where the pipeline transverses Lawton Brook, contained elevated concentrations of total VOCs. Additional investigation was recommended in this area.

Tank Farm 3 Soil Removal Activities in the Vicinity of Tank 35 (FwEC, 2000)

In September, 1999, soil excavation was performed in the vicinity of Tank 35 where there was a release of JP-5 to the ground surface in the 1980's. As part of this excavation, monitoring well GZ-309 was decommissioned. During the excavation about 1,200 cubic yards of soil were removed. An area about 30-feet by 70-feet by 10 feet deep (where bedrock was encountered) was excavated. In October 1999, based upon confirmatory sampling and analysis, an additional 650 cubic yards of soil was excavated near the Tank. Confirmatory sampling and analysis was performed for metals, SVOCs, VOCs and TPH. Results indicated that TPH concentrations were below RIDEM ICDEC in all samples except one (SS01), collected from a depth of 14 feet bgs. Furthermore, the RIDEM ICDEC for arsenic was exceeded in all samples. The arsenic concentrations reported were suggestive of elevated background concentrations.

Closure Report for Underground Storage Tanks at Tank Farm 3 (FwEC, 2001)

Between October and December 2000, FwEC performed additional closure activities on the USTs. At this time the 7 USTs (Tanks 32-36 and Tanks 69-70) were again emptied and tank interiors were again cleaned. Each tank was inspected and areas identified as points where groundwater can infiltrate were repaired. Again, a marine chemist inspected and certified the tanks physical and atmospheric conditions were adequate for closure.

About 10,275 linear feet of fuel distribution piping were inspected. FwEC re-verified that the piping was cleaned and decommissioned. If the inspection indicated a length of pipe contained liquids, elevated gases or VOCs, the pipe was cleaned again. A marine chemist inspected and verified that it met atmospheric and physical criteria for closure. After verification the piping was sealed using marine hydraulic cement.

Site Investigation Remedial Action Report (TtEC, 2005)

The SIRAR summarizes work performed at Tank Farm 3 between May 2004 and April 2005, to identify and remediate AOCs at the Site. Work was performed in accordance with the Work Plan for Site Closure (FwEC, 2002) and RIDEM comments.

Soil investigation included test pitting and surface soil sampling to fill data gaps identified in FwEC, 2002. In addition, a review of historical aerial photographs was performed to assist in identifying possible areas of disposal at the Site.

Field screening analysis for TPH were used in this investigation/remediation. This analysis was conducted by Petroflag™ analysis of samples. Samples providing results over 100 ppm were sent to a fixed-base analytical laboratory for TPH analysis using EPA Method 8015 for DROs and GROs. If Petroflag™ or laboratory analysis for TPH was below 100 ppm, no further action was taken. If laboratory results indicated TPH concentrations greater than 100 ppm and less than 500 ppm, the samples were analyzed for VOCs and SVOCs.

Soil excavation occurred in areas where the RIDEM ICDEC for soils were exceeded. An attempt was made to also reduce soil concentrations below the RIDEM RDEC.

The following specific areas were investigated and remediated, as described:

1) AOCs identified by aerial photography and site knowledge

As summarized in Table 2-1, over thirty AOCs were investigated and 12 AOCs required remediation. Remedial excavations consisted of 5-foot square areas around the sample location that exceeded the standards. Petroflag™ analysis was used to guide excavations and confirmatory sampling and analysis was performed on all sidewalls and the excavation base. Some areas (AOC 001, AOC 004, AOC 005, AOC 009, AOC 010, AOC 012, AOC 017, AOC 018, AOC 029 and the Tank 32 Vent) remained with concentrations of TPH in soil above RDEC and/or ICDEC. These areas are discussed further in Section 4.0.

2) Tank walls and vents

Tank walls of the seven former USTs were investigated by test pits. Test pits were excavated adjacent to the downgradient side of each UST to an approximate depth of 10 feet bgs. Figures 2-2 through 2-8 show approximate locations of test pits adjacent to each UST. Appendix A provides field sketches of test pits from the SIRAR. Samples were collected from each test pit. None of the test pits required further action based upon the analytical results. Surface soil sampling and analysis was performed beneath each tank vent. None of these areas required remediation, based upon these sampling results.

3) Oil/water separator #3

OWS #3 originally received BSW from Tanks 69 and 70 via an underground gravity drain pipe. During the same time, BSW from Tanks 32 through 36 were processed through the sand filter pit. In 1976, a new pipe was installed to direct the BSW from tanks 32-36 through the OWS prior to discharge.

OWS #3 was investigated by excavating test pits on the outside of the secondary containment and obtaining a wall scrape sample (TF3-O/W-SEP-3) from the inside of the secondary containment. Soils did not require remediation in accordance with the work plan. In addition, the report from the analysis of the scrape sample indicated a low concentration (530 mg/kg) of DRO present.

4) Swales

Drainage features with the potential to discharge surface water from the Site to off-site areas were sampled. Areas likely to receive site runoff from potential source areas, based upon local topography, were targeted and five locations were selected. Soil samples were collected from a depth of one-foot at each location. These samples were designated TF3-DSW-1 through TF3-DSW-5. Concentrations of TPH in these samples ranged from 11 to 436 mg/Kg (below the RIDEM criteria), and remediation of the drainage swales was not required.

5) Former Valve House (Building 228)

Soil surrounding pipes entering and exiting the building (Figure 1-2) were excavated. Two samples were taken beneath the fuel lines near the north wall of the building and six samples were taken beneath the piping near the south wall of the building. Results indicated that none of the samples analyzed exceeded the ICDEC or the RDEC and soils therefore did not require remediation.

6) Transformer locations

AOC-20 consists of the location of a former transformer blockhouse that was replaced in 1980 with two new transformers (Figure 1-2). AOC-20 was test pitted and sampled and did not require excavation. Soil sampling and analysis for PCBs was performed. Samples were collected around the base of the two new electrical transformers. Both of these transformers were mounted on concrete pads and labeled as non-PCB containing. These samples were designated with the prefix TF3-TF1 (for the first transformer) and TF3-TF2 (for the second transformer). Reported analytical results were below the RIDEM criteria and remediation was not required. These results are discussed in Section 4.3.3.

7) Sitewide Groundwater

As part of the SIRAR, thirty wells were sampled and groundwater was analyzed for VOCs, SVOCs and TPH (DRO) (Tables 4-4 and 4-5). Petroleum-related compounds were not detected above criteria. Bis-2-ethylhexy phthalate was detected above the groundwater standard in samples from four wells. This contaminant was attributed to its presence in well screen material and/or its presence in analytical laboratory environments. No measurable non-aqueous phase liquids were detected, however sheens were detected in groundwater from eight wells.

2.2 DESCRIPTION OF INVESTIGATIONS AT INDIVIDUAL AREAS

This section describes sampling and analysis performed within individual area of the Site. Table 2-1 provides a summary of the investigation and remedial actions completed in individual areas during the SIRAR and Appendix A provides copies of the SIRAR documentation of test pitting and associated sampling performed in these areas.

2.2.1 Tank 32

One soil boring was advanced at Tank Farm 3 in association with Tank 32. Soil boring GZ-302 was advanced downgradient of Tank 32 as a part of the Environmental Site Investigation effort in 1995. Samples were collected as described above in 5 foot intervals. The sample collected from the 5-7 foot interval was sent to the lab and analyzed for TPH, TVPH and VOCs.

GZ-302 was constructed as a groundwater monitoring well and was sampled as part of the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH and VOCs; the Supplemental Site Investigation, when the sample was analyzed for PAHs; a ground water monitoring event conducted in June of 1999, when the sample was analyzed for TPH, VOCs, SVOCs and total metals; and the SIRAR field work, when the sample was analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997 soil gas at stations SG3-3, SG3-15 and SG3-16 were monitored near Tank 32 (Figure 2-1, Figure 2-2).

In 2004 a test pit was excavated on the north side of Tank 32 to a depth of 10 feet bgs. Samples were collected on all four walls of the test pit at 5 feet bgs and one sample from the bottom of the test pit. One additional surface soil sample was collected beneath the vent pipe at Tank 32 (Figure 2-2). The sample collected from the bottom of the test pit and the sample collected from beneath the vent pipe were both analyzed in the laboratory for TPH.

Results of sampling and analysis in this area indicated that remediation was not required at this location. This tank was closed as described in Section 2.4 below with the other six USTs at Tank Farm 3.

2.2.2 Tank 33

Three soil borings were advanced at Tank Farm 3 in association with Tank 33. GZ-304 and GZ-305 were advanced during the Environmental Site Investigation, while GZ-330 was advanced during field work conducted for the Supplemental Site Investigation Corrective Action Plan (SSICAP) (Figure 2-3). Samples were collected as described above at 5 foot intervals. Samples collected from the 0-2 foot interval at soil borings GZ-304 and GZ-305 were analyzed for TPH, TVPH and VOC analysis. At GZ-330 the sample collected from the 5-7 foot interval was analyzed for TPH, VOCs and PAHs.

All three soil borings mentioned above were constructed as groundwater monitoring wells. Groundwater from GZ-304 was sampled as part of the Environmental Site Investigation, when the groundwater was analyzed for TPH, TVPH, and VOCs; the Supplemental Site Investigation, when the groundwater was analyzed for PAHs; and the SIRAR field work, when the groundwater sample was analyzed for VOCs, SVOCs and DRO. Groundwater form GZ-305 was sampled on four occasions; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; the Supplemental Site Investigation, when the sample was analyzed for PAHs; as part of a groundwater sampling round in June 1999, when the sample was analyzed for TPH, VOCs and SVOCs; and the SIRAR field work, when the sample was analyzed for VOCs, SVOCs and DRO.

Groundwater from GZ-330 was sampled on three occasions; the SSI CAP, when the sample was analyzed for VOCs, TVPH and TPH; as part of a groundwater sampling round in June of 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR field work, when the sample was analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997 soil gas at stations SG3-5, SG3-6 and SG3-7 were monitored in association with Tank 32; locations are shown on Figure 2-1 and Figure 2-3.

As part of the SIRAR field work a test pit was excavated on the north side of Tank 33 to a depth of 10 feet below ground surface (bgs). Samples were collected from all four walls of the test pit at 5 feet bgs and one sample was collected from the bottom of the test pit. One additional surface soil sample was collected from beneath the vent pipe at Tank 33 (Figure 2-3). This surface soil sample was analyzed for TPH using under Petroflag™ screening analysis. Field Petroflag™ analytical results did not exceed the threshold that would have required the other samples to be sent to the laboratory for further analysis.

This tank was closed as described in Section 2.4 below with the other six underground storage tanks at Tank Farm 3.

2.2.3 Tank 34

Six soil borings were advanced at Tank Farm 3 in association with Tank 34. GZ-306 and GZ-307 were advanced during the Environmental Site Investigation, while GZ-320, GZ-321, GZ-322 and GZ-323 were advanced during field work conducted for the SSI at locations shown on Figure 2-1 and Figure 2-4. Samples were collected and screened as described above at 5 foot intervals. The sample collected from the 0-2 foot interval at soil boring GZ-306 was analyzed for TPH, TVPH and VOC analysis. Samples from GZ-307 and GZ-323 were collected from the 5-7 foot interval. The sample collected from GZ-307 was analyzed for TPH, TVPH and VOCs analysis, while the sample from GZ-323 was analyzed for TPH,

VOCs, and PAHs analysis. Samples collected from GZ-320, GZ-321 or GZ-322 were analyzed for TPH using under Petroflag™ screening analysis; they were not sent to the analytical laboratory for analysis.

The six soil borings mentioned above were constructed as groundwater monitoring wells. Groundwater from GZ-306 was collected on three occasions, as part of: the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; the SSI, when the sample was analyzed for PAHs; and the SIRAR field work, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-307 was collected on three occasions, as part of: the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; the SSI when the sample was analyzed for PAHs, VOCs, TPH and TVPH; and the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater samples from GZ-320, GZ-321 and GZ-323 were collected on two occasions: during the SSI, when the samples were analyzed for PAHs, VOCs, TVPH and TPH; and during the SIRAR, when the samples were analyzed for VOCs, SVOCs and DRO. Groundwater samples from GZ-322 were collected on three occasions; during the SSI, when the sample was analyzed for PAHs, VOCs, TPH and TVPH; during the June 1999 groundwater sampling round, when the sample was analyzed for TPH, VOCs and SVOCs; and during the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997 soil gas at stations SG3-8 and SG3-9 were monitored near Tank 32 at locations shown on Figure 2-1 and Figure 2-3. Neither of these locations yielded readings above detection limits.

As part of the SIRAR, a test pit was excavated on the northeast side of Tank 34 to a depth of 10 feet bgs. Samples were collected from all four walls of the test pit at 5 feet bgs and one sample from the bottom of the test pit. One additional surface soil sample was collected from beneath the vent pipe at Tank 34 (Figure 2-3). This surface soil sample was analyzed for TPH analysis. Field Petroflag™ analytical results did not exceed the threshold (described in Section 2.1.2) that would have required the other samples to be sent to the laboratory for analysis.

This tank was closed as described below with the other six underground storage tanks at Tank Farm 3.

2.2.4 Tank 35

At Tank 35 there was an accidental fuel release onto the ground in the early 1980s. Because of this release, 21 soil borings were advanced in association with Tank 35 (Figure 2-1, Figure 2-5). GZ-308, GZ-309, GZ-310 and GZ-315 were advanced during the Environmental Site Investigation and GZ-324, GZ-325, GZ-326, and GZ-327 were advanced during the SSI. Borings B-1 through B-10 were also advanced as part of the SSI in association with the fuel spill. GZ-333, GZ-334 and GZ-335 were advanced as part

of the SSI and CAP in association with RW-301 (a recovery well down gradient of GZ-310) which was installed as a part of the aquifer pump test performed to determine the feasibility of performing pump and treat to recover floating product.

Samples were collected and screened in all borings mentioned above. Soil samples collected from 0 to 2 feet bgs in soil borings GZ-324, 326, and 327 and B-1 through B-10 were analyzed for TPH. The 0-2 foot sample from B-2 was additionally analyzed for VOCs and PAHs at the lab. Subsurface soil samples were also collected at all borings and were sent to the lab for analysis. The 10-12 foot sample from GZ-308 was analyzed for TPH, TVPH and VOCs. The 3-4 foot sample from GZ-309 was analyzed for TPH, TVPH and VOCs. The 10-12 foot sample from GZ-310 was analyzed for TPH, TVPH and VOCs. The 5-7 foot sample from GZ-315 was analyzed for TPH, TVPH and VOCs. The 5-7 and 8-10 foot samples from GZ-324 were analyzed for TPH. The 5-7 and 9-11 foot samples from GZ-326 were analyzed for TPH. At GZ-327 the 5-7 foot sample was analyzed for TPH. With the exception of B-4 and B-8 all borings had two soil samples (the 5-7 foot and 10-12 foot intervals) selected for laboratory analysis. One soil sample from B-4 and B-8 (the 5-7 foot interval) was selected for laboratory analysis. All soil samples from these borings were analyzed for TPH and samples from the 5-7 foot interval in B-1, B-6 and B-10 were also analyzed for VOCs and PAHs.

Eleven of the soil borings described above were constructed as groundwater monitoring wells. Groundwater from GZ-308 was collected on three occasions (Figure 2-1, Figure 2-5): the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; the SSI when the sample was analyzed for PAHs; and during the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-309 was collected on three occasions; during the Environmental Site Investigation where the sample was analyzed for TPH, TVPH, and VOCs; during the SSI where the sample was analyzed for PAHs; and during the June 1999 groundwater monitoring event, when the sample was analyzed for TPH, VOCs, and SVOCs. GZ-309 was removed during the soil removal action at Tank 35 in 1999. GZ-310 was sampled on three occasions: during the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; during the SSI, when the sample was analyzed for PAHs; and during the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. GZ-315 was sampled on four occasions: during the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; during the SSI, when the sample was analyzed for PAHs; during the June 1999 groundwater monitoring event, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. GZ-324 was sampled on two occasions; the SSI, when the sample was analyzed for PAHs, VOCs, TPH and TVPH; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. GZ-325 was sampled on three occasions; the SSI, when the sample was analyzed for PAHs, VOCs, TPH and TVPH; during the June 1999 groundwater monitoring event, when the sample

was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR when the sample was analyzed for VOCs, SVOCs and DRO. GZ-326 was sampled on three occasions:

the SSI, when the sample was analyzed for PAHs, VOCs, TPH and TVPH; as part of a groundwater monitoring round in June 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. GZ-327 was sampled on three occasions; the SSI, when the sample was analyzed for PAHs, VOCs, TPH and TVPH; as part of a groundwater monitoring round in June 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. GZ-333, GZ-334 and GZ-335 were all sampled once, as part of the SIRAR. The samples were analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997 soil gas at stations SG3-10, SG3-11, SG3-12 and SG3-13 were monitored in association with Tank 32, locations shown on Figure 2-1 and Figure 2-5. None of these locations mentioned yielded readings above detection limits.

On September 2, 1999, FwEC began excavation on the east side of Tank 35 where soil had high TPH concentrations. An area approximately 30 feet wide, 70 feet long and 10 feet deep was excavated (Figure 2-5). Bedrock was encountered at 10 feet below grade. Approximately 1,200 cubic yards of soil were removed.

Soil samples were taken from the side wall and bottom of the excavated area for field screening of TPH using Petroflag™ analytical methods. Exceedances of TPH screening criteria (Section 2.1.2) were noted in the north and south side walls closest to the tank, the east side wall and the excavation floor closest to the tank. On October 6, 1999, an additional 650 cubic yards of soil was removed from the north and south walls and the bottom of the excavation where the exceedences of TPH screening criteria (Section 2.1.2) had been observed. To confirm that the limits of contaminated soil had been reached, several test pits were dug in the vicinity of Tank 35 beyond the prior limits of excavation (Appendix A). Soil was inspected for signs of visible contamination and odor, and soil headspace measurements were recorded. No visible or olfactory contamination was observed, and soil headspace readings were non-detect.

Confirmatory samples were then collected from the side walls and bottom of excavation after the field screening indicated TPH concentrations were below established criteria. These samples were analyzed for total metals and SVOCs, while a few soil samples closest to the tank were also analyzed for VOCs and TPH. Analysis indicated that TPH concentrations were below RIDEMs ICDEC in all samples except SS01. This sample was collected at a depth of 14 feet bgs and therefore further investigation was not

practical. Also, exceedances of the RIDEMs ICDEC standards for arsenic were present in all samples, suggesting elevated background levels of this metal in the soil at Tank Farm 3.

As part of the SIRAR a test pit was excavated on the north side of Tank 35 to a depth of 10 feet bgs. Samples were collected on all four walls of the test pit at 5 feet bgs and one sample from the bottom of the test pit. One additional surface soil sample was collected from beneath the vent pipe at Tank 35. No samples from this activity were above Petroflag™ screening criteria (Section 2.1.2).

This tank was closed as described in Section 2.4 below with the other six USTs at Tank Farm 3.

2.2.5 Tank 36

Three soil borings were advanced at Tank Farm 3 in association with Tank 36. GZ-311 and GZ-312 were advanced during the Environmental Site Investigation, and GZ-317 was advanced during field work conducted for the SSI at locations shown on Figure 2-1 and Figure 2-6. Soil samples were collected and screened at 5 foot intervals. A sample collected from the 0.2-2.2 foot interval at soil boring GZ-311 was analyzed for TPH, TVPH and VOCs. At GZ-312 a sample was collected from the 15-17 foot interval that was analyzed for TPH, TVPH and VOCs. One subsurface sample from GZ-317 was analyzed for TPH.

The three soil borings described above were constructed as groundwater monitoring wells. Groundwater samples from GZ-311 were collected on at least three occasions; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; the SSI, when the sample was analyzed for PAHs, VOCs, TPH and TVPH; and the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater samples from GZ-312 were collected on at least three occasions; the Environmental Site Investigation when the sample was analyzed for TPH, TVPH, and VOCs; the SSI, when the sample was analyzed for PAHs; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. GZ-317 was sampled on at least two occasions; the SSI, when the sample was analyzed for PAHs, VOCs, TVPH and TPH; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997 soil gas at station SG3-26 was monitored near Tank 36, as shown on Figure 2-1 and Figure 2-6.

As part of the SIRAR a test pit was excavated on the northeast side of Tank 36 to a depth of 10 feet bgs. Samples were collected on all four walls of the test pit at 5 feet bgs and one sample from the bottom of the test pit. One additional surface soil sample was collected from beneath the vent pipe at Tank 36. The bottom sample and vent pipe sample were analyzed for TPH analysis. Field Petroflag™ results did not

exceed the concentration (100 ppm) that would have required the other samples to be sent to the laboratory for analysis.

This tank was closed as described in Section 2.4 below with the other six USTs at Tank Farm 3.

2.2.6 Tank 69

Three soil borings were advanced at Tank Farm 3 in association with Tank 69. GT-306 and GT-305 were advanced during the work described in "Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located In Tank Farm 3" (GTI, 1992), while GZ-313 was advanced during the Environmental Site Investigation (GZA, 1995), the locations of these boring are depicted on Figure 2-1 and Figure 2-7. Soil samples were collected and screened at 5 foot intervals. A soil sample collected from the 0-1 foot interval at soil boring GZ-306 was analyzed for BTEX. At GZ-305 the sample collected from the 13.5-15.5 foot interval was analyzed for BTEX. The sample collected from GZ-313 at the 5-6.4 foot interval was analyzed for VOCs, SVOCs, pesticides, PCBs and metals. A composite sample comprised of soil from GT-301 to GT-307 was also sent to the analytical laboratory and analyzed for VOCs, SVOCs, PCBs, pesticides, and metals.

The three soil borings described above were completed as groundwater monitoring wells. Groundwater from GT-306 was not sampled because the well was dry. Groundwater from GT-305 was sampled on at least five occasions; for field work conducted for the "Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located In Tank Farm 3", when the sample was analyzed for BTEX; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH, and VOCs; the SSI, when the sample was analyzed for PAHs; as part of a groundwater sampling round in June of 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-313 was sampled on two occasions; during the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH and VOCs; and the SSI, when the sample was analyzed for PAHs.

As part of the Soil Gas Survey in May of 1997 soil gas at station SG3-24 and SG3-27 was monitored in proximity to Tank 69 at locations shown on Figure 2-1 and Figure 2-7. These locations yielded no readings above detection limits.

As part of the SIRAR, a test pit was excavated on the north side of Tank 69 to a depth of 10 feet bgs. Soil samples were collected on all four walls of the test pit at 5 feet bgs and one sample from the bottom of the test pit. One additional surface soil sample was collected from beneath the vent pipe at Tank 69 (Figure 2-7). The south sidewall sample, located against the tank wall, and vent pipe sample were

analyzed for TPH in the laboratory. Field Petroflag™ results did not exceed the concentration (100 ppm) that would have required the other samples to be analyzed by the laboratory.

This tank was closed as described in Section 2.4 below with the other six USTs at Tank Farm 3.

2.2.7 Tank 70

Five soil borings were advanced at Tank Farm 3 in association with Tank 70. GT-301, GT-302, GT-303, GT-304 and GT-307 were all advanced as described in the "Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located in Tank Farm 3 (Figure 2-1, Figure 2-8). Samples were collected and screened at 5 foot intervals. All samples that were collected and analyzed for by the laboratory were from subsurface soils. All samples that were sent to the laboratory were analyzed for BTEX. One additional composite sample made up of GT-301 through GT-307 was submitted to the laboratory for analysis of VOCs, SVOCs, pesticides, PCBs, and metals.

The five soil borings mentioned above were completed as groundwater monitoring wells. Groundwater from GT-301, GT-302 and GT-307 was sampled on at least four occasions; for the Initial Assessment Conducted in the Vicinity of Tank 70 Located In Tank Farm 3, when the samples were analyzed for BTEX; for the Environmental Site Investigation, when the samples were analyzed for TPH, TVPH, and VOCs; for the SSI, when the samples were analyzed for PAHs; and as part of the SIRAR, when the samples were analyzed for VOCs, SVOCs and DRO. Groundwater from GT-303 and GT-304 was collected on at least five occasions; for field work conducted for the Initial Assessment Conducted in the Vicinity of Tank 70 Located In Tank Farm 3, when the samples were analyzed for BTEX; the Environmental Site Investigation, when the samples were analyzed for TPH, TVPH, and VOCs; the SSI, when the samples were analyzed for PAHs; as part of a groundwater sampling round in June of 1999, when the samples were analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR, when the samples were analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997 soil gas at station SG3-25 was monitored in proximity to Tank 70 at locations shown on Figure 2-1 and Figure 2-8. This location yielded no readings above detection limits.

As part of the SIRAR a test pit was excavated on the north side of Tank 70 to a depth of 10 feet bgs (Figure 2-1). Samples were collected on all four walls of the test pit at 5 feet bgs and one sample from the bottom of the test pit. One additional surface soil sample was collected from beneath the vent pipe at Tank 70. Field Petroflag™ results did not exceed the concentration (100 ppm) that would have required samples to be submitted for laboratory analysis.

This tank was closed as described in Section 2.4 below with the other six underground storage tanks at Tank Farm 3.

2.2.8 Electrical Control House (Building 227)

One soil boring was advanced at Tank Farm 3 in association with the Electrical Control House. GZ-328 was advanced during the SSI at the location depicted on Figure 2-1. Samples were collected and screened as described above at 5 foot intervals. The sample collected from the 0-2 foot interval was analyzed for TPH, VOCs, and PAHs.

GZ-328 was constructed as a groundwater monitoring well which was sampled on at least three occasions; during the SSI when the sample was analyzed for PAHs, VOCs, TPH and TVPH; during the groundwater sampling event in June 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Analytical results did not indicate contamination of groundwater above laboratory reporting limits.

2.2.9 Petroleum Distribution Lines

Five soil borings were advanced at Tank Farm 3 in association with the Petroleum Distribution Lines. GZ-316 was advanced during the Environmental Site Investigation. GZ-318, GZ-319 and GZ-329 were advanced during the SSI. GZ-331 was advanced during field work for the SICAP, at the location depicted on Figure 2-1. Samples were collected and screened at 5 foot intervals. The sample collected from the 0-2 foot interval at GZ-331 was analyzed for TPH, VOCs, and PAHs. The sample collected from the 5-7 foot interval at GZ-316 was analyzed for TPH, TVPH and VOCs. The sample collected from the 5-7 foot interval at GZ-329 was analyzed for TPH, VOCs and PAHs. Soil samples collected from GZ-318, or GZ-319 were not analyzed for by the laboratory.

The soil borings mentioned above were completed as groundwater monitoring wells. Groundwater from GZ-316 was sampled on at least four occasions; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH and VOCs; the SSI when the sample was analyzed for PAHs; as part of the groundwater sampling event in June 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the field work for the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-318 and GZ-319 was sampled on at least three occasions; the SSI, when the samples were analyzed for PAHs, VOCs, TPH and TVPH; as part of the groundwater sampling event in June 1999, when the samples were analyzed for TPH, VOCs, and SVOCs; and as part of the field work for the SIRAR, when the samples were analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-329 was sampled on at least two occasions; the SSI and Corrective Action Plan, when the sample was

analyzed for VOCs, TVPH, and TPH; and as part of the field work for the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-331 was sampled on at least one occasion; the SSI and Corrective Action Plan, when the sample was analyzed for VOCs, TVPH, and TPH.

As part of the Soil Gas Survey in May of 1997 soil gas at stations SG3-1 thru SG3-27 were monitored in association with The Petroleum Distribution Line, as shown on Figure 2-1. It should be noted that some of those soil gas monitoring locations were located in proximity to USTs or AOCs. These locations yielded no readings above background.

2.2.10 Lawton Brook and Fuel Line on Burma Road

During the Environmental Site Investigation three surface water samples (SW-1, SW-2 and SW-3) were collected from Lawton Brook, at locations shown on Figure 2-1. These samples were analyzed for TPH, TVPH and VOCs. SW-1 was located as an upstream sample that would have not been impacted by site activities. SW-2 was located as a mid-stream sample, about 1000 feet upstream of the culvert that runs beneath Defense Highway. SW-3 was located as the downstream sample, immediately upstream from the culvert that runs beneath Defense Highway. The surface water samples were collected using direct dip method.

In 2008 an Emergency Response was conducted at Lawton Brook. In April of 2008 a boater observed sheen on Narragansett Bay in the vicinity of Lawton Brook. This incident was reported to RIDEM and the U.S. Coast Guard who subsequently contacted the U.S. Navy. The Navy authorized a response contractor, Clean Harbors. to place oil absorbent booms along the brook as well as in Narragansett Bay to contain the oil/sheen. The Navy then initiated excavation to investigate the sheen. It was discovered that a 12-inch pipe located along Burma Road had leaked free product (assumed to be jet fuel) into the pipe chase and subsequently into Lawton Brook.

A removal action was initiated to remediate the contaminated soil associated with the release from the pipe and pipe chase. This work included:

- Removal of the overlaying soil, and testing of that soil for use as backfill;
- removal of pipes and the pipe chase;
- asbestos abatement of insulation surrounding the pipeline;
- capping/plugging of the remaining ends of the removed pipes;
- excavation of contaminated soils;
- excavation backfill; and
- site restoration.

During the excavation of contaminated confirmatory Petroflag™ soil samples were collected every 20 linear feet along sidewalls, and every 10 feet along the excavation bottom. Excavation continued until observation and field screening results indicated that clean material had been reached.

2.2.11 Former Burn Pit/ Sand Filter (AOC 001)

Two soil borings were advanced at Tank Farm 3 in association with the Former Sand Filter. GZ-301 was advanced during the Environmental Site Investigation, and GZ-332 was advanced during the field work for SSI and CAP, as shown on Figure 2-1 and Figure 2-9. Samples were collected and screened, as described above, at 5 foot intervals. The sample collected from the 0.2-2.2 foot interval at GZ-301was analyzed for TPH, TVPH and VOCs. The sample collected from the 5-6 foot interval at GZ-332 was analyzed for TPH, VOCs, and PAHs.

The soil borings mentioned above were completed as groundwater monitoring wells. Groundwater from GZ-301 was collected on at least three occasions; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH and VOCs; the SSI when the sample was analyzed for PAHs, VOCs, TPH and TVPH; and as part of the field work for the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO. Groundwater from GZ-332 was sampled on at least two occasions; as part of the field program for the SSI and CAP, when the sample was analyzed for VOCs, TVPH and TPH; and as part of the field work for the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO.

During the SIRAR field work the sand filter pit was located. Once located asphalt for the road and up to 10 feet of fill material beneath the road was excavated. The fill (concrete rubble, wood, cobbles, sand and silt) was removed and the sand filter pit was exposed. The visibly contaminated oily material from inside the sand filter pit was excavated and stockpiled using an excavator and a Vactor truck. The walls and floor of the sand filter pit were pressure washed and water was removed. Test pits were excavated adjacent to each side of the sand filter pit and soil samples were collected from two feet below the top of the pit walls and from below the base of the pit wall. Soil samples were also collected beneath pipes associated with the sand filter pit.

2.2.12 Oil/Water Separator #3 / Collection UST

One soil boring (GZ-303) was advanced at Tank Farm 3 in association with OWS #3 / and the associated UST, during the Environmental Site Investigation, as shown on Figure 2-1. Soil samples were collected and screened at 5 foot intervals. The sample collected from the 17-19 foot interval was analyzed for TPH, TVPH and VOCs.

GZ-303 was completed as a groundwater monitoring well. It was sampled on at least four occasions; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH and VOCs; the SSI when the sample was analyzed for PAHs; as part of the groundwater sampling event in June 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the field work for the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO.

As part of the Soil Gas Survey in May of 1997, soil gas at stations SG3-1, SG3-2 and SG3-14 were monitored near OWS #3, as shown on Figure 2-1. These locations yielded no readings above detection limits.

2.2.13 Outdoor Electrical Transformers in AOC 20

During the Environmental Site Investigation, one soil boring (GZ-314) was advanced at Tank Farm 3 downgradient of the Outdoor Electrical Transformers, as shown on Figure 2-1. Samples were collected and screened at 5 foot intervals. The sample collected from the 0-2 foot interval was analyzed for TPH, TVPH, VOCs, PCBs, and pesticides.

GZ-314 was completed as a groundwater monitoring well which was sampled on at least four occasions; the Environmental Site Investigation, when the sample was analyzed for TPH, TVPH VOCs and PCBs; the SSI when the sample was analyzed for PAHs; as part of the groundwater sampling event in June 1999, when the sample was analyzed for TPH, VOCs, and SVOCs; and as part of the field work for the SIRAR, when the sample was analyzed for VOCs, SVOCs and DRO.

As part of the SIRAR, four surface soil samples were also collected around each of the two pad mounted transformers in this area. Four samples were collected around transformer #1 (TF3-TF1-A, B, C and D), and four samples were collected around transformer #2 (TF3-TF2-A, B, C and D), and were sent to the analytical laboratory for PCB analysis.

2.2.14 Reported Sludge Pit

As part of the Soil Gas Survey in May of 1997, soil gas at stations SG3-23 and SG3-24 were monitored adjacent to the reported sludge pit, at locations shown on Figure 2-1. These locations yielded no readings above detection limits.

In addition, numerous soil samples were collected in the area of reported sludge disposal, as part of the SIRAR field work. AOCs 019, -025, -026, and -027 were all within the general reported area of the sludge pit. Concentrations of contaminants above regulatory screening criteria were not detected in soil in these AOCs.

2.2.15 Investigations of Other AOCs

As part of the SIRAR field work in 2004 and 2005, 31 AOCs were identified by the Navy and RIDEM. The process of identifying these AOCs was described in the SIRAR 2005, Section 2 (TtEC, 2005):

> "In order to accurately identify areas of potential petroleum based contamination at Tank Farm 3, historic aerial photographs were collected and analyzed stereoscopically by a specialty contractor. The report was provided to RIDEM as an addendum to the Tank Farm 3 Work Plan for Site Closure (2002). The analysis was conducted on aerial photographs dating from 1942 through 1995. Objects and areas determined to be potential sources of releases were compiled from each of these photographs, georeferenced and overlayed on a 1995 aerial photograph of the tank farm. The photographs provide locations of past surface soil staining, excavation areas, and other activities including potential sludge pits and the location of the former sand burning pit".

Thirty-three AOCs were identified, of these, AOC 001 through AOC 021 were identified by the Navy and AOC 022 through AOC 033 were identified by RIDEM. Following elimination of some of the AOCs based upon field verification, the remaining AOCs were investigated using test pits and soil sampling and analysis, as described in Section 2.1.2. AOCs that required remediation, based upon the TPH concentrations exceeding RIDEM DECs (Section 2.1.2), were remediated using soil excavation.

Soil remediation consisted of excavating a square box extending out from the sample location that exceeded the standards. Additional soil excavation was further directed by Petroflag™ screening of the excavation walls and base. Petroflag™ analysis was used to guide remedial excavations and confirmatory analysis was conducted on all remaining sidewalls and bases for off-site laboratory analysis for TPH, VOC, and SVOCs. For example, if the west sidewall sample of a test pit required remediation, a box would be excavated 2.5 feet north and south and 5 feet west of the elevated TPH sample location. Remediation soils were stockpiled on and covered with 6 mil thick polyethylene sheeting adjacent to each remediation area, for subsequent disposal.

At RIDEMs request, an attempt was made to reduce the soil contamination levels to below RIDEM RDECs. As noted in summary of remedial activity in Table 2-1, this objective was achieved for many of the AOCs identified as requiring remediation. For the AOCs where contamination was remediated to below ICDECs, but levels above RDECs remain on-site, LUCs are required to provide protectiveness. The Navy will develop a CAP under the UST Regulations to implement he required LUCs at these AOCs (AOC 005, AOC 009, AOC 010, AOC 012, AOC 018, AOC 029 and Tank 32 vent).

Section 4 of this report describes contamination remaining at the Site that exceeds screening criteria (Sections 4.2.1, 4.2.2 and 4.2.3). Table 2-1 presents a list of areas that were investigated at the Site and identifies which of those areas are recommended for further investigation based upon remaining contamination in site media. Areas described in this Section and on Table 2-1 that do not exceed screening criteria are not discussed in Section 4.

It should be noted that AOC 14 has not been recommended for further investigation although data collected during the SIRAR indicate levels of COCs exceeding RSLs. AOC-14 was believed to be a pipe scar and the investigation of it was designed to determine if a release had occurred from this structure. Four test pits were excavated. Five samples were collected in each test pit: one from each test pit sidewall (at a depth of 1 foot) and one from the bottom of each test pit (at a depth of 2 feet). Petroflag testing for TPH in 15 samples from three of the four test pits (TP-1, -2, and -3) yielded results below 65 ppm. Petroflag testing in the four samples from TP-4 indicated TPH ranging from 81 to 370 ppm. As per the work plan, the samples with concentrations above 100 ppm were analyzed in the laboratory for TPH. It just happens that none of these samples were subsurface samples, they were all test pit sidewall samples taken from 1 foot bgs.

The laboratory results for TPH in these three samples were 110, 120, and 200 ppm. These three samples were also analyzed for SVOCs and the results are shown on Table 4-1. No compounds were detected above RIDEMs GA leachability criterion, RDECs or ICDECs. Only one compound (benzo(a)pyrene) was above the EPAs RSL. The RSL is 210 ppm and benzo(a)pyrene was detected at an estimated concentration of 240 ppm. Laboratory reporting limits were above EPAs RSLs for benzo(a)pyrene and dibenzo(a,h)anthracene; however, they were only marginally exceeded. While there was one exceedance of one screening criteria, and the laboratory reporting limits for all the compounds were higher than ideal, the analytical results from AOC-014, taken as a whole, indicate no appreciable impact. A consideration of all the data together, this area is not believed to have contamination at concentrations that warrant further investigation.

3.0 SITE CONDITIONS

This section presents a description of the physical conditions found during the field investigation activities performed as described in Section 2. The analytical laboratory results from collected samples are presented in Section 4 of this report.

The discussions presented in this section are supported by field documentation including boring logs, test pit logs, groundwater measurement data sheets and other information historically collected at the Site and provided in Appendices A and B of this report. These data were collected by various contractors to DESC as described in reports listed in Section 1.0.

3.1 BASIC SITE CONDITIONS

The Site can be broadly divided into an upland area in the south central portion of the Site, and a wetland area located along the eastern/northeastern boundary of the Site, as shown on Figure 1-1. Lawton Brook flows from southeast to northwest through the northeastern portion of the Site. Wetlands surround Lawton Brook on either side. A wooded area exists between the wetlands and Lawton Brook and the upland portion of the Site where the USTs are situated. Entrance to the Site is from the west via an access road from the Defense Highway. This road is oriented generally west to east and connects to a loop road that provides access to the USTs.

The Site, with the exception of the wooded strip the wetland and Lawton Brook, is currently fenced. The entrance from Defense Highway is gated and locked. Although the Site is currently unused, the tank farm infrastructure is still present at the Site.

Abutting the Site to the northeast is Raytheon's Submarine Signal Division; to the southeast is a residential area. This residential area has recently expanded and the expanded portion adjoins the Site to the southwest. Abutting the Site to the northwest is Defense Highway and beyond the highway is a Penn Central Railroad right of way. Beyond the right of way is a narrow strip of land and Narragansett Bay, as shown on Figure 1-1.

The topography is such that the ground surface is highest in the south-central portion of the Site and it slopes down to the north, northwest and northeast, in a semi-radial pattern. The topography drops down from 100 feet MLW to 50 feet MLW in the west and 10 feet MLW in the east, along Lawton Brook. Topography drops fairly uniformly across the Site, except it drops much more quickly in the northeastern portion of the Site, leading down to Lawton Brook.

3.2 SURFACE WATER HYDROLOGY

The Site is located within the Narragansett Bay Drainage Basin which is about 1,850 square miles of land within Massachusetts and Rhode Island. All of the surface water from the drainage basin flows into Narragansett Bay. Discharge from the Narragansett Bay is to the Atlantic Ocean to the south.

The Site is located about 200 to 300-feet east of the East Passage of Narragansett Bay (Figure 1-1). Surface hydrology at the Site is dominated by Lawton Brook (Figure 1-2). Water in Lawton Brook flows in a northwesterly direction from Lawton Valley Reservoir, located southeast of the Site, to the Narragansett Bay. Four 3-foot diameter conduits carry water from Lawton Brook beneath Defense Highway immediately downstream of the west boundary of the Site.

The Lawton Valley Reservoir is one of the seven surface water reservoirs on Aquidneck Island and two surface water reservoirs on the mainland that supply water to the Newport Water Department. Most of the water on Aquidneck Island is supplied by the town of Portsmouth.

3.3 GEOLOGIC CONDITIONS

The regional and site specific geological conditions are presented in the following subsections.

3.3.1 Regional Geology

The glacial ice of the Pleistocene Epoch, starting about two million years back and extending to only 15,000 years ago shaped the topography of Rhode Island, including the Narragansett Bay area. The Narragansett Bay was an old sedimentary basin that had undergone significant stream erosion when the Wisconsin-age ice glaciers advanced into the area. The glaciers scoured off all but the hardest of the ancient rocks, and picked up sand, gravel, and boulders. As a glacier paused in its retreat, it dropped off deposits of these materials, creating thick moraines. The area also contains glacial erratics, carried from as far away as Canada. As the glaciers melted northward, rivers deposited sand and gravel to form broad plains and deltas. Massive chunks of ice lingered behind the retreating glacier, melting slowly, and formed some of the freshwater ponds along Rhode Island's southern shores and at inland places near the present Bay.

The Rhode Island shoreline is now undergoing a slow but steady process of erosion under the carving of the ocean storms and is submerging because of the slow rise in the level of the sea relative to the land.
Till is the most extensive of the glacial deposits in Rhode Island. This glacial deposit is unstratified and widely heterogeneous in grain size distribution, typically comprised of fine (clay/silt/sand) and coarse

(pebbles/cobbles/boulders) fractions (USDA, 1981). In southern New England, the late Wisconsinan surface till is predominant. Published reports indicate that the surface till forms a discontinuous mantle over bedrock uplands and beneath stratified drift deposits. In general, the surface till comprises a loose sandy unit containing boulders and cobbles, and lenses of stratified sediments. However, surface tills vary in composition. The physical characteristics of surface till generally reflect local bedrock and older surficial materials from which the deposit was derived (Tetra Tech, 2001).

Regionally, the Upland till plains, the Narragansett till plains, and the Charlestown and Block Island end moraines are till deposits in Rhode Island. The Site is located on the Narragansett till plain, a glacial till deposit which may have been derived from a sedimentary and meta-sedimentary rock provenance (USDA 1981).

Stratified drift or outwash, composed of sorted sand, silt, and gravel deposits was laid down by glacial meltwaters as the ice sheet receded. The eroded materials carried by the glacial meltwater were deposited in irregular layers of various thicknesses. Regionally, large deposits of outwash are located in Providence and East Greenwich (USDA, 1981).

Narragansett Basin is an ancient north-south trending structural basin originating near Hanover, Massachusetts. This basin is a complex synclinal mass of Pennsylvanian-aged; non-marine sedimentary rocks, and is the most prominent geologic feature in eastern Rhode Island and adjacent Massachusetts. The basin's approximate length is 55 miles; its width varies from 15 to 25 miles. The western margin of the basin is in the western portion of Providence, Rhode Island, and the eastern margin extends through Fall River, Massachusetts. Exposures of older rocks on Conanicut Island and in the vicinity of Newport suggest that the southern extent of the basin may be near the mouth of Narragansett Bay. NAVSTA Newport is situated at the southeastern end of the Narragansett Basin.

The Pennsylvanian aged stratified rocks within Narragansett Basin (the Narragansett Bay Group) chiefly consist of conglomerates, sandstones, shales, and anthracite. Total thickness of the strata in the basin has been estimated at 12,000 feet. Many folds and some faults occur throughout the basin, but the character and amount of the folding and faulting was not evaluated as part of this report. Refer to Hermes et al (1994) for a depiction of the faults mapped in the surrounding area.

The bedrock of the Narragansett Bay Group has been divided into six units, which are, in descending stratigraphic order: the Dighton Conglomerate, the Purgatory Conglomerate, the Rhode Island Formation, the Wamsutta Formation, the Sachuest Arkose, and the Pondville Conglomerate. The Rhode Island Formation immediately underlies the Site. Refer to Hermes et al. (1994) for a detailed depiction of the

bedrock geology of Rhode Island. Bedrock beneath the Site and most of the surrounding areas consists of the Rhode Island Formation.

The Rhode Island Formation is the most extensive and thickest of the Pennsylvanian formations in Rhode Island. The majority of the Narragansett Basin is underlain by this formation. In northern Rhode Island, the Rhode Island Formation is not metamorphosed and primarily consists of gray to black, fine- to coarse-grained quartz arenite, litharenite, shale, and conglomerate. However, in the southern portion of the Basin, such as in the vicinity of NAVSTA Newport, this unit has been metamorphosed. Metasedimentary rocks, including metaconglomerates and metasandstones, as well as schist, carbonaceous schist, phyllites, and graphite are present within the formation (Hermes et al, 1994).

Within the Rhode Island Formation, there are a few areas of thick, mostly very coarse, conglomerates that are often gray to greenish in color. These conglomerates are composed of gravel, cobbles and boulders, interbedded with sandstone and greywacke. The stones within the conglomerates are mostly quartzite that have been elongated due to tectonic forces. The conglomerate layers are topographically higher because they are more resistant to erosion than the surrounding bedrock.

Underlying the Pennsylvanian rocks of the Narragansett Basin are pre-Pennsylvanian igneous and metamorphic rocks such as granite, granite gneiss, porphoritic granite, slate and quartzite. These basement rocks are mostly deeply buried beneath the Pennsylvanian rocks.

3.3.2 Site Geology

The overburden site geology is generally characterized (GZA, 1995; GZA, 1996) as glacial till. The glacial till is between 4 and 25 feet thick and consists of a medium to very dense unsorted mixture of sand, gravel and silt with occasional layers of silty sand and clayey sand or boulders. Loose glacial till was encountered in some areas and is speculated to be re-worked till that was used as fill. Boring logs and well completion details from previous investigations are provided as Appendix B.

In the central portion of the Site a loose, silty fine sand strata was encountered from the ground surface to about 3 to 5 feet. In this central portion of the Site, bedrock was shallow (from 4 to 11 feet).

Bedrock has been characterized (GZA, 1995; GZA, 1996) as metamorphosed shale with occasional strata of siltstone, sandstone, conglomerate, schist, phyllite, slate and quartz. The upper portion (generally 3 to 20 feet) of the bedrock is highly weathered and in some locations is highly fractured. The amount of weathering and fractures generally decreases with depth. Overall, the bedrock rock quality designation (RQD), a measure of the fracturing and jointing observed in rock cores, at the Site ranged

between 0 and 100 percent, but averaged 33 percent (GZA, 1995) and 35 percent (GZA, 1996). This average RQD indicates poor (25 to 50 percent) rock quality classification.

3.4 REGIONAL AND SITE-SPECIFIC HYDROGEOLOGICAL CONDITIONS

The regional and site-specific hydrogeological conditions are presented in the following subsections.

3.4.1 Regional Hydrogeology

A summary of regional groundwater hydrogeology is presented below. Much of the regional information described in the Initial Assessment Study report (EEI, 1983) was obtained from the Groundwater Map of the Prudence Island and Newport Quadrangles, Rhode Island (1964). Information from both references was used in the following description of the regional groundwater hydrogeology.

Many areas on Aquidneck Island, on which most of NAVSTA Newport is located, obtain their water supply from wells. Areas relying on groundwater are mostly on the east side of Middletown, but there are wells throughout Aquidneck Island. Most groundwater wells are used for domestic needs, although small industries and businesses use some wells. Production wells were installed at Gould Island, but were not found to provide enough water for industrial processes, and a fresh water supply was extended from Newport.

Groundwater on Aquidneck Island is obtained from the unconsolidated glacial deposits of till and outwash and from the underlying Pennsylvanian bedrock. Throughout the area, groundwater depths range from less than one foot to about 30 feet, depending upon the topographic location, time of year, and character of subsurface deposits. The average depth to the groundwater is around 14 feet on Aquidneck Island and moves from areas of high elevations to discharge to Narragansett Bay or the Sakonnet River.

Seasonal groundwater level fluctuations are common in the area. During the early spring the water table rises due to recharge from snowmelt and rainfall. In late spring and summer, the water table usually declines because rainfall either evaporates or is used by plants before it can reach the water table. During autumn the water table generally rises.

The unconsolidated glacial deposits range in thickness from less than 1 foot near rock exposures to about 50 feet at Aquidneck Island. The glacial deposits consist mostly of till and outwash.

The yield of wells completed in the unconsolidated deposits varies, depending upon the type and thickness of the water-bearing deposits penetrated. Till can only yield small supplies; yields from

outwash are usually much greater. Yields range from less than one to as much as 120 gallons per minute, as reported from a public supply well on Prudence Island. The upper limits of the referenced well yield are most likely for a well completed in outwash, not till. Under normal weather conditions, till wells yield a few hundred gallons of water per day and are adequate for domestic supplies. However, these wells are subject to going dry during seasonal or unusually severe droughts.

Bedrock wells in the Newport area range in depth from 14 to 1,300 feet, with an average depth of 135 feet. Yields from bedrock wells range from less than 1 to as much as 55 gallons per minute. Most bedrock wells yield less than 10 gallons per minute. The yields in the bedrock wells vary considerably over short distances because the joints and fractures that transmit water to the wells occur randomly. Joints and fractures are most numerous and widest near the top of the bedrock and become fewer and narrower with depth. Bedrock wells seldom go dry, but yields can be extremely low if not enough fractures and joints occur in the area of the well.

Chemical characteristics of the groundwater are similar throughout the area, and the water is generally satisfactory for most ordinary uses. Most groundwater in the area is soft or only moderately hard, with groundwater from till generally containing less mineral matter and being softer than groundwater from bedrock. Wells yielding water with high iron content occur throughout the area, being most numerous around Newport and Middletown and the northern part of Portsmouth.

In scattered locations near the shoreline, over-pumping has led to salt water intrusion in some wells. Bedrock wells are not as easily contaminated with salt water as wells completed in unconsolidated deposits, but the chance of contamination increases as the depth of the well below sea level increases.

The groundwater at NAVSTA Newport is very shallow, being less than 10 feet bgs in most areas. Therefore potential contaminants that may be released at the ground surface have a relatively short distance to travel before reaching the shallow groundwater table. Those pollutants that do migrate into the groundwater will migrate with groundwater flow and discharge into Narragansett Bay. Coastal sites such as those existing at NAVSTA Newport are quite close to the shoreline, and the groundwater only has to migrate a short distance before discharging into Narragansett Bay.

The soils occurring at most of NAVSTA Newport have a permeability that is moderate to moderately rapid, and do not restrict the vertical movement of water. The glacial till, from which these soils were derived, is generally less permeable than the overlying soils and although it will restrict groundwater movement, it may not represent a complete barrier to the vertical migration of water. However, it is presumed that groundwater will follow a path of least resistance and this pathway in this case would be directly through less dense material to the Bay waters. There are also isolated areas where the bedrock

occurs at the surface. Contamination is possible in these areas and could migrate through the joints and fractures that commonly occur in the bedrock.

Information obtained from the NAVSTA Newport IR Program indicates that the depth to groundwater ranged from approximately 4 to 28 feet bgs at NAVSTA Newport sites investigated prior to 1994. Slug tests conducted on monitoring wells at these sites indicated that the hydraulic conductivity of the till unit encountered above the bedrock ranged from 0.22 to 0.44 feet per day and the upper bedrock hydraulic conductivity ranged from 0.029 to 0.21 feet per day. Bedrock test data produced hydraulic conductivity values higher than those normally attributed to shale (3.28×10^{-4} to 3.28×10^{-8} feet per day (Driscoll, 1987).

3.4.2 Site Specific Hydrogeology

Hydrogeologic conditions at the Site were evaluated in the 1990's (GZA, 1995; GZA, 1996; GZA, 1998). Synoptic rounds of groundwater elevations were collected in January 1995, January 1996, and June 1997. A pump test was performed to evaluate of the hydraulic properties of the subsurface.

3.4.2.1 Groundwater Flow

A network of groundwater measurement points across the Site were periodically used to develop groundwater contour maps. Measurement points included groundwater monitoring wells and surface water monitoring points. Groundwater wells at this site were all completed in bedrock, or across the bedrock/overburden interface, as described in Section 2 and Section 3.3 of this report. Monitoring well installations are further described in Section 2 of this report.

Elevations of groundwater wells were measured by land surveyor. Groundwater depths were measured periodically and the depths were converted to elevations for the purpose of creating groundwater contour maps. A groundwater contour map generated from June 1997 data is presented in Appendix C. The interpreted groundwater hydraulic gradient in July 1999 was between 0.02 and 0.04 ft/ft.

Based on the groundwater elevations reported in previous investigations, groundwater at the Site appears to flow northerly to northeasterly towards Lawton Brook and the Narragansett Bay. This groundwater flow direction overall follows ground surface topography. Generalizations such as those depicted on the groundwater contour map do not reflect the sinuous path of groundwater through bedrock fractures; rather, they show an overall gradient through the aquifer.

3.4.2.2 Aquifer Properties

The 1997 pump test (GZA, 1998) was performed in the area of the surface release of petroleum, northeast of Tank 35 at the Site. Recovery well RW-301 was pumped at a constant rate for 24-hours and the drawdown in the pumping well and 12 surrounding monitoring wells were monitored, including monitoring of the drawdown during water level recovery. The pump test data analysis estimated the transmissivity of the bedrock to be between 15 and 20 ft^2/day. Furthermore, significant heterogeneity of the bedrock transmissivity, typical of bedrock, was observed.

3.5 ECOLOGICAL CONDITIONS

This section provides a brief description of the ecological conditions and setting that is present in the Site vicinity. This section was obtained primarily from FwEC, 2002.

The Site consists of the USTs, the supporting utilities and structures and roads. The majority of the Site provides some habitat value as open field and developing woodland. Much of the Site is encircled by chain-link fence. The Site area is largely grass and shrub-covered and open. Wooded areas are located along the southeastern fence line, and around the perimeter of the fenced-in portion of the Site. Wetland plant species exist along Lawton Brook and backwater areas. The majority of the Site appears to provide habitat for typical grassland or meadow species such as small mammals, rodents and various bird species including predatory hawks. Deer are also common inside the fenced-in area and in the wooded area, as they can jump the fence. Outside the fence, Lawton Brook, its adjacent wetlands and wooded areas exist outside the fence. As Lawton Brook flows under Defense Highway it periodically creates backwater, resulting in a temporary freshwater pond at the Site. The number of aquatic or terrestrial species present was not surveyed. However; this area appears to provide high quality habitat for diverse species. It is likely that the species present includes invertebrate and benthic species, fish and amphibians, deer, piscivorous mammals, and birds.

Habitats dispersed throughout and adjacent to the Site are characteristic of fragmented, developed landscapes of lightly industrialized/commercial/suburban areas in the New England region. Most of the immediate area precipitation flows towards the streams and pond and is eventually discharged to Narragansett Bay. The area immediately surrounding the Site is a mix of agricultural land, suburban development, and industrial plants.

The relatively large size of the property, the fence preventing most human access, and the decreased maintenance of the property makes it fairly unique open coastal land. However, the highly fragmented habitat, large open paved areas, and the minimal quality habitat (industrial and residential properties)

surrounding the study area degrade the ecological value of the Site and may limit the range of terrestrial, wetland, and avian wildlife species expected to utilize the Site, while at the same time providing important feeding and resting areas for migratory species and important habitat for smaller mammals. The dense vegetation in the basin and uplands in the area do provide cover, foraging, and breeding/nesting areas for birds, mammals, reptiles, and amphibians that do not require large home ranges. The pond and stream are expected to provide a locally important, but intermittent freshwater source for wildlife. Additionally, migratory birds are expected to utilize this area for resting and foraging during migration.

4.0 CONTAMINANT DISTRIBUTION

This section presents an evaluation of the constituents detected during chemical analysis of samples collected as described in Section 2 of this report. A complete set of data representing existing conditions is presented in Appendix D of this report. At locations where the chemical is detected between the instrument detection limit and the reporting limit, the result is estimated and flagged with a "J". At stations where the compound was not detected at the instrument detection limit, the reported value is stated as the value at the reporting limit, and flagged with a "U".

The categories of chemicals detected at the Site include metals, petroleum hydrocarbons, VOCs, SVOCs and PCBs.

4.1 CONTAMINANTS BY MEDIA

This section lists the chemicals that were detected in each media at the Site. The media include soils, groundwater and surface water.

4.1.1 Soil

Soil data were divided into three subgroups, surface soil, subsurface soil, and soils collected from unknown depths. Soil analytical results are provided in Appendix D. The surface soil subgroup (Appendix D-1) consists of soil samples collected from the ground surface to less than, or equal to two feet below ground surface (bgs). Compounds detected in this surficial soil subgroup and concentrations are summarized in Table 4-1. The subsurface soil subgroup (Appendix D-2) consists of soil samples collected from two feet bgs to bedrock. Compounds detected in this subsurface soil subgroup and detected concentrations are summarized in Table 4-2. The unknown soil subgroup (Appendix D-3) consists of soil samples collected from unrecorded depths. Compounds detected in this unknown soil subgroup and detected concentrations are summarized in Table 4-3.

Surface Soil Subgroup

Compounds detected in the surficial soil subgroup include diesel range organics (DRO), gasoline range organics (GRO), PCBs, SVOCs and VOCs. The SVOCs detected in the surface soil subgroup were: anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; di-n-butyl phthalate; fluoranthene; fluorene; phenanthrene and pyrene. With the exception of din-n-butyl phthalate, a plasticizer, the detected SVOCs are PAHs. The VOCs detected in the surface soil subgroup were 2-butanone, acetone, toluene and

trichlorofluoromethane. 2-Butanone, acetone and trichlorofluoromethane were likely detected in samples as laboratory and/or sampling artifacts. The PCBs detected in surface soil were Aroclor 1242, Aroclor 1254 and Aroclor 1260.

Subsurface Soil Subgroup

Compounds detected in the subsurface soil subgroup includes petroleum hydrocarbons (DRO and GRO), SVOCs and VOCs. The SVOCs detected in the subsurface soil subgroup were: 1,2-dichlorobenzene, 1,3-dichlorobenzene; 1,4-dichlorobenzene; 2-chlorophenol; 2-methylphenol; 3&4-methylphenol; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; benzyl alcohol; chrysene; fluoranthene; hexachloroethane; indeno(1,2,3-cd)pyrene; phenanthrene; phenol; and pyrene. With the exception of the solvents: 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; 2-chlorophenbol; benzyl alcohol and hexachloroethane the detected SVOCs are PAHs and/or petroleum related.

The VOCs detected in the subsurface soil subgroup were: 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; 2-butanone; 4-isopropyltouene; acetone; chloromethane; m+p-xylenes; sec-butylbenzene; toluene and trichlorofluoromethane.

Most of the detected VOCs cited above are petroleum related. 2-butanone, acetone and trichlorofluoromethane were detected but were likely present in analytical results as laboratory and/or sampling artifacts.

Unknown Soil Subgroup

Compounds detected in the unknown soil subgroup include DRO, GRO, SVOCs and VOCs. The SVOCs detected in the unknown soil subgroup were: acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; chrysene; dibenzofuran; fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; phenanthrene and pyrene. All of these SVOCs are PAHs and/or are petroleum-related. The one VOC detected in the unknown soil subgroup was 2-butanone.

4.1.2 Groundwater

Groundwater analytical results are provided in Appendix D-4. Compounds detected in groundwater beneath the Site include lead (dissolved), petroleum hydrocarbons (DRO, and GRO and kerosene), SVOCs and VOCs. The SVOCs detected in groundwater were: 2-methylnaphthalene; bis(2-

ethylhexyl)phthalate; fluoranthene; fluorene; naphthalene; phenanthrene and pyrene. All of these SVOCs are PAHs which could be attributed to fuels. The VOCs detected in groundwater were: 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; 4-isopropyltoluene; benzene; chloroform; isopropylbenzene; naphthalene; n-propylbenzene; sec-butylbenzene and tert-butylbenzene. With the exception of chloroform, all of the VOCs detected are petroleum-related. Chloroform is commonly used in analytical laboratories and is considered a laboratory artifact, rather than actually present in groundwater beneath the Site.

4.1.3 Surface Water

Surface water analytical results are provided in Appendix D-5. Three surface water samples were collected during the Environmental Site Investigation, SW-1, SW-2 and SW-3. Samples were analyzed for VOCs, TVPH and TPH. Compounds detected in these surface water samples included TVPH in the two downstream samples and VOCs (chloroform, trichloroethene, bromodichloromethane, tetrachloroethene and cis-1,2-dichloroethene). The TVPH detection in SW-2 was noted by the laboratory to be “a single compound not indicative of a volatile petroleum pattern”. The TVPH detection in SW-3 was not qualitatively identified because it was detected at a concentration below the method quantitation limit. In addition, the surface water samples were analyzed for TPH which was not detected. For these reasons the TVPH detections were associated with the chlorinated VOCs in the samples.

None of the VOCs detected in surface water were detected in soil or groundwater at the Site. In addition, the chloroform and bromodichloromethane concentrations in surface water estimated at less than one ppb. Chloroform is a common laboratory artifact. In addition, an on-site source of chlorinated VOCs and/or chloroform was not identified. Finally, Lawton Brook is adjoined by industrial facility to the east and typical industrial facility contaminants can include chlorinated VOCs. For all these reasons, it is unlikely that the contamination detected in the surface water is related to the Tank Farm 3 site.

4.2 REGULATORY CRITERIA

The site is currently used for industrial purposes and the Navy plans to continue using the Site for industrial purposes, so any remaining residential risk following the implementation of a remedy at the Site will be mitigated by LUCs. Soil and groundwater criteria used for comparison to detected concentrations of compounds are described below:

4.2.1 Surficial Soil and Unknown Soil Subgroups

For surficial soil and soil in the unknown depth subgroup, the following screening criteria were used:

- The EPA Regional Screening Levels (RSL) for Industrial Soil (EPA, May 2012). These criteria are developed and maintained through a cooperative agreement between the Oak Ridge National Laboratory (ORNL) and the EPAs Office of Superfund and are considered to be EPA screening criteria.
- The RIDEM GA Leachability Criteria, established by the Office of Waste Management (2011).
- The RIDEM Industrial/Commercial (IC) and Residential (R) Direct Exposure Criteria (DEC) (established in the RIDEM Office of Waste Management Remediation Regulation –DSR-01-93, (RIDEM, 2011).

4.2.2 Subsurface Soil Subgroup

For the subsurface soil subgroup, the following screening criteria were used:

- EPA RSL for Industrial Soil (EPA, May 2012).
- The RIDEM GA Leachability Criteria, established by the Office of Waste Management (RIDEM, 2011).
- The RIDEM Upper Contaminant Limits (UCLs), established by the Office of Waste Management (RIDEM, 2004).
- Also, based upon RIDEM request, the soil data were compared to ICDEC and RDECs.

4.2.3 Groundwater

Groundwater beneath the Site is classified as a GA groundwater classification by RIDEM. GA groundwater is theoretically suitable for drinking water without treatment. Groundwater in these areas is subject to more stringent water quality standards. Concentrations of constituents in groundwater were compared to:

- EPA RSLs for tap water (EPA, May 2012).
- RIDEM GA groundwater objectives (RIDEM, 2011).
- EPA Safe Drinking Water Act MCLs (EPA, May 2012).

Compounds detected in the groundwater subgroup and detected concentrations are summarized in Table 4-4. Groundwater analytical results are provided in Appendix D.

4.3 AREAS OF INVESTIGATION

There are a total of seven areas recommended for further investigation because of the initial sampling indicated the potential for releases and these data gaps should be addressed. These include AOCs already identified in previous documentation, and other areas that have been identified through other means. Some of these areas contain contaminants in Site media (soil, groundwater, surface water) that exceed the most conservative of the criteria described in Section 4.2, and some of the areas require additional investigation because they have not been fully characterized. The Project Team agreed that three areas (Building 227, AOC-001 and AOC-020) warrant additional investigation under CERCLA. Areas that are regulated under CERCLA are designated as Category 1 areas.

The remaining four areas (AOC-004, AOC-017, AOC-023 and Tank 33) have soil or groundwater contamination exceeding RIDEM ICDECs or RIDEM GA groundwater objectives, and warrant management under RIDEM UST regulations. Because the releases from these four areas appear to only be associated with storage and management of virgin petroleum products, which is exempt from CERCLA, the Project Team determined that they are governed by the RIDEM UST Program. Areas that are regulated under RIDEM UST regulations are designated as Category 2 areas.

An additional seven Category 2 areas have been found to contain petroleum at concentrations below ICDECs; but above RDECs. Therefore, although no additional investigation or remediation of these areas is necessary, LUCs are required to provide protectiveness. For these additional Category 2 areas, the Navy will develop a CAP under the UST Regulations to implement the required LUCs at these areas (Tank 23 vent, AOC 005, AOC 009, AOC 010, AOC 012, AOC 018 and AOC 029).

Finally, RIDEM has identified several additional areas of potential concern; these areas are possible release areas that have not yet been determined to be associated with CERCLA releases, or with storage and management of petroleum products. As such, the Project Team has identified these as Category 3 areas. The Category 3 areas will be further evaluated to determine if additional investigation of these areas, if any, will be performed as a Category 1 or Category 2 areas (as appropriate to the findings). These Category 3 areas are discussed further in Section 6.3.3.

The paragraphs below describe the known nature and extent of contamination at each of these areas as determined by review of previous documents and sample results.

4.3.1 Category 1 – Contaminants/Areas Regulated under CERCLA

This section describes the areas that the Project Team determined warrant additional investigation under CERCLA.

AOC 001, Former Burn (Sand Filter) Pit

AOC 001 is the former burn pit (also known as the sand filter pit) on the north end of the Site where bottom sediment and water from Tanks 32, 33, 34, 35 and 36 was processed. Because contaminants associated with fuels and were burned in an uncontrolled manner at this location, the contaminants associated with this burning activity are regulated under CERCLA, as directed by the EPA and the Federal Facilities Agreement (FFA) administered under the IR Program for NAVSTA Newport. Although this is the case, investigations conducted at this location to date have only analyzed the soil samples collected for GRO and DRO. The results of these investigations are summarized below.

Groundwater samples were collected from two wells in the area, and 29 soil samples were collected as part of the SIRAR. Although there were no exceedances of screening criteria (Section 4.2) in the samples collected at this AOC, it has been included in this section because of high levels of GRO detected during soil sampling (GRO does not have federal or state criterion).

A total of 4 groundwater samples were collected from wells GZ-301 and GZ-332, one in 2004 and one in 2009 from each well. GRO results were the only detections in groundwater samples. GZ-301 results indicated that GRO were present at 1.3 mg/L in 2004 and 0.272 mg/L in 2009, while in GZ-332 GRO were detected at 0.14 mg/L in 2004 and not detected in 2009.

During uncovering and cleaning of the Sand Filter Pit in 2004 six soil samples were sent to the lab for analysis of DRO and GRO. Of the six samples five had positive results for GRO, while none had detection of DRO. TF3-001-S1-2.0 results indicated that GRO were present at 6,582 mg/kg; this sample was collected at a seam in the concrete wall of the structure. TF3-001-S1-2.0A was sampled 2 feet west of TF3-001-S1-2.0, and results indicated that GRO were present at 13 mg/kg. TF3-001-S3-2.5 contained GRO at 4,133 mg/kg; this sample was collected below the intake pipe and was visibly contaminated. TF3-001-S4-2.0 did not contain concentrations of contaminants above reporting limits. TF3-001-S4-BOTT results indicated that GRO present at 45 mg/kg; this sample was collected at 7.6 feet bgs (below the pad). TF3-001-S2-BP was collected below two pipes located in the wall of the pit, results indicated that GRO was present at 26 mg/kg.

Although GRO does not have federal or state criterion with which to compare, there is a RIDEM TPH criterion of 500 mg/Kg (RDEC) and 2,500 mg/Kg (ICDEC). Since DRO and GRO are subsets of TPH, the TPH criterion is used herein to compare the sum of the DRO and GRO analyses. Two subsurface soil samples (TF3-001-S1-2.0 and TF3-001-S3-2.5) in this area exceed RIDEM RDEC and ICDEC. PAHs were not analyzed in these samples.

AOC 020/Pad Mounted Transformers

Compounds did not exceed criteria (Section 4.2) in the four soil samples sent to the analytical laboratory as part of test pitting. However, as part of the SIRAR, four surface soil samples were also collected around each of the two pad mounted transformers in this area. Of the eight surface soil samples, three (TF3-TF1-D; TF3-TF2-A and TF3-TF2-C) contained concentrations of Aroclor 1242, 1254 and 1260 above reporting limits. Each of the total PCB concentrations (1,210, 1,450 and 8,200 µg/kg) also exceeded the Industrial ORNL RSL of 740 µg/kg for total PCBs. However, the RIDEM ICDEC and the RIDEM leachability criteria for total PCBs (10,000 µg/kg) were not exceeded in the samples.

Building 227 (The Electrical Control House)

Although as described in Section 2.2.8 of this report, there was no contamination found during previous investigations at Building 227, it is recommended that this building be investigated due to regulator concern that previous sampling did not include sampling for PCBs and metals. Previously collected soil samples were analyzed for TPH, VOCs and PAHs. Previously collected groundwater samples were analyzed for all or a combination of the following: PAHs, VOCs, TPH, TVPH, SVOCs, and DRO. Soil and groundwater sample results indicated that contamination was not present in the vicinity of Building 227. However, regulatory agencies requested additional sampling during previous investigations and Navy agreed to additional investigation at Building 227.

4.3.2 Category 2 – Petroleum Contaminants Regulated under RIDEM

This section describes the areas that the Project Team determined either warrant additional investigation or a CAP under RIDEM UST program.

AOC 004

AOC 004 is located in the middle of the loop road. It was identified during the SIRAR as an area of possible ground staining, as identified from review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004.

Twenty-nine soil samples were collected from test pits excavated at AOC 004 as a part of the SIRAR. Three exceeded the ICDEC for TPH of 2,500 mg/kg. These three samples provided TPH concentrations that ranged from 2,520 to 5,860 mg/kg,. No subsurface soil samples exceeded the UCL TPH criterion of 30,000 mg/kg. The primary TPH component that was present in these samples was GRO, with DRO being present at much lower concentration. Other SVOCs were detected in the subsurface soil sample but were detected at concentrations well below criteria.

Because the TPH concentrations are above the ICDEC, the area warrants further investigation under RIDEM regulations.

AOC 017

AOC 017 is an area along the bank of a drainage ditch. It was identified during the SIRAR as a discolored area from review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004.

A total of 20 soil samples were collected at AOC 017 as part of the SIRAR (Table 4-5). Of these, ten contained compounds above screening criteria. Seven compounds, all PAHs, were detected in soil samples collected from AOC 017 at levels exceeding their respective screening criterion; benzo(a)anthracene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, benzo(b)fluoranthene, benzo(g,h,i)pyrelene and benzo(k)fluoranthene. The RIDEM RDEC, ICDEC and EPA RSL for Industrial soil were exceeded. The samples with the greatest number of exceedances and the highest concentrations of PAHs were: TF3-017-TP2-ES-A-NS and TF3-017-TP2-ES-A-SS-AVG.

It should be noted that only one sample (TF3-017-TP2-ES-A-SS) contained concentrations of compounds above the ICDECs which are the applicable criteria for this Category 2 AOC. Only benzo(a) anthracene and benzo(a)pyrene were above their ICDECs in this sample.

Although GRO was detected in every sample for which it was analyzed, GRO concentrations ranged from 51 mg/kg to 460 mg/kg, below the TPH RIDEM RDEC of 500 mg/Kg. Twelve other parameters were detected in soil samples that were sent to the lab as part of the investigation of AOC 017. Soil sample concentrations in AOC 017 were well below the RIDEM GA Leachability Criteria.

Because some PAH concentrations are above the ICDEC, and the EPA RSL for Industrial soil, the area warrants further investigation under RIDEM regulations.

AOC 023

AOC 023 is an area near Tank 33 access vault. It was identified during the SIRAR as a discolored area from review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004.

A total of 13 soil samples were collected at AOC 023 as part of the SIRAR (Table 4-5). Of these, two contained compounds, all PAHs, above screening criteria. Benzo(a)anthracene, benzo(a)pyrene, and chrysene were the only analytes in this AOC to exceed criteria, all of the exceedances were around test pit 3 in this AOC. The RIDEM RDEC, ICDEC and EPA RSL for Industrial soil were exceeded in this AOC.

It should be noted that only one sample (TF3-023-TP3-ES-1.0) contained concentrations of compounds above the ICDECs which are the applicable criteria for this Category 2 AOC. Only benzo(a)anthracene and benzo(a)pyrene were above their ICDECs in this sample.

As was the case with AOC 017, GRO was detected in every sample that was analyzed for TPH. The GRO concentrations ranged from 42 mg/Kg to 240 mg/Kg, well below the RDEC for TPH. One VOC, acetone, a common laboratory contaminant, was detected in three soil samples at levels below the RIDEM DEC soil criterion.

Because some PAH concentrations are above the ICDEC, and the EPA RSL for Industrial soil, the area warrants further investigation under RIDEM regulations.

Tank 33

Tank 33 is recommended for investigation because a groundwater sample collected from GZ-304 contained levels of naphthalene greater than the RIDEM GA groundwater objective, which was identified as a screening criteria for this location. GZ-304 is located downgradient of Tank 33. Naphthalene levels were 63 µg/L in 2004 when the sample was collected; the RIDEM GA groundwater objective is 20 µg/L. Other wells located in the vicinity of Tank 33 (GZ-305 and GZ-330) did not have exceedances.

Due to the exceedence of the RIDEM GA groundwater objective, this area is recommended for additional investigation under RIDEM regulations.

AOC 005

AOC 005 was identified during the SIRAR as a discolored area from review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004. All of the areas with contamination above ICDECs were excavated and confirmation soil samples did not contain contaminants above the ICDECs. However, some samples with TPH above RDECs were not excavated and remain in place. With the exception of one SVOC (di-n-butyl phthalate) in one sample (TF3-005-TP3-NS-1.0), at a concentration well below the criteria, other constituents were not detected in AOC 005 soil samples.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

AOC 009

AOC 009 was identified during the SIRAR as a discolored area from review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004. Of the confirmation soil samples that were sent to the laboratory from test pits excavated at AOC 009, two surface soil samples (TF3-009-TP1-WS-1.0 and TF3-009-TP4-NS-1.0) contained concentrations (1410 mg/kg and 630 mg/kg, respectively) of TPH that exceeded the RDEC. With the exception of one VOC (acetone) in one sample (TF3-009-TP4-WS-1.0), at a concentration well below the criteria, other constituents were not detected in AOC 009 soil samples.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

AOC 010

AOC 010 was identified during the SIRAR as a discolored area located north of Tank 33 discharge hose. The area was identified from a review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004. Of the 14 confirmatory soil samples from test pits excavated at AOC 010 one surface soil sample (TF3-010-TP2-SS-1.0) contained concentrations of TPH (1927 mg/kg) that exceeded the RDEC. The primary TPH component that was present in this sample was GRO, with DRO being present at much lower concentrations. With the exception of two VOCs (2-

butanone and acetone) in one sample (TF3-010-TP1-WS-1.0), at a concentration well below the criteria, other constituents were not detected in AOC 010 soil samples.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

AOC 012

AOC 012 was identified during the SIRAR as a possibly excavated area from review of a historical aerial photograph. Test pits, soil sampling and soil remediation was performed in this area in 2004. Of the 10 confirmatory soil samples from test pits excavated at AOC 012, one surface soil sample (TF3-012-TP3-SS-1.0) contained concentrations of TPH (510 mg/kg) that exceeded the RDEC (500 mg/kg). The primary TPH component that was present in this sample was GRO, with DRO being present at much lower concentrations. Other contaminants were not detected in AOC 012 soil samples.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

AOC 018

AOC 018 was identified using historical aerial photography during the SIRAR, as an area with disturbed vegetation from a release while filling Tank 35. Test pits, soil sampling and soil remediation was performed in this area in 2004. Of the confirmatory soil samples that were sent to the laboratory from test pits excavated at AOC 018, one surface soil sample (TF3-018-TP2-NS-A-ES) contained concentrations of TPH (1,330 and 2,450 mg/kg) that exceeded the RDEC (500 mg/kg). The primary TPH component that was present in this sample was GRO, with DRO being present at much lower concentrations. With the exception of very low concentrations (well below criteria) of two VOCs: toluene (in five samples) and trichlorofluoromethane (in two samples), other contaminants were not detected in AOC 018 soil samples.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

AOC 029

AOC 029 was identified using historical aerial photography during the SIRAR, as an area with staining and distressed vegetation. Test pits, soil sampling and soil remediation was performed in this area in 2004. Of the confirmation soil samples that were sent to the laboratory from test pits excavated at AOC 029, three soil samples (TF3-029-NS-A-BS-20040927, TF3-029-NS-A-BS-20041217, and TF3-029-WS-A-SS-20040927) all contained concentrations of TPH (650; 788 and 590 mg/kg) that exceeded the RDEC (500 mg/kg). The primary TPH component that was present in these samples was GRO, with DRO being present at much lower concentrations. With the exception of very low concentrations (well below criteria) of one VOC: toluene (in four samples), other contaminants were not detected in AOC 029 soil samples.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

Tank 32 Vent

One sample beneath each of the vent pipes for each Tank was collected and analyzed for TPH. The soil sample collected beneath the vent pipe for Tank 32 that had an exceedance of the RDEC for TPH. The sample (TF3-T32-1.0) contained 1,045 mg/Kg of TPH, primarily as GRO.

Since TPH remains above the RDEC, but below the ICDEC, the area therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

Fuel Lines

The fuel lines at Tank Farm 3 have been monitored during previous investigations by the monitoring wells located adjacent and downgradient of them. The results of these monitoring events are below RIDEM GA Objectives. Due to the fact that two monitoring wells (GT-306 and GZ-331) have not been sampled, and that no monitoring wells or ring drains have been sampled since 2009, RIDEM has requested that the Navy reevaluate impacts that the fuel lines might be having by conducting additional sampling. The Navy has agreed to include additional sampling to the Category 2 SAP to investigate the fuel lines further.

Groundwater

Groundwater samples collected at the site during previous investigations have not been compared to USEPA Commercial Vapor Intrusion Screening Levels (VISLs). Furthermore, laboratory reporting limits for multiple compounds previously analyzed for in groundwater samples were above EPA Tapwater RSLs and sometimes RIDEM GA Objectives, meaning that laboratory analyses were not sensitive enough to detect these compounds at levels possibly greater than criteria. For these reasons, the Navy has agreed to conduct additional groundwater sampling under the Category 2 SAP.

5.0 CHEMICAL FATE AND TRANSPORT

The fate and transport of compounds in environmental media are determined by a variety of factors. The physical and chemical properties of compounds and the environmental media (i.e., soil, groundwater, surface water, air) in which the compounds are released are all factors that determine the eventual fate of these chemicals. For the Tank Farm 3 site, the combination of site-related chemicals, geologic and hydrogeologic conditions, and surface features influence how chemical compounds released to site surface and subsurface soils have migrated into groundwater or have been transformed as the result of degradation processes.

As presented in Section 4, there are three areas (AOC-001, AOC-020 and Building 227) within the Site, which are recommended for investigation under CERCLA. Two of these areas (AOC-001 and AOC-020) have existing conditions where concentrations of compounds are above screening criteria. The third area (Building 227), is recommended for further investigation because the nature and extent of contamination has not been fully investigated.

There are eleven areas that are petroleum areas and are designated for investigation and/or management under the RIDEM regulations. Four of these areas (AOC-004, AOC-017, AOC-023, and Tank 33) are recommended for investigation under RIDEM regulations due to the nature of these areas, and exceedances of RIDEM criteria. Seven of these areas (Tank 32 vent, AOC-005, AOC-009, AOC-010, AOC-012, AOC-018 and AOC-029) contain TPH in soil above the RDEC, but below the ICDEC. These seven areas therefore can be managed with LUCs, established through development of a CAP, which would be prepared under the RIDEM UST regulations.

As stated in previous site reports, the past operating practices at the Tank Farm 3 site have resulted in chemical presence in site surface soil, subsurface soil and groundwater. Throughout the operating history of Tank Farm 3, various known and unknown quantities of organic chemicals were released to the surface and/or subsurface soil.

This section briefly describes the general fate and transport processes for chemical chemicals found in on-site media. The evaluations of chemical fate and transport presented in this section are based on existing site conditions, interpretations of chemicals presence in the environmental media, physical state of soil and groundwater chemical constituents, general fate and transport mechanisms, and the interpretation of the Site's geologic and hydrogeologic conditions based on the available data.

Section 5.1 summarizes the general fate and transport processes and chemical properties that influence fate and transport for all, or a subset of, the areas identified as part of this investigation. More detailed

descriptions of fate and transport processes are available in a number of technical publications and documents. The probable chemical fate and transport pertaining to this site's soils and groundwater are discussed in Sections 5.2 and 5.3, respectively.

5.1 FATE AND TRANSPORT PROCESSES

For Tank Farm 3, the fate and transport processes of concern are those that govern the migration of releases to surface or subsurface soil to groundwater and ultimately to the groundwater discharge locations, i.e. surface water. In addition, the potential migration of surface releases via overland flow and into sediment and surface water are discussed. Once these chemicals have entered into groundwater, other fate and transport mechanisms occur that may cause further chemical migration or transformations. This generalized discussion of fate and transport processes is provided so that the observed site-specific contamination conditions can be better characterized and understood.

5.1.1 General Fate and Transport Processes of Soil Compounds

Organic and inorganic chemicals can be released to soils directly through spills or discharges at the surface or beneath the surface (i.e. via subsurface storage tanks or drains) or through deposition of atmospheric or airborne chemicals. Once organic and inorganic chemicals are released to soils, a variety of processes may occur that may cause them to become immobilized, degraded, or to be mobilized to another environmental medium. Some of these processes include:

Sorption – Chemicals may be taken up and held on soil particles by adsorption (sticking to a particle surface) or absorption (diffusion into the particle). Chemicals may sorb directly to the soil grains or to organic or metal oxyhydroxide coatings on the grains. The degree of sorption of a particular chemical in the environment is controlled by both soil properties (i.e., organic carbon content, metal oxyhydroxide content, clay content, or specific surface area) and by chemical properties (i.e., partition coefficients, solubility, polarity).

Volatilization – Chemicals having high Henry's Law coefficients or vapor pressures will readily volatilize into the ambient air rather than remain adsorbed to the soil particles. Once in the atmosphere, the chemicals may undergo further transport through additional processes such as advection, diffusion, or dispersion. The chemicals may also be transformed through chemical processes such as photolysis or hydrolysis.

Leaching – Chemicals may be transported downward through the soil strata by liquids that infiltrate through the soils or by water from precipitation. Chemicals released to or transported into soils beneath

the groundwater surface may be leached from the soils by groundwater and transported downgradient in groundwater. The leaching of chemicals from soils and their subsequent mobilization are controlled by soil properties (i.e., adsorptive capacity, organic carbon content, clay content, or specific surface area) and by chemical properties (i.e., solubility, ability to partition to other phases).

Runoff/Erosion – In situations where the chemicals remain sorbed (bound) to soil particles, chemicals may still be mobilized from one area to another or to other environmental media. Chemicals sorbed to soil particles can be conveyed over land suspended in runoff that occurs during precipitation events or through the wind erosion of contaminated soils. Chemicals sorbed to surface particles may also become solubilized in rainwater or snowmelt and be conveyed over land dissolved in the precipitation runoff.

5.1.2 General Fate and Transport Processes of Groundwater Compounds

Organic and inorganic chemicals may be directly released to groundwater from subsurface tanks or drainage structures or may be transported into groundwater from other media. Once in groundwater, a variety of processes may occur that affect the transport and transformation of chemicals. This section describes the physical phases of chemicals in groundwater and the general transport and transformation processes affecting chemicals in groundwater.

Physical Phases of Compounds in Groundwater

Chemicals occur in groundwater in two principal physical phases: dissolved (disassociated molecules) and suspended solids (adsorbed to mobile particles). These physical phases dictate how chemicals are transported and changed within the aquifer. The two phases and the fate and transport processes that govern them are described below.

Dissolved Phase - Dissolved aqueous phase organic and inorganic compounds generally migrate in the direction of groundwater flow. Three processes transport dissolved-phase chemicals: advection, mechanical dispersion, and molecular diffusion. These processes are presented in more detail below. In addition, dissolved chemicals may interact with both the aquifer matrix and other groundwater constituents during transport. A variety of chemical, physical, and biological interactions can significantly retard or accelerate the rate of dissolved chemical transport, or transform the chemicals into other chemicals or states.

Non Aqueous Phase Liquid (NAPL) – The migration of NAPL (if present) is different from dissolved phase chemical migration. NAPL phase, even if it is trapped and immobile due to the structure of the aquifer, has a mass that is typically several orders of magnitude greater than normally present in sorbed,

water or vapor states. If the NAPL is mobile the release can result in several methods of transport, including: 1) the dissolution of constituents from NAPL through percolating precipitation, and the downgradient movement of those constituents upon reaching the water table; 2) the release of a quantity of NAPL that exceeds the absorption capacity of the unsaturated zone, resulting in an accumulation of the NAPL lens at the water table surface; 3) the upward vapor-phase migration of volatile constituents from above the NAPL lens and/or from the unsaturated zone to the land surface or to buildings; and 4) the downgradient migration of dissolved-phase constituents resulting from dissolution of the NAPL.

Suspended Solid Phase - Metals and some organic compounds can migrate through aquifers as suspended solids, either in insoluble form or adsorbed to small particles. Research has demonstrated that, depending on the nature of the geologic formation, clay- and silt-sized particles in the colloidal range (0.001 micron to 1.0 micron) can migrate through an aquifer with the groundwater, and that certain organic compounds and metals can be retained on the colloid surfaces through surface charge attractions. The low-flow sampling methods used to collect the groundwater samples evaluated in this RI are designed to obtain samples that include the colloids that would be transported with the groundwater, but exclude the larger particulates that would be introduced from a disturbance in the well caused by sampling.

General Transport and Transformation Processes of Compounds in Groundwater

The major chemical transport processes in groundwater (advection, dispersion, and molecular diffusion) and important transformation and retardation processes (degradation and sorption) are described below:

Advection – Advection is the dominant chemical transport process in groundwater. Advection is the flow of a fluid in response to a gradient, such as pressure or hydraulic head; chemical transport results from the entrainment of the chemicals in the flow field. Advective transport of chemicals consists of the movement of dissolved or suspended compounds with the bulk flow of the groundwater. Under conditions where the only chemical transport mechanism is advection, the rate and direction of advective transport coincide with the rate and direction of groundwater flow. However, the secondary transport and transformation processes described below may slow the rate of transport and spread the compounds over a wider area than indicated by advective transport alone.

In non-ideal aquifer systems, preferential pathways for groundwater flow may occur because of heterogeneities in the subsurface soils or the bedrock matrix, or because of the presence of subsurface structures such as pipelines. Geologic materials (soils or bedrock fractures) that are more permeable than surrounding materials allow the preferential flow of groundwater through those geologic units. Similarly, gaps between a subsurface conduit and the surrounding soils or the presence of bedding

materials that is more permeable than the surrounding soils may create preferred pathways for groundwater flow along the direction of the conduit.

Mechanical Dispersion - Mechanical dispersion is a mixing process that results from velocity variations within bodies of moving fluids. In groundwater environments, variable velocity regimes are caused by irregularities in the aquifer media, and these irregularities exist at a variety of scales. For example, velocity variations at the microscopic scale arise from: 1) fluids move faster through the centers of pores than along the edges; 2) fluids moving faster through large pore spaces than through narrow ones; and 3) some fluid particles following more tortuous flow paths than others as they travel around individual soil particles. At the macroscopic scale, velocity variations result from the presence of layers or lenses of materials having different hydraulic conductivities.

The mixing due to dispersion increases as aquifer heterogeneity increases, and it results in the dilution of a solute body as contaminated water mixes with uncontaminated water along the margins of a plume. Dispersion also results in the spreading of a chemical plume over a larger area (both parallel and perpendicular to the direction of flow) than would be expected from advection alone.

Molecular Diffusion - Molecular diffusion is movement in response to a concentration gradient. Dissolved chemicals will move from areas of high concentration to areas of low concentration within an aquifer even if the groundwater is not moving, because the process is driven by the random thermal motion of the chemical molecules. Diffusive transport is a slow process compared to the more rapid processes of advection and dispersion, and its impact on plume geometry is usually small. Diffusion is typically the dominant transport mechanism only in low-permeability hydrogeologic systems. It is not expected to be important in the relatively permeable geologic materials at the Site.

Sorption – As described above relative to chemical transport in soils, chemicals may be taken up and held on soil particles by adsorption (sticking to a particle surface) or absorption (diffusion into the particle). Both of these processes are known collectively as sorption. Sorption is an important process in chemical transport in groundwater because most groundwater compounds react to some extent with the aquifer's solid surfaces. Consequently, their transport is affected not only by the processes of advection, dispersion, and diffusion, but also by sorption reactions that retard the rate of chemical transport. Chemical sorption to mineral surfaces or the oxyhydroxide or organic coatings on these surfaces cause the chemicals to be removed from the groundwater, at least temporarily, thereby retarding the rate of chemical transport. The extent to which the movement of a chemical is retarded relative to the rate of groundwater flow depends on the solute's propensity to sorb to the aquifer's surfaces. Weakly sorbed chemicals will tend to repeatedly adsorb and desorb, continuing to flow with groundwater at a reduced rate. Strongly sorbed chemicals will tend to remain sorbed to the soil particles and remain out of the

groundwater flow field. The propensity to sorb is governed by many factors including the chemical characteristics of the solute, the composition of the aquifer's solid surfaces, and the groundwater chemistry.

Biological Degradation – The degradation of organic compounds in groundwater can occur by biotic (biological) and abiotic (non-biological) means. In biological degradation (biodegradation), microorganisms use available carbon sources (i.e. organic chemicals or naturally occurring organic compounds) to obtain needed energy and nutrients through reduction-oxidation (redox) reactions. This involves the transfer of electrons from the food/energy source to an electron acceptor such as oxygen or nitrate. Thereby, the energy source (typically the chemical or a naturally occurring organic compound) is oxidized and the electron receptor is reduced. Depending on the microorganisms and chemicals present, biodegradation can occur in groundwater under either aerobic or anaerobic conditions. In both cases, the microorganisms need the right conditions to thrive, including adequate sources of food (carbon), electron acceptors (such as oxygen or nitrate), and essential nutrients (various minerals).

Under aerobic conditions, carbon (as either anthropogenic or naturally occurring organic compounds) is oxidized by microorganisms to provide a net energy gain that is necessary for their growth and reproduction. Dissolved oxygen is used as the primary electron acceptor by the aerobic microorganisms. Low-molecular weight and highly water soluble organic compounds are most readily degraded by aerobic microorganisms. The rate of biodegradation generally decreases for higher molecular weight compounds; those with lower water solubility; and molecules with more complex chemical structures including aromatic rings, branching, or halogen atoms (Hemond, 1994).

After the oxygen in a system is depleted, anaerobic biodegradation becomes the predominant degradation mechanism. Anaerobic microorganisms typically use other available electron acceptors including nitrate, sulfate, ferric iron, and carbon dioxide. The redox reaction results in these electron acceptors being transformed to a reduced state. For example, nitrate is converted to nitrite, nitrous oxide, or nitrogen gas; sulfate to sulfide; ferric iron (Fe^{3+}) to ferrous iron (Fe^{2+}); and carbon dioxide to methane. In some cases, the chlorinated hydrocarbon can be used as the electron acceptor.

Aerobic biodegradation is the primary mechanism for biodegradation of petroleum hydrocarbons, such as the BTEX compounds present in low concentrations and in limited locations, in Site groundwater. Petroleum hydrocarbons can also be degraded anaerobically, but anaerobic degradation typically occurs at a significantly lower rate than aerobic biodegradation.

Abiotic Degradation - Mechanisms of abiotic degradation include hydrolysis, photolysis, chemical oxidation, and chemical reduction. Subsurface chemicals may be degraded or transformed by these

naturally-occurring abiotic processes. Hydrolysis is the process where a chemical molecule and a water molecule are both split and recombine to form new chemicals. Chemical oxidation consists of the loss of electrons by an organic compound or a metal ion to break down or transform the compound. Photolysis is the chemical process by which molecules are broken down into smaller units through the absorption of light, typically yielding electrons. Chemical reductions are the chemical reactions whereby an organic compound or a metal gains electrons. The dominance or effectiveness of these transformation processes is governed by factors such as temperature, pH, conductivity, solubility, and chemical concentration.

Retardation - In groundwater, adsorption-desorption reactions lead to retardation of the rates at which chemicals migrate with advective groundwater flow. During chemical migration through an aquifer, an organic molecule may adsorb to stationary soil particles, to iron oxyhydroxide or to organic coating on the particles, thus slowing the chemical's transport with the groundwater flow. Only after desorption will a chemical rejoin the groundwater flow. The retardation factor (R) is governed by the partition coefficient (Kp) of organic compounds or by the distribution coefficient (Kd) of metals between the sorbed state and the dissolved state. These coefficients are available in reference books or may be measured in the laboratory using site-specific samples.

5.1.3 General Transport Processes of Chemicals in Sediment and Surface Water

The transport processes of chemicals in sediment and surface water are generally the same as those observed controlling chemical migration through soils and groundwater. These processes, as discussed in the previous sections, include advection, mechanical dispersion, molecular diffusion, biological and abiotic degradation, and sorption.

If present, chemicals occur in surface water in both dissolved phase and sorbed to particles. These physical phases dictate how chemicals are transported and changed within the water body. Dissolved-phase chemicals in site surface water are transported primarily by advection in the stream onsite, and also by mechanical dispersion and diffusion in standing water. Chemical transformation in surface water occurs by the same processes affecting groundwater chemicals (biological and abiotic degradation, and sorption); however, photolysis (an abiotic degradation mechanism) is typically more significant in surface water than groundwater.

Once entrained in the water column, sediments are subject to the transport mechanisms governing the surface water. In addition to advection driven by hydraulic gradient, as observed in groundwater transport processes, surface waters are also subject to wind-driven advection. Wind may create surface currents or drift in one direction, which in turn causes return currents at deeper levels.

Sediments may precipitate or settle out depending on the suspended solid particle mass and flow velocities of the surface water. The rate of settling depends on the grain size of particles and on the mineralogy and chemistry of the suspended solid particle. Once part of the sediment bed, the settled particle can be eroded and transported when the shear stress exerted on the bed by surface water flow exceeds a critical minimum shear value. The critical shear stress also varies according to sediment size, mineralogy, and chemistry. If sediment is deposited in locations where the critical shear stress is not exceeded, or is exceeded only infrequently, then the sediment will slowly consolidate, increasing in both density and strength. As bed density increases, the stress threshold for erosion increases, and the sediment deposit becomes more stable and less likely to be eroded by natural forces.

Sediments, both in the suspended and depositional state, can undergo chemical transformations through molecular diffusion and abiotic and biotic degradation similar to the process in saturated soils. In addition, the geochemical conditions of the surface water can also influence the state in which the chemical exists, either in an insoluble state or in a dissolved state, or can cycle back and forth between the soluble and insoluble states.

In addition, certain chemicals may also migrate through surface water and sediments in the tissue of mobile biota that have accumulated the chemicals by absorption or ingestion of contaminated sediments or surface water. Chemicals that have bio-magnified or bio-accumulated through the food chain can migrate with the affected animal within a site and also offsite.

5.2 CHEMICAL FATE AND TRANSPORT IN SITE SOILS

Past releases of petroleum products to the Site's ground surface and/or subsurface have resulted in the presence of TPH, SVOCs, and PCBs in site soils at concentrations greater than applicable standards. In addition, burning of petroleum residue in one area (AOC001) has likely resulted in SVOCs (PAHs) being present in site soils. Depending on a variety of factors, some of these chemicals have been mobilized and have migrated into other environmental media.

5.2.1 SVOCs Fate and Transport in Soils

SVOCs were detected sporadically in site soils. The primary SVOCs detected in site soils are PAHs. SVOCs (phthalates and PAHs) are typically non-volatile or have low volatility, and are much less soluble than VOCs. Therefore, these SVOCs are likely to remain adsorbed to soil particles and are only gradually leached by precipitation infiltration. The PAHs and phthalates were detected very sporadically and at low concentrations in groundwater. Although PAHs were detected sporadically, carcinogenic PAHs typically have a very low risk-based soil screening criteria. Phenolic compounds, also detected in

site soils, have higher water solubilities comparable to those of aromatic hydrocarbons and could be mobilized by leaching. However, phenolic compounds were infrequently detected and detected in low concentrations in soils and were not detected in groundwater. For SVOCs, biodegradation is possible, but is likely to be slow.

SVOCs adsorbed to the soil particles present at the ground surface could be released to the ambient air through fugitive dust emissions when soils are exposed. Wind erosion could cause chemicals adsorbed to soil particles to be transported offsite through advective air flow. However this process is likely to be minimized at this time due to the presence of vegetation and asphalt paving at the Site.

In summary, while SVOCs are present in soils, they are not likely to be mobilizing to groundwater based on the sporadic nature and low concentrations of these compounds in groundwater. Erosion of soils may be causing the transport of SVOCs to sediments into Lawton Brook. Overall, SVOC concentrations do not indicate that significant chemical transport is currently ongoing.

5.2.2 PCBs Fate and Transport in Soils

Three different PCB Aroclors were detected in surface soils in one area of the Site (AOC 020). PCBs are a group of synthetic organic chemicals that contain 209 individual compounds (known as congeners). Mixtures of PCBs, or Aroclors, were manufactured for use in industry as coolants and lubricants in electrical equipment before their manufacture in the United States was ended in 1977. They have been used in closed systems such as heat transfer liquids, hydraulic fluids and lubricants, and in open systems such as plasticizers, surface coatings, inks, adhesives, pesticide extenders, and for micro encapsulation of dyes for carbonless duplicating papers. Aroclor-1242 Aroclor-1254 and Aroclor-1260 are colorless, liquid PCB mixtures with average chlorine content 42% (Aroclor-1242), 54% (Aroclor-1254) and 60% (Aroclor-1260), respectively.

PCBs are inert, thermally and physically stable, and have dielectric properties. PCBs are only slightly water soluble and are strongly sorbed to soil. PCBs tend to remain immobile and sorbed to soil when leached with water; however, in the presence of organic solvents they may leach from soil. PCBs are resistant to biodegradation, although they may biodegrade slowly under some conditions. PCBs are also resistant to chemical degradation by oxidation or hydrolysis.

Because PCBs are nearly insoluble in water and sorb strongly to soil, most of the PCBs mass in soils likely remains bound in the soils, and is expected to remain immobile. Groundwater sample results from the Environmental Site Investigation support the assumption that PCBs are not migrating from soil to groundwater.

5.3 CHEMICAL FATE AND TRANSPORT IN SITE GROUNDWATER

Once organic chemicals enter into the groundwater, the primary transport mechanism is through advective flow. Diffusion and dispersion also can promote the migration of chemicals within the aquifers. After the organic chemicals or metals enter into the overburden aquifer, they can continue migrating with the general direction of groundwater or be removed from the aqueous phase through retardation processes.

5.3.1 VOCs Fate and Transport in Groundwater

Once in the groundwater, the dissolved phase VOCs will be transported via advective flow and theoretically be discharged to Lawton Brook, or even be transported as far as Narragansett Bay. As the VOCs migrate through the aquifer, their progression could be retarded by various processes such as sorption to mineral deposits in the bedrock fractures or degradation by chemical or biological means. Attenuation through dilution can also occur through mixing with less contaminated or uncontaminated groundwater, or through the influx of precipitation infiltration. However, the low concentrations of VOCs historically found would suggest that VOCs attenuated prior to reaching surface water at the Site. In addition, VOCs were not detected above laboratory reporting limits in samples collected during the most current (2009) groundwater sampling event. The VOCs that were historically detected in groundwater at the Site were petroleum-related (or laboratory artifacts) and amenable to aerobic biodegradation.

5.3.2 SVOCs Fate and Transport in Groundwater

SVOCs are generally insoluble or only slightly soluble in groundwater. SVOCs will likely adsorb to organic carbon present in the soils. The most recent groundwater sampling event indicated that the only SVOC detected was naphthalene in a well located downgradient from Tank 33. Overall, the groundwater analytical data indicates minimal presence of SVOCs in groundwater, suggesting that the SVOCs are therefore not mobile and are not being conveyed by groundwater flow.

5.4 CHEMICAL FATE AND TRANSPORT IN SITE SEDIMENT AND SURFACE WATER

The surface waters present at Tank Farm 3 includes a stream (Lawton Brook) and associated wetlands. Lawton Brook enters the Site from the northeast corner of the property, runs along the eastern property boundary and leaves the Site as it crosses beneath Defense Highway. Lawton Brook has been observed to back up before it gets culvertized to go under Defense Highway and from standing water.

In 1995, three surface water samples were collected from Lawton Brook. The results indicated TVPH and VOCs were detected. Chlorinated VOCs including chloroform, trichloroethene (TCE), bromodichloromethane, tetrachloroethene (PCE), and cis 1,2-dichloroethene were detected. However, chlorinated VOCs were not attributed to Tank Farm 3, but rather were attributed to another nearby industrial site (Section 4.1.3). TPH was not detected in the surface water samples, suggesting that TPH contamination in groundwater and soil is not impacting Lawton Brook. Sediment samples were not collected from Lawton Brook or associated wetlands.

5.5 SUMMARY OF FATE AND TRANSPORT

At the Tank Farm 3 Site, past disposal/releases of petroleum products have resulted in the presence of VOCs (aromatic hydrocarbons), and SVOCs (including PAHs) in site soils and groundwater. In addition, the historical burning of petroleum residue in the burning (sand filter) pit (AOC 001) likely resulted in the release of PAHs. Due to the combination of site-related chemicals, geologic and hydrogeologic conditions, and surface features, chemicals released at the Site appear to have substantially degraded in groundwater. Most of the SVOC contamination and TPH contamination in soil has been remediated by selected soil removal actions.

Remaining SVOCs in soils are relatively non-volatile organic compounds and are generally insoluble in water. Similarly, the PCBs in surface soil are relatively non-volatile and insoluble in water. Therefore, there is very limited leaching of these chemicals out of the surface/subsurface soil into groundwater.

6.0 SUMMARY AND CONCLUSIONS

This section presents a summary of the Study Area Screening Evaluation. An updated conceptual site model (CSM) is also presented, based on the 2004 through 2009 analytical data that has been collected.

6.1 FINDINGS OF THE INVESTIGATION

6.1.1 Site Conditions

The site is divided into an upland area in the south central portion of the Site, and a wetland area located along the eastern/ northeastern boundary of the Site (Figure 1-1). Lawton Brook flows from southeast to northwest through the northeastern portion of the Site. Wetlands surround Lawton Brook on either side. A wooded area exists between the wetlands and Lawton Brook and the upland portion of the Site where the tanks are situated. Entrance to the Site is from the west via an access road from the Defense Highway. This road is oriented generally west to east and connects to a loop road that provides access to the tanks.

As shown on Figure 1-2, access to the site, with the exception of the wetland and Lawton Brook, is restricted. The upland portion of the site is currently fenced. The entrance from Defense Highway is gated and locked.

Abutting the Site to the northeast is Raytheon's Submarine Signal Division; to the southeast is a residential area. This residential area has recently expanded and the expanded portion adjoins the Site to the southwest. Abutting the Site to the northwest is Defense Highway and beyond the highway is a Penn Central Railroad right of way. Beyond the right of way is a narrow strip of land and Narragansett Bay.

The topography is such that the ground surface is highest in the south-central portion of the Site and it slopes down to the north, northwest and northeast, in a semi-radial pattern. The topography drops down from 100 feet MLW to 50 feet MLW in the west and 10 feet MLW in the east, along Lawton Brook. Topography drops fairly uniformly across the Site, except it drops much more quickly in the northeastern portion of the Site, leading down to Lawton Brook.

6.1.2 Contaminants Found

Contaminants were found at the Site exceeding Federal and State screening criteria. Contaminants detected at the Site that are in excess of these criteria are summarized in Section 4.0. The most predominant and consistent contaminants exceeding criteria were TPH and PAHs. Historically there were measurable quantities of light NAPL (LNAPL) in some wells at the Site. However, recent data (2004 and 2009) indicate no measurable LNAPL.

Continued investigation, remedial efforts and site closure at the Site fall under different regulatory categories. AOC 001, AOC 020 and Building 227 will be investigated as Category 1 investigation areas. Category 1 investigation areas are managed under CERCLA regulations because these areas potentially contain contaminants associated with the burning of tank sludge, or PCBs may be present.

Category 2 areas are governed by the RIDEM UST program because these areas are associated with storage and management of petroleum products. The Category 2 areas at Tank Farm 3 to be addressed under RIDEM UST regulations include those areas exceeding RIDEMs RDEC or ICDECs. Additional investigation or remediation is not necessary for areas with contamination below ICDECs, but above RDEC; however, LUCs will be required to provide continued protectiveness for these areas. The Navy will develop a CAP under the UST Regulations to implement the required LUCs at these locations (Tank 32 vent, AOC-005, AOC-009, AOC-010, AOC-012, AOC-018, and AOC-029). Four areas have soil or groundwater contamination exceeding ICDECs or RIDEM GA groundwater objectives based on previous sampling conducted, and these areas will require additional investigation (AOC-004, AOC-017, AOC-023, and Tank 33).

In their investigation of Tank Farm 3, DESC, working with RIDEM, identified 6 AOCs as sludge pits (AOC 002 through AOC 007) (SIRAR, Tetra-Tech EC, 2005). The Navy has recently initiated a contract to scope and develop SAPs for the Category 2 sludge pit AOC 004 as contamination remains above RIDEM ICDECs after DESC's investigation/remediation. For sludge pit AOC 005, it is anticipated that a CAP will be required to implement land use controls as DESC actions achieved ICDECs, but did not achieve the RDECs for this AOC. DESC's Site Investigation and Remedial Action Report (SIRAR, Tetra-Tech EC, 2005) concluded the investigation and/or remediation of the remaining sludge pits, AOC 002, 003, 006, and 007, resulted in contaminant levels below RIDEM RDECs; therefore, no additional action was proposed for those 4 AOCs. The Navy has re-evaluated available information/records and confirmed that none of the remaining AOCs where sludge deposition was interpreted (AOCs 002, 003, 006 and 007) have soil samples containing contamination above RIDEM RDECs. Appendix D contains the soil and groundwater analytical results from these AOCs.

6.1.3 Risk Evaluations

The data set for AOC 001 consisted of four groundwater samples from two overburden groundwater monitoring wells, five subsurface soil samples (collected from 2 to 7 feet bgs), and one soil sample from an unknown sample interval. Groundwater samples were analyzed for VOCs, SVOCs, petroleum hydrocarbons, and lead; and soil samples were analyzed for petroleum hydrocarbons. A review of the dataset indicated that DRO and GRO were the only contaminants detected in both matrices.

Limited analytical data are available in AOC-020 and the Building 227 Category 1 areas. In both instances a statistically significant data analysis would require a larger data sample size that what is available.

A screening risk assessment would include a comparison of site chemical concentrations to risk based screening benchmarks. Due to the data gaps identified in the analytical data for the Category 1 areas, a CERCLA screening Human Health Risk Evaluation (HHRE) and a screening Ecological Risk Assessment (ERA) for the Category 1 areas were not conducted.

The four Category 2 areas that have soil or groundwater contamination exceeding ICDECs or RIDEM GA groundwater objectives, are recommended for further investigation under the RIDEM UST program and/or Site Remediation program. These areas are AOC 004, AOC 017, AOC 023 and Tank 33. Existing conditions in these areas have been compared to RIDEM screening criteria and results are described in Section 4.0.

6.2 CONCEPTUAL SITE MODEL

The conceptual site model (CSM) for Tank Farm 3 established in the Work Plan (Foster Wheeler, 2002) was updated using the information collected as a part of the SIRAR. The revised CSM is provided below.

A CSM is an integrated description of how people and potential ecological receptors could come into contact with contaminants at the Site. The CSM has four main objectives, as follows:

- Identify the potential **sources** of the chemicals of potential concern (COPCs) and the likely distribution of the COPCs in the environmental media at the Site;
- Identify the **mechanisms** by which the COPCs may move between environmental media and be transported through the environment;
- Identify the populations of **human and ecological receptors** that could come into contact with the affected media; and

- Identify the **routes of intake** (such as incidental ingestion of the soil or groundwater) by which the populations may be exposed.

The CSM was used as the basis for evaluating environmental site management options and identifying data needs.

6.2.1 Primary Sources

Several known or suspected primary sources are located throughout Tank Farm 3. Primary sources include:

1. the sand filter area (AOC 001);
2. the freestanding outdoor electrical transformer area (AOC 020);
3. the underground storage tanks and the associated underground petroleum distribution lines;
4. OWS #3, and associated BSW lines (currently active); and
5. the waste oil storage tank associated with OWS #3 (currently active).

6.2.2 Secondary Sources

Releases from the primary sources may enter the surrounding soil or groundwater that may then serve as secondary sources of the constituents. Releases from the primary sources are possible due to leaks, spills, overfills, and other activities that occurred as part of routine tank farm operations. Also, a few known releases have been documented. These releases include: the seepage of product from Tank 70, and the overfill and surficial spill from Tank 35 in the early 1980s. Possible secondary sources at Tank Farm 3 are discussed below.

Releases from the tanks, distribution lines and valve system, such as the product seepage from Tank 70 and the 1980s overfilling incident, may have resulted in contamination of the soils and groundwater in the proximity of these facilities. Depending on the lateral extent of the spread of the free product, the backfilled trenches containing the product transfer and drainage system pipelines may have become impacted.

The ring drains and associated drainage system prior to 1974 were believed to discharge into the former sand filter, and the filtered water to discharge into Narragansett Bay. (It should be noted, the ring drain system may have also formed a preferential pathway for material released in the vicinity of the tanks.) These discharges, as well as past disposal practices, such as placing tank bottoms and sludges into the former sand filter may have resulted in the contamination of shallow and deeper subsurface soils, and

groundwater in this area. Some soil was excavated when the sand filter was taken out of service and replaced by the oil/water separator. The sand filter pit was remediated by removal of visibly contaminated oily material from inside the sand filter pit and pressure washing the inside of the sand filter pit. Section 2.2.11 of this report describes past investigations and remedial activities associated with this area, and Section 4.3.1 describes contamination thought to be present, or potentially present in this area.

6.2.3 Migration and Transport Mechanisms

Once in the environment, various migration and transport mechanisms are likely to act to disperse and redistribute the contaminants remaining at Tank Farm 3. The CSM identifies potential migration and transport mechanisms for the constituents at Tank Farm 3. These mechanisms are discussed below.

Contaminants present in the soil may migrate to the air by volatilization, wind resuspension followed by dispersion. Contaminants in the soil may migrate throughout the soil by erosion or runoff, mechanical regrading and redistribution, or precipitation, infiltration, and leaching. Contaminants in the soil may move through the soil and into the groundwater via precipitation, infiltration, and leaching. Contaminants present in the soil may also find their way to the sediment in Lawton Brook by erosion or runoff.

Although LNAPL has not recently been detected at the Site, it was previously measurable in some groundwater monitoring wells. Contaminants in LNAPL may have moved into the groundwater via free phase migration, LNAPL-Soil-Groundwater partitioning, or by preferential pathway migration (distribution lines / ring drain system). Contaminants in LNAPL could also have been transported to the subsurface soil by LNAPL-Soil-Groundwater partitioning.

Contaminants in the groundwater may be transported throughout the groundwater by preferential pathway migration (distribution lines / ring drain system), dissolved phase transport, or inter-aquifer mixing. In any of these cases, if materials were to be transported with the groundwater (dissolved phase transport) to locations where groundwater breaks out locally into the wetland area or banks of Lawton Brook, released contaminants could find their way to surface water and sediments. Surface water could then flow toward Narragansett Bay (open channel flow), carrying dissolved or suspended contaminants with it. Contaminants in the surface water or sediment could be transported throughout Lawton Brook by surface water-sediment partitioning or, for the sediment, by scouring and redeposition. Surface water and sediment contaminants may also enter the outdoor air by volatilization, diffusion, and dispersion. Sediment contaminants may also enter the air, or surface soil, through wind resuspension and dispersion.

6.2.4 Potential Human and Ecological Receptors

The CSM identifies potential human and ecological populations that may be exposed to the chemicals remaining at Tank Farm 3. These populations depend on how the property is used now and in the future. Below, current and potential future land uses are discussed, and the potentially exposed populations associated with these land uses are identified.

Current Human Receptors. Currently, the property is an inactive petroleum fuel tank farm. The majority of the Site is fenced and locked, and access to the area is controlled by NAVSTA Newport. Individuals occasionally visit the Site, generally in the context of the ongoing tank closure or site clean-up activities. In addition, occasional use of the property is currently allowed for bow-hunting during the State deer hunting season only by NAVSTA staff and military (permit required). This use is understood to be a restricted recreational use. Therefore, the populations at current risk of exposure are adult site workers or controlled-access visitors who could be exposed during their time on-site. However, the duration of visits and the intensity of a visitors' interaction with the potentially impacted site media are typically much less than that of a site worker, and the visitor would be expected to experience significantly less potential for exposure than the site worker.

Potential Future Human Receptors. In the future, the Site is likely to remain as Navy property with the possibility the Site may be utilized for construction of wind turbines. This scenario is also considered limited access and continued industrial. Such development would require excavation and regrading of the Site, and therefore, the populations that may be at risk of exposure to contaminants that may remain at Tank Farm 3 would include the construction workers and maintenance workers building and servicing the wind turbines.

Potential Ecological Receptors. The majority of the Tank Farm 3 property is a fenced-in area that contains the USTs, their associated support structures and utilities, and the area's access roads. This area is largely grass covered and open. Wooded areas are located in a strip along the southeastern fenceline, away from the central tank area, and in lesser density around the perimeter of the fenced-in portion of the Tank Farm 3 area. This area appears to be providing suitable habitat for typical grassland or meadow species, including small mammals, rodents, and predatory birds. Deer are also common inside the fence in or near the wooded area bordering Lawton Brook, as they are able to jump the enclosing fence. The portion of the Site outside the fence includes Lawton Brook (which is dammed and can create a seasonal small freshwater reservoir), the adjacent wetlands, and wooded areas. Standing water is not always present in the lower (northwestern) end of Lawton Brook behind the dam. While these areas were not surveyed to establish the types and number of aquatic and terrestrial species present, this area appears to provide high quality habitat for a diversity of species. This is likely to include

invertebrate and benthic species, fish and amphibians, deer, piscivorous mammals, and birds. The plant life in this area is comprised primarily of wetland species along Lawton Brook and backwater areas, and typical grassland and wooded upland species.

6.2.5 Potential Intake Routes

The current site workers and controlled-access visitors, potential future construction workers and maintenance workers, and terrestrial or aquatic ecological receptors could come into contact with the contaminants in the soil, groundwater, air, surface water, or sediment at Tank Farm 3 in a number of ways. These intake routes are discussed below.

Current Exposure Routes. Site workers at Tank Farm 3 could contact the contaminants in soil through direct contact with the soil, incidental ingestion, and inhalation of volatile organics present in soil at AOC-001, and inhalation of airborne dust generated during the closure and cleanup activities. These types of exposures are likely to occur with surface soils or shallow soils (less than 10 feet below grade) that might be exposed during excavation and construction activities. Direct contact with deeper soils is considered unlikely given the depths of the structures and utilities that would be the focus of the construction activities. Site workers may also be exposed to chemicals in the groundwater via limited contact with the local groundwater during excavation work and be exposed by incidental ingestion of or dermal contact with groundwater. Similarly, this type of exposure is expected to be limited to within 10 feet of the ground surface. Site workers also may come into contact with the chemicals in the groundwater if the workers were to accidentally or purposefully ingest the water. However, at the present time there are no groundwater wells at the facility and any appreciable exposure to groundwater by incidental ingestion is not considered likely to occur.

VOCs were not detected above screening criteria and the PAHs detected are not generally volatile. In addition, VOCs were not detected in soil gas surveys conducted at the Site. However, concentrations of gasoline range organics (GRO) were detected in soil at AOC-001, above the RIDEM ICDEC. GRO typically contains petroleum-related VOCs and there is a potential for volatilization of these compounds into air. However, under ambient conditions following volatilization to the outdoor air, these VOCs would dissipate quickly and not be a current exposure route. However, construction workers performing excavation of soils may disturb the soil and result in increased volatilization of compounds into the breathing zone.

Visitors that are onsite currently have controlled access. By walking around the Site, they may be exposed to the contaminants in the soil. Inhalation of particulates may occur from any contaminants in

the soil. Dermal contact with the soil may also expose these visitors to contaminants. Due to the presence of Lawton Brook, exposure to the surface water by dermal contact may also occur.

Future Exposure Routes. In the future, the populations at risk of exposure are construction workers, maintenance workers, and future visitors. These populations may contact the chemicals in the soils and groundwater by the same pathways listed above. Specifically, the construction worker could contact chemicals in soil through direct contact with soil, incidental ingestion, or inhalation of particulate borne contaminants during construction activities. Lastly, the construction worker could come into limited contact with the local groundwater during excavation work and be exposed by incidental ingestion of or dermal contact with groundwater. The direct contact pathways are likely to occur only with the shallow soils and groundwater. The inhalation exposures may occur as a result of shallow or deep soil and groundwater contamination.

Ecological Exposure Routes. Terrestrial ecological receptors would be exposed to contaminants in the surface and subsurface soil via multiple routes of intake.

6.3 CONCLUSIONS

The Study Area Screening Evaluation was conducted to determine if contaminants were present at concentrations exceeding risk based standards, and to determine if additional investigations are necessary under the Installation Restoration Program.

Section 2.0 describes all areas of the Site that were investigated. Where the existing conditions dataset indicates that there is no contamination above federal or RIDEM criteria, areas were dropped from the SASE report in Section 2.0. These areas have been investigated or investigated and remediated to below federal and RIDEM criteria and it is recommended that these areas be closed under the RIDEM regulations. These areas are summarized in Table 2-1.

Table 6-1 includes a summary of results by area and includes all of the areas at the Site where contamination exists above federal or RIDEM criteria. These areas are also described below.

6.3.1 Category 1 Areas – Areas Regulated Under CERCLA

There are three areas within Tank Farm 3 that are recommended to be managed under CERCLA authority as Category 1 areas. Details pertaining to the types of investigation recommended are presented below.

AOC 001 (Former Burn Chamber)

The former burn pit previously contained soil with elevated concentrations of TPH. As described in Section 2.2.11, the soils inside the burn pit structure were removed, and the structure was cleaned. Outside the structure, remaining soils with TPH above RIDEM ICDECs are limited in extent. During excavation and cleaning of the burn pit in 2004, these areas were not accessible for excavation without undermining the structure of the burn pit. Following excavation and cleaning of the burn pit in 2004, a minimum of 6-feet of clean fill was placed back on top of the structure. This indicates that the soil with TPH exceeding RIDEM ICDECs exist at a depth of 7-12 feet bgs. This depth is inaccessible to human contact with the exception of future development and excavation that may occur. Groundwater downgradient of the burn pit is not impacted by VOCs or SVOCs and only contains low concentrations of DRO, based on groundwater samples collected. The absence of contaminants in groundwater indicates that despite the remaining concentrations of TPH in soil in the vicinity of the former burn pit, contaminants are not being mobilized into that groundwater. Regardless, additional sampling and analysis was requested by regulatory agencies. The Navy has agreed to additional soil (surface and subsurface), groundwater and sediment sampling and analysis in this area. Specific areas of interest include the soils surrounding the former burn pit, and the burn pit former discharge pipe, the discharge area of the pipe (Lawton Brook and Lawton's Brook Reservoir). Depending upon the media, samples to be collected should be analyzed for VOCs, PAHs, metals and/or dioxins.

Building 227 (Electrical Control House)

Previous sampling at the Electrical Control House (Building 227) was performed for TPH analysis only. TPH was not detected in this area at concentrations greater than 100 ppm, and the single groundwater monitoring well downgradient of the electrical control house did not indicate the presence of VOC, SVOCs, PAHs, or TPH in groundwater. However, additional investigation is recommended because this Building contains electrical equipment including transformer(s). Soil and groundwater in this area should be sampled and analyzed for PCBs and metals, to determine if these site related contaminants are present and are impacting these media.

AOC 020 (Pad Mounted Transformers)

The two pad mounted transformers are located within AOC 020. This area also formerly contained a transformer blockhouse. Surface soil adjacent to the transformers contains PCBs at concentrations above federal screening criteria but below the applicable RIDEM criteria. It is recommended that the soil (surface and subsurface) and groundwater in this area be further investigated to ensure that the PCBs in soil are not a contaminant source to the groundwater and downgradient receptors. Groundwater can be

sampled from existing well GZ-314, and soils should be sampled to determine the extent and nature of contamination.

6.3.2 Category 2 Areas – Petroleum Contaminants Regulated Under RIDEM

Section 4.0 describes areas of the Site where contamination exists above federal and/or RIDEM regulatory criteria. Prior to implementation of the soil excavation performed as part of the SIRAR, additional areas existed with concentrations of contaminants above regulatory criteria. The SIRAR was implemented in accordance with the Work Plan provided to RIDEM. Data summarized herein provided that the contamination at seven Category 2 areas have been found or remediated to below ICDECs; however, levels above RDECs remain on-site. Therefore, although no additional investigation or remediation of these areas is necessary, LUCs are required to provide protectiveness. The Navy will develop a CAP under the UST Regulations to implement the required LUCs at these areas (Tank 32 vent, AOC 005, AOC 009, AOC 010, AOC 012, AOC 018 and AOC 029). Data summarized herein indicate that the following Category 2 areas have contamination above RIDEM Industrial DECs, or ORNL Industrial Soil Criteria: AOC 004, AOC 017, and AOC 23, Tank 33 (groundwater monitoring well GZ-304) has contamination above RIDEM GA groundwater standards. It is therefore recommended that these areas be further investigated and managed under RIDEM UST Program.

6.3.3 Category 3 – Potential Areas of Concern

The other areas in Tank Farm 3 identified by RIDEM as potential areas of concern will be addressed as Category 3 areas. The Category 3 areas will be further evaluated to determine if additional investigation of these areas, if any, will be performed as a Category 1 or Category 2 AOC:

1) potential floor drains within the valve house (Building 228).
2) an electrical substation (in the southwest corner of the property),
3) the location of a former pump house/ security shed (Building 108),
4) a stripper valve point (Building 229),
5) a possible additional oil water separator (OWS#4),
6) OWS#3, and
7) fencing.

The potential areas of concern will be investigated further by evaluation of existing data, drawings, plans, figures and reports and/or a site visit to document information provided on plans.

TABLES

TABLE 2-1
SUMMARY OF INVESTIGATION AND REMEDIAL ACTION IN 2004
TANK FARM 3 – STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

AOC	Description	Summary of Investigation / Remedial Actions	Required Remediation in 2004 Y/N	Suggested Investigation Post-SASE	Suggested CAP/ LUC Post-SASE
TF3-001	Sand Filter Pit	Located sand filter pit, removed asphalt and overburden, removed visually contaminated soils from concrete vault, stockpiled, sampled and disposed soils off-site, power washed vault, sampled soils outside the walls of the vault, sampled and replaced overburden into concrete vault, place poly liner over area of contamination outside vault.	Y	Y	N
TF3-002	Disturbed ground, probable sludge pit	Located area, excavated and conducted field screening/analysis, collected samples for laboratory analysis. The east sidewall of test pit 1 required additional excavation due to an exceedance in field analysis. Backfilled test pits and excavation area with clean, excavated material.	Y	N	N
TF3-003	Disturbed ground, probable sludge pit	Located area, excavated and conducted field screening/analysis, backfilled test pit with clean, excavated material.	N	N	N
TF3-004	Area of ground staining	Located area, excavated three test pits and conducted field screening/analysis, collect samples for laboratory analysis. Remediated the north sidewall, south sidewall and base of test pit 3 and collected confirmation samples.	Y	Y	N
TF3-005	Area of ground staining	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Remediated the base of test pit 1, and the west sidewalls of test pits 2 and 3.	Y	N	Y
TF3-006	End of hose from tank 32	Located area, excavated one test pit, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pit with clean, excavated material.	N	N	N
TF3-007	Ground scar, staining	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material.	N	N	N

TABLE 2-1
SUMMARY OF INVESTIGATION AND REMEDIAL ACTION IN 2004
TANK FARM 3 – STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

AOC	Description	Summary of Investigation / Remedial Actions	Required Remediation in 2004 Y/N	Suggested Investigation Post-SASE	Suggested CAP/ LUC Post-SASE
TF3-008	End of hose from tank 33	Located area, excavated one test pit, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pit with clean, excavated material.	N	N	N
TF3-009	Ground staining	Located area, excavated seven test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pit with clean excavated material.	Y	N	Y
TF3-010	Ground staining, north of tank 33 hose discharge	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material	Y	N	Y
TF3-011	Stained ground on top of tank 36	Located area, excavated two test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material.	N	N	N
TF3-012	Possible excavated area	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Remediated soil from the west sidewall of test pit 3. Backfilled test pits with clean, excavated material.	Y	N	Y
TF3-013	Stained area from photos	Located area, excavated three test pits, conducted field screening/analysis. Backfilled test pits with clean, excavated material.	N	N	N
TF3-014	Pipe scar from tank 69	Located area, excavated four test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material.	N	N	N
TF3-015	Ground staining, probable hose from tank 70	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material.	N	N	N

TABLE 2-1
SUMMARY OF INVESTIGATION AND REMEDIAL ACTION IN 2004
TANK FARM 3 – STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

AOC	Description	Summary of Investigation / Remedial Actions	Required Remediation in 2004 Y/N	Suggested Investigation Post-SASE	Suggested CAP/ LUC Post-SASE
TF3-016	Disturbed ground with possible staining	Located area, excavated six test pits, conducted field screening/analysis, collected samples for laboratory analysis. Remediated entire area around TP2 to 3 feet bgs and collected confirmation samples. Backfilled test pits with clean excavated soil.	Y	N	N
TF3-017	Drainage swale from tank 69 & 70, Stain observed on 1984 photos	Located area, excavated two test pits, conducted field screening/analysis, collected samples for laboratory analysis. Field analysis required excavation from the easterly base of test pit 1; and from the easterly base, south sidewall, and east side wall of test pit 2. Combined and re-excavated test pits 1 and 2 and collected confirmation samples. Excavated the west sidewall of test pit 1. Backfilled the clean areas of test pits with clean excavated soil.	Y	Y	N
TF3-018	Staining, disturbed veg. (Tank 35 overfill)	Located area, excavated four test pits, conducted field screening/analysis, collected samples for laboratory analysis. Remediated the north sidewall and south sidewall of test pit 2. Backfilled the test pits with clean, excavated material.	Y	N	Y
TF3-019	Ground staining, head of drainage culvert	Located area, excavated two test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material.	N	N	N
TF3-020	Former transformer blockhouse	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated material.	N	Y	N
TF3-021	Electrical control house drain pipe	Located area, excavated two test pits, conducted field screening/analysis. Backfilled test pits with clean, excavated material.	N	N	N
TF3-022	Ground staining east of B228	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled using clean, excavated material.	N	N	N

TABLE 2-1
SUMMARY OF INVESTIGATION AND REMEDIAL ACTION IN 2004
TANK FARM 3 – STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

AOC	Description	Summary of Investigation / Remedial Actions	Required Remediation in 2004 Y/N	Suggested Investigation Post-SASE	Suggested CAP/ LUC Post-SASE
TF3-023	Ground staining from Tank 33 access vault	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Remediated the east sidewall of test pit 3 to a depth of 3 feet. Backfilled test pits with clean excavated soil.	Y	Y	N
TF3-024	Ground staining from tank 33 access vault	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated soil	N	N	N
TF3-025	Ground staining from ’63 ’64 photos	Located area, excavated one test pit, conducted field screening/analysis. Backfilled test pit with clean excavated soil.	N	N	N
TF3-026	Ground staining	Located area, excavated two test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated soil.	N	N	N
TF3-027	Ground staining from ’63 ’64 photos	Located area, excavated one test pit, conducted field screening/analysis. Backfilled test pits with clean, excavated soil.	N	N	N
TF3-028	Ground staining/scarring	Located area, excavated three test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pit with clean excavated soil.	N	N	N
TF3-029	Staining and distressed vegetation from ’84 photos	Located area, excavated five test pits, conducted field screening/analysis, collected samples for laboratory analysis. Excavated the north sidewall of test pit 1, excavated the east, north and west sidewalls of test pit 2, and collected confirmation samples that were sent to the lab. Excavated the south sidewall of test pit 3. Backfilled test pits with clean excavated material.	Y	N	Y
TF3-030	Ground staining	Located area, excavated one test pit, conducted field screening/analysis. Backfilled test pits with clean, excavated soil.	N	N	N

TABLE 2-1
SUMMARY OF INVESTIGATION AND REMEDIAL ACTION IN 2004
TANK FARM 3 – STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

AOC	Description	Summary of Investigation / Remedial Actions	Required Remediation in 2004 Y/N	Suggested Investigation Post-SASE	Suggested CAP/ LUC Post-SASE
TF3-031	Cleared area west of TF3	Located area, excavated one test pit, conducted field screening/analysis. Backfilled test pits with clean, excavated soil.	N	N	N
TF3-032	Ground staining from ’63 ’64 photos	Located area, excavated one test pit, conducted field screening/analysis. Backfilled test pits with clean, excavated soil.	N	N	N
TF3-033	Ground staining from ’63 ’64 photos	Located area, excavated two test pits, conducted field screening/analysis, collected samples for laboratory analysis. Backfilled test pits with clean, excavated soil.	N	N	N
Bldg. 227	Electrical Control Building	One soil boring advanced in vicinity of building, soil samples collected and groundwater samples collected	N	Y	N
Tank 32 Vent	Tank 32 Vent Soil Sample	Soil below each fuel storage vent pipe was collected from 12-18 inches bgs. The sample from below the vent pipe for Tank 32 contained TPH above the RDEC.	N	N	Y

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS
LOCATION ID					TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS
SAMPLE DATE					07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04
TOP DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT
BOTTOM DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																																
2-BUTANONE		10000000	10000000	200000000	NA	NA	NA	NA	NA	NA	NA	NA	21 U	100	21 U	23 U	20 U	24 U	21 U	NA	NA	NA	NA	NA	NA	23 U	NA	21 U	NA	18 U	24 U
ACETONE		7800000	10000000	630000000	NA	NA	NA	NA	NA	NA	NA	NA	260 U	430	260 U	280	250 U	300 U	270 U	NA	NA	NA	NA	NA	NA	130	NA	120	NA	220 U	300 U
TOLUENE	32000	190000	10000000	45000000	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3
TRICHLOROFLUOROMETHANE				3400000	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U
SEMIVOLATILES (UG/KG)																																
ANTHRACENE		35000	10000000	170000000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
BENZO(A)ANTHRACENE		900	7800	2100	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
BENZO(A)PYRENE	240000	400	800	210	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
BENZO(B)FLUORANTHENE		900	7800	2100	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
BENZO(K)FLUORANTHENE		900	78000	21000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
CHRYSENE		400	780000	210000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
DIBENZO(A,H)ANTHRACENE		400	800	210	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
DI-N-BUTYL PHTHALATE			NC	62000000	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U
FLUORANTHENE		20000	10000000	22000000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
PHENANTHRENE		40000	10000000	17000000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
PYRENE		13000	10000000	17000000	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U
PESTICIDES/PCBS (UG/KG)																																
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																																
PERCENT SOLIDS					87.4	89.5	92.9	87.7	91.3	91.4	87.4	85	81.5	85.2	81.2	82.7	85.7	82.9	83.9	85.8	86.5	85.9	83.1	82.9	87.2	84.7	84.8	84.8	85	85.9	85.7
MISCELLANEOUS ORGANICS (%)																																
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																																
DIESEL RANGE ORGANICS					0.59 U	0.55 U	0.51 U	0.59 U	0.50 U	0.55 U	19	10	NA	1.2 U	8.9	20	1 U	27	42	0.56 U	0.55 U	0.56 U	0.55 U	0.60 U	0.49 U	NA	0.54 U	NA	0.72 U	0.92 U	1.4 U
GASOLINE RANGE ORGANICS					43	10	630	3.8 U	92	25	22	160	NA	1500	130	2600	170	440	1500	16	100	77	40	16	300	NA	120	NA	290	61	3.9 U
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		43	10	630	0.00 U	92	25	41	170	NA	1500	138.9	2620	170	467	1542	16	100	77	40	16	300	NA	120	NA	290	61	0.00 U

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0
LOCATION ID					TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0
SAMPLE DATE					09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04	12/17/04	09/01/04	09/01/04
TOP DEPTH					1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH					1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																															
2-BUTANONE		10000000	10000000	200000000	19 U	20 U	NA	26 U	NA	19 U	NA	25 U	21 U	16 U	20 U	NA	NA	22 U	NA	NA	21 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE		7800000	10000000	630000000	230 U	250 U	NA	140	NA	130	NA	170	260 U	210 U	240 U	NA	NA	110	NA	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	32000	190000	10000000	45000000	2.6	2.5 U	NA	3.2 U	NA	2.4 U	NA	3.2 U	2.6 U	2.5	2.7	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE				3400000	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																															
ANTHRACENE		35000	10000000	170000000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE		900	7800	2100	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	240000	400	800	210	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE		900	7800	2100	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE		900	78000	21000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE		400	780000	210000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE		400	800	210	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE			NC	62000000	400 U	370 U	NA	380 U	NA	99 J	NA	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE		20000	10000000	22000000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE		40000	10000000	17000000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE		13000	10000000	17000000	200 U	180 U	NA	190 U	NA	190 U	NA	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)																															
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																															
PERCENT SOLIDS					83	88.1	79.7	84.9	80.1	86.6	81.9	83.1	82.2	90	83.4	89.2	87.6	87.2	82.7	86.6	87.7	85.8	87.5	81.7	79.3	89.8	83.3	71.3	86.5	81.2	83.2
MISCELLANEOUS ORGANICS (%)																															
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																															
DIESEL RANGE ORGANICS					1.4 U	1.4 U	0.63 U	NA	0.64 U	NA	0.63 U	NA	1 U	1.8 U	1.4 U	0.47 U	0.51 U	NA	0.50 U	0.44 U	NA	0.52 U	0.53 U	0.67 U	0.76 U	0.43 U	0.50 U	12	110	0.40 U	0.72 U
GASOLINE RANGE ORGANICS					4 U	3.7 U	340	NA	160	NA	110	NA	110	3.7 U	3.9 U	3.7 U	200	NA	100	240	NA	8.1	32	35	40	3.6 U	9.1	100	1300	86	74
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		0.00 U	0.00 U	340	NA	160	NA	110	NA	110	0.00 U	0.00 U	0.00 U	200	NA	100	240	NA	8.1	32	35	40	0.00 U	9.1	112	1410	86	74

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0
LOCATION ID					TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0
SAMPLE DATE					09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04
TOP DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																																
2-BUTANONE		10000000	10000000	200000000	NA	NA	19 U	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	86	NA	NA	NA	NA	NA	NA	NA	22 U	NA	19 U	NA	NA
ACETONE		7800000	10000000	630000000	NA	NA	170	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	380	NA	NA	NA	NA	NA	NA	NA	270 U	NA	240 U	NA	NA
TOLUENE	32000	190000	10000000	45000000	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA
TRICHLOROFLUOROMETHANE				3400000	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA
SEMIVOLATILES (UG/KG)																																
ANTHRACENE		35000	10000000	170000000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
BENZO(A)ANTHRACENE		900	7800	2100	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
BENZO(A)PYRENE	240000	400	800	210	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
BENZO(B)FLUORANTHENE		900	7800	2100	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
BENZO(K)FLUORANTHENE		900	78000	21000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
CHRYSENE		400	780000	210000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
DIBENZO(A,H)ANTHRACENE		400	800	210	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
DI-N-BUTYL PHTHALATE			NC	62000000	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA
FLUORANTHENE		20000	10000000	22000000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
PHENANTHRENE		40000	10000000	17000000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
PYRENE		13000	10000000	17000000	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA
PESTICIDES/PCBS (UG/KG)																																
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																																
PERCENT SOLIDS					83.5	83.2	85.9	83.2	83.6	83.3	84	82.2	79.3	76	75.7	82.1	84.2	81	85.3	82.3	84.8	83.5	78	82	82.1	83.5	82.7	77.9	87.5	89	76.8	83.5
MISCELLANEOUS ORGANICS (%)																																
PERCENT SOLIDS					NA	NA	86.1	83.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																																
DIESEL RANGE ORGANICS					0.54 U	0.45 U	0.51 U	0.65 U	0.44 U	0.60 U	0.49 U	0.60 U	0.73 U	0.67 U	0.88 U	0.48 U	0.47 U	0.53 U	1.7 U	1.6 U	2 U	27	2 U	1.9 U	1.4 U	0.78 U	18	NA	0.55 U	1.5 U	1.2 U	0.62 U
GASOLINE RANGE ORGANICS					630	51	120	140	7.2	8.7	7.3	21	33	38	42	27	11	22	13	470	5.7	1900	54	11	4 U	15	280	NA	5.1	3.7 U	71	9.8
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		630	51	120	140	7.2	8.7	7.3	21	33	38	42	27	11	22	13	470	5.7	1927	54	11	0.00 U	15	298	NA	5.1	0.00 U	71	9.8

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0
LOCATION ID					TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS
SAMPLE DATE					09/07/04	09/07/04	09/14/04	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04
TOP DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																															
2-BUTANONE		10000000	10000000	200000000	NA	NA	23 U	24 U	22 U	19 U	18 U	23 U	NA	NA	NA	NA	19 U	21 U	19 U	19 U	NA	NA	NA	20 U	28 U	21 U	15 U	NA	20 U	27 U	21 U
ACETONE		7800000	10000000	630000000	NA	NA	280 U	300 U	280 U	240 U	220 U	280 U	NA	NA	NA	NA	240 U	260 U	240 U	230 U	NA	NA	NA	250 U	350 U	260 U	190 U	NA	250 U	340 U	260 U
TOLUENE	32000	190000	10000000	45000000	NA	NA	2.8 U	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U
TRICHLOROFLUOROMETHANE				3400000	NA	NA	2.8 U	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U
SEMIVOLATILES (UG/KG)																															
ANTHRACENE		35000	10000000	170000000	NA	NA	190 U	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	300 J	710 U	NA	200 U	190 U	200 U
BENZO(A)ANTHRACENE		900	7800	2100	NA	NA	190 U	190 U	180 U	380 U	220 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	930	710 U	NA	200 U	190 U	200 U
BENZO(A)PYRENE	240000	400	800	210	NA	NA	190 U	190 U	180 U	380 U	240 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	860	710 U	NA	200 U	190 U	200 U
BENZO(B)FLUORANTHENE		900	7800	2100	NA	NA	190 U	190 U	180 U	380 U	220 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	870	710 U	NA	200 U	190 U	200 U
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	NA	190 U	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	670	710 U	NA	200 U	190 U	200 U
BENZO(K)FLUORANTHENE		900	78000	21000	NA	NA	190 U	190 U	180 U	380 U	210 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	880	710 U	NA	200 U	190 U	200 U
CHRYSENE		400	780000	210000	NA	NA	190 U	190 U	180 U	380 U	230 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	1000	710 U	NA	200 U	190 U	200 U
DIBENZO(A,H)ANTHRACENE		400	800	210	NA	NA	190 U	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	350 J	710 U	NA	200 U	190 U	200 U
DI-N-BUTYL PHTHALATE			NC	62000000	NA	NA	380 U	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U	720 U	780 U	1400 U	NA	400 U	390 U	390 U
FLUORANTHENE		20000	10000000	22000000	NA	NA	190 U	190 U	180 U	200 J	330 J	240 J	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	1200 J	710 U	NA	200 U	190 U	200 U
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	NA	190 U	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	570	710 U	NA	200 U	190 U	200 U
PHENANTHRENE		40000	10000000	17000000	NA	NA	190 U	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	1600	710 U	NA	200 U	190 U	200 U
PYRENE		13000	10000000	17000000	NA	NA	190 U	190 U	180 U	480	650	510	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U	360 U	1400 J	480 J	NA	200 U	190 U	200 U
PESTICIDES/PCBS (UG/KG)																															
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																															
PERCENT SOLIDS					86.4	85.8	87.1	86.7	92.1	86.7	89.5	87.4	84.4	85	86.7	88.1	85.6	84.3	87.5	85.3	86.6	85.7	88.4	82.4	90	85.3	93.2	84.8	81.4	83.9	84.3
MISCELLANEOUS ORGANICS (%)																															
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85.3	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																															
DIESEL RANGE ORGANICS					0.53 U	0.45 U	0.69 U	0.52 U	0.44 U	0.59 U	0.56 U	0.43 U	0.47 U	0.45 U	0.43 U	0.54 U	0.51 U	0.54 U	0.52 U	0.47 U	0.48 U	0.50 U	0.47 U	0.43 U	0.51 U	0.74 U	0.46 U	0.44 U	0.52 U	0.57 U	0.50 U
GASOLINE RANGE ORGANICS					22	510	15	11	12	200	120	110	13	6.1	13	7.3	3.9 U	11	3.8 U	9.3	7.2	18	51	120	430	460	250	7.4	16	14	3.9 U
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		22	510	15	11	12	200	120	110	13	6.1	13	7.3	0.00 U	11	0.00 U	9.3	7.2	18	51	120	430	460	250	7.4	16	14	0.00 U

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0	TF3-018-TP3-WS-1.0	TF3-018-TP3-X1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID					TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0	TF3-018-TP3-WS-1.0	TF3-018-TP3-X1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE					09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																															
2-BUTANONE		10000000	10000000	200000000	19 U	NA	22 U	21 U	25 U	18 U	21 U	21 U	21 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28 U	20 U	22 U	NA	16 U	16 U	NA
ACETONE		7800000	10000000	630000000	240 U	NA	270 U	260 U	310 U	230 U	260 U	260 U	260 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70 U	240	270	NA	240	39 U	NA
TOLUENE	32000	190000	10000000	45000000	3	NA	2.7 U	2.6 U	3.2	2.5	2.6 U	2.6 U	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TRICHLOROFLUOROMETHANE				3400000	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
SEMIVOLATILES (UG/KG)																															
ANTHRACENE		35000	10000000	170000000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZO(A)ANTHRACENE		900	7800	2100	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1000 J	200 U	NA
BENZO(A)PYRENE	240000	400	800	210	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1100 J	200 U	NA
BENZO(B)FLUORANTHENE		900	7800	2100	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZO(K)FLUORANTHENE		900	78000	21000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
CHRYSENE		400	780000	210000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1200 J	200 U	NA
DIBENZO(A,H)ANTHRACENE		400	800	210	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
DI-N-BUTYL PHTHALATE			NC	62000000	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
FLUORANTHENE		20000	10000000	22000000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1600 J	200 U	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
PHENANTHRENE		40000	10000000	17000000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	2200	200 U	NA
PYRENE		13000	10000000	17000000	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	4200	200 U	NA
PESTICIDES/PCBS (UG/KG)																															
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																															
PERCENT SOLIDS					86.1	86.5	80.2	81.5	84.3	82.6	80.2	81.2	82.2	83.8	84.6	75.5	82.8	90.2	89.4	78.1	86.6	87.5	88.4	86.9	88.6	89.4	85	86.9	88.7	83.3	87.4
MISCELLANEOUS ORGANICS (%)																															
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89	88.7	87.1	NA	NA	86.3	NA
PETROLEUM HYDROCARBONS (MG/KG)																															
DIESEL RANGE ORGANICS					230	350	NA	1.7 U	2.4 U	1.4 U	1.8 U	1.7 U	2.1 U	0.57 U	0.52 U	2.4 U	0.43 U	0.54 U	0.60 U	0.64 U	0.58 U	0.63 U	0.42 U	0.49 U	0.75 U	0.48 U	0.56 U	0.59 U	NA	0.52 U	0.48 U
GASOLINE RANGE ORGANICS					1100	2100	NA	4 U	12	9	8	8	16	5.2	3.9 U	4.3 U	22	11	20	11	18	78	54	54	150	240	150	42	NA	110	53
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		1330	2450	NA	0.00 U	12	9	8	8	16	5.2	0.00 U	0.00 U	22	11	20	11	18	78	54	54	150	240	150	42	NA	110	53

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES
LOCATION ID					TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES
SAMPLE DATE					09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04
TOP DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT
BOTTOM DEPTH					1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM
VOLATILES (UG/KG)																															
2-BUTANONE		10000000	10000000	200000000	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	21 U	NA	19 U	26 U	44 U	18 U	21 U	18 U	27 U	21 U	25 U	NA	18 U	22 U	25 U
ACETONE		7800000	10000000	630000000	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	51 U	NA	230 U	320 U	550 U	220 U	260 U	230 U	330 U	260 U	310 U	NA	230 U	270 U	310 U
TOLUENE	32000	190000	10000000	45000000	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.6	4.4	5.5 U	2.2 U	2.6 U	2.3 U	5	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U
TRICHLOROFLUOROMETHANE				3400000	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U
SEMIVOLATILES (UG/KG)																															
ANTHRACENE		35000	10000000	170000000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
BENZO(A)ANTHRACENE		900	7800	2100	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
BENZO(A)PYRENE	240000	400	800	210	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
BENZO(B)FLUORANTHENE		900	7800	2100	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
BENZO(K)FLUORANTHENE		900	78000	21000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
CHRYSENE		400	780000	210000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
DIBENZO(A,H)ANTHRACENE		400	800	210	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
DI-N-BUTYL PHTHALATE			NC	62000000	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U
FLUORANTHENE		20000	10000000	22000000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
PHENANTHRENE		40000	10000000	17000000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
PYRENE		13000	10000000	17000000	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U
PESTICIDES/PCBS (UG/KG)																															
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																															
PERCENT SOLIDS					91.1	87.2	86.5	87.1	86.8	88.1	82.9	83.8	88.8	89.8	88.9	84.4	84.3	84.9	89.3	83.5	87	93.5	94.6	91.6	83.6	84.8	82.7	88.6	90.4	79.9	89.8
MISCELLANEOUS ORGANICS (%)																															
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																															
DIESEL RANGE ORGANICS					0.53 U	0.80 U	0.94 U	0.69 U	0.63 U	NA	22	0.79 U	1 U	0.80 U	0.72 U	0.95 U	NA	0.89 U	1.2 U	1.4 U	2.2 U	1.7 U	1.1 U	1.6 U	1.7 U	1.9 U	8.6	0.56 U	21	1.1 U	0.79 U
GASOLINE RANGE ORGANICS					21	6.8	3.8 U	6.6	210	NA	310	6.6	12	16	3.7 U	110	NA	98	26	75	79	75	160	82	47	25	300	3.7 U	16	290	21
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		21	6.8	0.00 U	6.6	210	NA	332	6.6	12	16	0.00 U	110	NA	98	26	75	79	75	160	82	47	25	308.6	0.00 U	37	290	21

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-1
ANALYTICAL RESULTS - SURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID					TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE					09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH					1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH					1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																															
2-BUTANONE		10000000	10000000	200000000	21 U	22 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE		7800000	10000000	630000000	260 U	280 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	32000	190000	10000000	45000000	2.6 U	2.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE				3400000	2.6 U	2.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																															
ANTHRACENE		35000	10000000	170000000	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE		900	7800	2100	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	240000	400	800	210	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE		900	7800	2100	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE		900	78000	21000	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE		400	780000	210000	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE		400	800	210	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE			NC	62000000	410 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE		20000	10000000	22000000	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE		40000	10000000	17000000	210 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE		13000	10000000	17000000	210 U	130 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)																															
AROCLOR-1242	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	280	250	110 U	1100 U	110 U
AROCLOR-1254	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	930	1200	110 U	1100 U	110 U
AROCLOR-1260	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	120 U	110 U	110 U	8200	110 U
TOTAL AROCLOR	10000	10000	10000	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00 U	0.00 U	0.00 U	1210	1450	0.00 U	8200	0.00 U
MISCELLANEOUS PARAMETERS (%)																															
PERCENT SOLIDS					80.9	83.3	89.6	89.5	85.4	81.7	85.1	86.3	87.9	85.8	76.9	87.5	83.5	83.8	84.7	91.2	88.2	88.4	89.2	85.1	81.3	85.4	83.3	84.9	89.2	91.6	85.8
MISCELLANEOUS ORGANICS (%)																															
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																															
DIESEL RANGE ORGANICS					1.2 U	1.4 U	0.38 U	0.79 U	0.63 U	0.50 U	0.45 U	0.50 U	0.47 U	1.5 U	36	1.5 U	1.9 U	1.6 U	55	0.48 U	0.55 U	1 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA
GASOLINE RANGE ORGANICS					290	49	5.9	85	64	7	6.4	10	13	17	400	300	11	19	990	16	15	29	7.5	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		290	49	5.9	85	64	7	6.4	10	13	17	436	300	11	19	1045	16	15	29	7.5	NA	NA	NA	NA	NA	NA	NA	NA

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-2
ANALYTICAL RESULTS - SUBSURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-001-S1-2.0	TF3-001-S1-2.0A	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS
LOCATION ID					TF3-001-S1-2.0	TF3-001-S1-2.0	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS
SAMPLE DATE					07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/14/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	07/14/04	09/02/04	07/14/04	09/21/04	07/14/04	07/21/04	07/26/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	12/17/04	09/23/04	12/17/04	12/17/04	12/17/04
TOP DEPTH					2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT
BOTTOM DEPTH					2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																																	
1,2,4-TRIMETHYLBENZENE				260000	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	5.9	2.5 U	2.3 U
1,3,5-TRIMETHYLBENZENE				10000000	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	11	2.5 U	2.3 U
2-BUTANONE		10000000	10000000	200000000	NA	NA	NA	NA	NA	16 U	19 U	23 U	21 U	17 U	26 U	25 U	NA	19 U	NA	20 U	NA	NA	52	20 U	20 U	19 U	20 U	25 U	20 U	18 U	20 U	20 U	19 U
4-ISOPROPYLTOLUENE					NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	5.5	2.5 U	2.3 U
ACETONE		7800000	10000000	630000000	NA	NA	NA	NA	NA	64	240 U	290 U	260 U	210 U	65 U	63 U	NA	47 U	NA	50 U	NA	NA	250 U	260 U	250 U	240 U	250 U	310 U	250 U	230 U	260 U	250 U	230 U
CHLOROMETHANE				500000	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	18	NA	4.7 U	NA	5 U	NA	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	5.1 U	4.9 U	4.7 U
M+P-XYLENES	540000	110000	10000000	2700000	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	4.1	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U
SEC-BUTYLBENZENE					NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	5.8	2.5 U	2.3 U
TOLUENE	32000	190000	10000000	45000000	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U
TRICHLOROFLUOROMETHANE				3400000	NA	NA	NA	NA	NA	2 U	2.5	3.2	2.6 U	3	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	2.6 U	2.5 U	2.3 U
SEMIVOLATILES (UG/KG)																																	
1,2-DICHLOROBENZENE	41000	510000	10000000	9800000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	560 J	380 U	740 U	730 U	780 U
1,3-DICHLOROBENZENE	41000	430000	10000000		NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	560 J	380 U	740 U	730 U	780 U
1,4-DICHLOROBENZENE	41000	27000	240000	12000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	550 J	380 U	740 U	730 U	780 U
2-CHLOROPHENOL		50000	10000000	5100000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	500 J	380 U	740 U	730 U	780 U
2-METHYLPHENOL				31000000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	560 J	380 U	740 U	730 U	780 U
3&4-METHYLPHENOL				6100000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	580 J	380 U	740 U	730 U	780 U
BENZO(A)ANTHRACENE		900	7800	2100	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
BENZO(A)PYRENE	240000	400	800	210	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
BENZO(B)FLUORANTHENE		900	7800	2100	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
BENZO(K)FLUORANTHENE		900	78000	21000	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
BENZYL ALCOHOL				62000000	NA	NA	NA	NA	NA	720 U	810 U	760 U	780 U	780 U	800 U	790 U	NA	740 U	NA	760 U	NA	NA	760 U	730 U	730 U	700 U	770 U	1400 U	460 J	750 U	1500 U	1500 U	1600 U
CHRYSENE		400	780000	210000	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
FLUORANTHENE		20000	10000000	22000000	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
HEXACHLOROETHANE		46000	410000	43000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	490 J	380 U	740 U	730 U	780 U
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
PHENANTHRENE		40000	10000000	17000000	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	400	190 U	370 U	360 U	390 U
PHENOL		6000000	10000000	180000000	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA	NA	380 U	370 U	360 U	350 U	380 U	720 U	570 J	380 U	740 U	730 U	780 U
PYRENE		13000	10000000	17000000	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	370 U	360 U	390 U
MISCELLANEOUS PARAMETERS (%)																																	
PERCENT SOLIDS					83	85	81.2	79.9	81	92.6	81.2	84.6	85.3	84	81.3	83.1	86.1	88.2	85.7	85.9	88.9	90	86.7	88.1	90	90.3	85.2	89.3	84.7	87.6	87.5	88.7	85.4
MISCELLANEOUS ORGANICS (%)																																	
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																																	
DIESEL RANGE ORGANICS					82	0.61 U	33	0.55 U	0.53 U	0.52 U	1.9 U	1.3 U	3.4 U	2 U	NA	0.60 U	0.36 U	0.56 U	1.7 U	0.57 U	0.57 U	0.48 U	49	1 U	20	22	1 U	NA	180	24	100	7.2	8.6
GASOLINE RANGE ORGANICS					6500	13	4100	4.1 U	45	89	14	3.9 U	3.9 U	3.9 U	NA	120	3.8 U	3.7 U	3.8 U	3.9 U	32	14	530	360	160	210	28	NA	8400	360	1100	210	1600
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		6582	13	4133	0.00 U	45	89	14	0.00 U	0.00 U	0.00 U	NA	120	0.00 U	0.00 U	0.00 U	0.00 U	32	14	579	360	180	232	28	NA	8580	384	1200	217.2	1608.6

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-2
ANALYTICAL RESULTS - SUBSURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0_20040927	TF3-010-TP2-BS-2.0_20041216	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS-2.0	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0
LOCATION ID					TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0
SAMPLE DATE					12/17/04	12/17/04	07/28/04	07/28/04	09/21/04	07/28/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/20/04	09/27/04	12/16/04	09/20/04	09/07/04	09/07/04	09/14/04	09/15/04	08/31/04	09/02/04	09/08/04
TOP DEPTH					4.5 FT	4.5 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH					4.5 FT	4.5 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																																		
1,2,4-TRIMETHYLBENZENE				260000	2.3 U	2.3 U	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
1,3,5-TRIMETHYLBENZENE				10000000	2.3 U	2.3 U	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
2-BUTANONE		10000000	10000000	200000000	18 U	18 U	NA	NA	16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	NA	20 U	NA	21 U	18 U	21 U	20 U	NA	NA	NA
4-ISOPROPYLTOLUENE					2.3 U	2.3 U	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
ACETONE		7800000	10000000	630000000	230 U	230 U	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250 U	NA	250 U	NA	260 U	220 U	260 U	250 U	NA	NA	NA
CHLOROMETHANE				500000	4.5 U	4.6 U	NA	NA	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA
M+P-XYLENES	540000	110000	10000000	2700000	2.3 U	2.3 U	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
SEC-BUTYLBENZENE					2.3 U	2.3 U	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
TOLUENE	32000	190000	10000000	45000000	2.3 U	2.3 U	NA	NA	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
TRICHLOROFLUOROMETHANE				3400000	2.3 U	2.3 U	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8	NA	2.5 U	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA
SEMIVOLATILES (UG/KG)																																		
1,2-DICHLOROBENZENE	41000	510000	10000000	9800000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
1,3-DICHLOROBENZENE	41000	430000	10000000		730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
1,4-DICHLOROBENZENE	41000	27000	240000	12000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
2-CHLOROPHENOL		50000	10000000	5100000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
2-METHYLPHENOL				31000000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
3&4-METHYLPHENOL				6100000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
BENZO(A)ANTHRACENE		900	7800	2100	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
BENZO(A)PYRENE	240000	400	800	210	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
BENZO(B)FLUORANTHENE		900	7800	2100	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
BENZO(K)FLUORANTHENE		900	78000	21000	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
BENZYL ALCOHOL				62000000	1500 U	1500 U	NA	NA	760 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	810 U	NA	1500 U	NA	750 U	720 U	750 U	760 U	NA	NA	NA
CHRYSENE		400	780000	210000	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
FLUORANTHENE		20000	10000000	22000000	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
HEXACHLOROETHANE		46000	410000	43000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
PHENANTHRENE		40000	10000000	17000000	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
PHENOL		6000000	10000000	180000000	730 U	740 U	NA	NA	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U	NA	380 U	360 U	380 U	380 U	NA	NA	NA
PYRENE		13000	10000000	17000000	360 U	370 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U	NA	190 U	180 U	190 U	190 U	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																																		
PERCENT SOLIDS					88.6	87.6	85.8	83.6	85.7	84.5	88.5	90.8	84.9	87	86.7	83.6	83	82.2	87.1	83.7	86.6	86.5	81.8	86.3	82.9	84.1	86.6	91.1	88.3	88	86.6	88.3	86.2
MISCELLANEOUS ORGANICS (%)																																		
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83.5	NA	NA	NA	86.6	91.1	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																																		
DIESEL RANGE ORGANICS					12	26	0.47 U	0.43 U	1.4 U	0.44 U	0.53 U	0.51 U	0.47 U	0.48 U	0.46 U	0.43 U	0.35 U	0.46 U	0.37 U	0.58 U	0.54 U	0.48 U	1.9 U	10	NA	1.7 U	0.52 U	0.42 U	0.52 U	14	0.53 U	0.48 U	0.39 U
GASOLINE RANGE ORGANICS					440	650	54	78	19	6.9	7.1	3.6 U	3.9 U	3.8 U	3.8 U	4 U	4.4	8.3	46	6.3	6.5	3.8 U	110	93	NA	7.2	100	120	3.8 U	140	11	23	96
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		452	676	54	78	19	6.9	7.1	0.00 U	0.00 U	0.00 U	0.00 U	0.00 U	4.4	8.3	46	6.3	6.5	0.00 U	110	103	NA	7.2	100	120	0.00 U	154	11	23	96

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-2
ANALYTICAL RESULTS - SUBSURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS-2.0	TF3-018-TP2-SS-A-BS-2.0	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW
LOCATION ID					TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS	TF3-018-TP2-SS-A-BS	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW
SAMPLE DATE					09/08/04	08/05/04	09/27/04	09/07/04	09/07/04	09/20/04	09/20/04	09/02/04	08/31/04	08/31/04	09/02/04	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/27/04	09/09/04	09/27/04	09/22/04	09/27/04	08/31/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04
TOP DEPTH					2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT	3 FT	3 FT	3 FT	3 FT
BOTTOM DEPTH					2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT	3 FT	3 FT	3 FT	3 FT
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX					SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																																		
1,2,4-TRIMETHYLBENZENE				260000	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE				10000000	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE		10000000	10000000	200000000	26 U	NA	17 U	NA	NA	17 U	21 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	23 U	NA	19 U	20 U	17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE					3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE		7800000	10000000	630000000	330 U	NA	210 U	NA	NA	210 U	260 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	280 U	NA	230 U	250 U	220 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE				500000	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	540000	110000	10000000	2700000	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE					3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	32000	190000	10000000	45000000	3.3 U	NA	2.2	NA	NA	2.2	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.6	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE				3400000	3.3 U	NA	2.1 U	NA	NA	3.4	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																																		
1,2-DICHLOROBENZENE	41000	510000	10000000	9800000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	41000	430000	10000000		740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	41000	27000	240000	12000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL		50000	10000000	5100000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL				31000000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-METHYLPHENOL				6100000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE		900	7800	2100	310 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	240000	400	800	210	350 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE		900	7800	2100	320 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	270 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE		900	78000	21000	300 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL				62000000	1500 U	NA	780 U	NA	NA	750 U	760 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	710 U	NA	720 U	760 U	770 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE		400	780000	210000	320 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE		20000	10000000	22000000	480	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE		46000	410000	43000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	240 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE		40000	10000000	17000000	210 J	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENOL		6000000	10000000	180000000	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE		13000	10000000	17000000	950	NA	190 U	NA	NA	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																																		
PERCENT SOLIDS					88.5	80.8	86	83.7	83.7	88.6	85.8	84.5	88.8	87.6	88.4	87.4	88.4	85.9	85.7	81.4	92.1	87.6	91.8	88.1	86.9	79.6	86.4	85.9	83.8	78.7	92	88.4	89.6	87.1
MISCELLANEOUS ORGANICS (%)																																		
PERCENT SOLIDS					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																																		
DIESEL RANGE ORGANICS					0.51 U	0.67 U	0.90 U	0.53 U	0.56 U	1.6 U	69	0.55 U	0.49 U	0.46 U	0.55 U	0.42 U	0.76 U	0.66 U	0.76 U	0.76 U	1.2 U	0.57 U	1.3 U	2 U	0.78 U	0.53 U	0.87 U	0.89 U	0.92 U	1 U	0.85 U	0.85 U	0.73 U	0.83 U
GASOLINE RANGE ORGANICS					170	4 U	3.9 U	22	6.9	6.4	34	3.9 U	5	6.6	99	35	3.7 U	9.1	62	80	32	960	100	55	87	13	59	67	35	100	18	26	17	3.8 U
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		170	0.00 U	0.00 U	22	6.9	6.4	103	0.00 U	5	6.6	99	35	0.00 U	9.1	62	80	32	960	100	55	87	13	59	67	35	100	18	26	17	0.00 U

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-2
ANALYTICAL RESULTS - SUBSURFACE SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
LOCATION ID					TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
SAMPLE DATE					09/21/04	09/23/04	09/23/04
TOP DEPTH					10 FT	10 FT	5 FT
BOTTOM DEPTH					10 FT	10 FT	5 FT
SACODE					NORMAL	NORMAL	NORMAL
SUBMATRIX					SB	SB	SB
QC TYPE					NM	NM	NM
VOLATILES (UG/KG)							
1,2,4-TRIMETHYLBENZENE				260000	NA	NA	NA
1,3,5-TRIMETHYLBENZENE				10000000	NA	NA	NA
2-BUTANONE		10000000	10000000	200000000	NA	NA	NA
4-ISOPROPYLTOLUENE					NA	NA	NA
ACETONE		7800000	10000000	630000000	NA	NA	NA
CHLOROMETHANE				500000	NA	NA	NA
M+P-XYLENES	540000	110000	10000000	2700000	NA	NA	NA
SEC-BUTYLBENZENE					NA	NA	NA
TOLUENE	32000	190000	10000000	45000000	NA	NA	NA
TRICHLOROFLUOROMETHANE				3400000	NA	NA	NA
SEMIVOLATILES (UG/KG)							
1,2-DICHLOROBENZENE	41000	510000	10000000	9800000	NA	NA	NA
1,3-DICHLOROBENZENE	41000	430000	10000000		NA	NA	NA
1,4-DICHLOROBENZENE	41000	27000	240000	12000	NA	NA	NA
2-CHLOROPHENOL		50000	10000000	5100000	NA	NA	NA
2-METHYLPHENOL				31000000	NA	NA	NA
3&4-METHYLPHENOL				6100000	NA	NA	NA
BENZO(A)ANTHRACENE		900	7800	2100	NA	NA	NA
BENZO(A)PYRENE	240000	400	800	210	NA	NA	NA
BENZO(B)FLUORANTHENE		900	7800	2100	NA	NA	NA
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	NA	NA
BENZO(K)FLUORANTHENE		900	78000	21000	NA	NA	NA
BENZYL ALCOHOL				62000000	NA	NA	NA
CHRYSENE		400	780000	210000	NA	NA	NA
FLUORANTHENE		20000	10000000	22000000	NA	NA	NA
HEXACHLOROETHANE		46000	410000	43000	NA	NA	NA
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	NA	NA
PHENANTHRENE		40000	10000000	17000000	NA	NA	NA
PHENOL		6000000	10000000	180000000	NA	NA	NA
PYRENE		13000	10000000	17000000	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)							
PERCENT SOLIDS					86.5	85.5	88.4
MISCELLANEOUS ORGANICS (%)							
PERCENT SOLIDS					NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)							
DIESEL RANGE ORGANICS					0.94 U	1.8 U	1.5 U
GASOLINE RANGE ORGANICS					18	8.4	23
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		18	8.4	23

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-3
ANALYTICAL RESULTS - UNKNOWN SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS_20041217	TF3-005-TP3-WS-A-NS_20040927	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS-D	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS
LOCATION ID					TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-NS	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS
SAMPLE DATE					07/29/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	09/27/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/16/04	12/16/04	12/16/04	12/16/04	12/17/04	12/17/04	12/17/04	12/17/04
TOP DEPTH																										
BOTTOM DEPTH																										
SACODE					NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG
SUBMATRIX					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE					NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																										
2-BUTANONE		10000000	10000000	200000000	NA	20 U	22 U	21 U	21 U	58	20 U	NA	19 U	21 U	20 U	23 U	22 U	20 U	20 U	19 U	18 U	21 U	21 U	20 U	19 U	22 U
SEMIVOLATILES (UG/KG)																										
ACENAPHTHENE		43000	10000000	33000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	570 J	200 J	750 U
ACENAPHTHYLENE		23000	10000000	33000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	750 U	380 U	420 J
ANTHRACENE		35000	10000000	170000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	1200	400	1200
BENZO(A)ANTHRACENE		900	7800	2100	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	490 J	660	1800 U	900 U	890 U	950 U	730 U	620 J	660 J	750 U	430 J	4800	1500	8300
BENZO(A)PYRENE	240000	400	800	210	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	640	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	750 U	1500	6900
BENZO(B)FLUORANTHENE		900	7800	2100	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	520	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	750 U	1400	5700
BENZO(G,H,I)PERYLENE		800	10000000	17000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	750 U	960	750 U
BENZO(K)FLUORANTHENE		900	78000	21000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	590	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	750 U	1100	5200
CHRYSENE		400	780000	210000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	530 J	790	1800 U	900 U	890 U	950 U	730 U	810	1000	750 U	800 J	8200	1800	12000
DIBENZOFURAN				1000000	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U	1500 U	1600 U	1100 J	750 U	990 J
FLUORANTHENE		20000	10000000	22000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	970	1800	1800 U	910	890 U	950 U	1100	1500	1300	1200	1500	8900	2500	11000
FLUORENE		28000	10000000	22000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	1500	220 J	1300
INDENO(1,2,3-CD)PYRENE		900	7800	2100	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	310 J	1800 U	900 U	890 U	950 U	730 U	750 U	750 U	750 U	800 U	750 U	860	750 U
PHENANTHRENE		40000	10000000	17000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	720	1800 U	830 J	890 U	950 U	730 U	500 J	750 U	750 U	800 U	7800	2500	6300
PYRENE		13000	10000000	17000000	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	900 J	1400	1800 U	1600	890 U	800 J	1100	2100	2300	1900	1500	11000	3500	11000
MISCELLANEOUS PARAMETERS (%)																										
PERCENT SOLIDS					83.1	86.5	85.8	85.2	85	84.2	82.3	83.3	87.4	85.8	92	90.2	92.4	86.8	88.2	88.6	87.8	88.6	82.9	87.3	85.5	87.8
PETROLEUM HYDROCARBONS (MG/KG)																										
DIESEL RANGE ORGANICS					0.47 U	60	18	1 U	1.1 U	100	1 U	1.1 U	0.94 U	1 U	1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	0.92 U	1 U	1.1 U	0.99 U	0.97 U	1.1 U
GASOLINE RANGE ORGANICS					26	5800	78	290	290	3700	70	110	130	79	260	310	220	200	160	290	200	110	300	140	180	380
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		26	5860	96	290	290	3800	70	110	130	79	260	310	220	200	160	290	200	110	300	140	180	380

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

The acenaphthene RSL is used as a surrogate for acenaphthylene

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-3
ANALYTICAL RESULTS - UNKNOWN SOIL DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA LEACHABILITY CRITERIA	RI GA SOIL RESIDENTIAL CRITERIA	RI GA SOIL DIRECT INDUSTRIAL COMMERCIAL CRITERIA	EPA RSL INDUSTRIAL SOIL CRITERIA	TF3-017-TP2-ES-A-SS-D	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS_20040927	TF3-029-TP2-NS-A-BS_20041217	TF3-029-TP2-NS-A-WS_20041217	TF3-029-TP2-NS-A-WS_20040927	TF3-029-TP2-WS-A-SS_20040927	TF3-029-TP2-WS-A-SS_20041217
LOCATION ID					TF3-017-TP2-ES-A-SS	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-WS-A-SS	TF3-029-TP2-WS-A-SS
SAMPLE DATE					12/17/04	12/20/04	12/20/04	12/20/04	12/20/04	09/27/04	12/17/04	12/17/04	09/27/04	09/27/04	12/17/04
TOP DEPTH															
BOTTOM DEPTH															
SACODE					DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL
SUBMATRIX					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE					FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)															
2-BUTANONE		10000000	10000000	200000000	24 U	23 U	22 U	22 U	23 U	NA	19 U	21 U	NA	NA	20 U
SEMIVOLATILES (UG/KG)															
ACENAPHTHENE		43000	10000000	33000000	380 J	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
ACENAPHTHYLENE		23000	10000000	33000000	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
ANTHRACENE		35000	10000000	170000000	1300	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(A)ANTHRACENE		900	7800	2100	4500	190 U	400 U	250 J	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(A)PYRENE	240000	400	800	210	3500	190 U	400 U	280 J	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(B)FLUORANTHENE		900	7800	2100	2600	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(G,H,I)PERYLENE		800	10000000	17000000	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(K)FLUORANTHENE		900	78000	21000	3900	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
CHRYSENE		400	780000	210000	6100	190 U	400 U	320 J	400 U	NA	380 U	400 U	NA	NA	390 U
DIBENZOFURAN				1000000	1000 J	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
FLUORANTHENE		20000	10000000	22000000	6400	190 U	220 J	460	400 U	NA	380 U	400 U	NA	NA	390 U
FLUORENE		28000	10000000	22000000	1300	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
INDENO(1,2,3-CD)PYRENE		900	7800	2100	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
PHENANTHRENE		40000	10000000	17000000	5500	190 U	350 J	480	400 U	NA	380 U	400 U	NA	NA	390 U
PYRENE		13000	10000000	17000000	4900	190 U	310 J	510	400 U	NA	380 U	400 U	NA	NA	390 U
MISCELLANEOUS PARAMETERS (%)															
PERCENT SOLIDS					88.7	86.1	82.9	79.1	82.2	92.1	84.6	84.1	95.3	86.9	82.7
PETROLEUM HYDROCARBONS (MG/KG)															
DIESEL RANGE ORGANICS					1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.3 U	8.3	6.4	1.2 U	1.3 U	1 U
GASOLINE RANGE ORGANICS					270	98	63	68	77	650	780	260	300	590	82
TOTAL PETROLEUM HYDROCARBONS	500	500	2500		270	98	63	68	77	650	788.3	266.4	300	590	82

Note:

The pyrene RSL is used as a surrogate for phenanthrene and benzo(g,h,i)perylene.

The acenaphthene RSL is used as a surrogate for acenaphthylene

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-4
ANALYTICAL RESULTS - GROUNDWATER DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA GROUNDWATER OBJECTIVE	EPA RSL TAPWATER CRITERIA	EPA SDWA MAXIMUM CONTAMINANT LEVELS (MCLs)	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109
LOCATION ID				GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303	GZ-304	GZ-305	GZ-305	GZ-306
SAMPLE DATE				04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04	05/25/04	05/01/09	05/25/04	05/01/09
TOP DEPTH																							
BOTTOM DEPTH																							
SACODE				NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE				NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/L)																							
1,2,4-TRIMETHYLBENZENE		15		1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	140	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE		87		1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	84 J	1 U	1 U	1 U
4-ISOPROPYLTOLUENE				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U
BENZENE	5	0.39	5	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U
CHLOROFORM		0.19	80	1 U	1 U	1 U	1 U	0.60 J	0.74 J	0.79 J	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U
ISOPROPYLBENZENE		390		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	0.55 J	100 U	1.8	1.2	1 U
NAPHTHALENE	20	0.14		1 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	5 U	NA	5 U	1 U	5 U	1 U	5 U	5 U	500 U	1 U	5 U	1 U
N-BUTYLBENZENE		780		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	79 J	1 U	1 U	1 U
N-PROPYLBENZENE		530		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U
SEC-BUTYLBENZENE				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	0.77 J	1.7	57 J	2.9	2.4	1
TERT-BUTYLBENZENE				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U
SEMIVOLATILES (UG/L)																							
2-METHYLNAPHTHALENE		27		2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U	93	2 U	2.5 U	2 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	0.071		2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U	5 U	4 B	5 U	2 U
FLUORANTHENE		630		2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U	2.5 U	2 U	2.5 U	2 U
FLUORENE		220		2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U	2.5 U	2 U	2.5 U	2 U
NAPHTHALENE	20	0.14		2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U	63	2 U	2.5 U	2 U
PHENANTHRENE		87		2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U	2.5 U	2 U	2.5 U	2 U
PYRENE		87		2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U	2.5 U	2 U	2.5 U	2 U
DISSOLVED METALS (UG/L)																							
LEAD	15		15	0.83 U	NA	NA	NA	0.83 U	NA	NA	0.83 U	NA	0.83 U	NA	NA	NA	0.83 U	NA	NA	NA	0.83 U	NA	0.83 U
PETROLEUM HYDROCARBONS (MG/L)																							
DIESEL RANGE ORGANICS				NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	0.272	1.3	NA	0.25	0.23	77	NA	0.14	NA
GASOLINE RANGE ORGANICS				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA
KEROSENE				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	77	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS				NA	0.00 U	0.00 U	0.00 U	NA	0.00 U	0.00 U	NA	0.00 U	NA	0.00 U	0.272	1.3	NA	0.25	0.23	77	NA	0.14	NA

Note:

The pyrene tapwater RSL is used as a surrogate for phenanthrene.

The MCL for chloroform is the MCL for total trihalomethanes.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-4
ANALYTICAL RESULTS - GROUNDWATER DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA GROUNDWATER OBJECTIVE	EPA RSL TAPWATER CRITERIA	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004-D	GZ-318-050609	GZ-318-052004	GZ-318-050609-D	GZ-318-050609-AVG
LOCATION ID			GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318
SAMPLE DATE			05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09
TOP DEPTH																							
BOTTOM DEPTH																							
SACODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG
SUBMATRIX			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE			NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	FD	NM
VOLATILES (UG/L)																							
1,2,4-TRIMETHYLBENZENE		15	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.4	100 U	1.6	1.5
1,3,5-TRIMETHYLBENZENE		87	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U
4-ISOPROPYLTOLUENE			1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	3.4	1.95
BENZENE	5	0.39	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2	1 U	1	1 U	100 U	1 U	1 U
CHLOROFORM		0.19	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	0.60 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U
ISOPROPYLBENZENE		390	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.65 J	1 U	0.58 J	1.8	100 U	1.9	1.85
NAPHTHALENE	20	0.14	5 U	1 U	5 U	5 U	250 U	1 U	5 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	1 U	5 U	1.5	500 U	1.5	1.5
N-BUTYLBENZENE		780	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U
N-PROPYLBENZENE		530	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2	100 U	2.2	2.1
SEC-BUTYLBENZENE			2.5	1 U	1 U	1 U	68	1.7	1.7	1 U	1 U	1 U	1 U	3.8	1 U	1 U	3.4	1 U	3.2	3.7	100 U	3.9	3.8
TERT-BUTYLBENZENE			0.51 J	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	100 U	1.1	1.05
SEMIVOLATILES (UG/L)																							
2-METHYLNAPHTHALENE		27	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	0.071	10 U	2 U	10 U	5 U	26	2 U	5 U	5 U	2 U	2 U	5 U	10 U	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2	1.5
FLUORANTHENE		630	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U	2 U	5 U	5 U	2 U	5 U	1 J	80	2 U	1 J
FLUORENE		220	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U	2 U	5 U	5 U	2 U	5 U	1 J	25 U	2 U	1 J
NAPHTHALENE	20	0.14	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U
PHENANTHRENE		87	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U	2 U	5 U	5 U	2 U	5 U	2	48	2 U	1.5
PYRENE		87	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	48	2 U	2 U
DISSOLVED METALS (UG/L)																							
LEAD	15		NA	NA	NA	NA	NA	0.83 U	NA	NA	1.4 B	0.83 U	NA	NA	0.83 U	NA	NA	0.83 U	NA	0.83 U	NA	0.83 U	0.83 U
PETROLEUM HYDROCARBONS (MG/L)																							
DIESEL RANGE ORGANICS			0.43	NA	0.10 U	0.10 U	140	NA	0.22	0.22	0.147	NA	0.10 U	0.36	NA	0.10 U	0.68	NA	0.68	2.14	84	NA	2.14
GASOLINE RANGE ORGANICS			NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	0.10	NA	NA	0.10
KEROSENE			NA	NA	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	NA	NA
TOTAL PETROLEUM HYDROCARBONS			0.43	NA	0.00 U	0.00 U	140	NA	0.22	0.22	0.147	NA	0.00 U	0.36	NA	0.00 U	0.68	NA	0.68	2.24	84	NA	2.24

Note:

The pyrene tapwater RSL is used as a surrogate for phenanthrene.

The MCL for chloroform is the MCL for total trihalomethanes.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-4
ANALYTICAL RESULTS - GROUNDWATER DETECTED COMPOUNDS
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	RI GA GROUNDWATER OBJECTIVE	EPA RSL TAPWATER CRITERIA	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID			GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE			05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH																							
BOTTOM DEPTH																							
SACODE			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE			NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/L)																							
1,2,4-TRIMETHYLBENZENE		15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.60 J	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,3,5-TRIMETHYLBENZENE		87	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
4-ISOPROPYLTOLUENE			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.96	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
BENZENE	5	0.39	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
CHLOROFORM		0.19	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
ISOPROPYLBENZENE		390	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.1	2.7	0.65	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
NAPHTHALENE	20	0.14	1 U	5 U	1 U	5 U	5 U	5 U	1 U	5 U	0.60 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	50 U
N-BUTYLBENZENE		780	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.3 J
N-PROPYLBENZENE		530	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3	1.6	0.53	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
SEC-BUTYLBENZENE			1 U	1 U	1 U	1 U	1 U	1 U	1.5	1.7	10	8.7	1 U	1 U	3.4	1 U	1.4	1 U	1 U	1 U	2.2	1 U	9.2 J
TERT-BUTYLBENZENE			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3	1.1	1 U	1 U	0.65 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
SEMIVOLATILES (UG/L)																							
2-METHYLNAPHTHALENE		27	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	6	0.071	2 U	5 U	3 B	9.6 J	10 U	10 U	2 U	150	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	52	10 U	10 U
FLUORANTHENE		630	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
FLUORENE		220	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
NAPHTHALENE	20	0.14	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
PHENANTHRENE		87	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
PYRENE		87	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
DISSOLVED METALS (UG/L)																							
LEAD	15		0.83 U	NA	0.83 U	NA	NA	NA	0.83 U	NA	0.83 U	NA	NA	NA	NA	NA	NA	NA	0.83 U	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/L)																							
DIESEL RANGE ORGANICS			0.126	0.10 U	NA	0.23	0.10 U	0.10 U	0.373	1.5	2.01	8.6	14	0.10 U	0.55	0.10 U	0.58	0.10 U	NA	0.14	0.35	0.19	23
GASOLINE RANGE ORGANICS			0.01 U	NA	NA	NA	NA	NA	0.01 U	NA	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KEROSENE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS			0.126	0.00 U	NA	0.23	0.00 U	0.00 U	0.373	1.5	2.06	8.6	14	0.00 U	0.55	0.00 U	0.58	0.00 U	NA	0.14	0.35	0.19	23

Note:

The pyrene tapwater RSL is used as a surrogate for phenanthrene.

The MCL for chloroform is the MCL for total trihalomethanes.

DARK SHADING - AT LEAST ONE CRITERION EXCEEDED; LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
TANK 32	Groundwater	GZ-302	GZ-302-051704
			GZ-302-050109
	Surface Soil	TF3-T32-1.0	TF3-T32-1.0
	Subsurface Soil	TF3-T32-BS-10.0	TF3-T32-BS-10.0
TANK 33	Groundwater	GZ-304	GZ-304-052504
		GZ-305	GZ-305-052504
			GZ-305-050109
		GZ-330	GZ-330-052004
	Surface Soil	TF3-T33-1.0	TF3-T33-1.0
		TF3-T33	TF3-T33-1.0
		TF3-033-TP1	TF3-033-TP1-ES-1.0
			TF3-033-TP1-NS-1.0
			TF3-033-TP1-SS-1.0
			TF3-033-TP1-WS-1.0
TANK 34	Groundwater	GZ-306	GZ-306-051704
			GZ-306-050109
		GZ-307	GZ-307-051704
			GZ-307-050409
		GZ-320	GZ-320-051904
			GZ-320-050109
		GZ-321	GZ-321-051904
		GZ-322	GZ-322-051904
		GZ-323	GZ-323-052504
			GZ-323-050609
	Surface Soil	TF3-T34	TF3-T34-1.0
TANK 35	Groundwater	GZ-308	GZ-308-051404
		GZ-309	REMOVED
		GZ-310	GZ-310-052604
		GZ-315	GZ-315-052604
		GZ-324	GZ-324-052604
			GZ-324-050609
		GZ-325	GZ-325-052604
		GZ-326	GZ-326-052604
		GZ-327	GZ-327-052704
		GZ-333	GZ-333-052704
		GZ-334	GZ-334-052604
		GZ-335	GZ-335-052704
TANK 36	Groundwater	GZ-311	GZ-311-051404
			GZ-311-050409
		GZ-312	GZ-312-051404
		GZ-317	GZ-317-052004-AVG
			GZ-317-050409
	Surface Soil	TF3-T36	TF3-T36-1.0
	Subsurface Soil	TF3-T36	TF3-T36-BS

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
TANK 69	Groundwater	GT-305	GT-305-051404
			GT-305-043009
		GZ-313	GZ-313-050509
	Surface Soil	TF3-T69	TF3-T69-1.0
	Subsurface soil	TF3-T69	TF3-T69-SS-5.0
TANK 70	Groundwater	GT-301	GT-301-051304
			GT-301-043009
		GT-302	GT-302-051304-AVG
		GT-303	GT-303-051304
			GT-303-043009
		GT-304	GT-304-051404
		GT-307	GT-307-051304
			GT-307-050409
Petroleum Distribution Lines	Groundwater	GZ-316	GZ-316-052804
			GZ-316-050409
		GZ-318	GZ-318-052004
			GZ-318-050609-AVG
		GZ-319	GZ-319-052504
			GZ-319-050609
		GZ-329	GZ-329-052004
AOC 001	Groundwater	GZ-301	GZ-301-052004
			GZ-301-050509
		GZ-332	GZ-332-052504
			GZ-332-050409
	Subsurface Soil	TF3-001-S1	TF3-001-S1-2.0
			TF3-001-S1-2.0A
		TF3-001-S3	TF3-001-S3-2.5
		TF3-001-S4	TF3-001-S4-2.0
			TF3-001-S4-BOTT
	Unknown Soils	TF3-001-S2	TF3-001-S2-BP
AOC 002	Subsurface Soil	TF3-002-TP1	TF3-002-TP1-BS-5.0
			TF3-002-TP1-ES-A-BS
			TF3-002-TP1-ES-A-ES
			TF3-002-TP1-ES-A-NS
			TF3-002-TP1-ES-A-SS
			TF3-002-TP1-NS
			TF3-002-TP1-NS-2.5
			TF3-002-TP1-SS-2.5
			TF3-002-TP1-WS-2.5
		TF3-002-TP2	TF3-002-TP2-SS-2.5

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 003	Subsurface Soil	TF3-003-TP1	TF3-003-TP1-BS-5.0
AOC 004	Surface Soil	TF3-004-TP1	TF3-004-TP1-SS-1.0
		TF3-004-TP2	TF3-004-TP2-ES-1.0
			TF3-004-TP2-NS-1.0_20040726
			TF3-004-TP2-NS-1.0_20040902
			TF3-004-TP2-SS-1.0
			TF3-004-TP2-WS-1.0
		TF3-004-TP3	TF3-004-TP3-ES-1.0
			TF3-004-TP3-NS-A-NS-1.0_20040927
			TF3-004-TP3-NS-A-NS-1.0_20041217
			TF3-004-TP3-NS-A-WS
			TF3-004-TP3-NS-B-ES
			TF3-004-TP3-NS-B-NS
			TF3-004-TP3-SS-A-ES-AVG
			TF3-004-TP3-SS-A-WS
	Subsurface Soil	TF3-004-TP1	TF3-004-TP1-BS-2.0
		TF3-004-TP2	TF3-004-TP2-BS-2.0
		TF3-004-TP3	TF3-004-TP3-BS-B-BS
			TF3-004-TP3-BS-B-ES
			TF3-004-TP3-BS-B-NS
			TF3-004-TP3-BS-B-SS
			TF3-004-TP3-BS-B-WS
			TF3-004-TP3-NS-A-BS
			TF3-004-TP3-NS-B-BS
			TF3-004-TP3-SS-A-BS
	Unknown Soils	TF3-004-TP3	TF3-004-TP3-SS-05
			TF3-004-TP3-SS-06
			TF3-004-TP3-SS-07
			TF3-004-TP3-SS-08
			TF3-004-TP3-SS-09
AOC 005	Surface Soils	TF3-005-TP1	TF3-005-TP1-ES-1.0
			TF3-005-TP1-NS-1.0
			TF3-005-TP1-SS-1.0
			TF3-005-TP1-WS-1.0
		TF3-005-TP2	TF3-005-TP2-ES-1.0
			TF3-005-TP2-NS-1.0_20040728
			TF3-005-TP2-NS-1.0_20040907
			TF3-005-TP2-SS-1.0_20040728
			TF3-005-TP2-SS-1.0_20040907
			TF3-005-TP2-WS-A-BS_20040927
			TF3-005-TP2-WS-A-BS_20041217
			TF3-005-TP2-WS-A-NS
			TF3-005-TP2-WS-A-SS
			TF3-005-TP2-WS-A-WS
		TF3-005-TP3	TF3-005-TP3-ES-1.0_20040728
			TF3-005-TP3-ES-1.0_20040907
			TF3-005-TP3-NS-1.0_20040728
			TF3-005-TP3-NS-1.0_20040907
			TF3-005-TP3-SS-1.0_20040728
			TF3-005-TP3-SS-1.0_20040907
			TF3-005-TP3-WS-A-NS_20041217-D
			TF3-005-TP3-WS-A-SS
			TF3-005-TP3-WS-A-WS

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 005	Subsurface Soil	TF3-005-TP1	TF3-005-TP1-BS-B-BS
			TF3-005-TP1-BS-B-ES
			TF3-005-TP1-BS-B-NS
			TF3-005-TP1-BS-B-SS
			TF3-005-TP1-BS-B-WS
		TF3-005-TP2	TF3-005-TP2-BS-2.0
		TF3-005-TP3-BS-2.0	TF3-005-TP3-BS-2.0
			TF3-005-TP3-WS-A-BS
AOC 006	Surface Soil	TF3-006-TP1	TF3-006-TP1-ES-1.0
			TF3-006-TP1-NS-1.0_20040728
			TF3-006-TP1-NS-1.0_20040907
			TF3-006-TP1-SS-1.0
			TF3-006-TP1-WS-1.0_20040728
			TF3-006-TP1-WS-1.0_20040907
	Subsurface Soil	TF3-006-TP1	TF3-006-TP1-BS-2.0
AOC 007	Surface Soil	TF3-007-TP1	TF3-007-TP1-WS-1.0
		TF3-007-TP2	TF3-007-TP2-ES-1.0
			TF3-007-TP2-NS-1.0
			TF3-007-TP2-SS-1.0
			TF3-007-TP2-WS-1.0
	Subsurface Soil	TF3-007-TP1	TF3-007-TP1-BW-2.0
		TF3-007-TP2	TF3-007-TP2-BE-2.0
			TF3-007-TP2-BW-2.0
		TF3-007-TP3	TF3-007-TP3-BW-2.0
AOC 008	Surface Soil	TF3-008-TP1	TF3-008-TP1-WS-1.0
	Subsurface Soil	TF3-008-TP1	TF3-008-TP1-BS-2.0
AOC 009	Surface Soils	TF3-009-TP1	TF3-009-TP1-ES-1.0
			TF3-009-TP1-WS-1.0
		TF3-009-TP3	TF3-009-TP3-ES-1.0
		TF3-009-TP4	TF3-009-TP4-ES-1.0
			TF3-009-TP4-NS-1.0
			TF3-009-TP4-SS-1.0
			TF3-009-TP4-WS-1.0
		TF3-009-TP5	TF3-009-TP5-ES-1.0
			TF3-009-TP5-NS-1.0
			TF3-009-TP5-SS-1.0
			TF3-009-TP5-WS-1.0
		TF3-009-TP6	TF3-009-TP6-ES-1.0
			TF3-009-TP6-NS-1.0
			TF3-009-TP6-SS-1.0
			TF3-009-TP6-WS-1.0
		TF3-009-TP7	TF3-009-TP7-ES-1.0
			TF3-009-TP7-SS-1.0
			TF3-009-TP7-WS-1.0
	Subsurface Soil	TF3-009-TP3	TF3-009-TP3-BE-2.0
			TF3-009-TP3-BW-2.0
		TF3-009-TP4	TF3-009-TP4-BS-2.0
		TF3-009-TP5	TF3-009-TP5-BS-2.0
		TF3-009-TP6	TF3-009-TP6-BS-2.0
		TF3-009-TP7	TF3-009-TP7-BS-2.0

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 010	Surface Soils	TF3-010-TP1	TF3-010-TP1-NS-1.0
			TF3-010-TP1-WS-1.0
		TF3-010-TP-2	TF3-010-TP2-ES-1.0
			TF3-010-TP2-SS-1.0
			TF3-010-TP2-WS-1.0
		TF3-010-TP3	TF3-010-TP3-ES-1.0
			TF3-010-TP3-NS-1.0
			TF3-010-TP3-SS-1.0
			TF3-010-TP3-WS-1.0_20040927
			TF3-010-TP3-WS-1.0_20041216
	Subsurface Soil	TF3-010-TP1	TF3-010-TP1-BS-2.0
		TF3-010-TP2	TF3-010-TP2-BS-2.0_20040927
			TF3-010-TP2-BS-2.0_20041216
		TF3-010-TP3-BS-2.0	TF3-010-TP3-BS-2.0
AOC 011	Surface Soil	TF3-011-TP1	TF3-011-TP1-ES-1.0
		TF3-011-TP2	TF3-011-TP2-ES-1.0
AOC 012	Surface Soils	TF3-012-TP1	TF3-012-TP1-SS
		TF3-012-TP2	TF3-012-TP2-ES-1.0
		TF3-012-TP3	TF3-012-TP3-ES-1.0
			TF3-012-TP3-SS-1.0
			TF3-012-TP3-WS-A-NS-1.0
			TF3-012-TP3-WS-A-SS-1.0
			TF3-012-TP3-WS-A-WS-1.0
	Subsurface Soil	TF3-012-TP1	TF3-012-TP1-BS-2.0
		TF3-012-TP3	TF3-012-TP3-BS-2.0
			TF3-012-TP3-WS-A-BS-2.0
AOC 014	Surface Soils	TF3-014-TP4	TF3-014-TP4-ES-1.0
			TF3-014-TP4-NS-1.0
			TF3-014-TP4-WS-1.0
AOC 015	Surface Soil	TF3-015-TP1	TF3-015-TP1-SS-1.0
		TF3-015-TP3	TF3-015-TP3-ES-1.0
			TF3-015-TP3-WS-1.0
		TF3-015-TP4	TF3-015-TP4-SS-1.0
AOC 016	Surface Soil	TF3-016-TP2	TF3-016-TP2-A-ES-1.5
			TF3-016-TP2-A-NS-1.5
			TF3-016-TP2-A-SS-1.5
			TF3-016-TP2-A-WS-1.5
		TF3-016-TP3	TF3-016-TP3-WS-1.0
		TF3-016-TP5	TF3-016-TP5-SS-1.0
	Subsurface Soil	TF3-016-TP2	TF3-016-TP2-A-BS-3.0
		TF3-016-TP3	TF3-016-TP4-BS-2.0
		TF3-016-TP5	TF3-016-TP5-BS-2.0

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 017	Surface Soils	TF3-017-TP1	TF3-017-TP1-ES-1.0
			TF3-017-TP1-NS-1.0
			TF3-017-TP1-SS-1.0
			TF3-017-TP1-WS-1.0
		TF3-017-TP2	TF3-017-TP2-NS-1.0
	Subsurface Soil	TF3-017-TP1	TF3-017-TP1-BW-2.0
		TF3-017-TP2	TF3-017-TP2-BW-2.0
	Unknown Soils	TF3-017-TP1	TF3-017-TP1/2-A-BS
			TF3-017-TP1/2-A-ES
			TF3-017-TP1/2-A-NS
			TF3-017-TP1/2-A-SS-AVG
			TF3-017-TP1/2-A-WS
			TF3-017-TP1-WS-A-BS
			TF3-017-TP1-WS-A-NS
			TF3-017-TP1-WS-A-SS
			TF3-017-TP1-WS-A-WS
		TF3-017-TP2	TF3-017-TP2-ES-A-BS
			TF3-017-TP2-ES-A-ES
			TF3-017-TP2-ES-A-NS
			TF3-017-TP2-ES-A-SS-AVG
AOC 018	Surface Soils	TF3-018-TP1	TF3-018-TP1-ES-1.0
			TF3-018-TP1-WS-A-NS-1.0
			TF3-018-TP1-WS-A-SS-1.0
			TF3-018-TP1-WS-A-WS-1.0
		TF3-018-TP2	TF3-018-TP2-NS-A-ES-1.0_20040923
			TF3-018-TP2-NS-A-ES-1.0_20040927
			TF3-018-TP2-NS-A-ES-1.0_20041216
			TF3-018-TP2-NS-A-NS-1.0
			TF3-018-TP2-NS-A-WS-1.0
			TF3-018-TP2-SS-A-ES-1.0
			TF3-018-TP2-SS-A-SS-1.0-AVG
			TF3-018-TP2-SS-A-WS-1.0
		TF3-018-TP3	TF3-018-TP3-ES-1.0
			TF3-018-TP3-WS-1.0
			TF3-018-TP3-X-1.0
		TF3-018-TP4	TF3-018-TP4-ES-1.0
	Subsurface Soil	TF3-018-TP1	TF3-018-TP1-BS-2.0
			TF3-018-TP1-WS-A-BS
		TF3-018-TP2	TF3-018-TP2-BE-2.0
			TF3-018-TP2-BW-2.0
			TF3-018-TP2-NS-A-BS-2.0
			TF3-018-TP2-SS-A-BS-2.0
		TF3-018-TP4	TF3-018-TP4-BS-2.0
AOC 019	Surface Soil	TF3-019-TP2	TF3-019-TP2-ES-1.0
	Subsurface Soil	TF3-019-TP2	TF3-019-TP2-BS-2.0

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 020	Groundwater	GZ-314	GZ-314-051404
			GZ-314-050409
	Surface Soils	TF3-020-TP3	TF3-020-TP3-ES-1.0
			TF3-020-TP3-NS-1.0
		TF3-TF1	TF3-TF1-A
			TF3-TF1-B
			TF3-TF1-C
			TF3-TF1-D
		TF3-TF2	TF3-TF2-A
			TF3-TF2-B
			TF3-TF2-C
			TF3-TF2-D
	Subsurface Soil	TF3-020-TP3	TF3-020-TP3-BS-2.0
AOC 022	Surface Soil	TF3-022-TP2	TF3-022-TP2-WS-1.0
		TF3-022-TP3	TF3-022-TP3-ES-1.0
			TF3-022-TP3-NS-1.0
			TF3-022-TP3-SS-1.0
AOC 023	Surface Soils	TF3-023-TP1	TF3-023-TP1-NS-1.0
		TF3-023-TP2	TF3-023-TP2-NS-1.0
			TF3-023-TP2-SS-1.0
			TF3-023-TP2-WS-1.0
		TF3-023-TP3	TF3-023-TP3-ES-1.0
			TF3-023-TP3-SS-1.0
			TF3-023-TP3-WS-1.0
	Subsurface Soil	TF3-023-TP2	TF3-023-TP2-BS-2.0
		TF3-023-TP3	TF3-023-TP3-BS-2.0
	Unknown Soils	TF3-023-TP3	TF3-023-TP3-ES-A-BS
			TF3-023-TP3-ES-A-ES
			TF3-023-TP3-ES-A-NS
			TF3-023-TP3-ES-A-SS
AOC 024	Surface Soil	TF3-024-TP3	TF3-024-TP3-WS-1.0
AOC 026	Surface Soil	TF3-026-TP1	TF3-026-TP1-ES-1.0
			TF3-026-TP1-SS-1.0
			TF3-026-TP1-WS-1.0
	Subsurface Soil	TF3-026-TP1	TF3-026-TP1-BS-2.0

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 028	Surface Soil	TF3-028-TP1	TF3-028-TP1-WS-1.0_20040805
			TF3-028-TP1-WS-1.0_20040907
		TF3-028-TP2	TF3-028-TP2-SS-1.0
			TF3-028-TP2-WS-1.0
		TF3-028-TP3	TF3-028-TP3-ES-1.0
			TF3-028-TP3-NS-1.0
			TF3-028-TP3-SS-1.0
			TF3-028-TP3-WS-1.0_20040805
			TF3-028-TP3-WS-1.0_20040907
	Subsurface Soil	TF3-028-TP1	TF3-028-TP1-BS-2.0
		TF3-028-TP2	TF3-028-TP2-BS-2.0
		TF3-028-TP3	TF3-028-TP3-BS-2.0
AOC 029	Surface Soils	TF3-029-TP1	TF3-029-TP1-NS-1.0
			TF3-029-TP1-NS-A-ES
			TF3-029-TP1-NS-A-NS
			TF3-029-TP1-NS-A-WS
		TF3-029-TP2	TF3-029-TP2-ES-A-ES
			TF3-029-TP2-ES-A-NS
			TF3-029-TP2-ES-A-SS
			TF3-029-TP2-NS-A-ES
			TF3-029-TP2-NS-A-NS
			TF3-029-TP2-NS-A-WS_20041217-D
			TF3-029-TP2-SS-1.0
			TF3-029-TP2-WS-A-NS
			TF3-029-TP2-WS-A-WS
		TF3-029-TP3	TF3-029-TP3-SS-A-ES
			TF3-029-TP3-SS-A-SS
			TF3-029-TP3-SS-A-WS
			TF3-029-TP3-WS-1.0
		TF3-029-TP5	TF3-029-TP5-NS-1.0
			TF3-029-TP5-WS-1.0
	Subsurface Soil	TF3-029-TP1	TF3-029-TP1-NS-A-BS
		TF3-029-TP2	TF3-029-TP2-BS-2.0
			TF3-029-TP2-ES-A-BS
			TF3-029-TP2-WS-A-BS
		TF3-029-TP3	TF3-029-TP3-SS-A-BS
	Unknown Soils	TF3-029-TP2	TF3-029-TP2-NS-A-BS_20040927
			TF3-029-TP2-NS-A-BS_20041217
			TF3-029-TP2-NS-A-WS_20040927
			TF3-029-TP2-NS-A-WS_20041217-AVG
			TF3-029-TP2-WS-A-SS_20040927
			TF3-029-TP2-WS-A-SS_20041217

TABLE 4-5
SAMPLE COLLECTION SUMMARY
TANK FARM 3 - STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RHODE ISLAND

Area/AOC	Sample Type	Sample Location	Sample ID
AOC 033	Subsurface Soil	TF3-033-TP1	TF3-033-TP1-ES-1.0
			TF3-033-TP1-NS-1.0
			TF3-033-TP1-SS-1.0
			TF3-033-TP1-WS-1.0
		TF3-033-TP1	TF3-033-TP1-BS-2.0
Oil Water Separator No. 3	Groundwater	GZ-303	GZ-303-051704
	Scrape	TF3-0/W_SEP_3	TF3-0/W_SEP_3
Drainage Swale Samples	Surface Soil	TF3-DSW-1	TF3-DSW-1
		TF3-DSW-2	TF3-DSW-2
		TF3-DSW-3	TF3-DSW-3
		TF3-DSW-4	TF3-DSW-5
Electric Control House (Building 228)	Subsurface Soil	TF3-B228	TF3-B228-FPE
			TF3-B228-FPW
			TF3-B228-NSE
			TF3-B228-NSW
			TF3-B228-SSE
			TF3-B228-SSME
			TF3-B228-SSMW
			TF3-B228-SSW
	Groundwater	GZ-328	GZ-328-051704

TABLE 6-1
SUMMARY OF RESULTS BY AREA AND CATEGORY
TANK FARM 3- STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RI

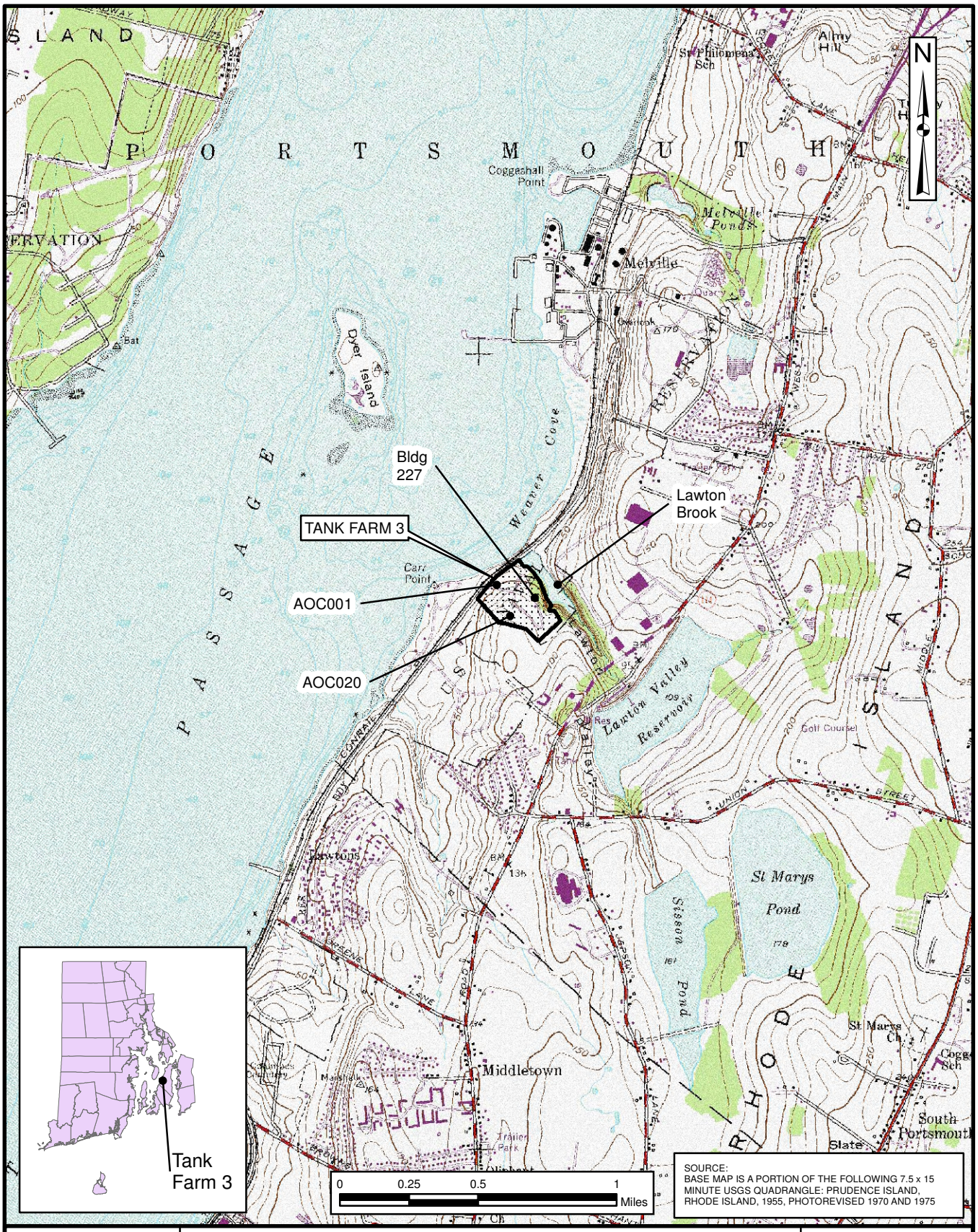
Area	History	Status	Analytical Summary	Recommendations
Catogory 1 Area				
Burn (Sand Filter) Pit AOC 001	Tank bottoms and ring-drain water was historically pumped this sand filter. Residual oil remaining in the sand filter was reportedly burned or scraped off and removed to an off-site location.	In 2004, contaminated soil within pit and accessible contaminated soil outside pit was excavated. Inside of pit was pressure washed. The structure remains beneath six feet of clean fill.	Groundwater below criteria. Limited volume of soil with TPH above RIDEM criteria remain.	Due to sludge burning, further investigation under CERCLA and Navy IR Program.
Building 227	Electrical Control House	A transformer is located in this building and it potentially stored other contaminant sources.	One soil boring has been advanced downgradient of the building. Soil samples were collected and groundwater samples were collected. No evidence of contamination.	Further investigate the soils and groundwater in the vicinty of Building 227 under CERCLA and Navy IR Program.
AOC 020	2 Pad mounted transformers located within this AOC which consists of a former (decomissioned) tranformer blockhouse	Two pad monted transformers remain in this area. Soil sampling associated with the transformers occurred in 2004 and analysis for PCBs was performed.	Soil analytical results were below the RIDEM criteria. But were above the ORNL for PCBs.	Further investigate soil and groundwater for PCBs under CERCLA and Navy IR Program.
Category 2 Areas				
AOC 004	Area of ground staining seen in aerial photograph in middle of loop road	Test pits and soil remediation in 2004	Soil concentrations of TPH remain above RIDEM Residential and Industrial DEC	Further investigate/manage under the RIDEM UST program
AOC 017	Discolored area along bank of drainage ditch seen in aerial photograph	Test pits and soil remediation in 2004	PAHs in soil remaing above RIDEM Residential DEC.	Further investigate/manage under the RIDEM UST program
AOC 023	Ground staining from Tank 33 access vault	Test pits and soil remediation in 2004	PAHs in soil remaing above RIDEM Residential and Industrial DEC.	Further investigate/manage under the RIDEM UST program
Tank 33	UST used for storage of fuels from World War 2 until the 1970s	Tank Closed	Downgradient monitoring well GZ-304 contained elevated levels of naphthalene in 2004	Further investigate/manage under the RIDEM UST program
Tank 32 Vent	Vent associated with UST used for storage of fuels from World War 2 until the 1970s	Tank Closed	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program
AOC 005	Discolored area seen in aerial photograph	Test pits and soil remediation in 2004	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program
AOC 009	Discolored area seen in aerial photograph	Test pits and soil remediation in 2004	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program
AOC 010	Discolored area seen in aerial photograph	Test pits and soil remediation in 2004	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program
AOC 012	Possibly excavated area and staining seen in aerial photograph	Test pits and soil remediation in 2004	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program
AOC 018	Disturbed vegetation seen in aerial photograph	Test pits and soil remediation in 2004	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program
Groundwater	Site wide around tanks and distribution lines	Previously sampled	Some locations have concentrations slightly above EPA RSL tapwater criteria.	Two rounds of sampling and analysis
AOC 029	Staining and distressed vegetation seen in aerial photograph	Test pits and soil remediation in 2004	TPH in soil remaining above RIDEM Residential DEC.	Manage with a CAP and LUC under the RIDEM UST program

TABLE 6-1
SUMMARY OF RESULTS BY AREA AND CATEGORY
TANK FARM 3- STUDY AREA SCREENING EVALUATION
NAVSTA NEWPORT, NEWPORT RI

Area	History	Status	Analytical Summary	Recommendations
Category 3 Areas				
Building 228	Potential floor drains withhin the valve house. The building contain(ed) possible sources	Previously investigated for petroleum impacts, pipes were excavated, eight samples collected	No exceedences of RDEC for TPH	Investigate the inside of the building and develop a SAP if a floor drain is found
Electrical substation	Electrical substation in the southewest corner of property	Not investigated	Not applicable	Further evaluation to determine if additional investigation is required
Former Building 108	Location of former pump house/ security shed. Housed switch gear to activate the fire suppression system	Building no longer exists. Not investigated	Not applicable	Further evaluation to determine if additional investigation is required
Building 229	A stripper valve point, part of petroleum distribution piping	Previously cleaned and decommissioned. No record of release.	Not applicable	Further evaluation to determine if additional investigation is required
Possible OWS#4	A structure was labelled OWS#4 in the Work Plan for Site Closure.	There are no records of this OWS and it was likely never built or was mis-labelled	Not applicable	Further evaluation to determine if this structure exists and if so, if an investigation is required
Fencing	Painted metal fence around the Site	Not investigated	Not applicable	Further evaluation to determine if additional investigation is required

FIGURES

I:\02710\PP.DF\TF3_LOCUS.MXD DWM 09/17/12



SOURCE:
BASE MAP IS A PORTION OF THE FOLLOWING 7.5 x 15 MINUTE USGS QUADRANGLE: PRUDENCE ISLAND, RHODE ISLAND, 1955, PHOTOREVISED 1970 AND 1975

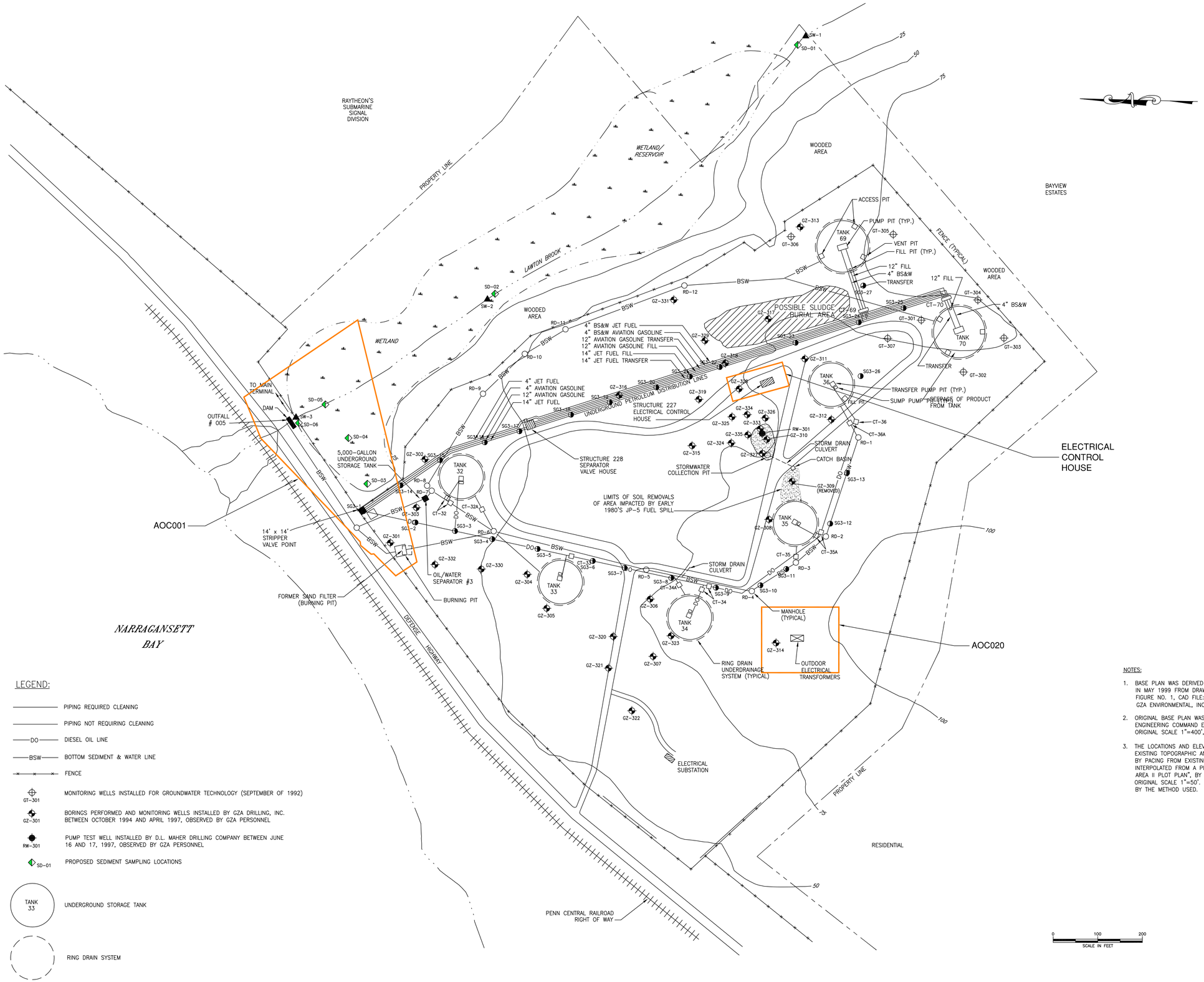
TETRA TECH

NAVSTA NEWPORT
PORTSMOUTH, RHODE ISLAND

SITE LOCUS MAP

TANK FARM 3
CATEGORY 1 DATA GAPS ASSESSMENT
SAMPLING AND ANALYSIS PLAN

SCALE	
AS NOTED	
FILE	
\..\TF3_LOCUS.MXD	
REV	DATE
0	09/17/12
FIGURE NUMBER	
FIGURE NO. 1-1	



LEGEND:

- PIPING REQUIRED CLEANING
- PIPING NOT REQUIRING CLEANING
- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- FENCE
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SD-01 — PROPOSED SEDIMENT SAMPLING LOCATIONS
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM

NOTES:

1. BASE PLAN WAS DERIVED AND DIGITIZED BY FOSTER WHEELER ENVIRONMENTAL CORPORATION IN MAY 1999 FROM DRAWING ENTITLED "DFSC/TANK FARM 3 – SITE PLAN", PROJECT NO. 31288.9, FIGURE NO. 1, CAD FILE: TANK-3.DWG, VIEW TANK3-LARGE, DATED JANUARY 1998, BY GZA ENVIRONMENTAL, INC.
2. ORIGINAL BASE PLAN WAS DEVELOPED FROM A PLAN PROVIDED BY NAVAL FACILITIES ENGINEERING COMMAND ENTITLED "NAVAL COMPLEX NEWPORT, R.I. MELVILLE (SOUTH)", ORIGINAL SCALE 1"=400', DRAWING NO. 944208.
3. THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE APPROXIMATELY DETERMINED BY SURVEY FROM EXISTING TOPOGRAPHIC AND MAN-MADE FEATURES. THE LOCATIONS OF THE TANKS WERE DETERMINED BY PACING FROM EXISTING TOPOGRAPHIC FEATURES. THE LOCATIONS OF THE UTILITY LINES WERE INTERPOLATED FROM A PLAN ENTITLED "FUEL DISTRIBUTION SYSTEM STORAGE TANKS 32-36, 69 & 70 AREA II PLOT PLAN", BY J.M. McCUSKER CO., DATED JUNE 11, 1954, DRAWING NO. Y&D# 627332, ORIGINAL SCALE 1"=50'. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

TETRA TECH NUS, INC.

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

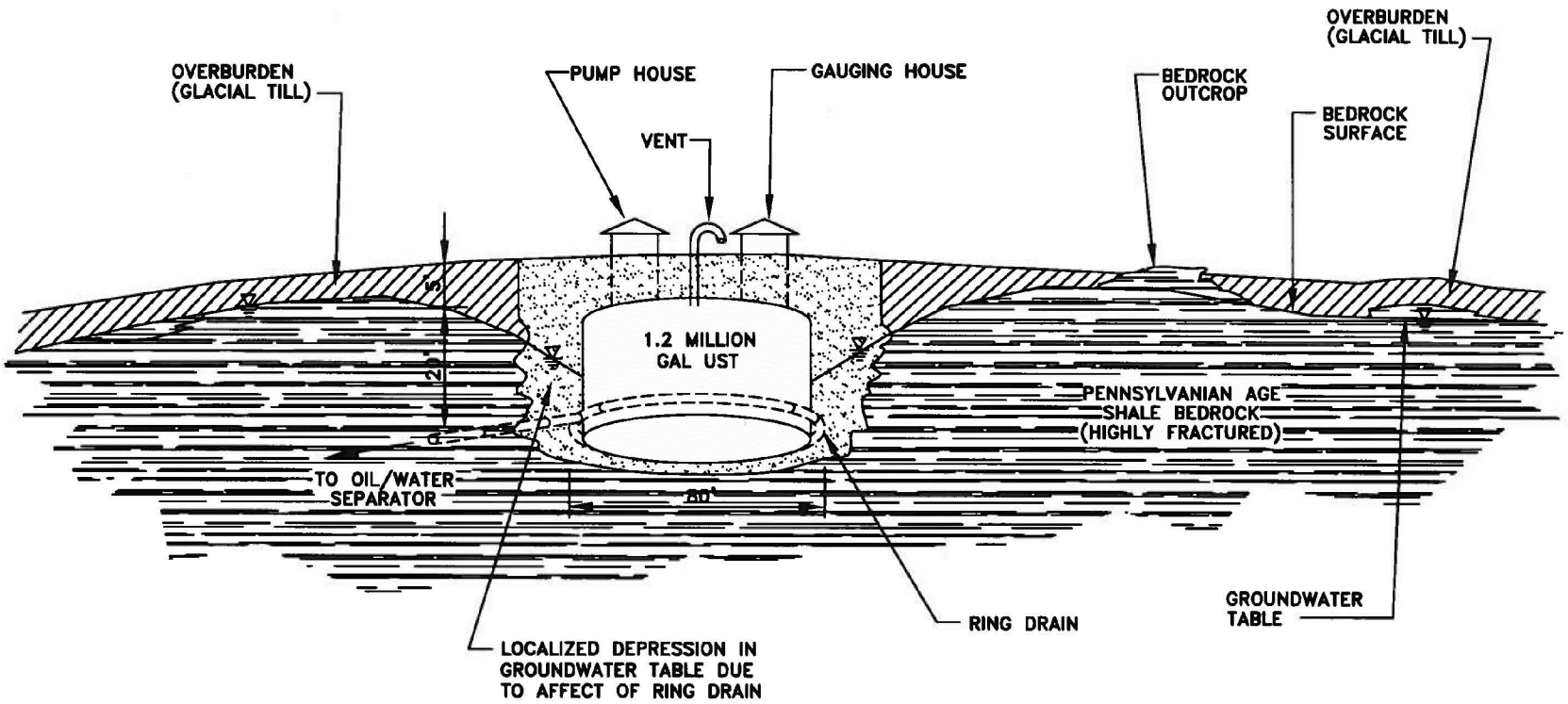
SITE PLAN

TANK FARM 3
STUDY AREA SCREENING EVALUATION

FILE	SCALE
\..\TF3_SITE_PLAN.DWG	AS NOTED
FIGURE NUMBER: FIGURE NO. 1-2	REV: 0 / DATE: 9/14/12

ACAD:E:\02710\SLDF\TF3_SITE_PLAN.DWG 9/14/12 DWM

ACAD: \02710\SI.DR\TF3_TANK_MODEL.DWG 08/27/12 MF



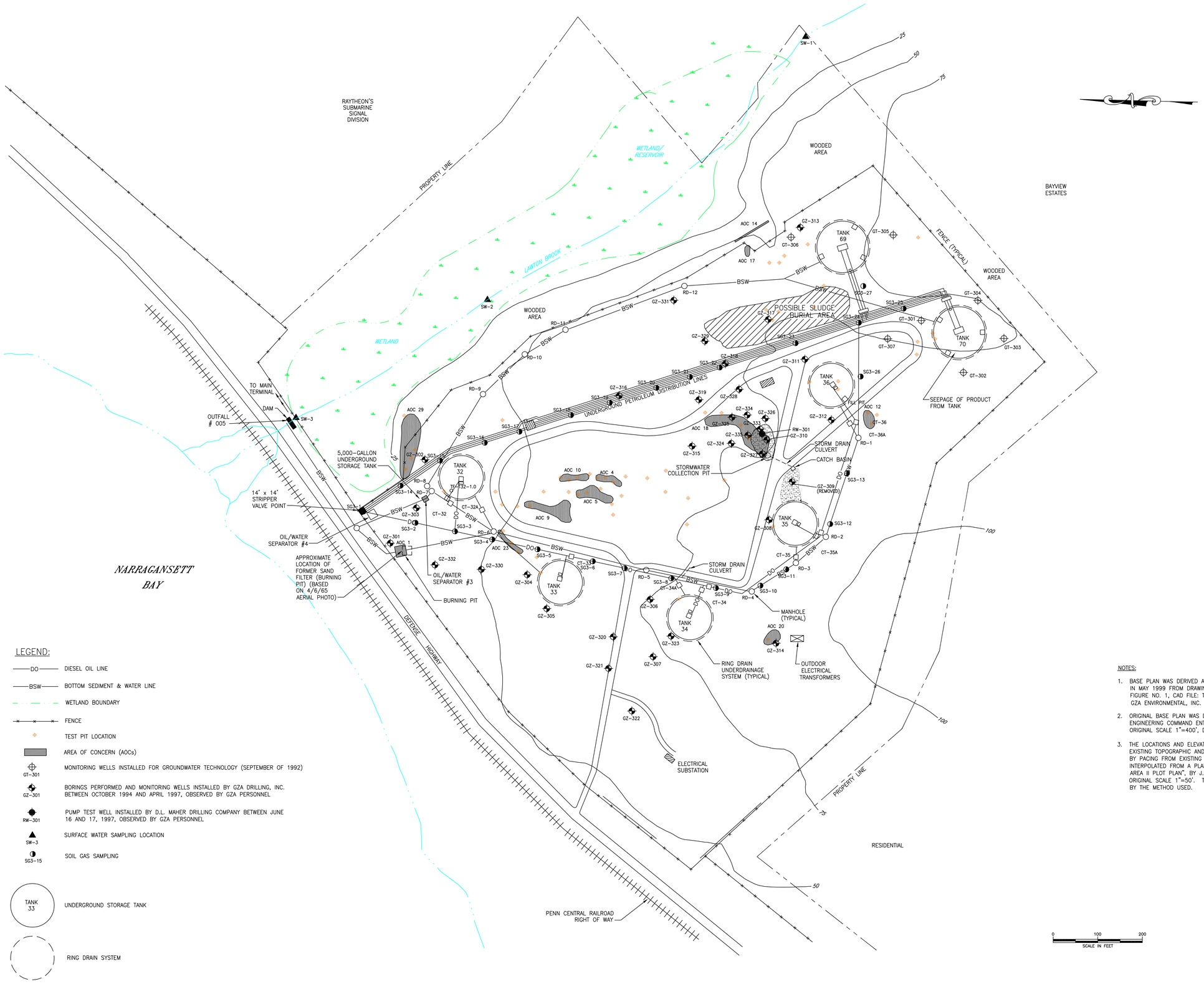
TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

GENERALIZED TANK CONSTRUCTION

TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_TANK_MODEL.DWG
REV	0
DATE	07/13/10
FIGURE NUMBER	FIGURE NO. 1-3



LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM

NOTES:

1. BASE PLAN WAS DERIVED AND DIGITIZED BY FOSTER WHEELER ENVIRONMENTAL CORPORATION IN MAY 1999 FROM DRAWING ENTITLED "DFSC/TANK FARM 3 – SITE PLAN", PROJECT NO. 31288.9, FIGURE NO. 1, CAD FILE: TANK-3.DWG, VIEW TANK3-LARGE, DATED JANUARY 1998, BY GZA ENVIRONMENTAL, INC.
2. ORIGINAL BASE PLAN WAS DEVELOPED FROM A PLAN PROVIDED BY NAVAL FACILITIES ENGINEERING COMMAND ENTITLED "NAVAL COMPLEX NEWPORT, R.I. MELVILLE (SOUTH)", ORIGINAL SCALE 1"=400', DRAWING NO. 94420B.
3. THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE APPROXIMATELY DETERMINED BY SURVEY FROM EXISTING TOPOGRAPHIC AND MAN-MADE FEATURES. THE LOCATIONS OF THE TANKS WERE DETERMINED BY PACING FROM EXISTING TOPOGRAPHIC FEATURES. THE LOCATIONS OF THE UTILITY LINES WERE INTERPOLATED FROM A PLAN ENTITLED "FUEL DISTRIBUTION SYSTEM STORAGE TANKS 32-36, 69 & 70 AREA II PLOT PLAN", BY J.M. McCUSKER CO., DATED JUNE 11, 1954, DRAWING NO. Y&D# 627332, ORIGINAL SCALE 1"=50'. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

SAMPLE LOCATION PLAN

TANK FARM 3
STUDY AREA SCREENING EVALUATION

FILE	SCALE
\..\TF3_SAMP_LOC_PLAN.DWG	AS NOTED

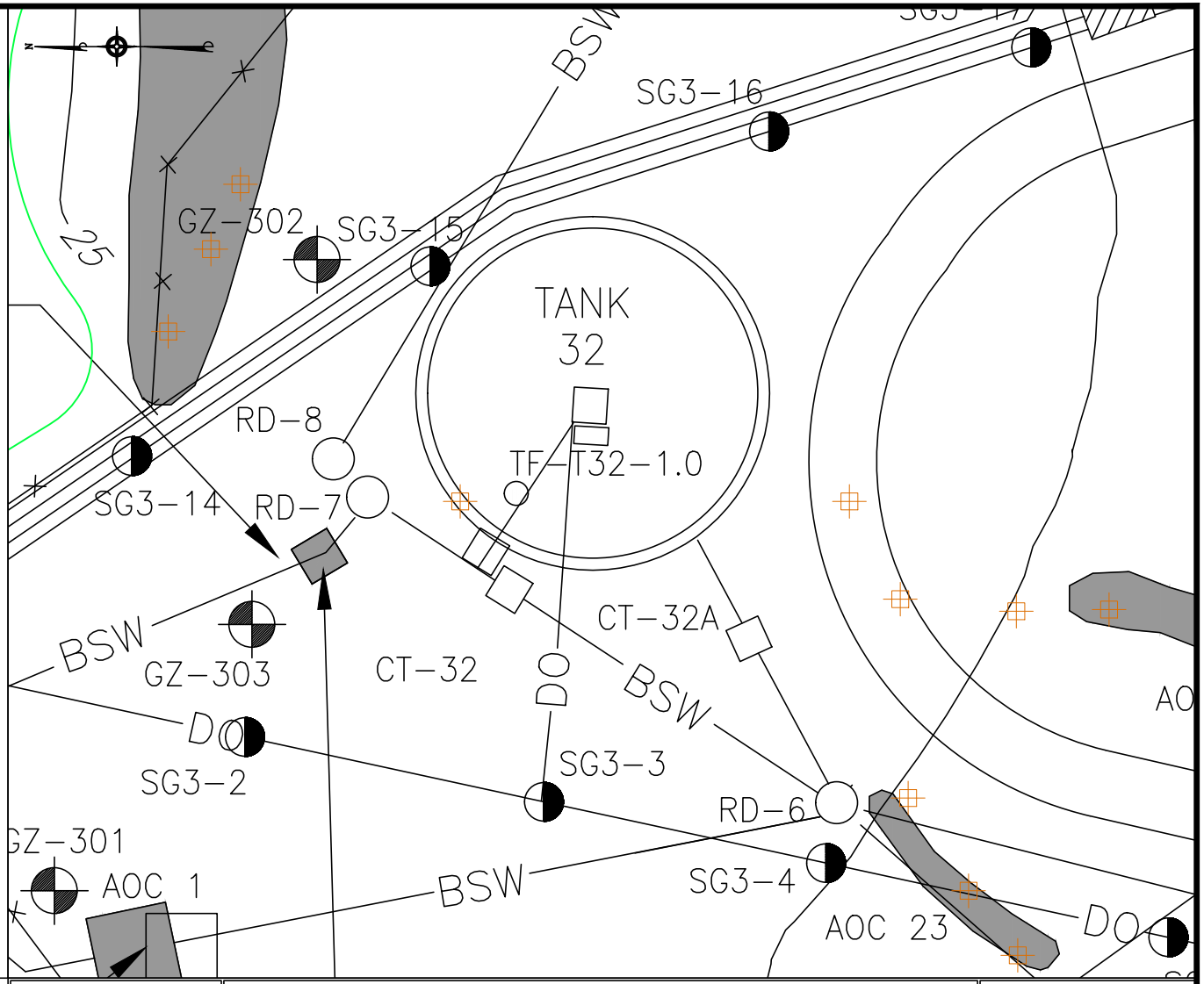
FIGURE NUMBER	REV	DATE
FIGURE NO. 2-1	0	08/27/12

ACAD: \02710\SI.DR\TF3_SAMP_LOC_PLAN_082712.DWG 08/27/12 MF/DWM

ACAD: R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T32.DWG 8/27/12 mf

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 32

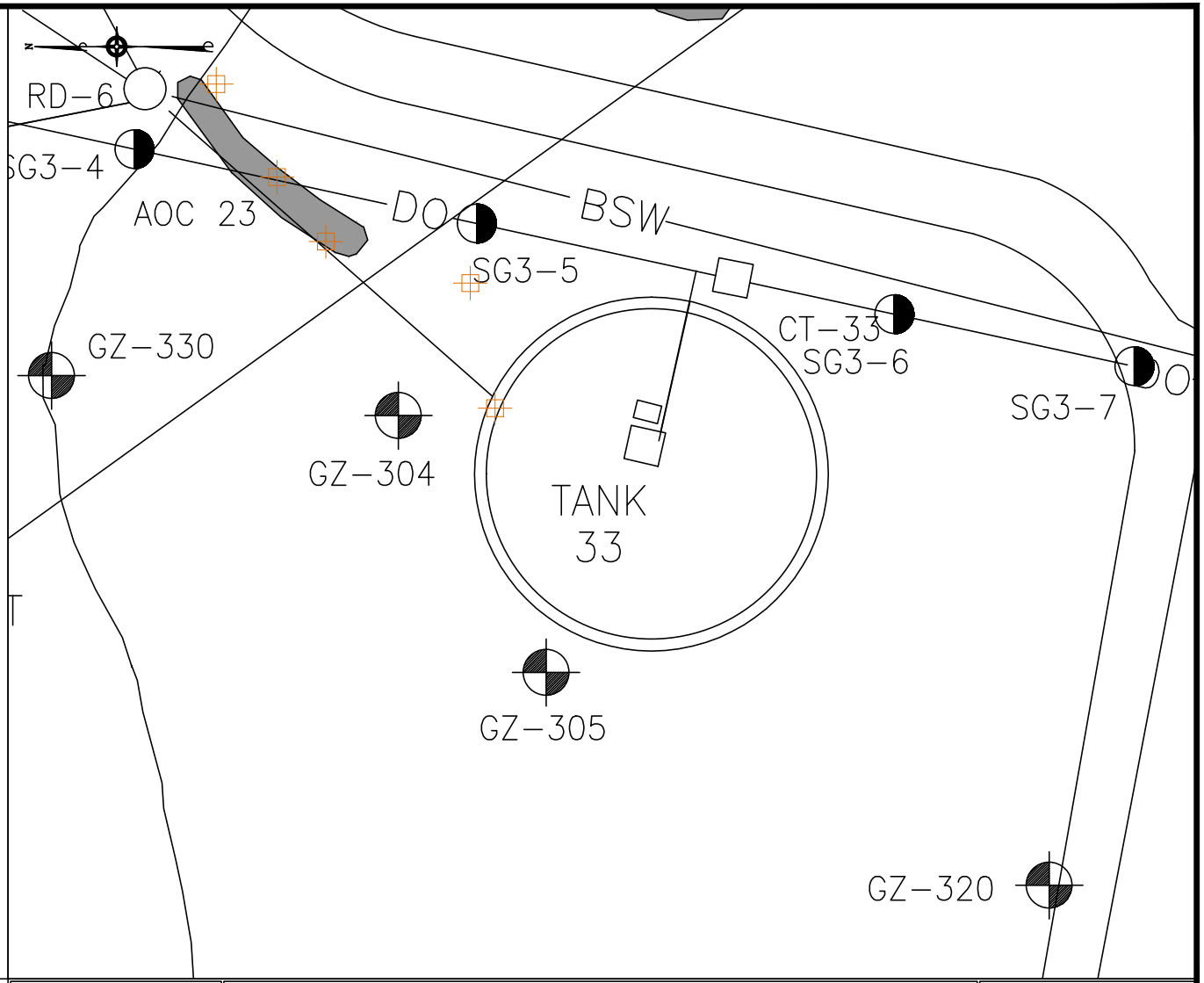
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T32.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-2

ACAD: R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T33.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

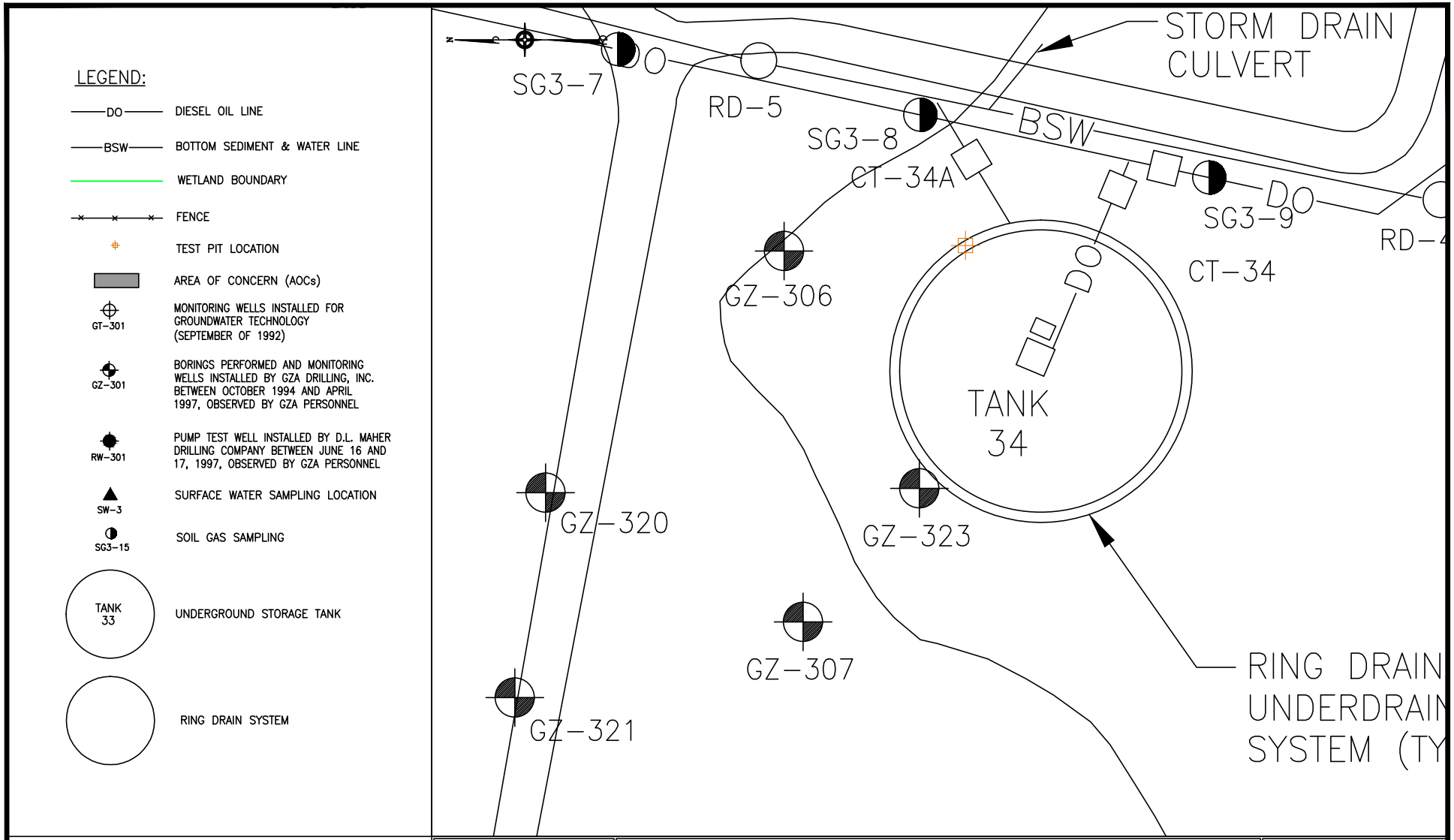
NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 33

TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T33.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-3

ACAD: R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T34.DWG 8/27/12 MF



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 34

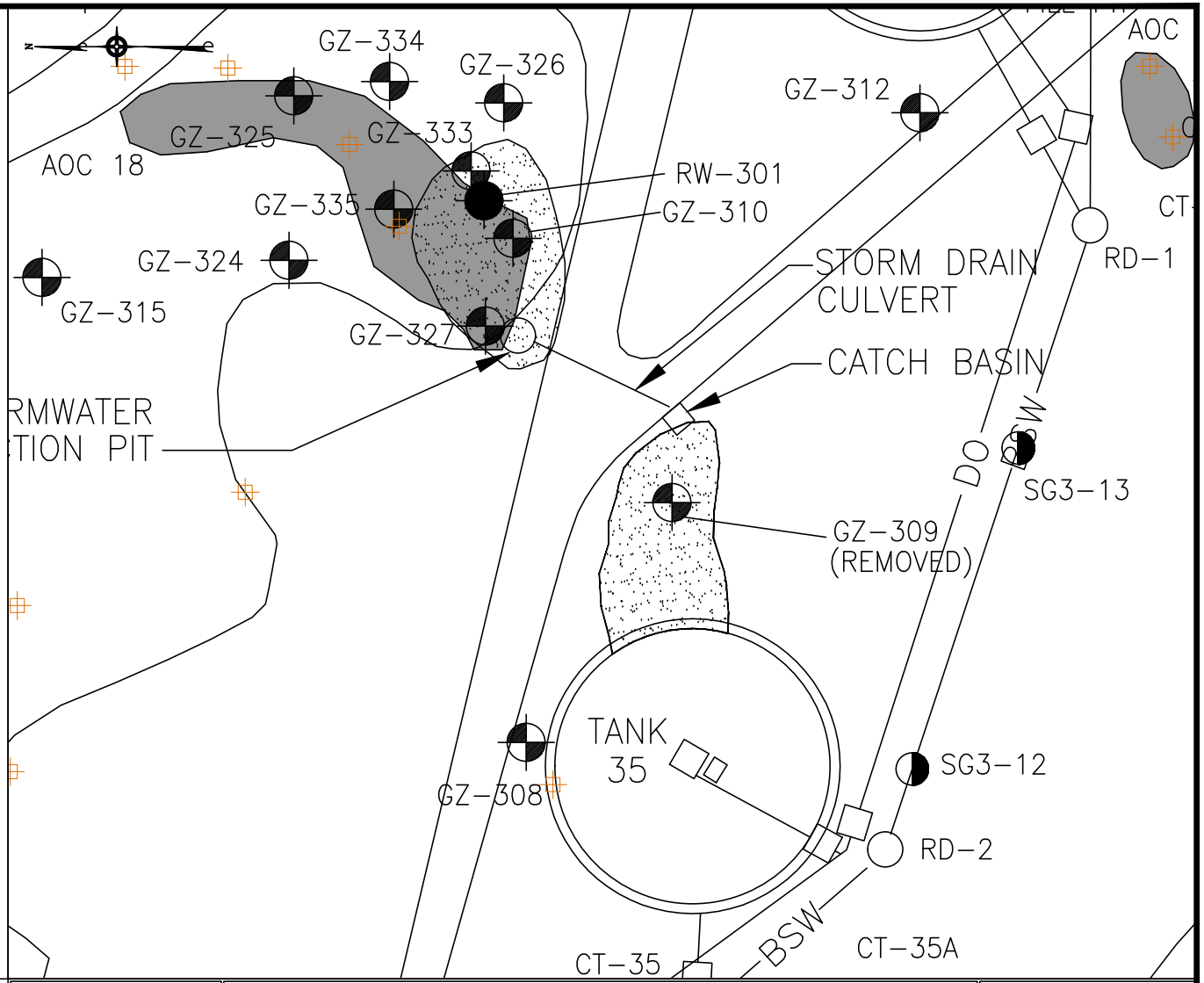
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T34.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-4

ACAD: R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T35.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 60′ 120′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 35

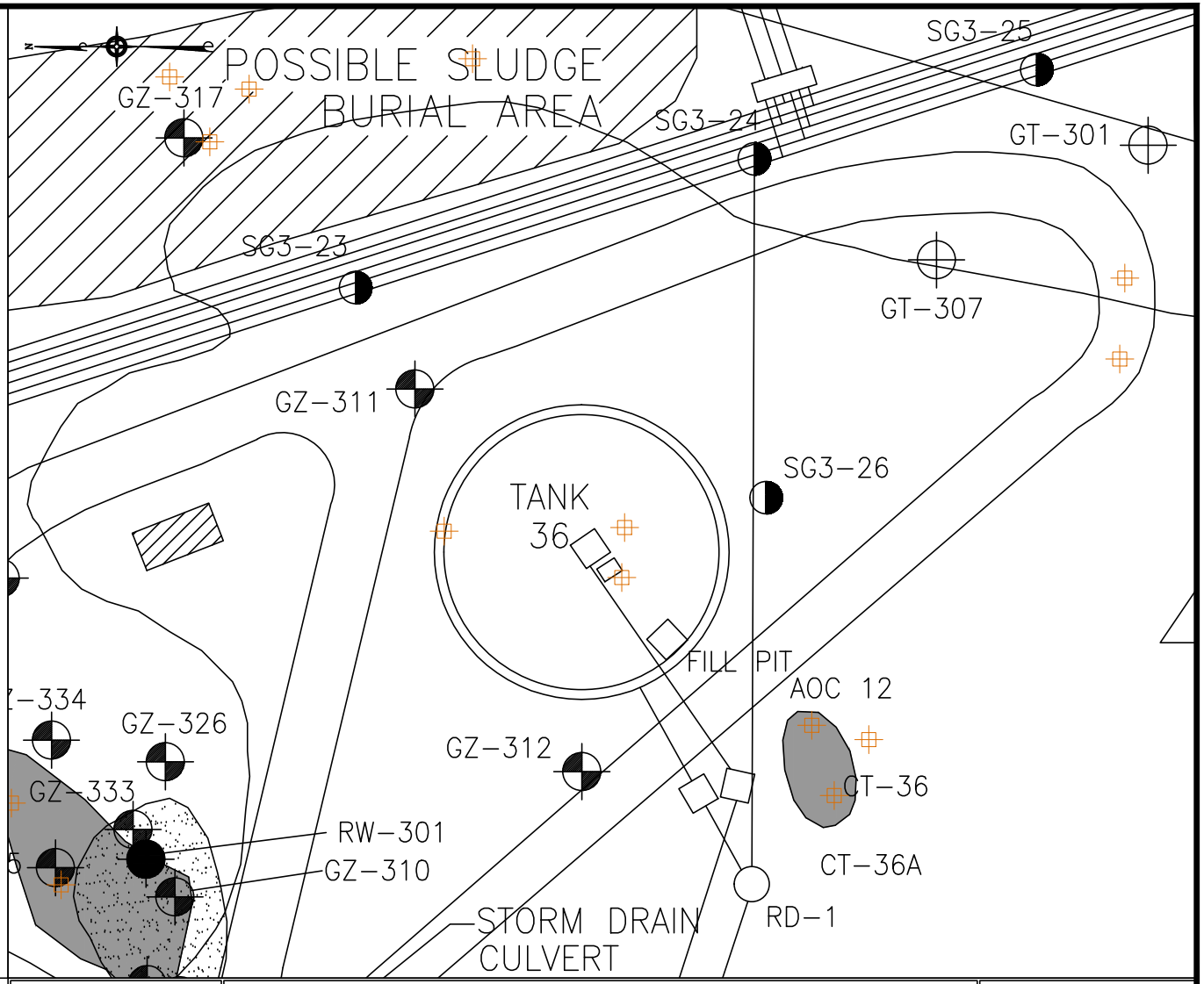
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T35.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-5

ACAD:R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T36.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE
0′ 60′ 120′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 36

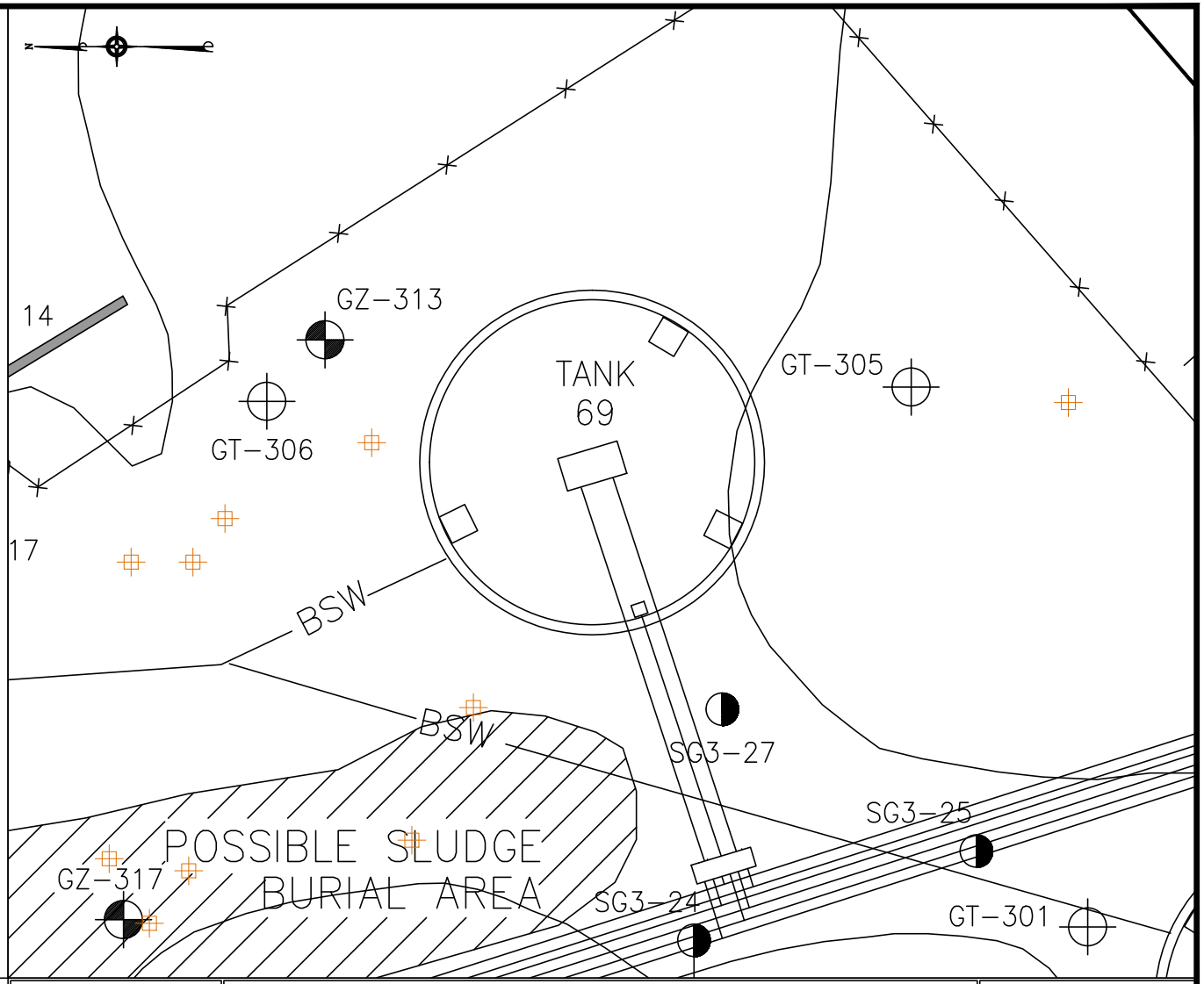
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T36.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-6

ACAD: R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T69.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 60′ 120′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 69

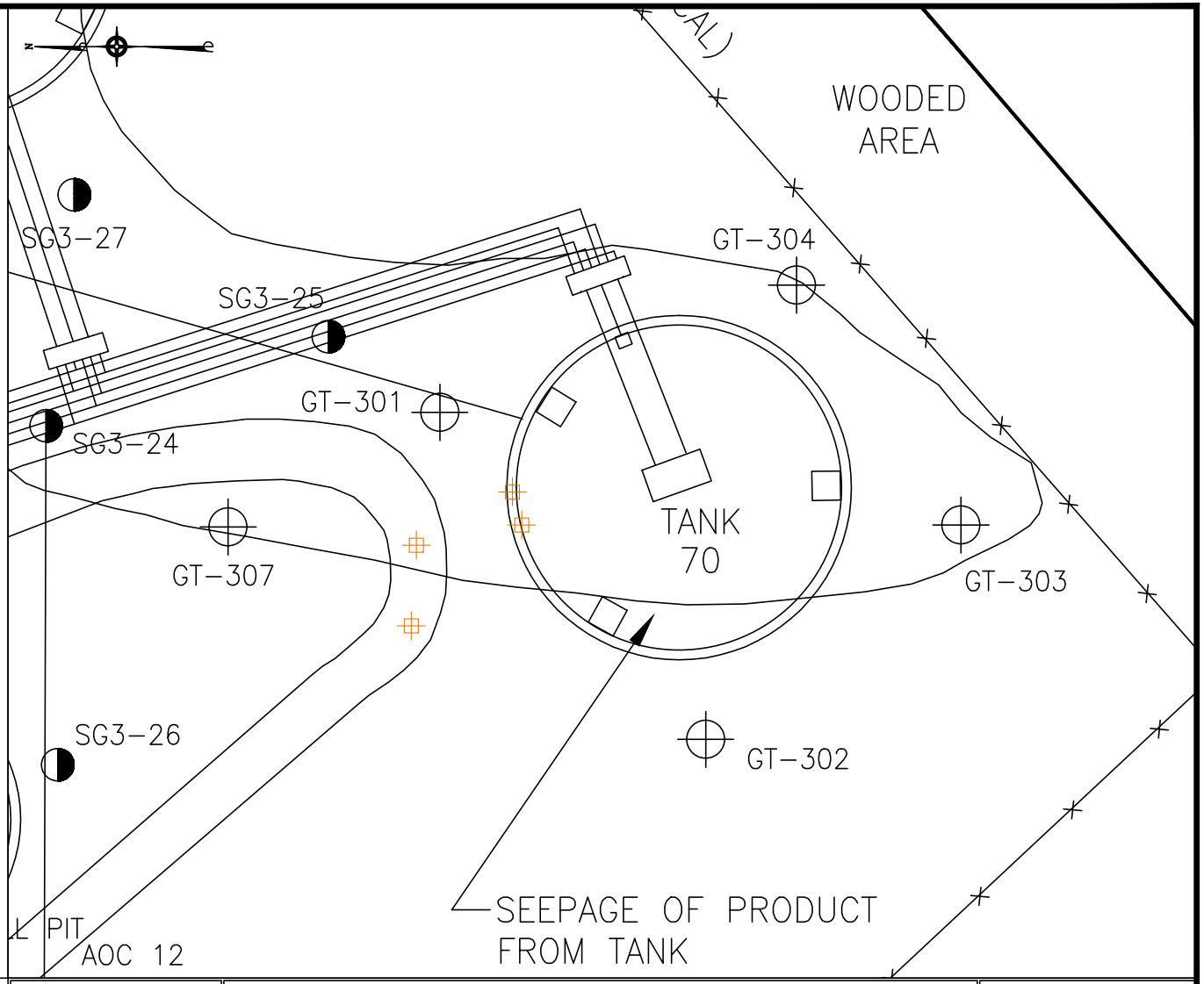
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T69.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-7

ACAD: R:\BOSTON\1813\DAVISVILLE\TF3 CAD\TF3_T70.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE
0′ 60′ 120′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

TANK 70

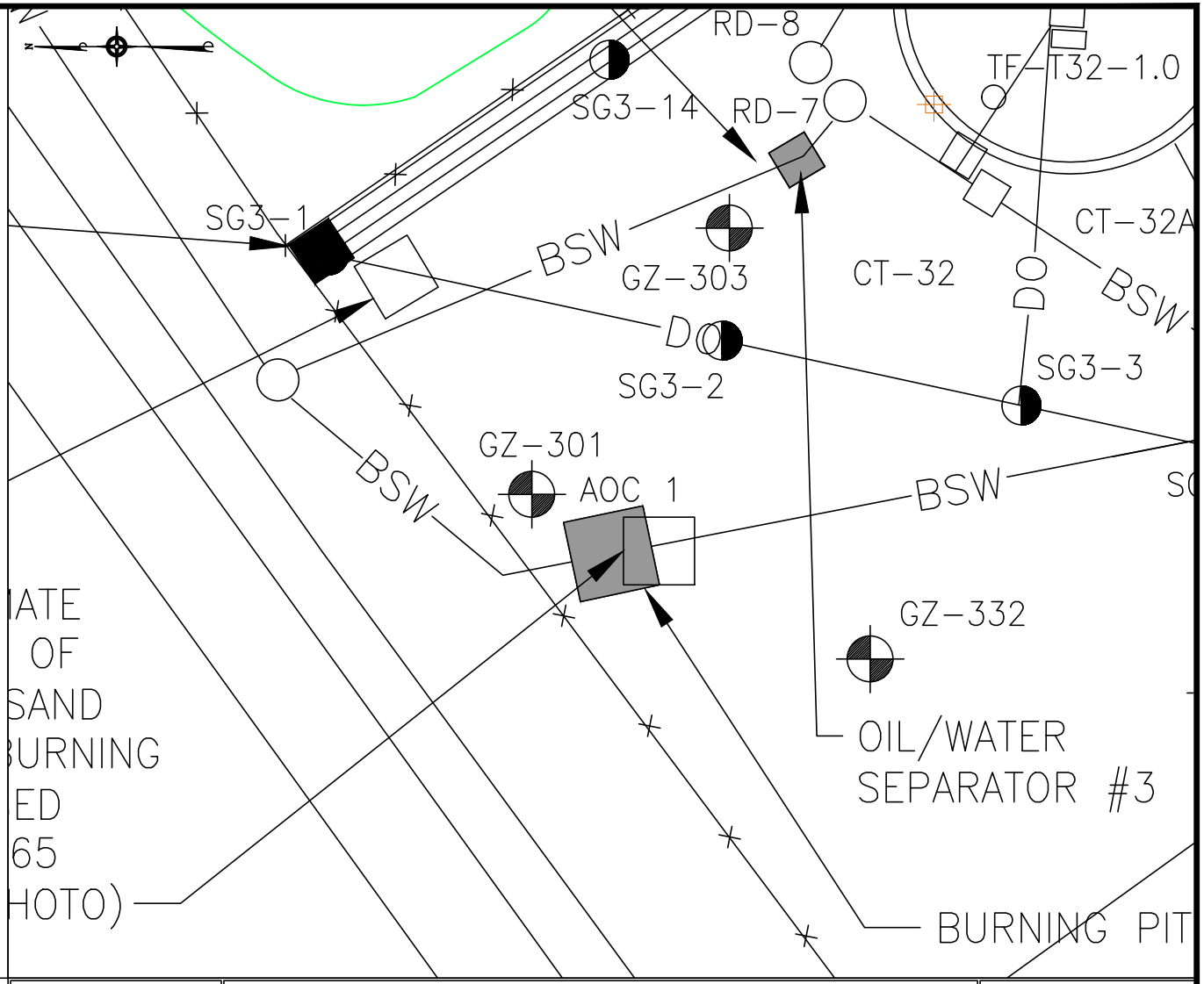
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_T70.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-8

ACAD:R:\BOSTON\1813\DAVISVILLE\CAD FILES\TF3_AOC1.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

AOC I

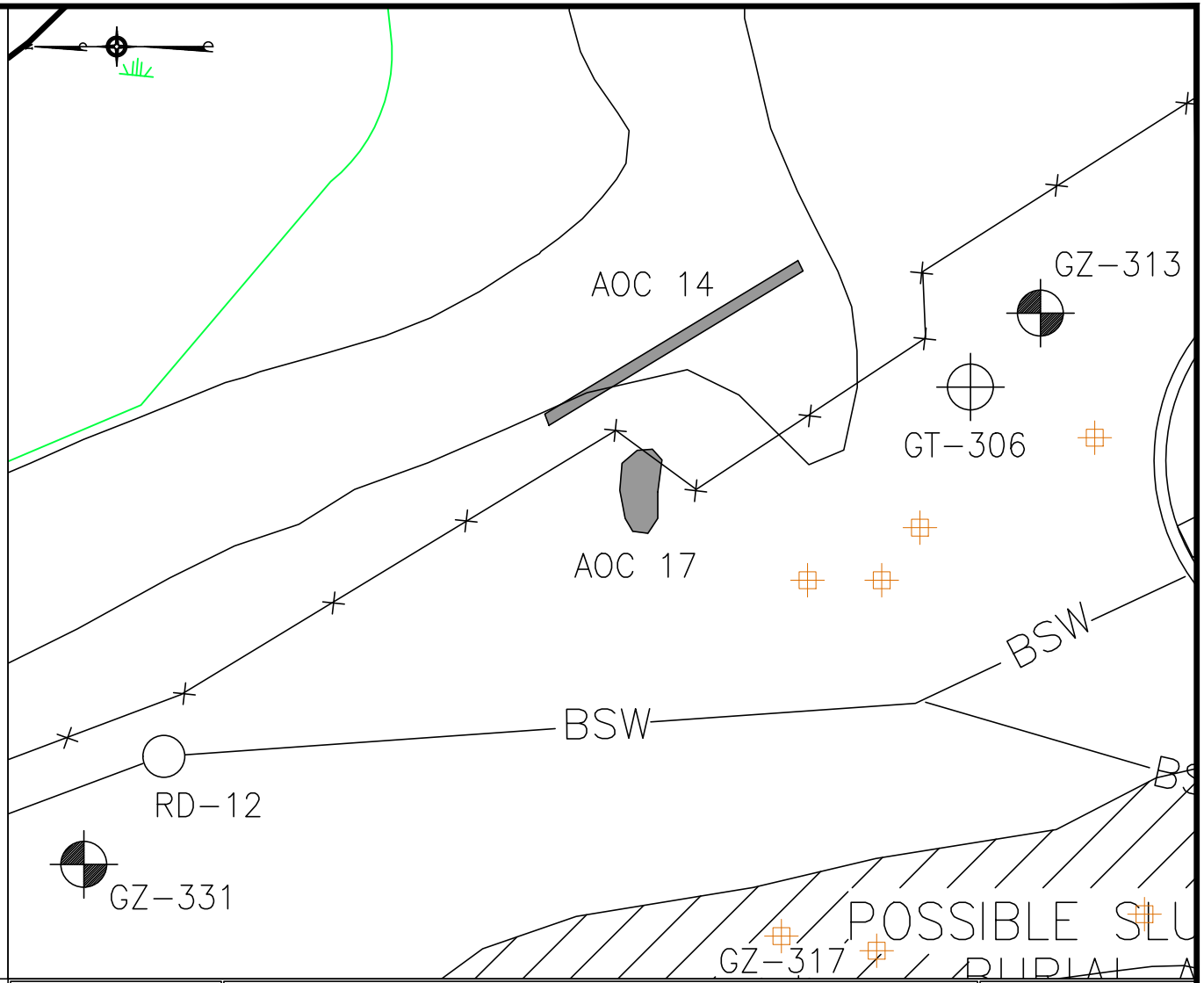
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_AOC1.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-9

ACAD:R:\BOSTON\1813\DAVISVILLE\CAD FILES\TF3_AOC14&17.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

AOC 14 AND 17

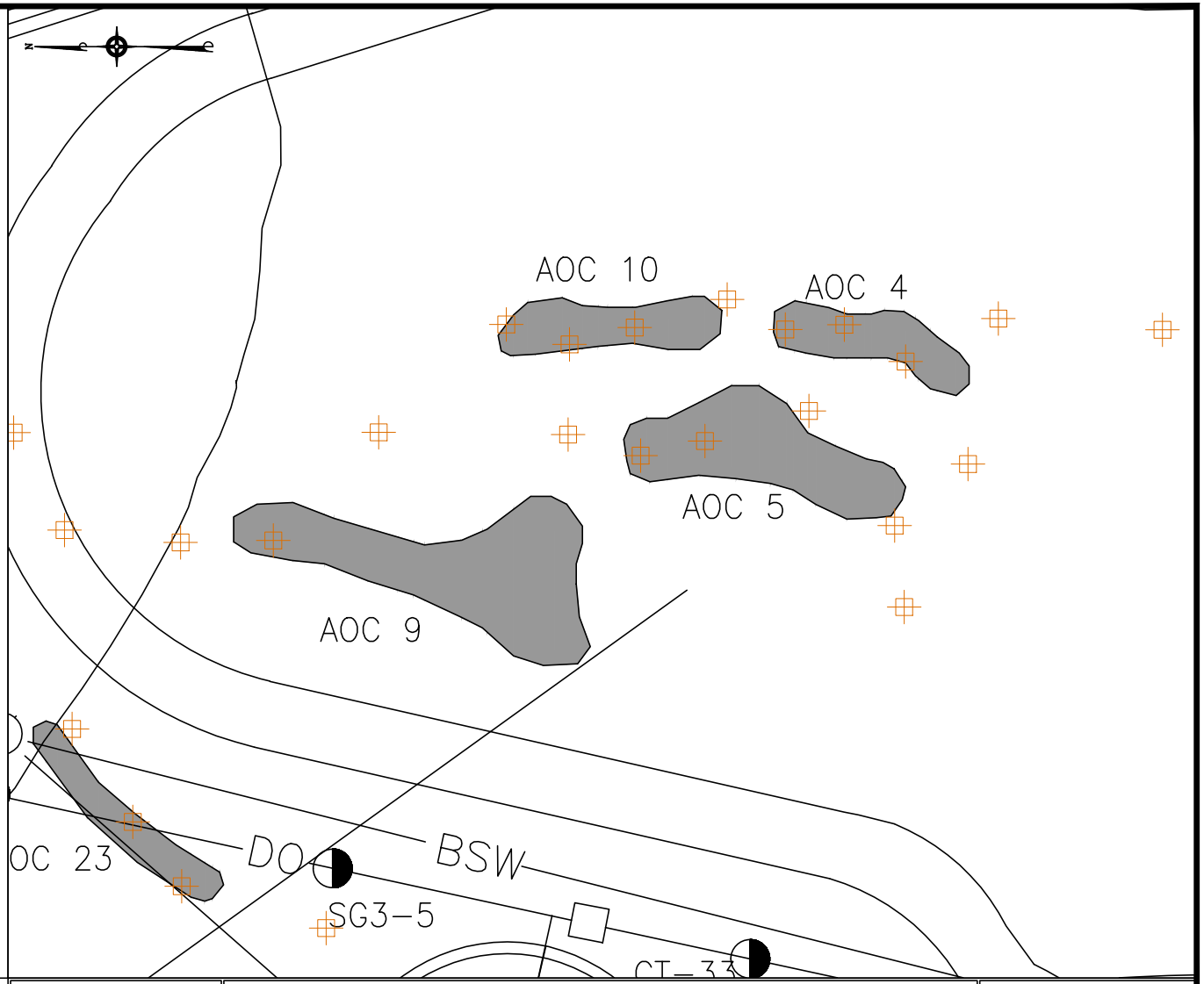
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_AOC14&17.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-10

ACAD: R:\BOSTON\1813\DAVISVILLE\CAD FILES\TF3_AOC4,5,9&10.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

AOCs 4, 5, 9, AND 10

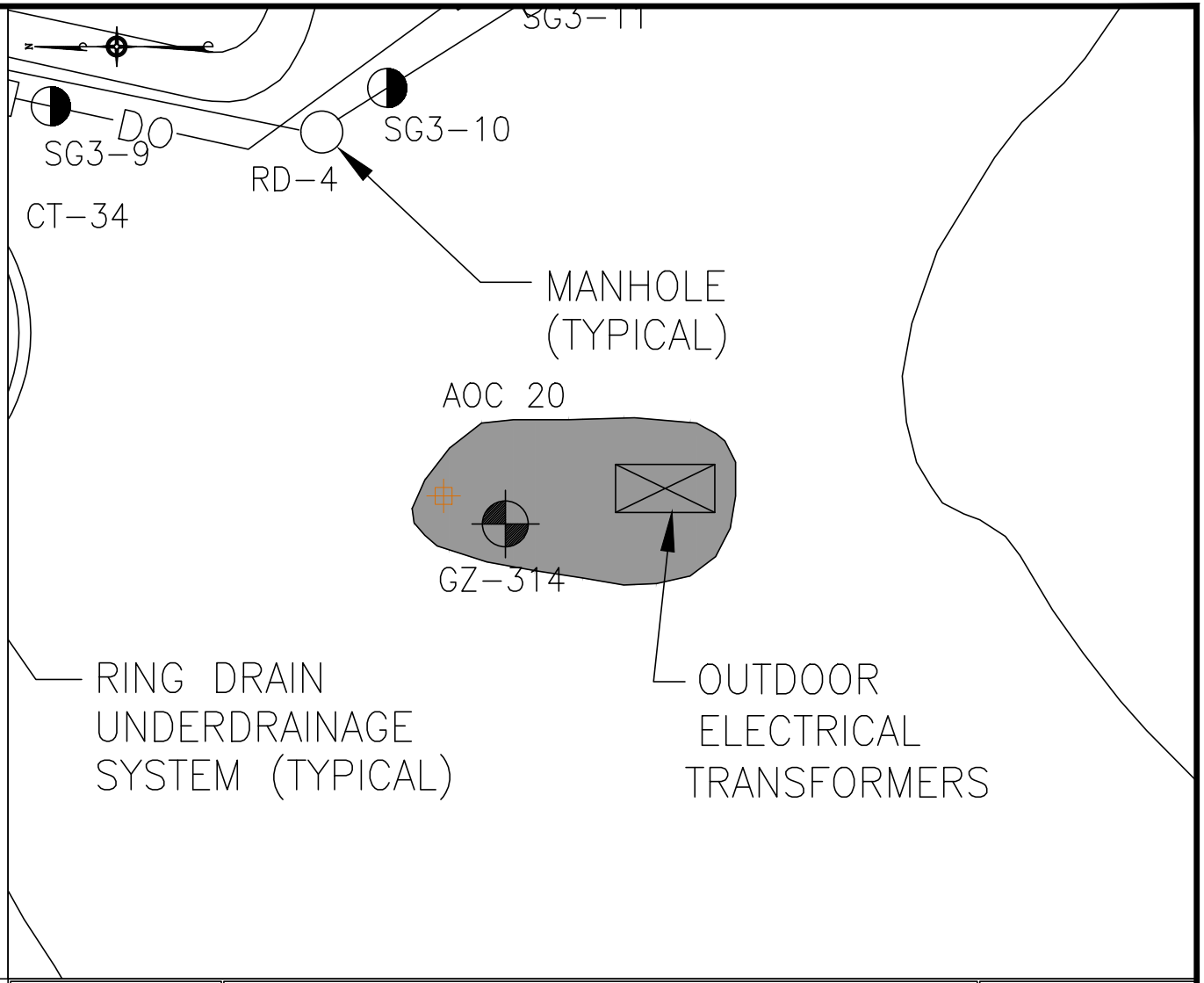
TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_AOC4,5,9&10.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-11

ACAD:R:\BOSTON\1813\DAVISVILLE\CAD FILES\TF3_AOC20.DWG 8/27/12 MF

LEGEND:

- DO — DIESEL OIL LINE
- BSW — BOTTOM SEDIMENT & WATER LINE
- WETLAND BOUNDARY
- FENCE
- TEST PIT LOCATION
- AREA OF CONCERN (AOCs)
- GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)
- GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 1994 AND APRIL 1997, OBSERVED BY GZA PERSONNEL
- RW-301 — PUMP TEST WELL INSTALLED BY D.L. MAHER DRILLING COMPANY BETWEEN JUNE 16 AND 17, 1997, OBSERVED BY GZA PERSONNEL
- SW-3 — SURFACE WATER SAMPLING LOCATION
- SG3-15 — SOIL GAS SAMPLING
- TANK 33 — UNDERGROUND STORAGE TANK
- RING DRAIN SYSTEM



GRAPHIC SCALE

0′ 50′ 100′

TETRA TECH

NAVAL STATION NEWPORT
PORTSMOUTH, RHODE ISLAND

AOC 20

TANK FARM 3
STUDY AREA SCREENING EVALUATION

SCALE	AS NOTED
FILE	\..\TF3_AOC20.DWG
REV	0
DATE	8/27/12
FIGURE NUMBER	FIGURE NO. 2-12

REFERENCES

REFERENCES

Driscoll, Fletcher G., 1986. “Groundwater and Wells, 2nd Edition”.

Envirodyne Engineers, Inc., 1983. Final Initial Assessment Study (IAS) of the Naval Education and Training Center, Newport, Rhode Island.

Foster Wheeler Environmental Corporation, 1999. “Results of Groundwater sampling for Fuel Loading Area and Tank Farms 1, 2, and 3” Defense Fuel Support Point – Melville, Portsmouth, Rhode Island.

Foster Wheeler Environmental Corporation, 2000. “Tank Farm 3 Soil Removal Activities in the Vicinity of Tank 35” Defense Fuel Support Point, Melville, Portsmouth, Rhode Island.

Foster Wheeler Environmental Corporation, 2001. “Closure Report for Underground Storage Tanks at Tank Farm 3” Defense Energy Support Center, Melville, Portsmouth, Rhode Island.

Foster Wheeler Environmental Corporation, 2002. “Work Plan for Site Closure, Tank Farm 3” Defense Fuel Support Point – Melville, Portsmouth, Rhode Island.

Groundwater Technology, Inc., 1992. “Progress Report on Initial Assessment Conducted in the Vicinity of Tank 70 Located in Tank Farm 3. Defense Fuel Support Point – Melville, Portsmouth, Rhode Island.

GZA GeoEnvironmental, Inc., 1995. “Environmental Site Investigation – Tank Farm 3” Defense Fuel Supply Center, Portsmouth, Rhode Island.

GZA GeoEnvironmental, Inc., 1996. “Supplemental Site Investigation – Tank Farm 3” Defense Fuel Supply Center, Melville, Portsmouth, Rhode Island.

GZA GeoEnvironmental, Inc., 1998a. “Supplemental Site Investigation and Corrective Action plan – Tank Farm 3” Defense Energy Support Center, Melville, Rhode Island.

GZA GeoEnvironmental, Inc., 1998b. “Tank Closure Assessment Report – Tank Farm 3” Defense Energy Support Center, Melville, Portsmouth, Rhode Island.

GZA GeoEnvironmental, Inc., 1998c. “Underground Fuel Line Closure and Soil Gas Survey” Defense Energy Support Center, Melville, Portsmouth, Rhode Island.

Hermes, O.D., L. P. Gromet, and D.P. Murray. 1994. Bedrock Geologic Map of Rhode Island. Rhode Island Map Series No.1. Published by Office of Rhode Island State Geologist.

RIDEM, 2004. Rules and Regulations for the Investigation and Remediation of Hazardous Material Release. DEM-DSR-01-93.

Schiner, G.R. and Gonthier, J.B., 1965. Ground-water map of Prudence Island and Newport quadrangle, Rhode Island. R.I. Water Resources Coordinating Board. Ground Water. Map GWM 20.

TtEC, 2005. "Draft Site Investigation and Remedial Action Report for Tank Farm 3, Defense Fuel Support Point – Melville, Portsmouth, Rhode Island"

TtEC, 2009. Groundwater Monitoring Report for Tank Farm 3. Defense Fuel Support Point – Melville, Portsmouth, Rhode Island.

Tetra Tech, 2001. Remedial Investigation for Old Fire Fighting Training Area, Naval Station Newport, Newport, Rhode Island. Tetra Tech NUS, Inc., King of Prussia, Pennsylvania.

United States Department of Agriculture (USDA). 1981. Soil Survey of Rhode Island.

United States Environmental Protection Agency (USEPA). May 2010.
http://www.epa.gov/region09/superfund/prg/index.html

United States Environmental Protection Agency (USEPA). January 2010.
http://water.epa.gov/drink/contaminants/index.cfm#List

APPENDIX A

FIELD SKETCHES AND PHOTOGRAPHS FROM SIRAR

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-001

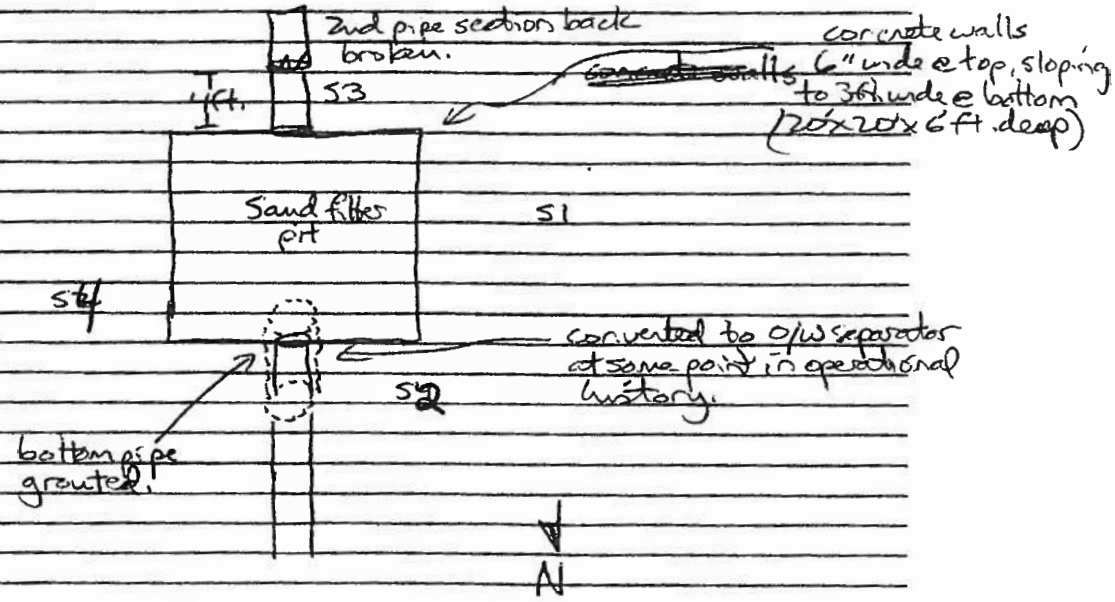
SIZE (approx.)
Length 20ft. **Width** 20ft.
Area 400 ft²

DESCRIPTION OF AREA AND OPERATIONAL USE

Sand filter pit. All BS+W drainage ~~from~~ from Tanks 32, 33, 34, 35 and 36 was processed here. Water/oil flowed in ~~a~~ the top, filtered through the sand and water flowed out the bottom. Sand was burned periodically when clogged w/oil.

FIELD OBSERVATION

Paved area (1980). Approx. 7 ft. fill placed over top of pit walls. Sludge inside pit oil contaminated. Removed + stockpiled asphault, removed fill + stockpiled, excavated + stockpiled pit sludge. The walls of the pit were pressure washed and residual water/oil removed by vac truck. Sludge pile was sun-dried and covered w/ plastic. Fill stockpile sampled for VOC (SVOC + TPH) w/ no contaminants found. Pit backfilled w/ fill material.



SAMPLING SUMMARY

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

	Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
Sludge stockpile											Waste characterization sample.
" "											" " "
Fill Stockpile											
" "											
" "											
" "											
" "											
	001-	S1-	2.0		6532						sampled @ seam in concrete
	001-	S1-	2.0A		13.0						sampled 2' west of seam in concrete
	001-	S2-	BP		26.0						sampled below 2 pipes
	001-	S3-	2.5		4133						sampled below intake pipe - visibly contam.
	001-	S4-	2.0		ND						
	001-	S4-	bottom		45.0						sampled @ 7ft BGS (below pad)

Depth to Groundwater NA

Depth to Bedrock 6ft - concrete pit placed on bedrock.

Predominant Soil Type fill

Odors Present ☑ Yes ☐ No

Stained Soil Present ☑ Yes ☐ No

Stressed Vegetation Present ☐ Yes ☐ No NA-paved area

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 90 CY

TETRA TECH

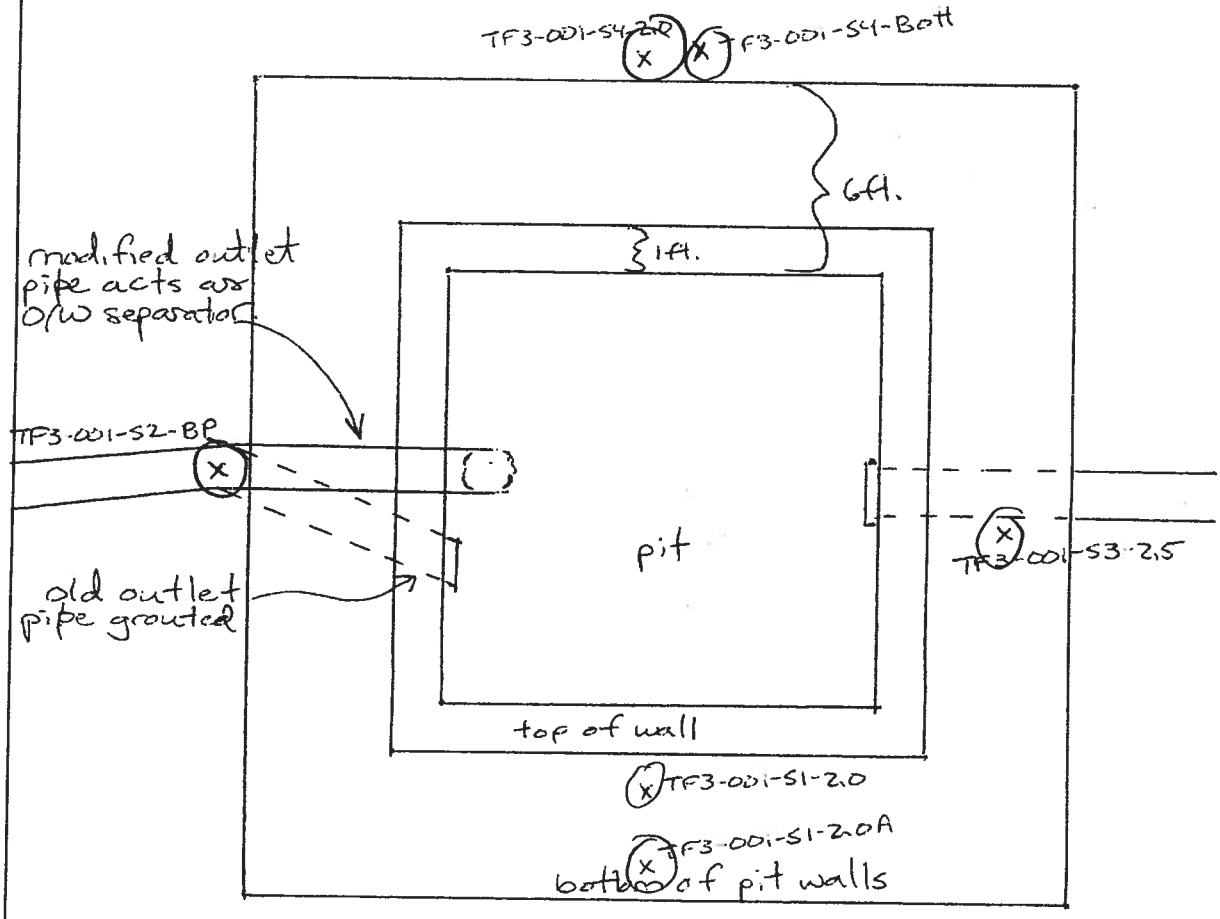
SUBJECT

ORIGINATOR CHECKED

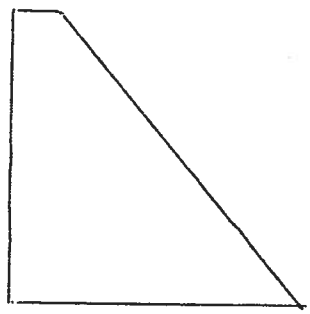
PROJECT Tank Farm 3

TC/P NO.

DATE PAGE OF



pit wall side view: (to scale)



DESC Tank Farm 3
Melville, RI

Test Pit Investigation/Soil Remediation

PHOTOGRAPHIC RECORD

Date: 06-01-04

AOC No.: TF3-001

Photo No.: 001

Direction of View:

Description:
Initial excavation

AOC No.: TF3-001

Photo No.: 002

Direction of View:
Northeast

Description:
Initial excavation

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

Date: 06-01-04

AOC No.: TF3-001

Photo No.: 003

Direction of View: West

Description: Initial excavation.

AOC No.: TF3- 001

Photo No.: 004

Direction of View: West

Description: Initial excavation

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

Date: 06-01-04

AOC No.: TF3-001

Photo No.: 005

Direction of View: Southwest

Description: Initial excavation. Top of sand filter pit coming into view.

AOC No.: TF3-001

Photo No.: 006

Direction of View: North

Description: Overburden stockpile.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

Date: 06-01-04

AOC No.: TF3-001

Photo No.: 007

Direction of View: East

Description: Segregated materials- asphalt and sludge from sand filter pit (under plastic).

AOC No.: TF3-001

Photo No.: 008

Direction of View: East

Description: Removing embankment to improve access to AOC-001 work area.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

Date: 06-01-04

AOC No.: TF3-001

Photo No.: 009

Direction of View: Northeast

Description: Pressure washing sand filter pit, removing sludge and water with Vactor truck.

AOC No.: TF3-001

Photo No.: 010

Direction of View: Northeast

Description: Pressure washing outfall pipe(installed to convert sand filter to oil/water separator.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-001

Photo No.: 011

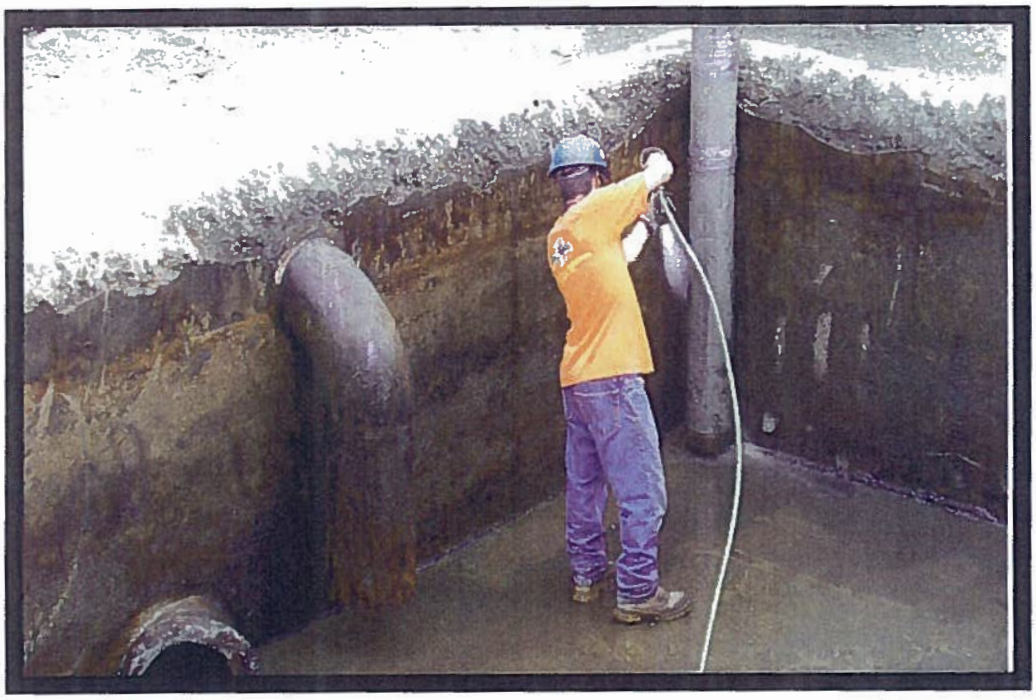
Direction of View: East

Description: Pressure washing sand filter pit.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD



AOC No.: TF3-001

Photo No.: 012

Direction of View: Northeast

Description: Pressure washing sand filter pit.

AOC No.: TF3-011

Photo No.: 013

Direction of View: Northeast

Description: Original sand filter pit outfall and modified filter pit outfall.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-001

Photo No.: 014

Direction of View: East

Description: Power washing.

AOC No.: TF3-001

Photo No.: 015

Direction of View: Northwest

Description: Cleaned sand filter pit.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

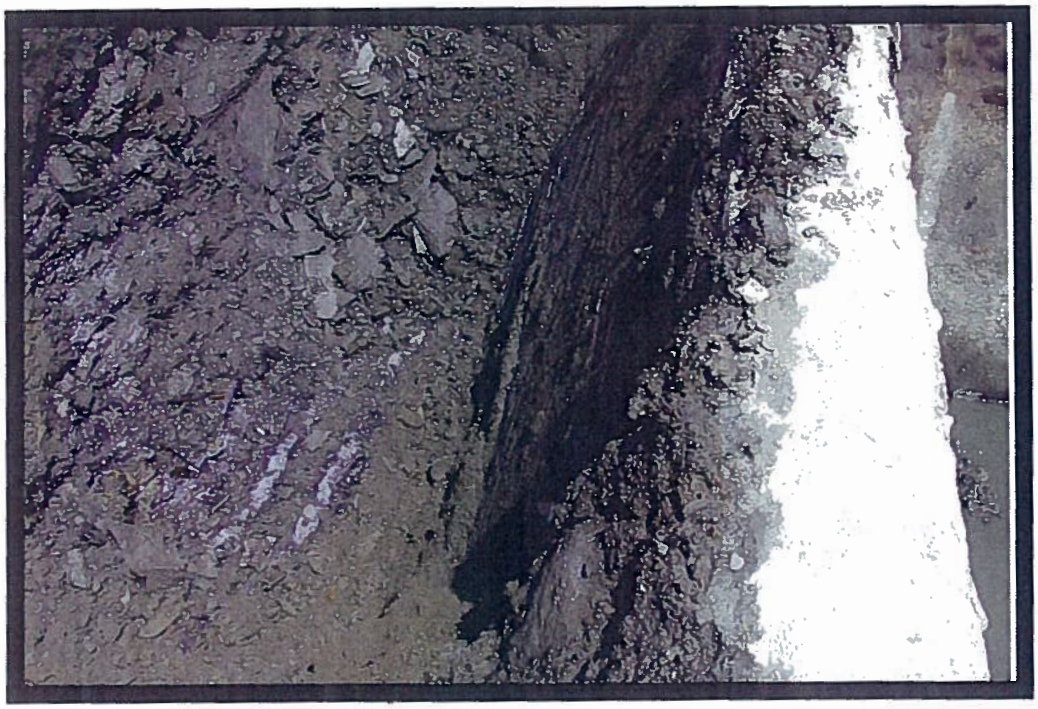
PHOTOGRAPHIC RECORD

AOC No.: TF3-001

Photo No.: 016

Direction of View:
Northwest

Description:
Concrete rubble from sand filter pit fill.



AOC No.: TF3-001

Photo No.: 017

Direction of View:
NA

Description:
Sample location S1.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-001

Photo No.: 018

Direction of View:
NA

Description:
Sample location S1.

AOC No.: TF3001

Photo No.: 019

Direction of View:
NA

Description:
Sample location S1.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-001

Photo No.: 020

Direction of View: Southwest

Description: Sample locations S2(on right) and S4(near intake pipe on left).

AOC No.: TF3-001

Photo No.: 021

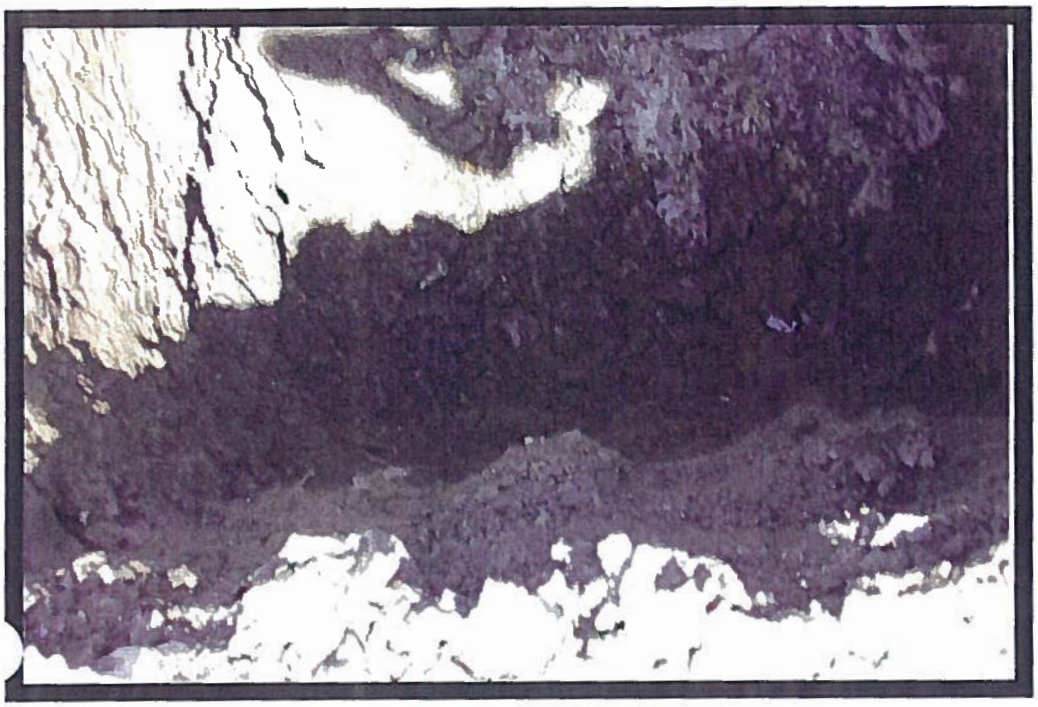
Direction of View: West

Description: S3 sample location beneath lower pipe Upper pipe joins lower pipe at left. Sloping pit wall placed on bedrock.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD



AOC No.: TF3-001

Photo No.: 022

Direction of View:
South

Description:
S4 sample location.

SAMPLING SUMMARY AOC-004

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
T.P. 1	NS	1.0	87	—						brown silty sand
	SS	1.0	207	43						tan/blk. silty clay (till)
	ES	1.0	50	—						brown/blk. silty sand
	WS	1.0	83	—						black silty clay (till)
	BS	2.0	156	32						brown/blk. silty sand
T.P. 2	NS	1.0	1246	630						black silty clay (till)
	SS	1.0	366	92						brown silty sand
	ES	1.0	1246	10						" "
	WS	1.0	366	25						black silty clay (till)
	BS	2.0	113	14						blk. silty clay
T.P. 3	NS	1.0	EEEE	2621						brown silty sand
	SS	1.0	EEEE	6293						" "
	ES	1.0	EEEE	41						brown/blk. silty sand
	WS	1.0	EEEE	2442						brown silty sand
	BS	2.0	EEEE	5421						blk. silty clay

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SM / CL

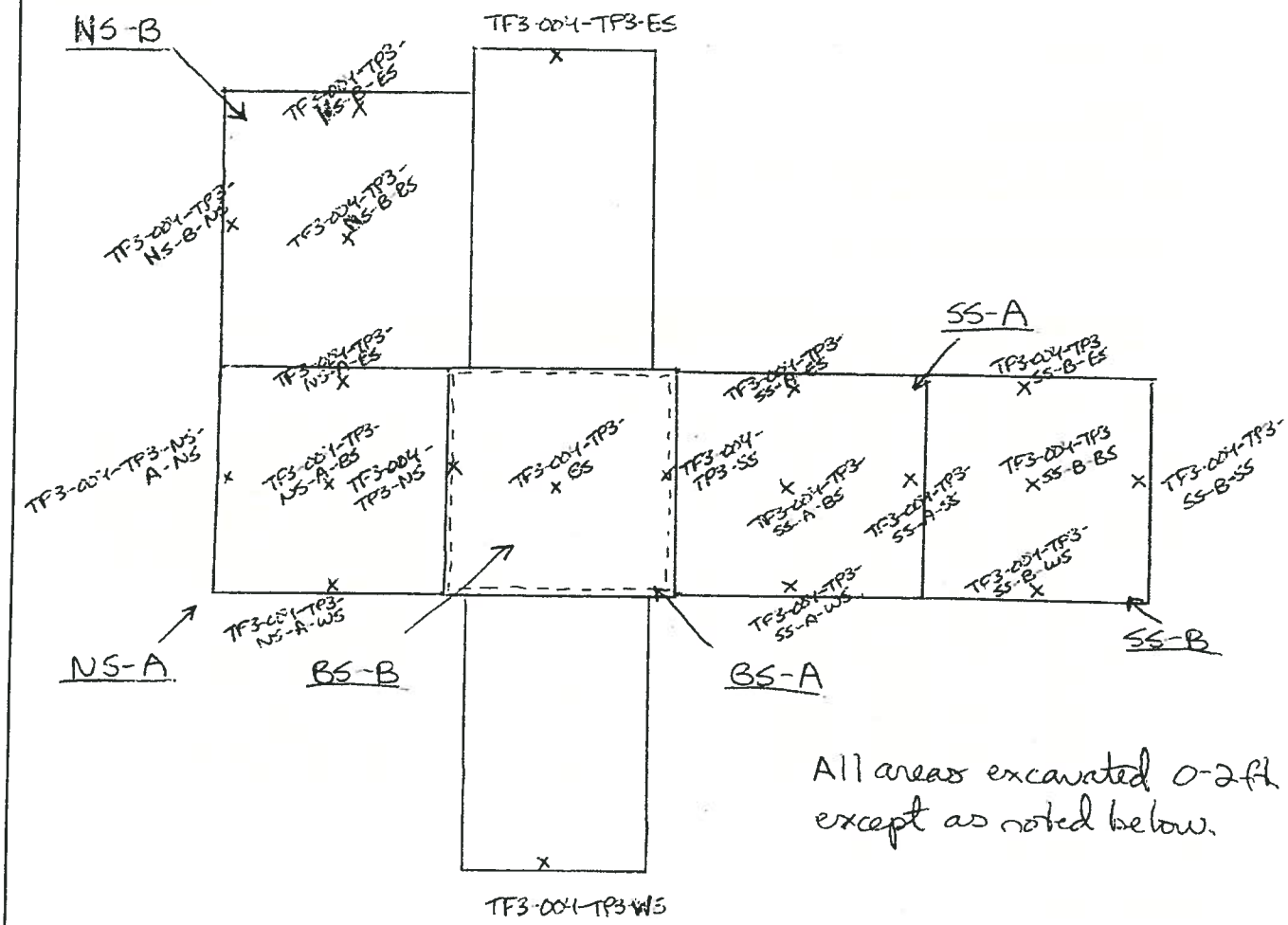
Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

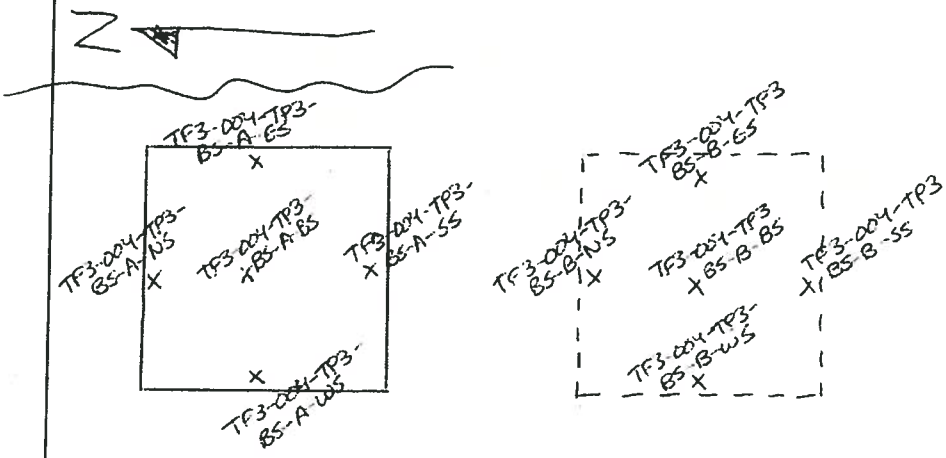
Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 4 CY as of 12-20

TETRA TECH	SUBJECT Tank Farm 3 - AOC-004 Test Pit 3 Remediation ORIGINATOR _____ CHECKED _____	PROJECT _____ TC/P NO. _____ DATE _____ PAGE ____ OF ____



All areas excavated 0-2 ft. BGS except as noted below.



BS-A
2-3 ft. BGS

BS-B
3-6 ft. BGS

scale: 1 ft./block

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-004

Photo No.: 001

Direction of View: East

Description: Test Pit 1.

AOC No.: TF3-004

Photo No.: 002

Direction of View: East

Description: Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-004

Photo No.: 003

Direction of View:
East

Description:
Test Pit 3.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-005

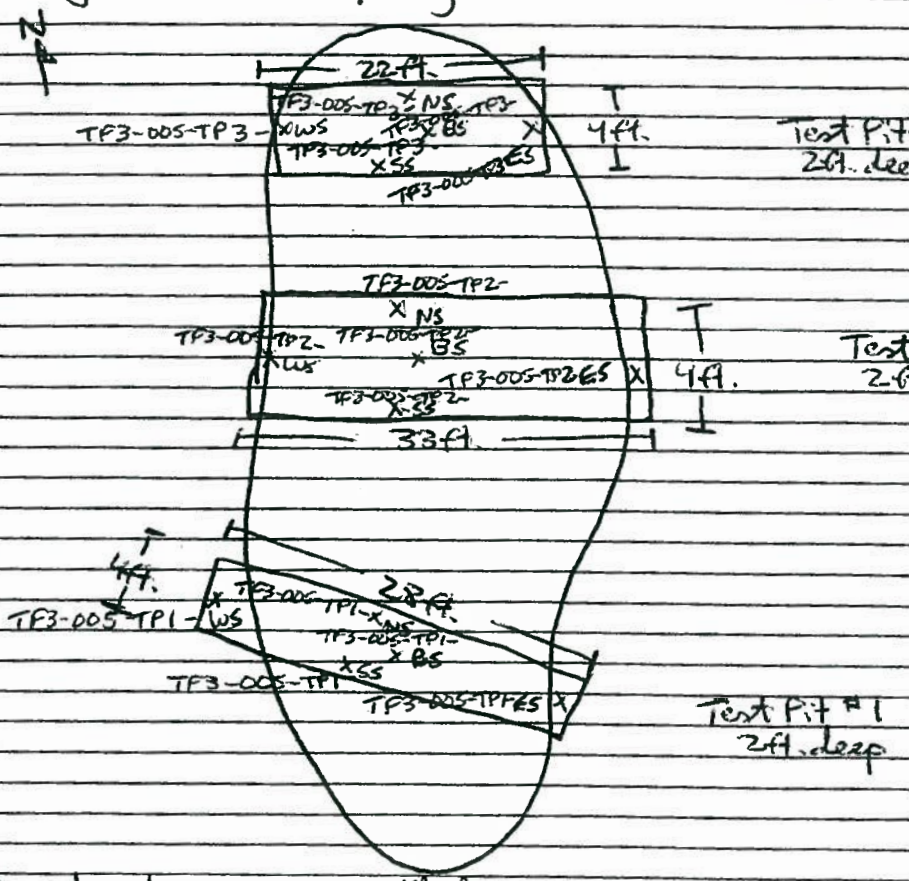
SIZE (approx.)
Length 80ft. **Width** 15-30ft.
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Area of ground staining.

FIELD OBSERVATION

Low grass, shrubs & young trees in area. No distressed vegitation.



Magnetometer survey yielded no responses.

SAMPLING SUMMARY AOC-005

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
005-TP1-	NS	1.0	547	100						brown sandy silt
	SS		460	77						
	ES		547	16						
	WS		460	40						
	BS	2.0	234	1000	✓		✓			grey sandy silt
005-TP2-	NS	1.0	1041	900						brown silty sand
	SS		2248	77/120						
	ES		1041	16						
	WS		2248	1100	✓					
	BS	2.0	433	54						black silty clay (till)
005-TP3-	NS	1.0	740	160						brown sandy silt
	SS		1574	110						
	ES		740	340						
	WS		1574	870						
	BS	2.0	1869	78						grey sandy silt

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SM/ML sandy silt & silty sand

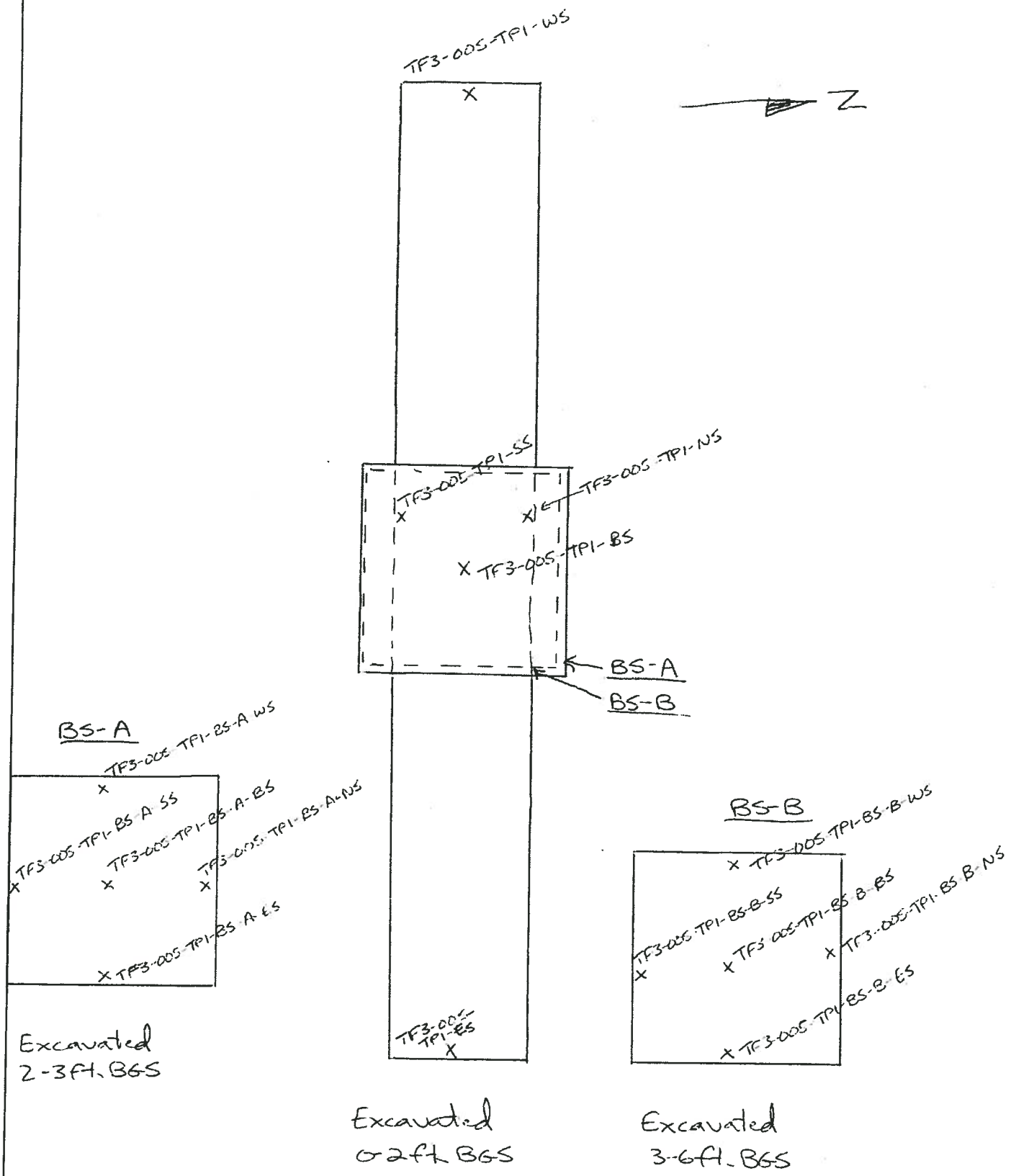
Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

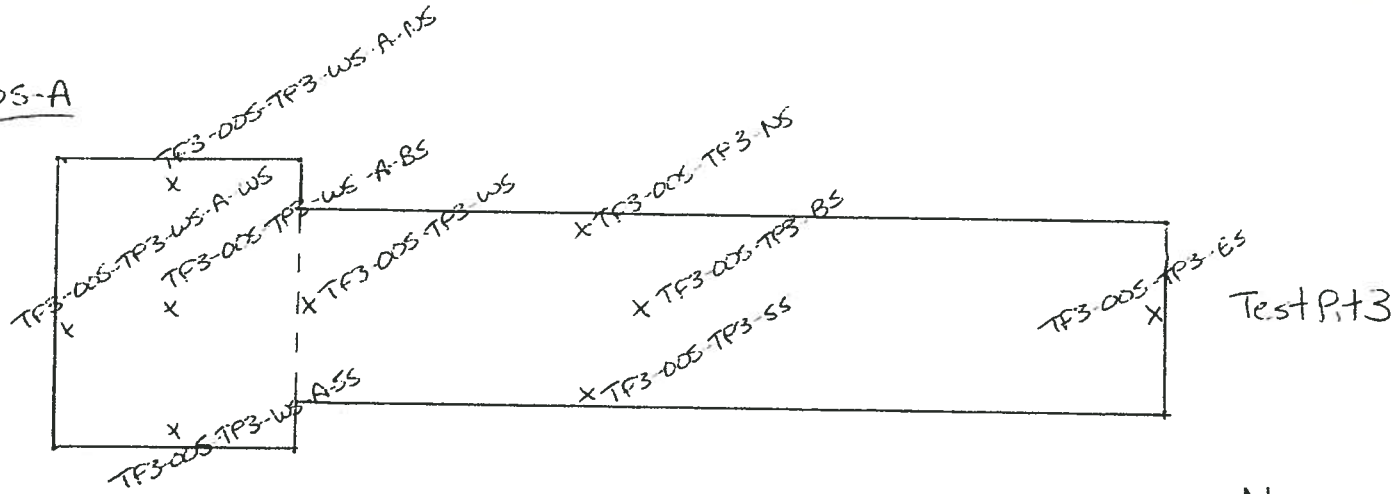
Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 3 CY

TETRA TECH	SUBJECT AOC-005 - Test Pit 1 Remediation	PROJECT Tank Farm 3
		TC/P NO.
	ORIGINATOR ____ CHECKED ____	DATE ____ PAGE ____ OF ____ PAGES



TETRA TECH	SUBJECT AOC-005 Test Pits 2+3 Remediation	PROJECT Tank Farm 3
		TC/P NO.
	ORIGINATOR ____ CHECKED ____	DATE ____ PAGE ____ OF ____

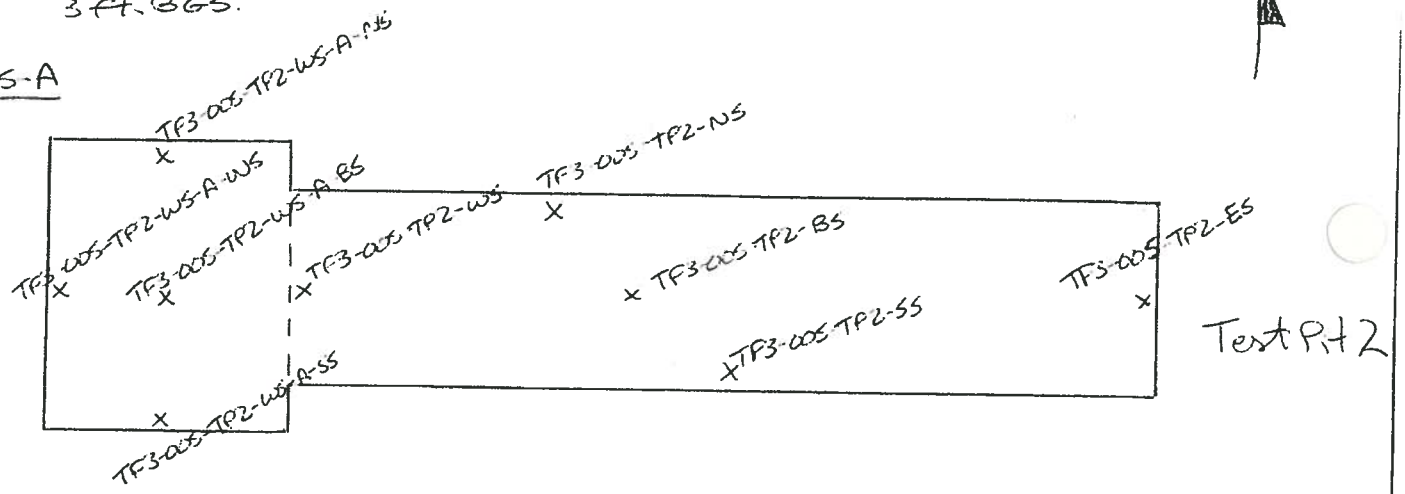
WS-A



Excavated to 3 ft. BGS.

N

WS-A



Excavated to 3 ft. BGS.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-005

Photo No.: 001

Direction of View: West

Description: Test Pit 1.

AOC No.: TF3-005

Photo No.: 002

Direction of View: West

Description: Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-005

Photo No.: 003

Direction of View:
West

Description:
Test Pit 3.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-009

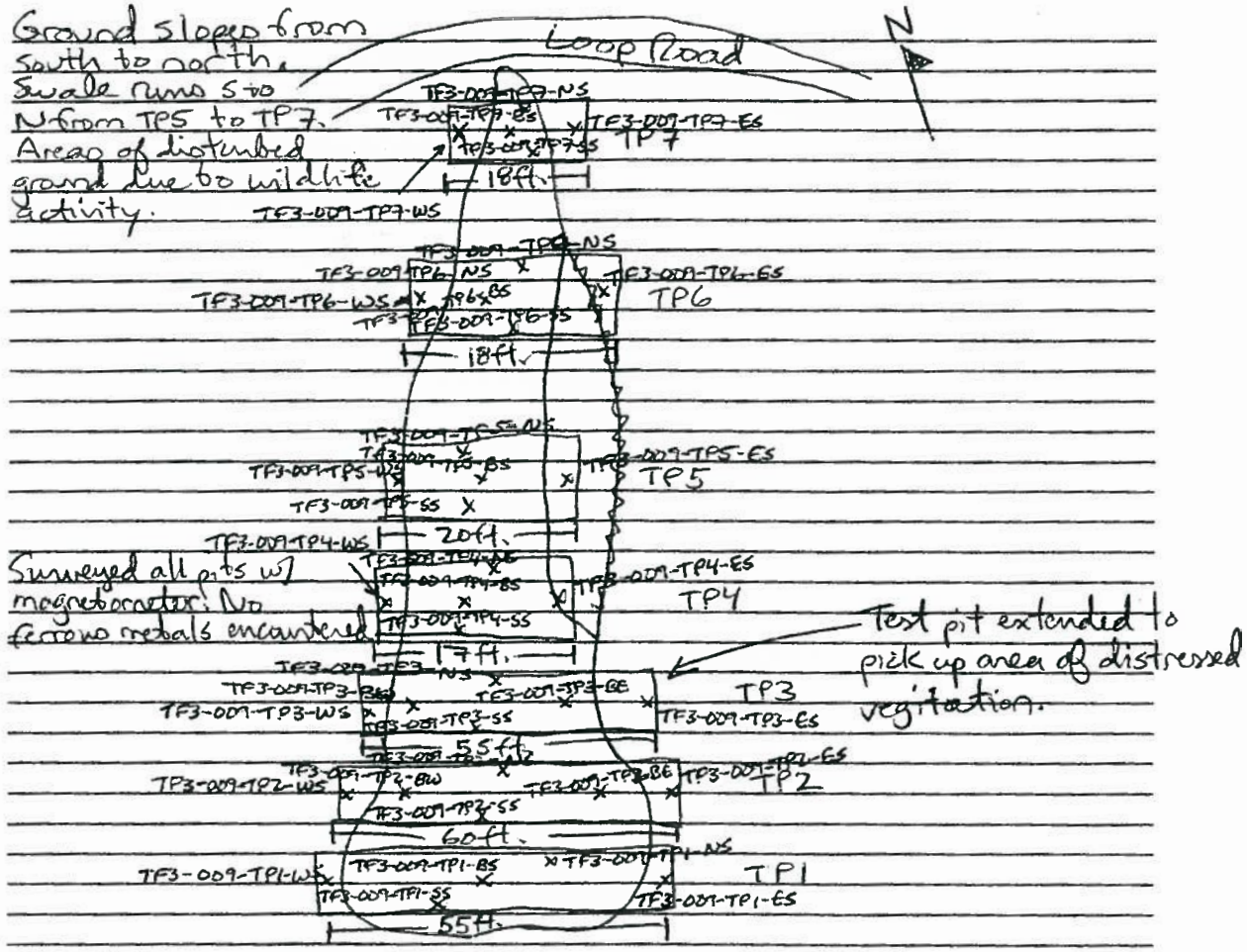
SIZE (approx.)
Length 165 ft. **Width** 55 ft. (@ widest)
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Ground staining.

FIELD OBSERVATION

Ground sloped from south to north. Swale runs S to N from TP5 to TP7. Areas of disturbed ground due to wildlife activity.



Surveyed all pits w/ magnetometer. No ferrous metals encountered.

Test pit extended to pick up area of distressed vegitation.

AOC-009

SAMPLING SUMMARY

Soil Samples

Location
FS – Floor Sample (BS)
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TF3-009	-TP1-	NS	100							Brown Silty Sand w/ gravel, 100% fines, trace roots
		SS	95							Brown Sandy silt w/ gravel, fine to med grain, roots
		ES	651							same as above, 100% fines
		WS	EEEE							Brown Silty Sand w/ gravel
		BS	98							"
	-TP2-	NS	0							Brown Sandy Silt w/ sub & gravel, 100% fines, roots prese
		SS	6							↓
		ES	36							
		WS	57							Brown Silty Sand w/ sub & gravel, 100% fines
		BE	96							same as "NS"
		BW	87							Brown Silty Sand w/ sub & gravel, 100% fines
	-TP3-	NS	16							Brown Sandy Silt w/ gravel, 100% fines, s
		SS	47							
		ES	322	86						Lt. Brown
		WS	57							Lt. Brown
		BE	122	4.4						35%-50% fine sand
		BW	149	8.3						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type ML, till

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☑ Yes ☐ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume 0 CY

AOC-009

SAMPLING SUMMARY

Soil Samples

Location
FS – Floor Sample (BS)
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TF3-009	TP4	NS	769	630						Brown Sandy Silt w/ gravel, fine to med. grain
		SS	547	51						
		ES	471	74						trace gravel
		WS	266	120						gravel present
		BS	137	46						Lt. Brown Silty Sand
TF3-009	TP5	NS	132	7.2						Brown Sandy Silt w/ gravel, roots present
		SS	149	8.7						
		ES	191	140						
		WS	172	7.3						
		BS	217	63						
TF3-009	TP6	NS	180	33						dk. brown silty sand
		SS	159	38						
		ES	161	21						
		WS	119	42						
		BS	197	6.5						grey silty sand
TF3-009	TP7	NS	95							lt. brown silty sand
		SS	137	11						lt. brown silty sand
		ES	113	27						
		WS	114	23						
		BS	169	ND						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type silty sand - SM

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume 0 CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-009

Photo No.: 001

Direction of View: East

Description: Test Pit 1.

AOC No.: TF3-009

Photo No.: 002

Direction of View: East

Description: Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-009

Photo No.: 003

Direction of View:
East

Description:
Test Pit 3.

AOC No.: TF3-009

Photo No.: 004

Direction of View:
East

Description:
Test Pit 4.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-009

Photo No.: 005

Direction of View:
East

Description:
Test Pit 5.

AOC No.: TF3-009

Photo No.: 006

Direction of View:
East

Description:
Test Pit 6.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-009

Photo No.: 007

Direction of View:
East

Description:
Test Pit 7.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-010

SIZE (approx.)
Length 60 ft. **Width** 30 ft.
Area 1800 ft.^{2}

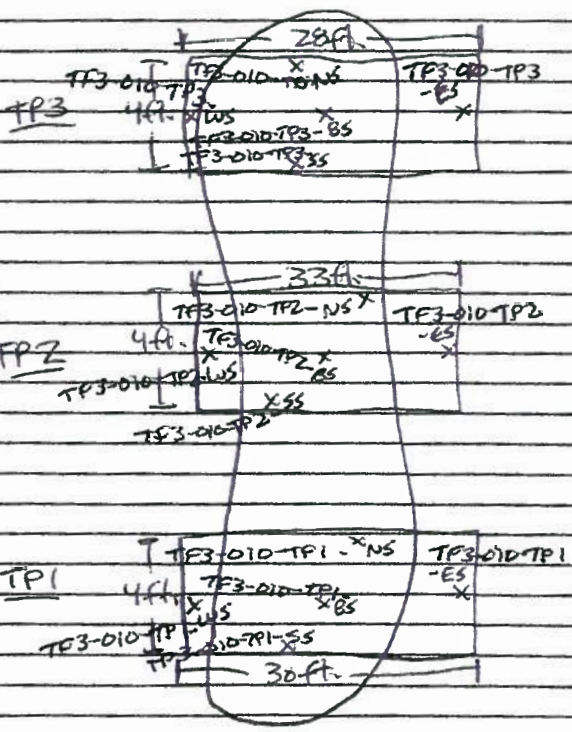
DESCRIPTION OF AREA AND OPERATIONAL USE

Ground staining; flow to north from end of hose; Tank 32.

FIELD OBSERVATION

N

Grade slopes from south to north. Grass and low trees + shrubs in area with no distressed vegitation. All test pits across both area boundaries.



SAMPLING SUMMARY AOC-010

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TP3_010	TP1	NS-1.0	112							grey sandy silt
		SS	52							" " "
		ES	79							lt. brown sandy silt
		WS	738							dk brown/grey sandy silt
		B-2.0	571							dk grey till (silty clay)
TP3_010	TP2	NS-1.0	75							grey/brown sandy silt/occ. cobbles.
		SS	141							" "
		ES	149							" "
		WS	571							" "
		B-2.0	2319							grey/tan silty clay
TP3_010	TP3	NS-1.0	220							dk brown sandy silt; occ. cobbles.
		SS	EEEE							dk. brown/grey sandy silt
		ES	122							
		WS	2900							
		B-2.0	212							tan silty clay w/ cobbles

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type ML / till

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume 0 CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-010

Photo No.: 001

Direction of View: East

Description: Test Pit 1.

AOC No.: TF3-010

Photo No.: 002

Direction of View: East

Description: Test Pit 2.

ESC Tank Farm 3
Melville, RI

Test Pit Investigation/Soil Remediation

PHOTOGRAPHIC RECORD

AOC No.: TF3-010

Photo No.: 003

Direction of View:
East

Description:
Test Pit 3.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-012

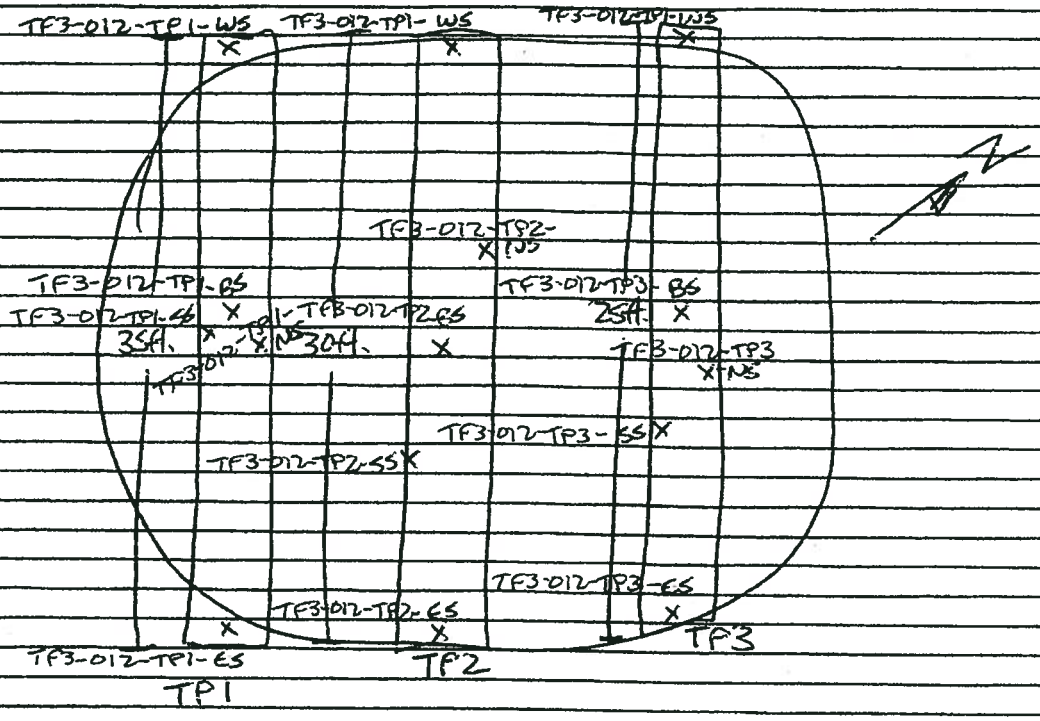
SIZE (approx.)
Length 40ft. **Width** 35ft.
Area 1400ft.^{2}

DESCRIPTION OF AREA AND OPERATIONAL USE

Possible excavated area.

FIELD OBSERVATION

No stressed vegitation; grass + weeds predominate. Magnetometer survey yielded no ferrous metals.



Flat grand gently sloping northeast.

SAMPLING SUMMARY AOC-012

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
012-TP1	NS	1.0	64							brown silty sand w/gravel, dense
	SS	1.0	902							" " "
	ES	1.0	61							" " "
	WS	1.0	95							" " "
	BS	2.0	~~16~~ 179	100						black/brown sandy silt (till)
012TP2	NS	1.0	77							Brown silty sand w/ gravel
	SS	1.0	44							
	ES	1.0	200	9.8						
	WS	1.0	95							
	BS	2.0	73							Fragmented Bedrock / Fill
012TP3	NS	1.0	29							Brown silty sand w/ sub-# gravel
	SS	1.0	100	510						
	ES	1.0	253	22						
	WS	1.0	983							
	BS	2.0	441	120						
										Frag. Bedrock / shale

Depth to Groundwater NA

Depth to Bedrock 2ft.

Predominant Soil Type SP/SM

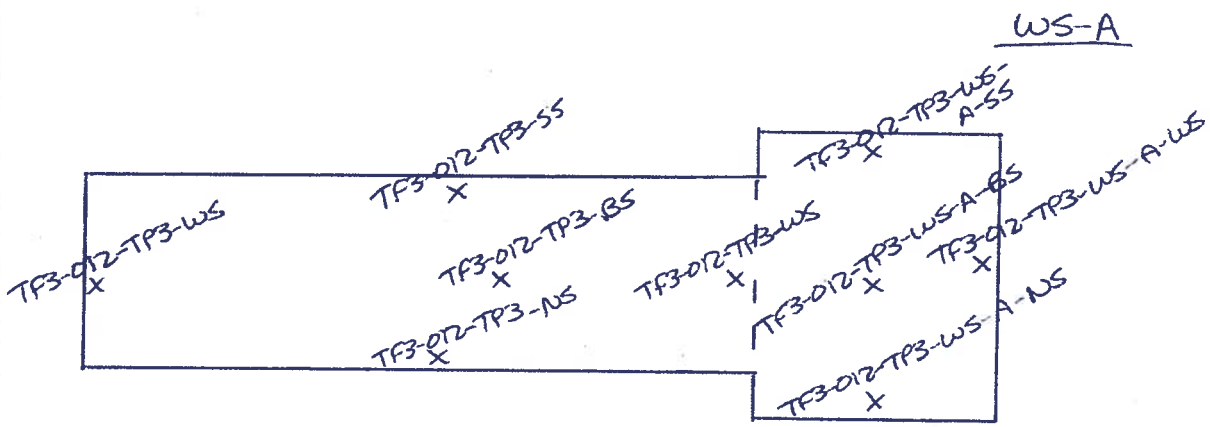
Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 1.5 CY

TETRA TECH	SUBJECT AOC-012-Test Pit 3 Remediation	PROJECT Tank Farm 3
		TC/P NO.
	ORIGINATOR CHECKED	DATE PAGE OF PAGES



Excavated to
0-2ft. BGS.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-012

Photo No.: 001

Direction of View:
West

Description:
Test Pit 1.

AOC No.: TF3-012

Photo No.: 002

Direction of View:
West

Description:
Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-012

Photo No.: 003

Direction of View: West

Description: Test Pit 3.

AOC No.: TF3-012

Photo No.: 004

Direction of View: West

Description: Remedial Area at Test Pit 3.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-014

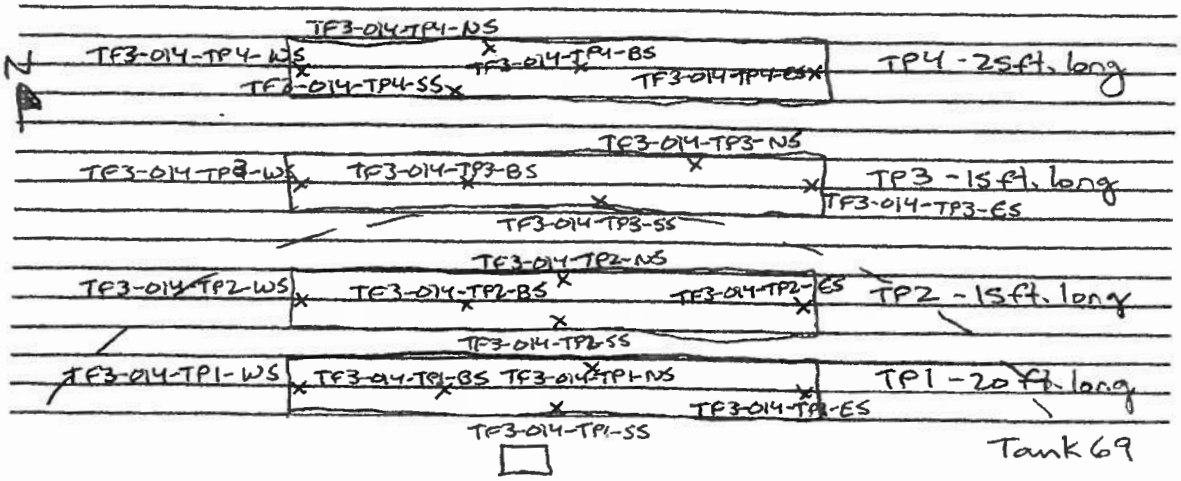
SIZE (approx.)
Length 110 ft. **Width** 10 ft.
Area 1100 ft.

DESCRIPTION OF AREA AND OPERATIONAL USE

Pipe scar from Tank 69.

FIELD OBSERVATION

No stressed vegitation; weeds and grasses predominate. Magnetometer survey performed, no responses other than steel material use for Tank 69 construction.



SAMPLING SUMMARY AOC-014

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
014-TP1	WS	1.0	33							grey/brown gravelly sand w/silt, schist fragments
	ES	1.0	2							Material is fill used to cover tank 09 and
	NS	1.0	24							includes all of TP's 1, 2 & 3.
	SS	1.0	28							
	BS	2.0	52							
014-TP2	NS	1.0	46							
	SS	1.0	48							
	ES	1.0	28							
	WS	1.0	28							
	BS	2.0	64							
014-TP3	NS	1.0	36							
	SS	1.0	36							
	ES	1.0	36							
	WS	1.0	43							
	BS	2.0	57							
014-TP4	NS	1.0	208	120						Dk. brown/grey silty sand w/gravel, rock fragme
	SS	1.0	21							some fill. See above note
	ES	1.0	370	200						
	WS	1.0	137	110						
	BS	2.0	75							

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type gravelly sand w/silt (fill from blasting)

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-014

Photo No.: 001

Direction of View:
South

Description:
Test Pit 1.

AOC No.: TF3-014

Photo No.: 002

Direction of View:
South

Description:
Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-014

Photo No.: 003

Direction of View: South

Description: Test Pit 3.

AOC No.: TF3-014

Photo No.: 004

Direction of View: South

Description: Test Pit 4.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-017

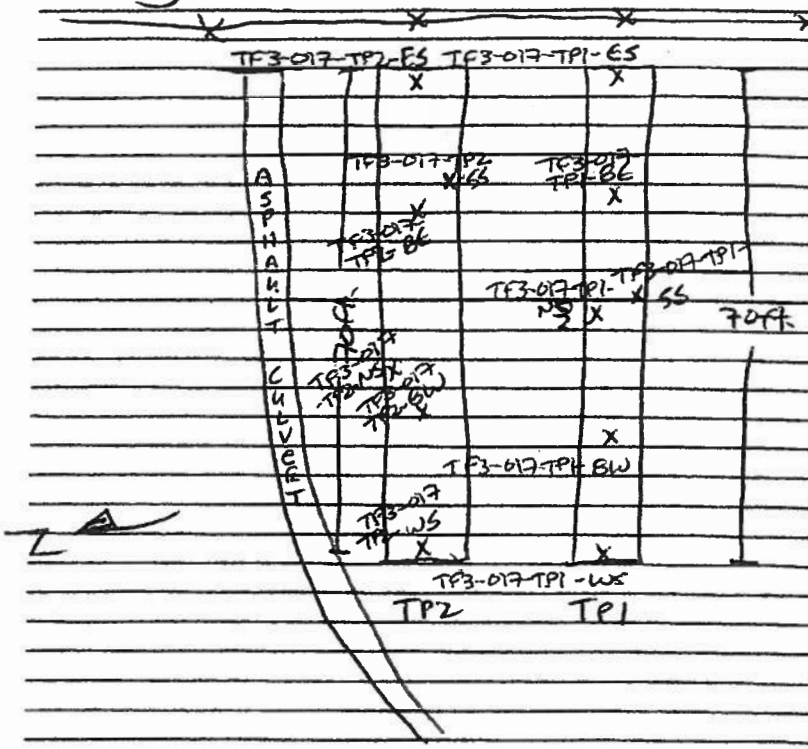
SIZE (approx.)
Length 70ft. **Width** 40ft.
Area 2800ft.

DESCRIPTION OF AREA AND OPERATIONAL USE

Orginage swale from Tanks 69 & 70. Dark area seen on 1984 ariel photographs.

FIELD OBSERVATION

No stressed vegtation. Drainage culvert intact. Magnetometer survey performed - much reinforced concrete, asphalt, strap but no tanks or drums



SAMPLING SUMMARY AOC-017

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
017-TP1	NS	1.0	150	120						Brown Silty Sand w/ sub & gravel, Fill consisting of asphalt & concrete
	SS	1.0	160	430						
	ES	1.0	188	51						
	WS	1.0	125	460						
	BE	2.0	1373							
	BW	2.0	391	96						
017-TP2	NS	1.0	316	250						Brown Inorganic Sand (med to fine) w/ silt, 50% sub & gr Fill consisting of asphalt & concrete
	SS	1.0	3312							
	ES	1.0	1429							
	WS	1.0	63							section of the brown poorly graded sand
	BE	2.0	2151							
	BW	2.0	488	170						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type sandy gravel / FILL

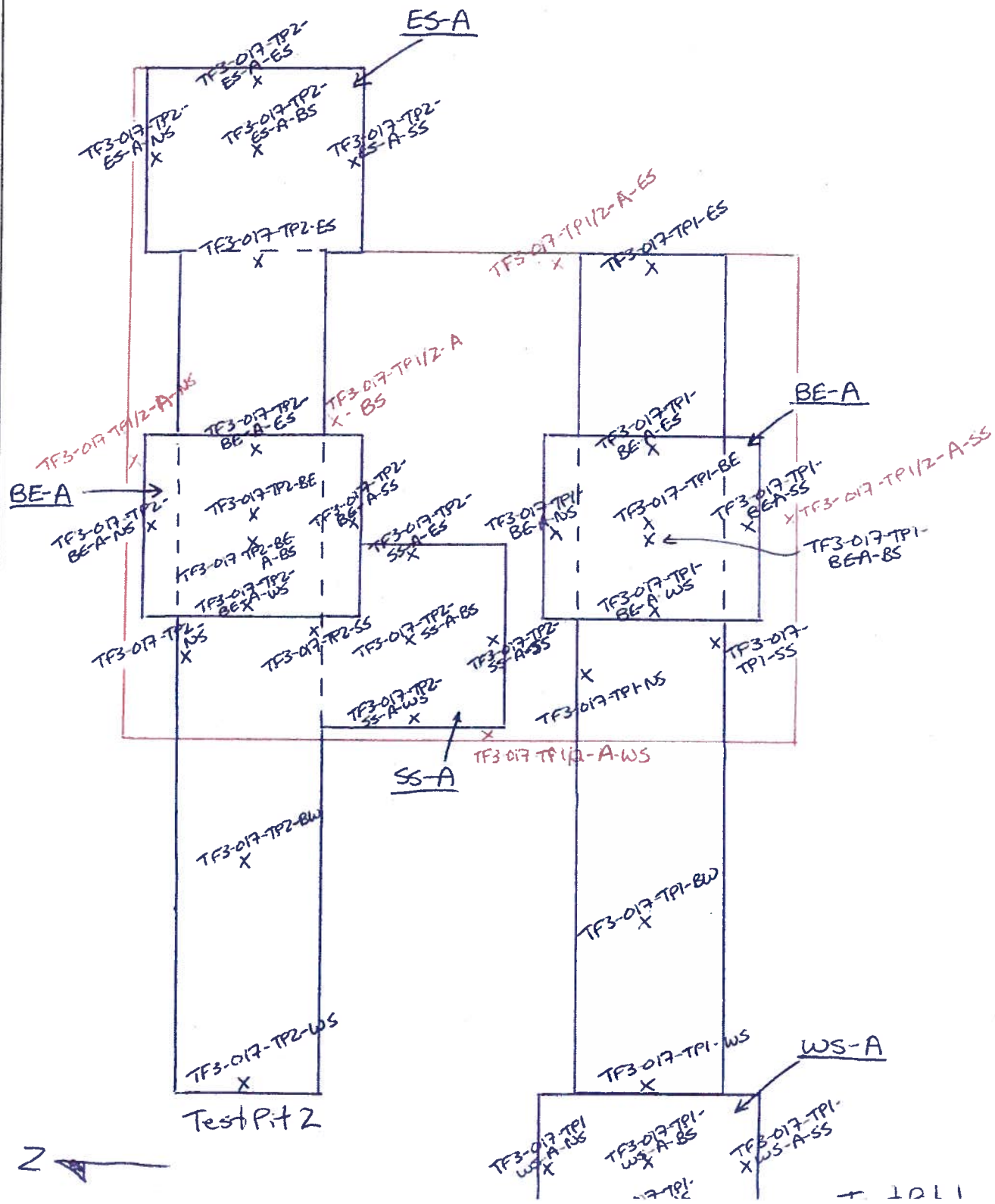
Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 122 CY

TETRA TECH	SUBJECT AOC-017 Remedial Areas	PROJECT Tank Farm 3
		TC/P NO.
	ORIGINATOR ____ CHECKED ____	DATE ____ PAGE ____ OF ____ PAGES



DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-017

Photo No.: 001

Direction of View: East

Description: Test Pit 1.

AOC No.: TF3-017

Photo No.: 002

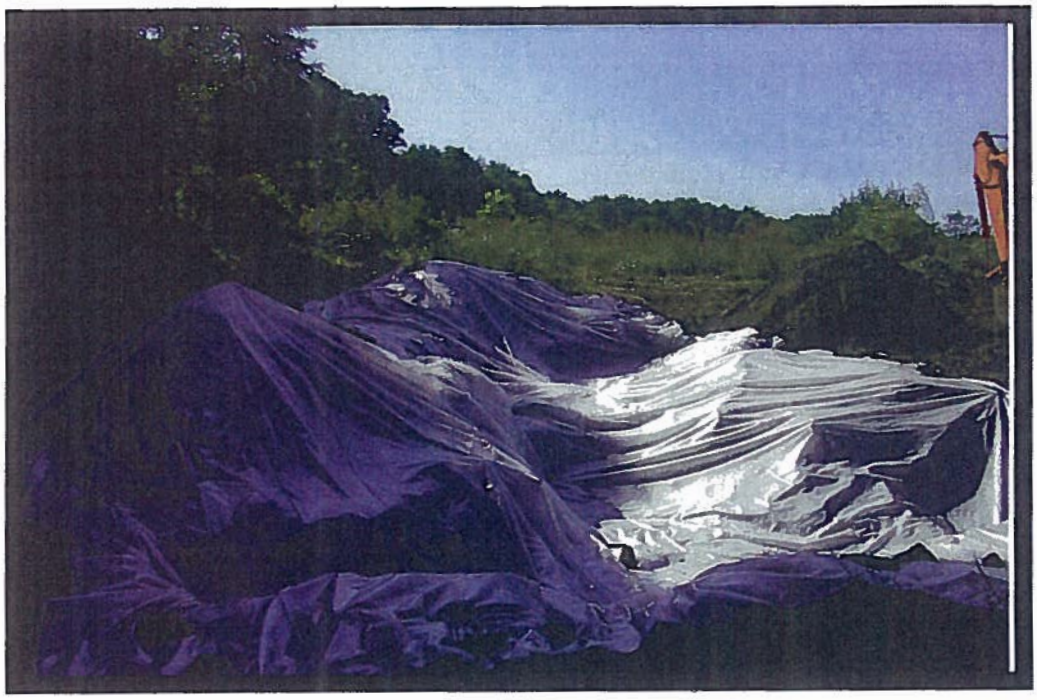
Direction of View: East

Description: Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD



AOC No.: TF3-017

Photo No.: 003

Direction of View:
South

Description:
Test pits and remedial areas covered with plastic.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-018

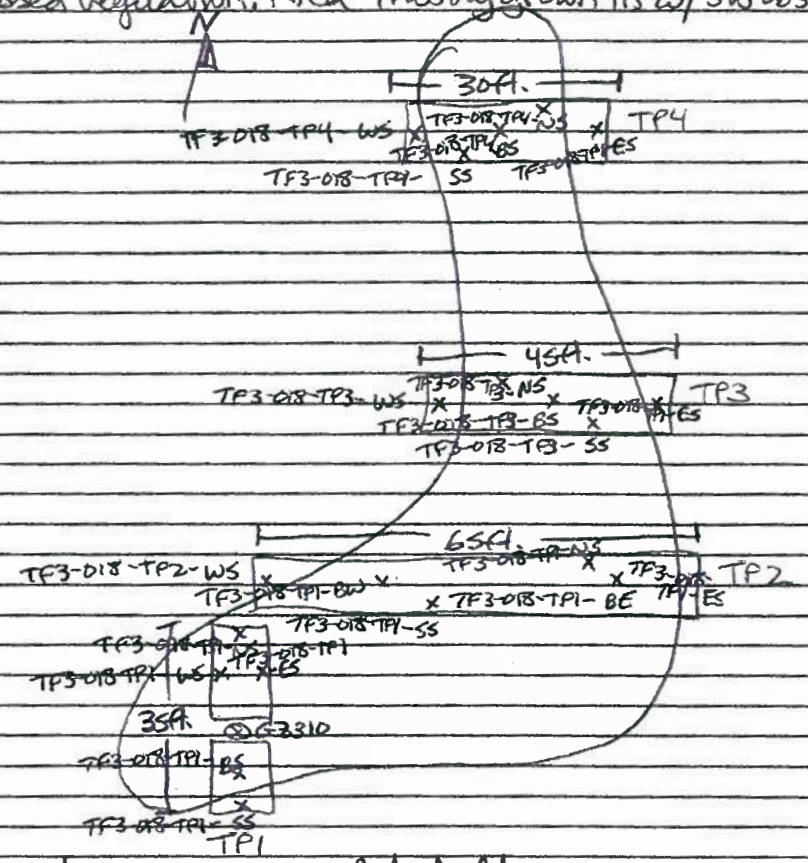
SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Ground staining/disturbed vegitation. Runout of Tank 35 overfill incident.

FIELD OBSERVATION

No stressed vegitation. Area mostly grown in w/ shrubs + low trees.



Magnetometer survey completed. No responses.

AOC-018

SAMPLING SUMMARY

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TP1 –	NS	1.0	1327							Lt. Brown Sandy Silt trace gravel, roots present, 10% Fine
	SS	1.0	2							Reddish brown
	ES	1.0	105	7.4						
	WS	1.0	~~1327~~ 49							
	BS	2.0	149	ND						
TP2 –	NS	1.0	1195							Lt. Brown Silty Sand, 100% Fine, trace gravel, increase
	SS	1.0	824							
	ES	1.0	52							
	WS	1.0	99							Reddish Brown
	BE	2.0	189	22						Greyish / Black w/ sub-t gravel, Same as NS
	BW	2.0	152	6.9						Same as NS
TP3 –	NS	1.0	65							Lt. Brown Sandy Silt trace gravel, roots present
	SS	1.0	78							
	ES	1.0	111	5.2						
	WS	1.0	111	ND						
	BS	2.0	62							
TP3 – X – 1.0			146							

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SM- silty sand

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 3.0 CY

SAMPLING SUMMARY AOC-08

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TP4-	NS	1.0	77							Reddish brown Sandy Silt trace gravel, inorganic 100% fine San
	SS	1.0	56							↓
	ES	1.0	133	22						Same as above w/ ~~&~~ gravel; shale present
	WS	1.0	38							Same as NS
	BS	2.0	121	ND						↓ Reddish brown & lt. gray

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type Sandy silt

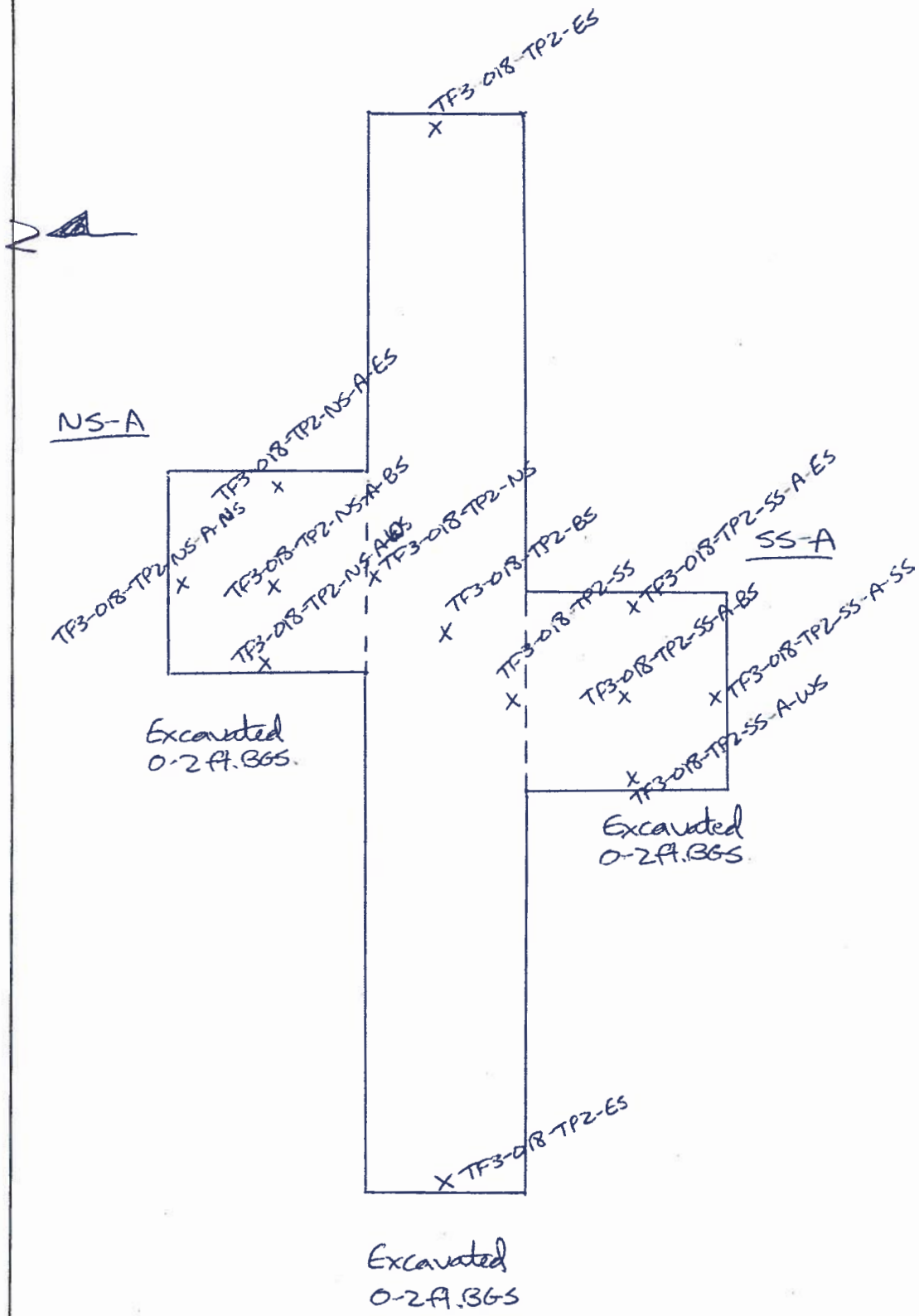
Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 3.0 CY

TETRA TECH	SUBJECT AOC-018 Test Pit 2 Remediation	PROJECT Tank Farm 3
		TC/P NO.
	ORIGINATOR CHECKED	DATE PAGE OF PAGES



DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-018

Photo No.: 001

Direction of View: South

Description: Test Pit 1 with monitoring well GZ-310 in line of pit.

AOC No.: TF3-018

Photo No.: 002

Direction of View: East

Description: Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-018

Photo No.: 003

Direction of View:
East

Description:
Test Pit 3.

AOC No.: TF3-018

Photo No.: 004

Direction of View:
East

Description:
Test Pit 4.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

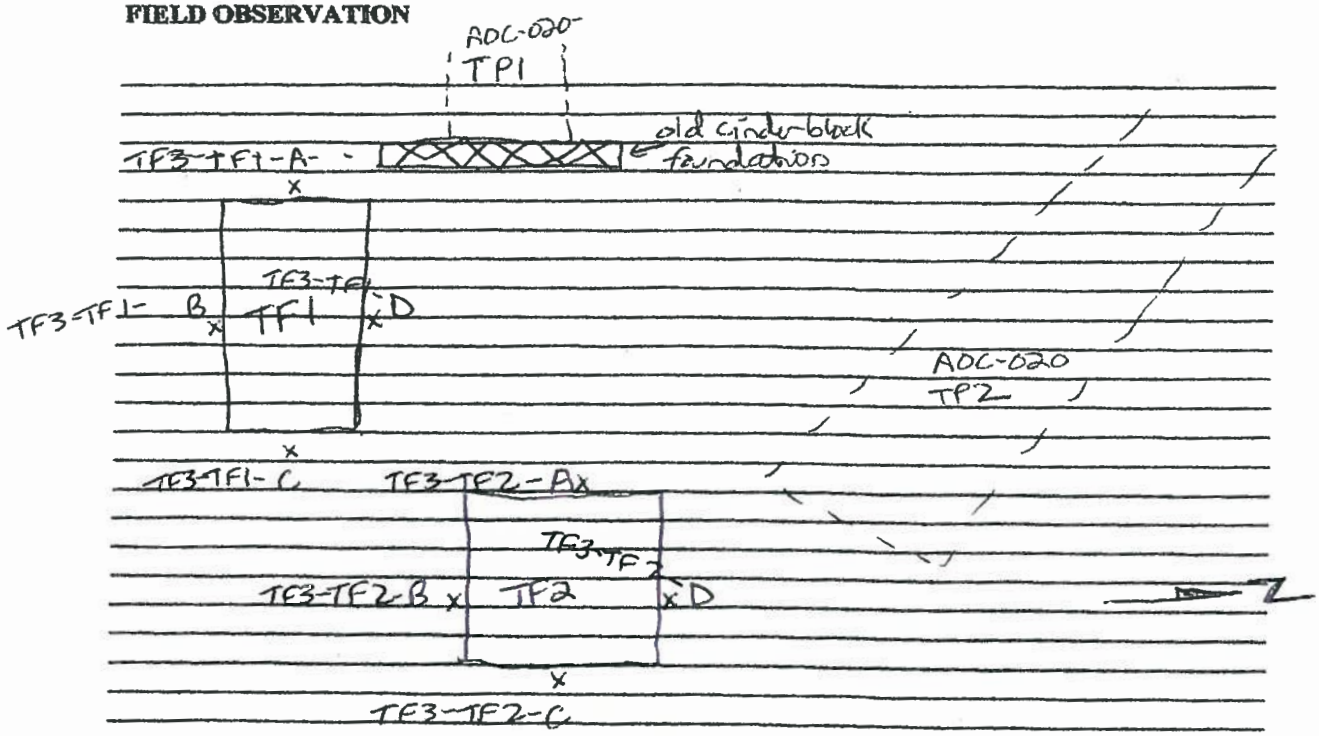
AREA Transformers @ AOC-020

SIZE (approx.)
Length NA **Width** NA
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Two, non-PCB containing electric transformers on concrete pads sit above ground at AOC-020.

FIELD OBSERVATION



SAMPLING SUMMARY Transformers

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TF3 –	TF1-A	-1.0						✓		Samples taken in soils @ base of concrete pads
	-B	-1.0						✓		
	-C	-1.0						✓		
	-D	-1.0						✓		
TF3 –	TF2-A	-1.0						✓		
	-B	-1.0						✓		
	-C	-1.0						✓		
	-D	-1.0						✓		

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SP-SM; silty sand

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☐ No
If so, Estimated Volume NA CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: Transformers

Photo No.: 001

Direction of View:
South

Description:
Area photo.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-023

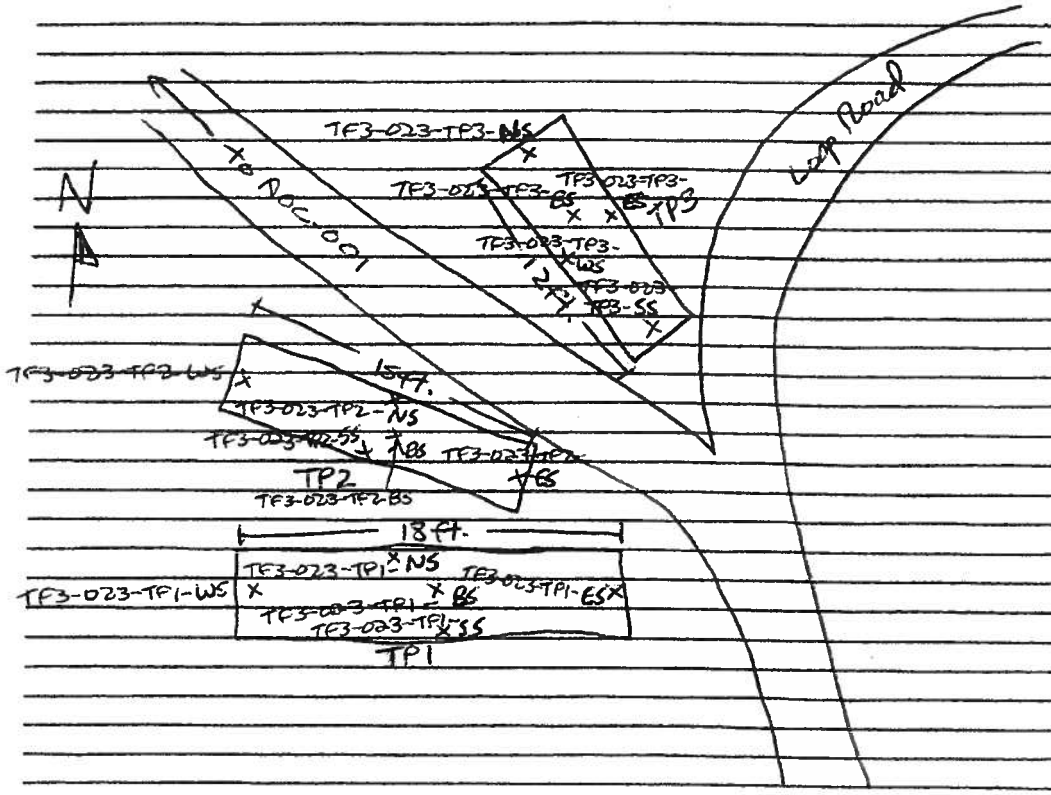
SIZE (approx.)
Length 70ft. **Width** 10ft.
Area 700ft.^{2}

DESCRIPTION OF AREA AND OPERATIONAL USE

Ground staining from Tank 33 access vault downhill + to the north.

FIELD OBSERVATION

Low shrubs and grass; no stressed vegitation. Magnetometer survey yielded no responses.



SAMPLING SUMMARY AOC-023

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
023-TP1	NS	1.0	191	150						grey/brown silty sand w/g sand
	SS	1.0	39							
	ES	1.0	0							
	WS	1.0	24							
	BS	2.0	36							grey sand w/ schist
023-TP2-	NS	1.0	421	240						grey/brown sand w/g gravel
	SS	1.0	274	150						
	ES	1.0	45							
	WS	1.0	228	42						
	BS	2.0	309	99						grey brown sand w/schist
023-TP3-	NS	1.0	66							
	SS	1.0	180	110						
	ES	1.0	401	230						
	WS	1.0	411	53						
	BS	2.0	290	35						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SP-gravelly sand

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 1.0 CY

TETRA TECH

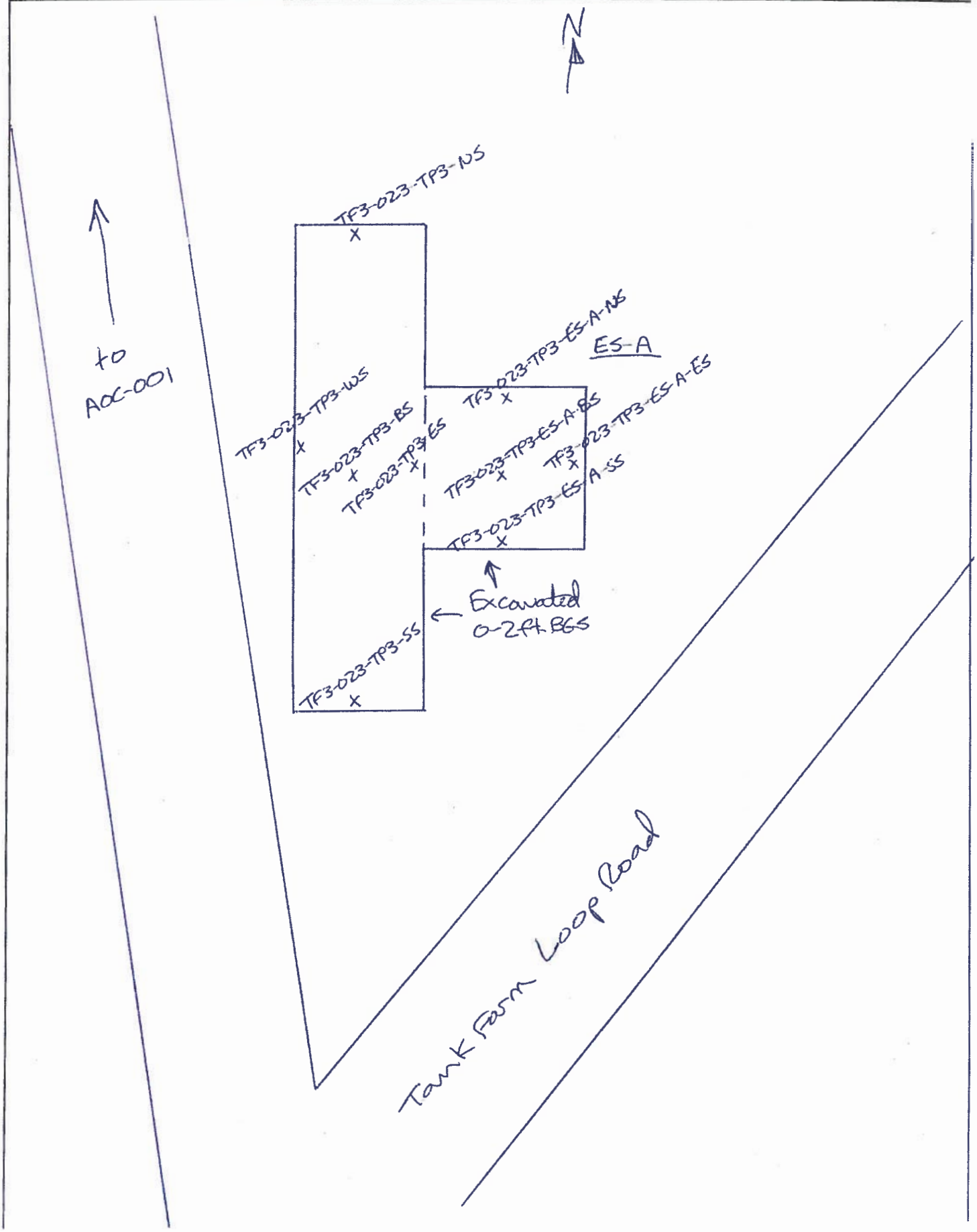
SUBJECT AOC-023 Test Pit 3 Remediation

PROJECT Tank Farm 3

TC/P NO.

ORIGINATOR CHECKED

DATE PAGE OF PAGES



DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-023

Photo No.: 001

Direction of View:
Northwest

Description:
Test Pit 1.

AOC No.: TF3-023

Photo No.: 002

Direction of View:
Northwest

Description:
Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-023

Photo No.: 003

Direction of View:
North

Description:
Test Pit 3.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA AOC-029

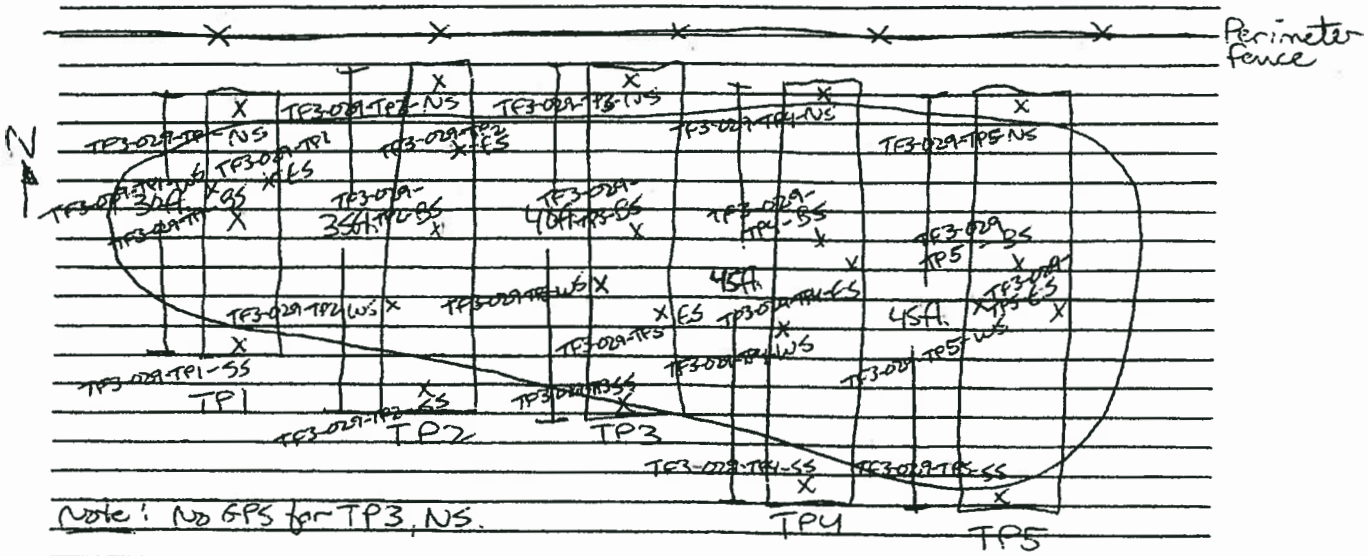
SIZE (approx.)
Length ~~40~~ 130ft. **Width** 40ft.
Area 5200ft²

DESCRIPTION OF AREA AND OPERATIONAL USE

Visual staining and distressed vegitation from 1984 aerial photos.

FIELD OBSERVATION

No stressed vegitation, shrubby trees and weeds predominate
Magnetometer survey noted 12" BCCMP in TP4 and no other responses.



Note: No GPS for TP3, NS.

SAMPLING SUMMARY AOC-029

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
029-TP1	NS	1.0	784	98						brown silty sand
	SS	1.0	0							" "
	ES	1.0	0							blastrock-schist
	WS	1.0	19							brown sandy gravel
	BS	2.0	0							" " "
029-TP2	NS	1.0	989							lt. brown gravelly sand
	SS	1.0	181	ND						brown gravelly sand
	ES	1.0	1028							brown silty sand
	WS	1.0	1063							brown silty sand
	BS	2.0	507	960						lt. brown silty sand
029-TP3	NS	1.0	9							Shot Rock
	SS	1.0	1126							Grey silty sand
	ES	1.0	7							Shot Rock
	WS	1.0	128	59						lt. brown silty sand
	BS	2.0	0							grey sandy gravel

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type silty sand (fill)

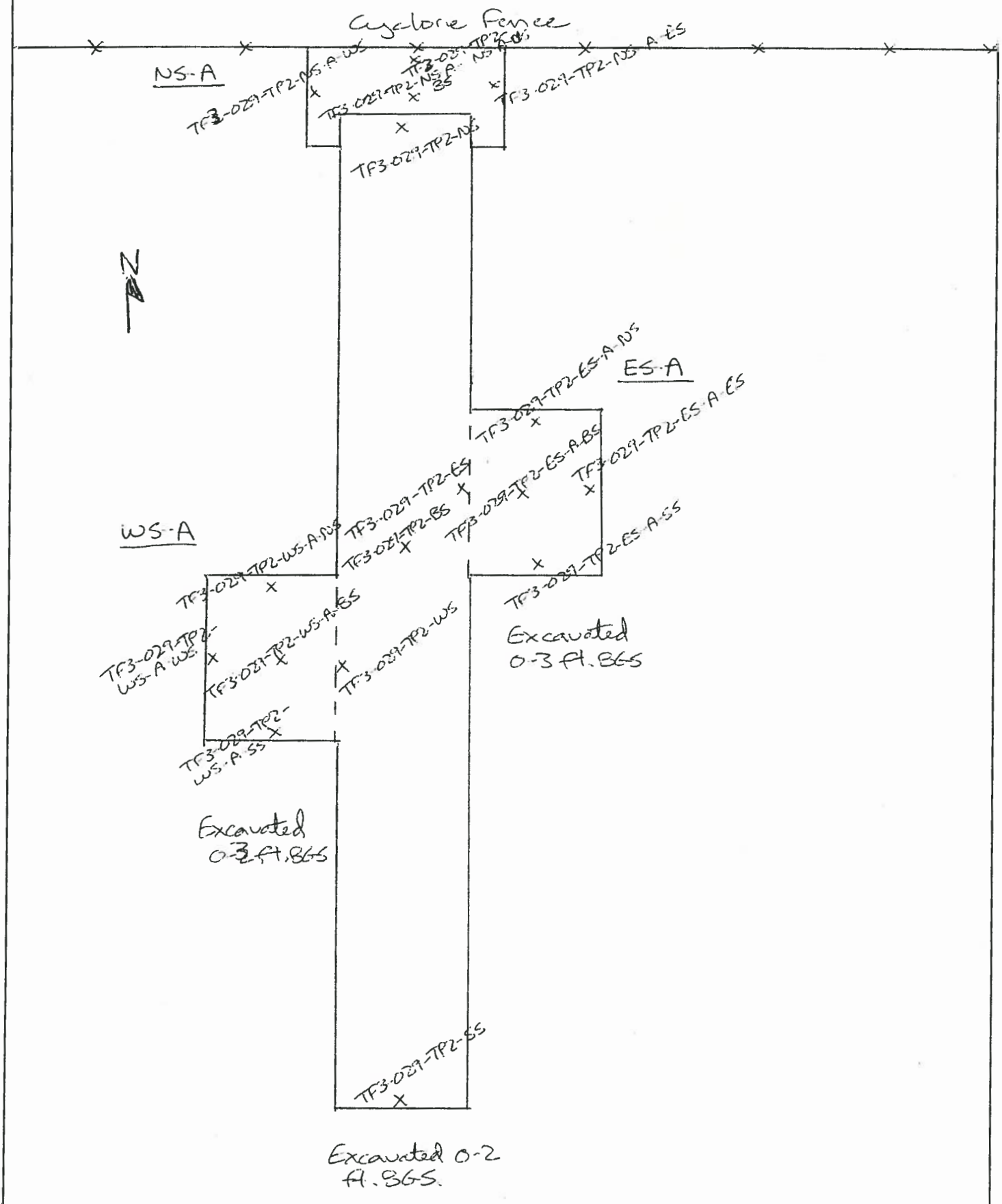
Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

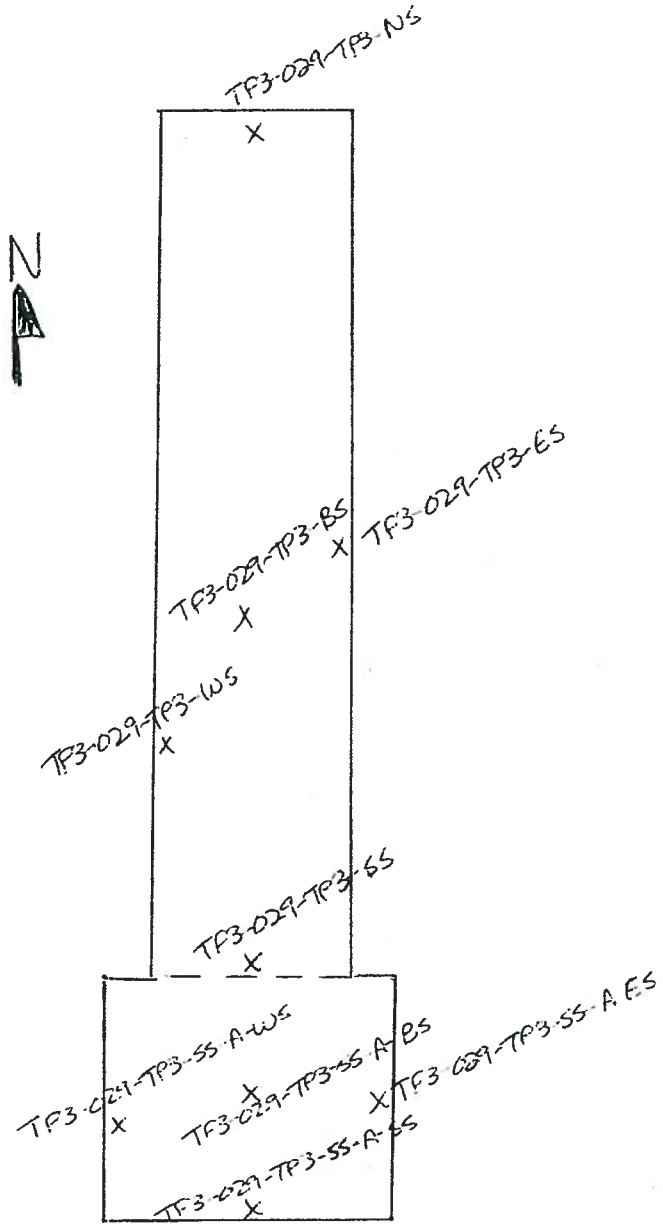
Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☑ Yes ☐ No
If so, Estimated Volume 6.0 CY

TETRA TECH	SUBJECT AOC-029 Test Pit 2 Remediation	PROJECT Tank Farm 3
		TC/P NO.
	ORIGINATOR ____ CHECKED ____	DATE ____ PAGE ____ OF ____ PAGES



TETRA TECH	SUBJECT AOC-029 Test Pit 3 Remediation	PROJECT Tank Farm 3
	ORIGINATOR _____ CHECKED _____	TC/P NO. _____ DATE _____ PAGE ____ OF ____ P



Excavated
0-3 ft. BGS

ESC Tank Farm 3
Melville, RI

Test Pit Investigation/Soil Remediation

PHOTOGRAPHIC RECORD

AOC No.: TF3-029

Photo No.: 001

Direction of View:
North

Description:
Test Pit 1.

AOC No.: TF3-029

Photo No.: 002

Direction of View:
North

Description:
Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-029

Photo No.: 003

Direction of View:
North

Description:
Test Pit 3.

AOC No.: TF3- 029

Photo No.: 004

Direction of View:
North

Description:
Test Pit 4.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TF3-029

Photo No.: 005

Direction of View:
North

Description:
Test Pit 5.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

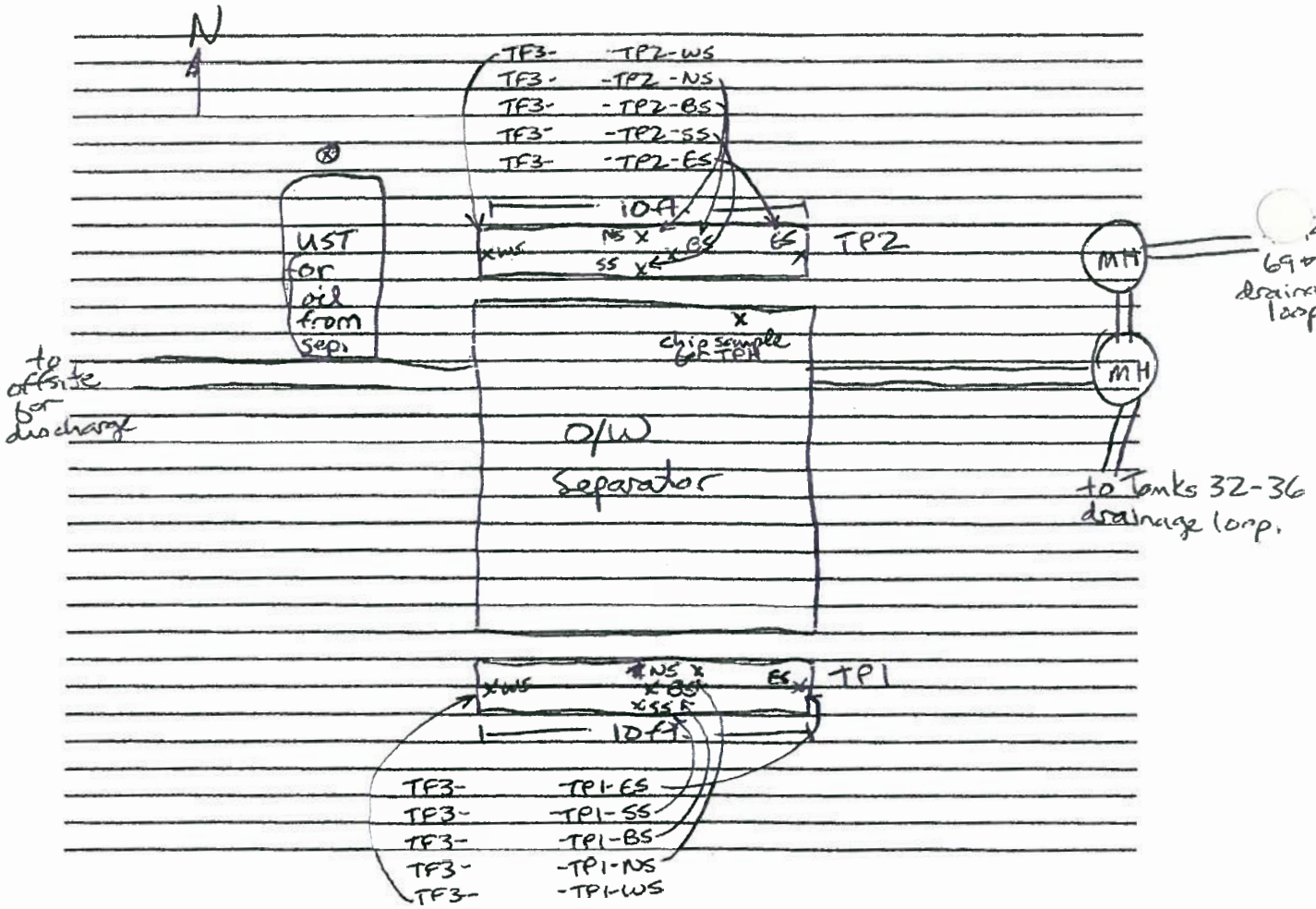
AREA O/W Separator #3

SIZE (approx.)
Length 25 ft. **Width** 25 ft.
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Oil/water separator #3 treats all water from TF3 ring drains before it discharges offsite. Area in depression, soil covered by fabric and rip rap.

FIELD OBSERVATION



SAMPLING SUMMARY

O/W Sep. #3

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TP1 –	NS	1.0	63							Brown silty sand w/ fine to med. gravel
	SS	1.0	57							Lt. Brown silty sand w/ gravel
	ES	1.0	45							Same as (NS)
	WS	1.0	63							Brown Silty Sand, fill material w/ bedding stone
	BS	2.0	45							Brown silty sand w/ gravel
TP2 –	NS	1.0	58							Same as (BS)
	SS	1.0	75							"
	ES	1.0	90							Brown fill material, silty sand
	WS	1.0	59							Brown silty fine sand w/ gravel
	BS	2.0	77							Brownish gray silty sand w/ # gravel

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SP-SM

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: Oil/Water Separator #3

Photo No.: 001

Direction of View: East

Description: Test Pit 1.

AOC No.: Oil/Water Separator #3

Photo No.: 002

Direction of View: East

Description: Test Pit 2.

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: Oil/water Separator #3

Photo No.: 003

Direction of View: East

Description: Area photograph.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

AREA Oil/Water Separator #3

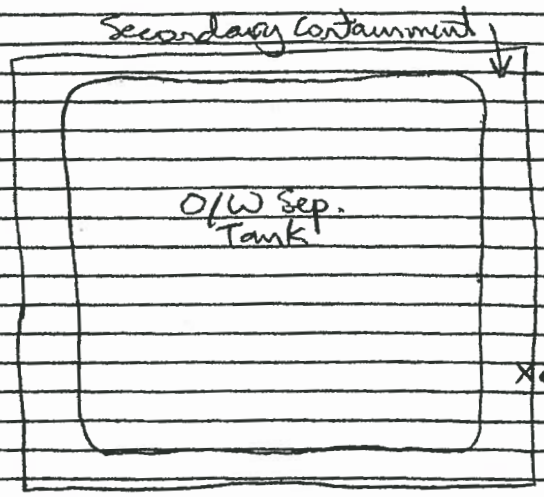
SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Separation tank placed w/in secondary containment. Tank separates any oil from Fuel Farm 3 runoff (BS+W) lines.

FIELD OBSERVATION

Standing water inside secondary containment has left residue on concrete walls. RIDEM requested that this sample be tested for TPH. Material was scraped into jar and sent to lab.



X ← Scrape sample taken here.
TF3-O/W Sep. #3 on 8/5/04.

SAMPLING SUMMARY O/W Sep. #3

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TP3-O/W Sep.	#3	Scrape	NA	✓						reading scraped from concrete wall.

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type NA

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

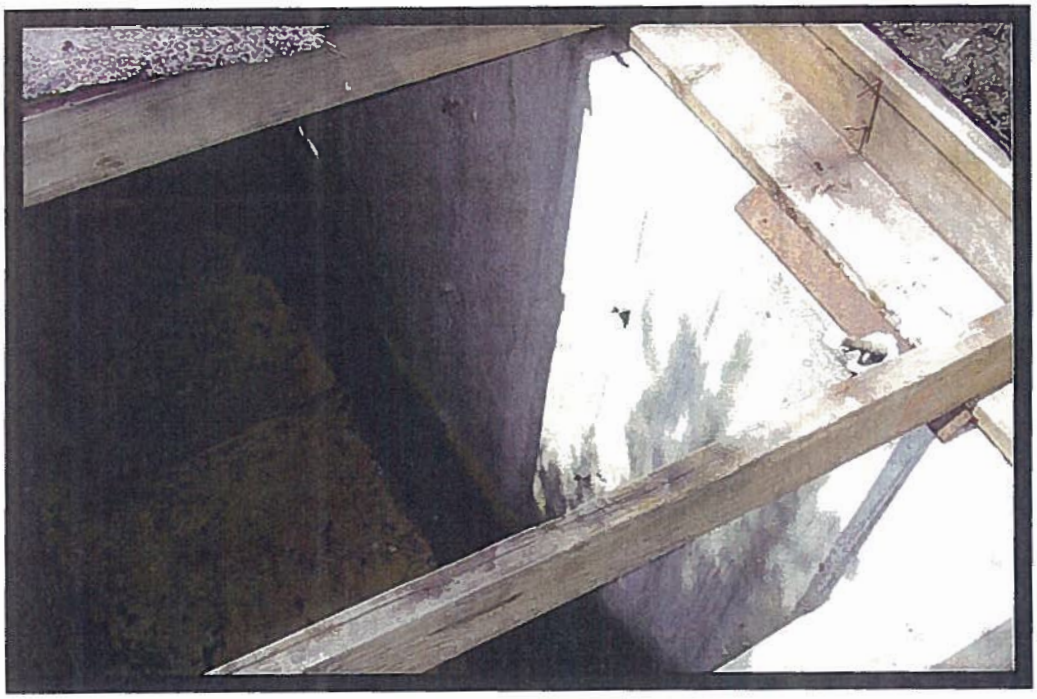
Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA **CY**

ESC Tank Farm 3
Melville, RI

Test Pit Investigation/Soil Remediation

PHOTOGRAPHIC RECORD



AOC No.: Oil/Water Separator #3

Photo No.: 001

Direction of View: NA

Description: Wall from which scrape sample was taken.

AOC No.: Oil/Water Separator #3

Photo No.: 002

Direction of View: NA

Description: Close up of sample location.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

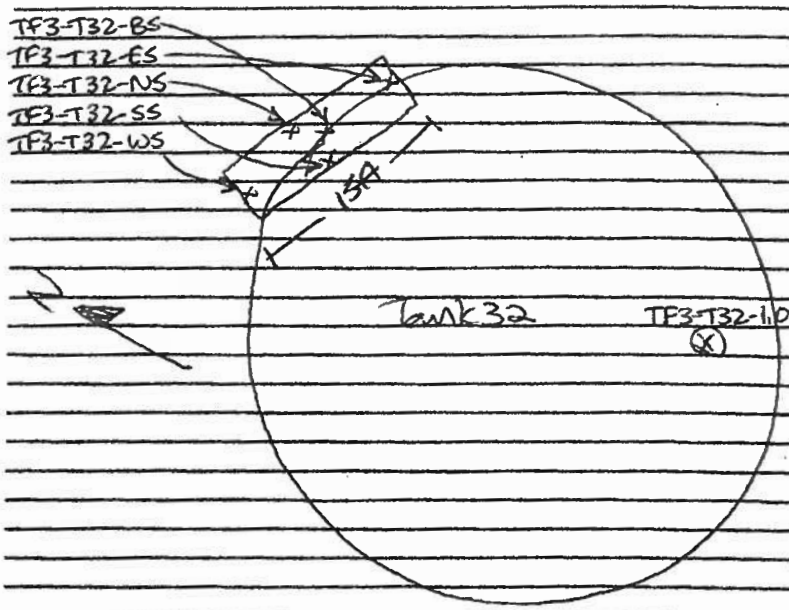
AREA Tank 32

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Fuel holding tank. Dug test pit to 10ft. BGS. Sampled side walls @ 5.0ft. and bottom @ 10.0ft.

FIELD OBSERVATION



SAMPLING SUMMARY Tank 32

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TF3-Tank32	-BS	-10.0	108	✓						brown/grey gravelly sand w/silt; predom. mainly shale and blasted bedrock.
	GS	-5.0	66							
	NS	-5.0	71							
	SS	-5.0	45							
	WS	-5.0	96							
TF3-T32		1.0	1875	✓						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill (see above)

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA **CY**

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TANK 32

Photo No.: 001

Direction of View:
East

Description:
Tank Wall.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

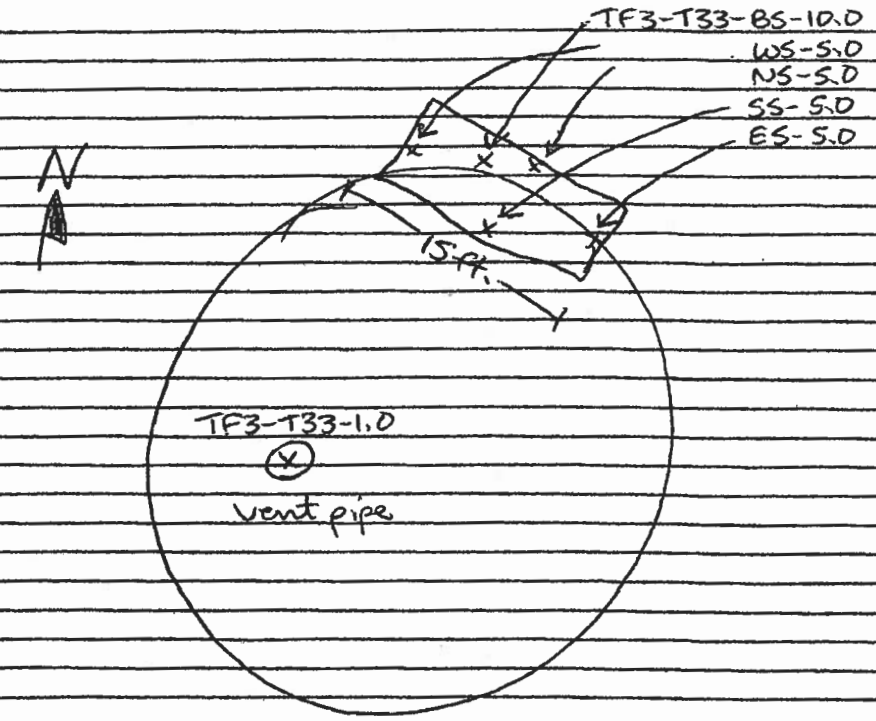
AREA Tank 33

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Fuel storage tank. Dug along Tank wall to 10ft. BGS. Sampled sidewalls @ 5.0ft and base @ 10.0ft.

FIELD OBSERVATION



SAMPLING SUMMARY Tank 33

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TF3-T32-	BS -	10.0	70							Blasted bedrock filled
	ES -	5.0	71							annular space and on
	NS -	5.0	38							top of tank.
	SS -	5.0	95							
	WS -	5.0	94							
TF3-T32		1.0	224	✓						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA **CY**

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

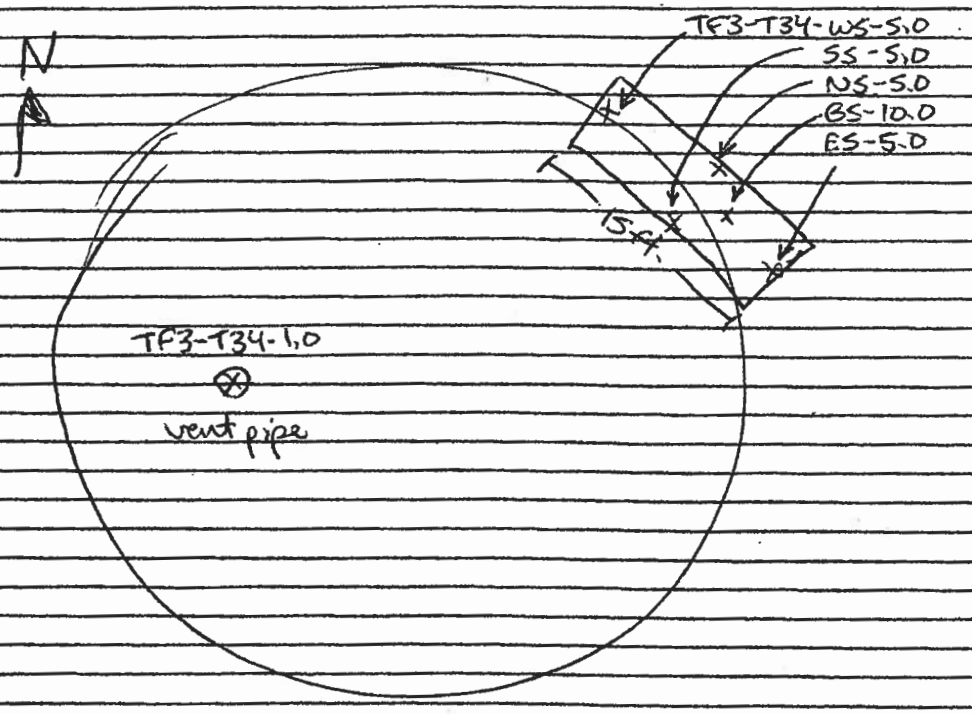
AREA Tank 34

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Fuel storage tank. Test pit excavated to 10 ft. BGS. Sampled sidewalls @ 5.0 ft, base @ 10.0 ft. BGS.

FIELD OBSERVATION



SAMPLING SUMMARY

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TF3-T34-	BS-	10.0	46							grey gravelly sand w/silt
	ES -	5.0	80							(fill between tank + bedrock)
	NS-	5.0	68							
	SS -	5.0	74							
	WS -	5.0	64							
TF3-T34	-	1.0	211	✓						fill on top of tank

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA **CY**

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: TANK 34

Photo No.: 001

Direction of View:
East

Description:
Tank wall.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

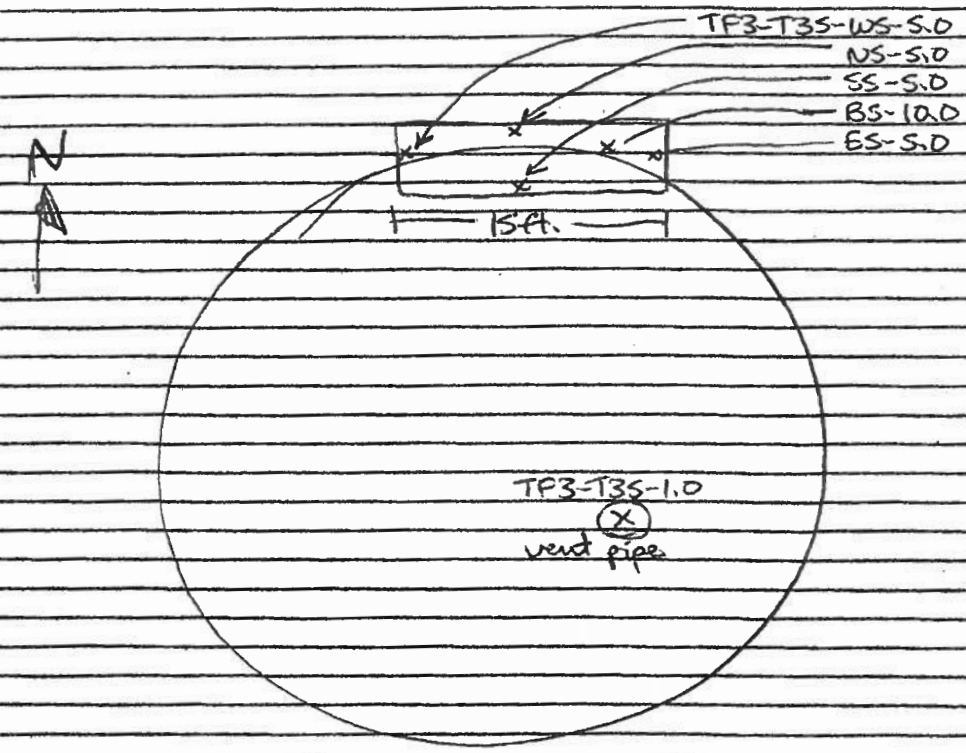
AREA Tank 35

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Fuel storage tank. Test pit excavated along tank wall to 10 ft. BGS. Sidewalls sampled @ 5.0 ft., base @ 10.0 ft.

FIELD OBSERVATION



SAMPLING SUMMARY Tank 35

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

	Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TF	3-T35	BS-	10.0	56							blasted bedrock w/
		ES-	5.0	65							sand silt (fill)
		NS-	5.0	22							
		SS-	5.0	36							
		WS-	5.0	57							
TF	3-T35		1.0	35							

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA **CY**

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

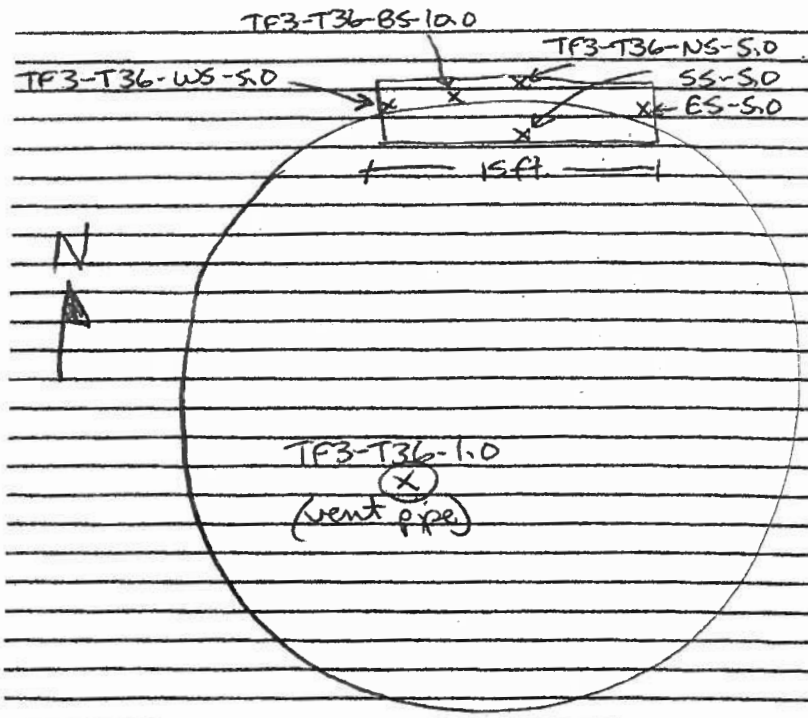
AREA Tank 36

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Fuel storage tank. Excavated test pit along tank wall to 10ft. BGS. Sampled sidewalls @5.0 ft. and base @10.0 ft.

FIELD OBSERVATION



SAMPLING SUMMARY Tank 36

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TF3-T36	-BS	-10.0	—	8.4						blast rock w/sand+silt
	-ES	-5.0	86							
	-NS	-5.0	57							
	-SS	-5.0	51							
	-WS	-5.0	83							
TF3	-T36	-1.0	344	✓						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

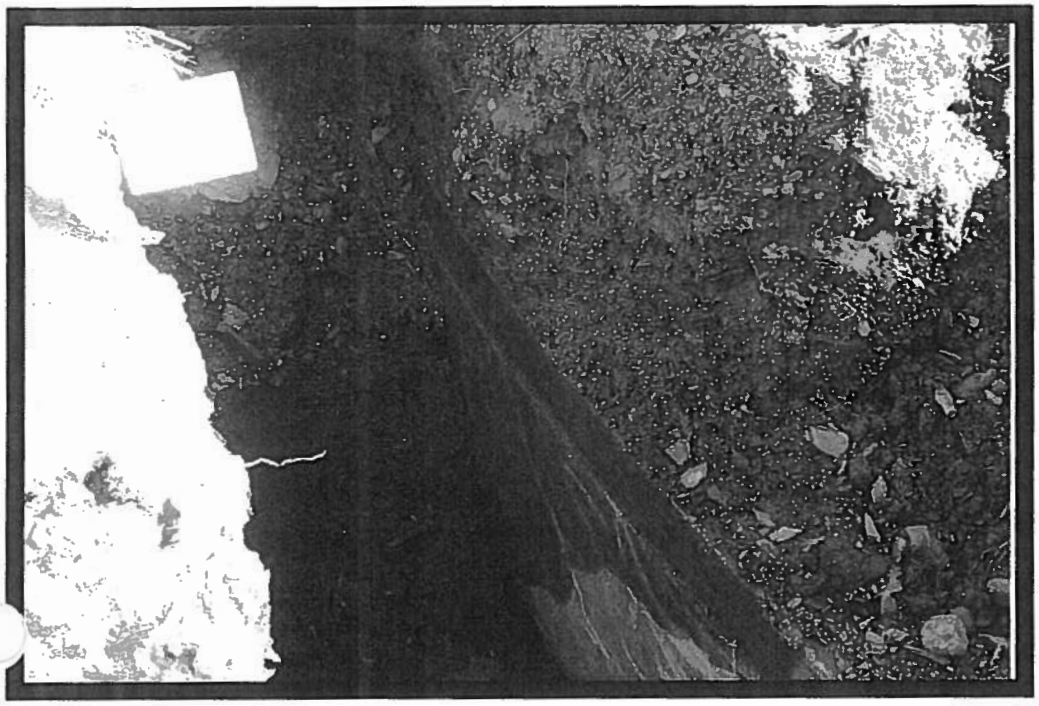
Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA **CY**

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD



AOC No.: TANK 36

Photo No.: 001

Direction of View:
East

Description:
Tank wall.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

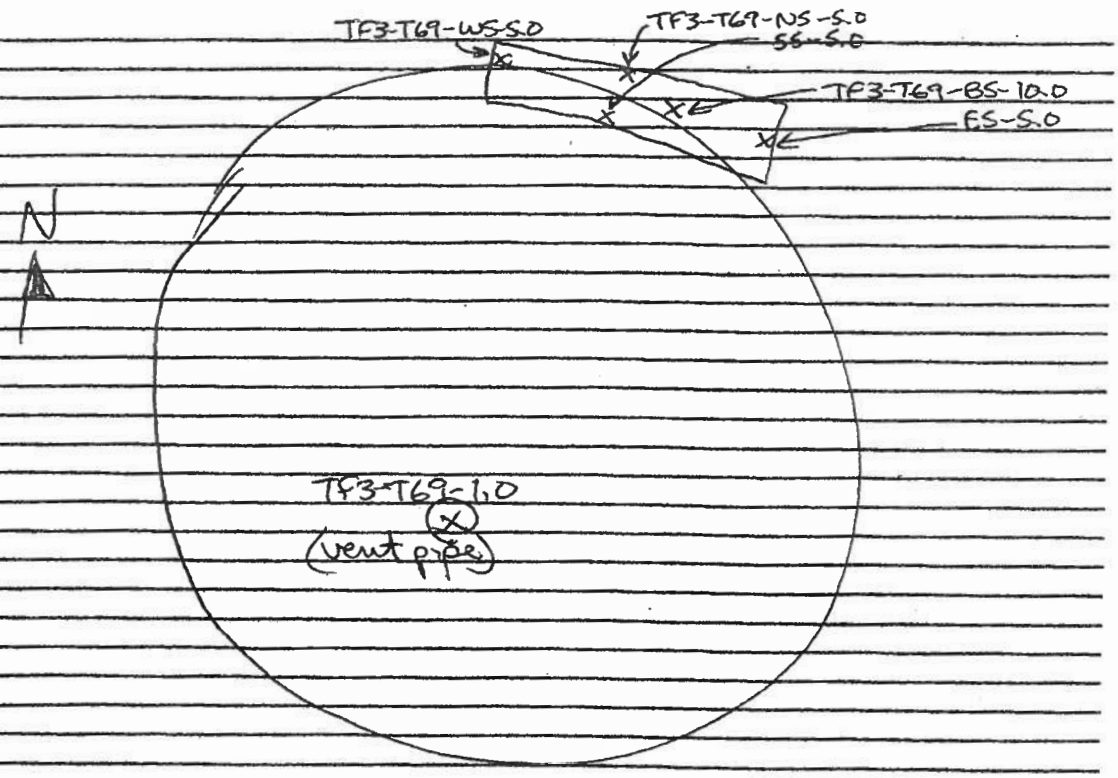
AREA Tank 69

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Fuel storage tank. Pit excavated along tank wall to depth of 10 ft. BGS.

FIELD OBSERVATION



SAMPLING SUMMARY Tank 69

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	ANALYTES (check off site analysis conducted) TPH	VOCs	PAHs	SVOCs	PCBs	Metals	Comments
TP3-T69-	BS-	1.00	11							grey silty sand w/
	ES-	5.0	22							School fragments (fill)
	NS-	5.0	4							
	SS-	5.0	1331	✓						
	WS-	5.0	7							
TP3-T69-		1.0	100	✓						

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

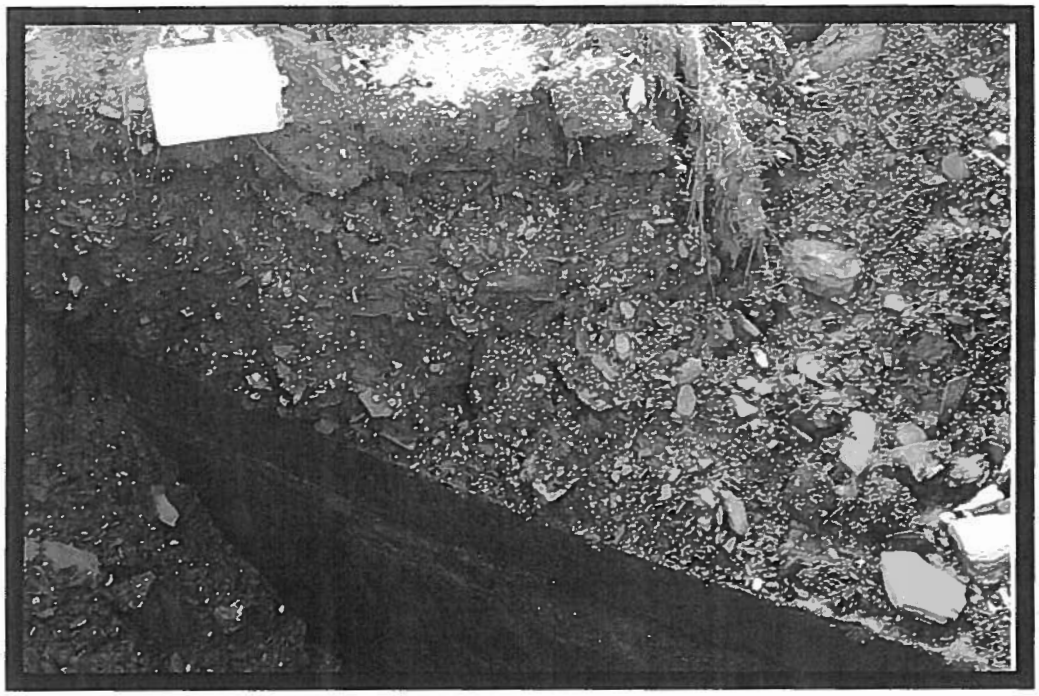
Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD



AOC No.: TANK 69

Photo No.: 001

Direction of View:
South

Description:
Tank wall.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

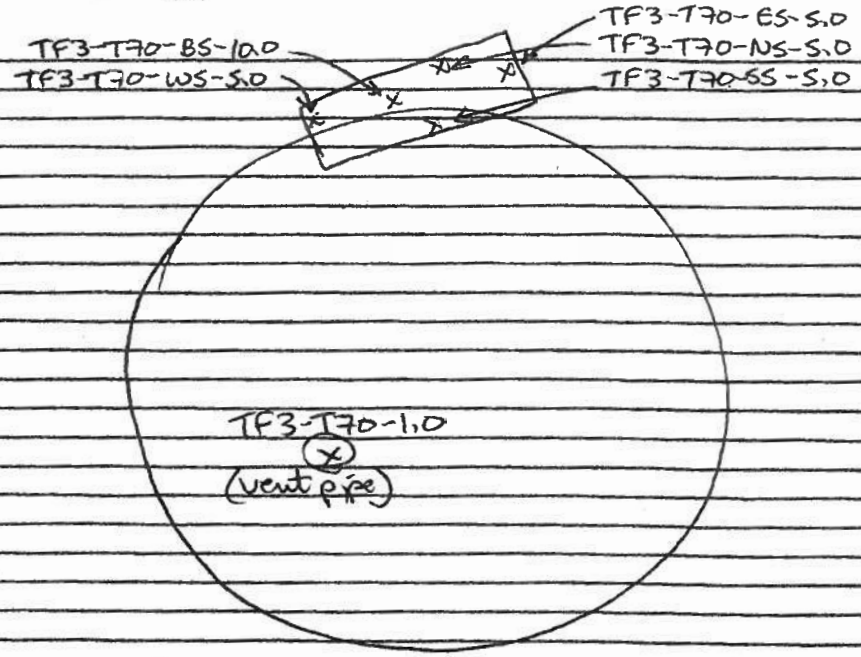
AREA Tank 70

SIZE (approx.)
Length **Width**
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Test pit excavated along the tank wall to depth of 10 ft. BGS.

FIELD OBSERVATION



SAMPLING SUMMARY Tank 70

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TF3-T70-	BS-	10.0	79							grey gravelly sand w/silt
	ES-	5.0	92							(fill material)
	NS-	5.0	88							
	SS-	5.0	69							
	WS-	5.0	90							
TF3-	T70-	1.0	71							

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type fill

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

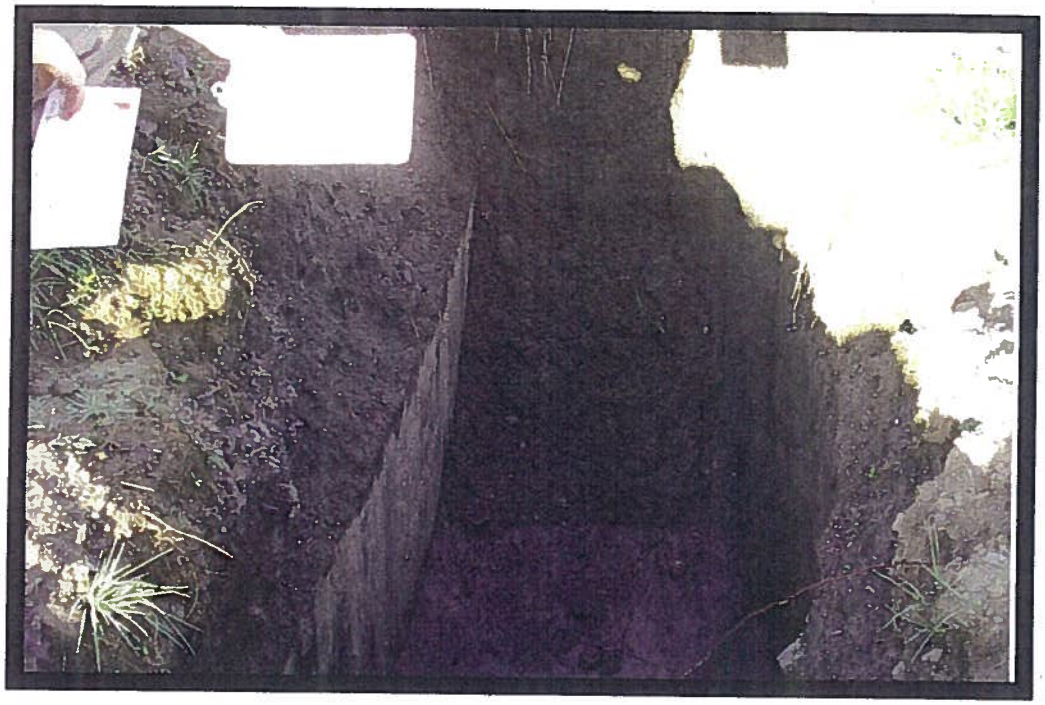
Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☑ No
If so, Estimated Volume NA CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD



AOC No.: TANK 70

Photo No.: 001

Direction of View:
Southwest

Description:
Test Pit 1.

SECTION 1 POSSIBLE SOURCE AREA IDENTIFICATION

SITE Tank Farm 3

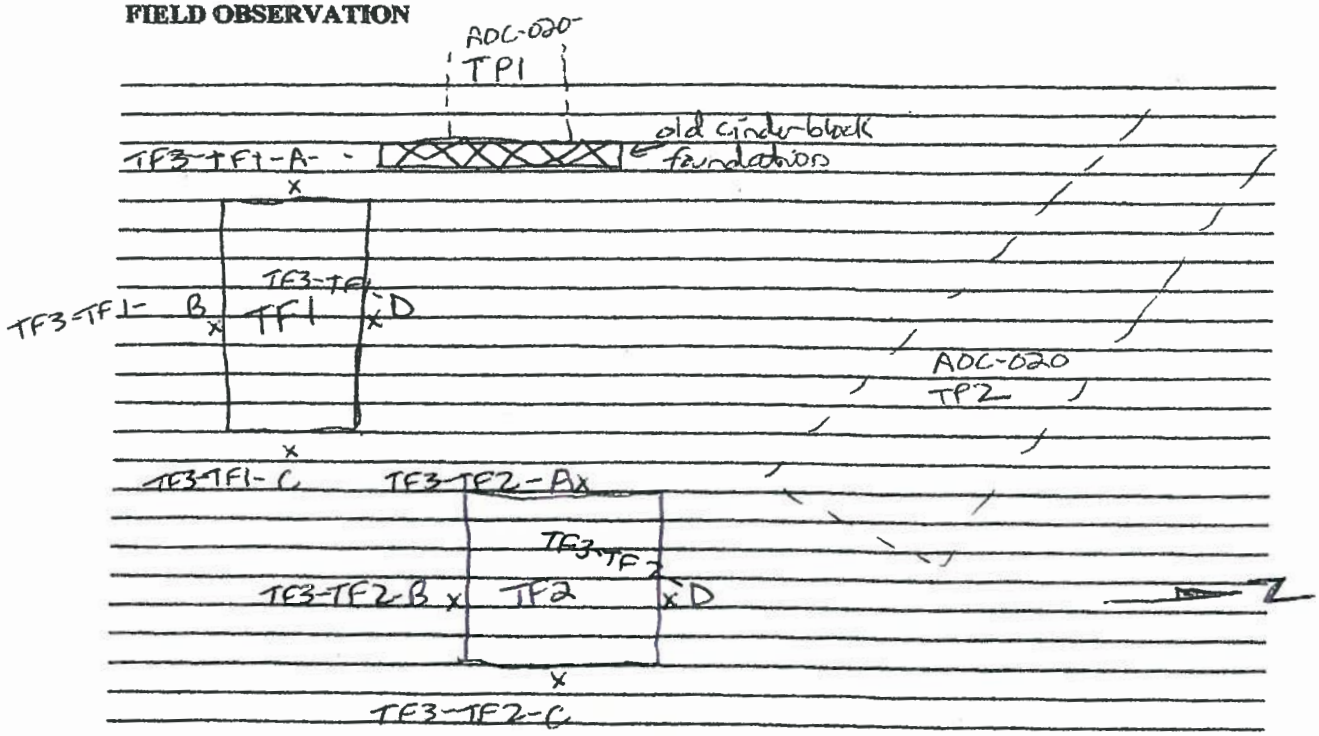
AREA Transformers @ AOC-020

SIZE (approx.)
Length NA **Width** NA
Area

DESCRIPTION OF AREA AND OPERATIONAL USE

Two, non-PCB containing electric transformers on concrete pads sit above ground at AOC-020.

FIELD OBSERVATION



SAMPLING SUMMARY Transformers

Soil Samples

Location
FS – Floor Sample
SW – Sidewall Sample (indicate N S E or W)
SS – Surface Sample (indicate depth ex. 0-6")

***attach sample diagram and photos**

				ANALYTES (check off site analysis conducted)						Comments
Source Area	Sample ID	Sample Depth (ft)	Field Screen TPH result (petroflag)	TPH	VOCs	PAHs	SVOCs	PCBs	Metals	
TF3 –	TF1-A	-1.0						✓		Samples taken in soils @ base of concrete pads
	-B	-1.0						✓		
	-C	-1.0						✓		
	-D	-1.0						✓		
TF3 –	TF2-A	-1.0						✓		
	-B	-1.0						✓		
	-C	-1.0						✓		
	-D	-1.0						✓		

Depth to Groundwater NA

Depth to Bedrock NA

Predominant Soil Type SP-SM; silty sand

Odors Present ☐ Yes ☑ No

Stained Soil Present ☐ Yes ☑ No

Stressed Vegetation Present ☐ Yes ☑ No

Excavated or Stockpiled Material Generated ☐ Yes ☐ No
If so, Estimated Volume NA CY

DESC Tank Farm 3
Melville, RI

Area of Concern Delineation Program

PHOTOGRAPHIC RECORD

AOC No.: Transformers

Photo No.: 001

Direction of View:
South

Description:
Area photo.

APPENDIX B

BORING LOGS/ WELL COMPLETION FORMS

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. RW-301 SHEET 1 of 2 FILE NO. 31288.9 CHKD BY ABU

BORING CO.	D.L. MAHER DRILLING COMPANY	BORING LOCATION	Refer to Exploration Location Plan
FOREMAN	DENNIS DUCHNOWSKI	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	MARK DALPE	DATE START 6/16/97	DATE END 6/17/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

OTHER:

CASING SIZE: 12" ID to 15 feet

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
6/25/97	--	21.6	Well	8 Days

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED			FIELD TESTING PID	FIELD TESTING ODOR	RK
		S-1		0-2		TOPSOIL: Brown, fine to medium SAND,	TOPSOIL		P		ND	N	1
						little+ Silt, little-Organics (roots, veg. matter)	1'±	0.5'	V				2
						changing @ 1'± to tan, fine SAND and SILT			C	Backfill			3
5							SILTY FINE SAND	5'	R				
		S-2		5-7		Tan, fine SAND and SILT			I	Sent	69	ST	
									S	Seal			
						8' ± TOP OF WEATHERED ROCK			E				
								8'	R				
10										10'			
		S-3		10-12		Dark, gray, slightly metamorphosed, highly	DARK GRAY HIGHLY				64	ST	
						weathered SHALE	WEATHERED						
							SHALE		P				
						14'± TOP OF COMPETENT BEDROCK			V				
15									C				4
		S-4		15-17		Light gray, metamorphosed SHALE					105	ST	
									S				
									C				
									R				
20							GRAY		E				
		S-5		20-22		Light gray, metamorphosed SHALE	SHALE		E		36	ST	
									N				
25													
		S-6		25-27		Light gray, metamorphosed SHALE					3.9	SL	
30													
		S-7		30-32		Light gray, metamorphosed SHALE					1.0	SL	
35													
		S-8		35-37		Light gray, metamorphosed SHALE					ND	SL	

REMARKS:

1. Grab samples from the soil/rock cuttings were collected at approximate 5-foot intervals at the depths noted above.
2. Soil headspace screening was conducted employing a Thermoenvironmental Instruments Model 580B Photoionization Detector (PID) equipped with a 10.6 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
3. ST indicates strong odor; N indicates no odor; and SL indicates slight odor.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT Defense Fuel Supply Center Tank Farm 3 Portsmouth, Rhode Island	REPORT OF BORING NO. RW-301 SHEET 2 of 2 FILE NO. 31288.9 CHKD BY ABU

DPTH	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIELD TESTING ODOR	R K
36											
								P			
								V			
								C			
40							LIGHT GRAY				
		S-9		40-42		Light gray metamorphosed SHALE	SHALE	S Filter	ND	SL	
							(METAMORPHOSED)	C Sand			
								R			
								E			
45								E			
		S-10		45-47		Light gray metamorphosed SHALE		N	ND	SL	
50								50'±			
		S-11		50-51		Light gray metamorphosed SHALE		0.4' 50.4' Plug	ND	SL	5
											6
						End of Exploration at 51'±					7
											8
55											
60											
65											

REMARKS:

4. 12" casing seated at 15'±.
5. 40' of 6" diam., .02" slotted, Sch. 40, PVC well screen was placed from 50'± up to 10'± and topped with 10' of solid PVC riser tube. Filter sand was placed up to 8'± and a bentonite seal placed 8'± to 5'±. Native backfill was placed from 5' up to 0.5'±. The well head was secured with a flush mounted 0.8' long steel road box grouted into the surface with concrete.
6. The well was developed for 2 hours by overpumping and by using a double surge block and pump.
7. The boring was advanced using a Barber Dual Rotary Drill Rig using air percussion drilling methods. No significant drilling water was lost in the borehole formation.
8. Three 55-gallon drums of petroleum contaminated soil (PID>10 ppm) was containerized for subsequent off-site disposal.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT: DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-334 SHEET 1 of 1 FILE NO. 31288.9 CHKD BY ABU

BORING CO. GZA DRILLING COMPANY, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER DAVE CAPACCHIONE

BORING LOCATION Refer to Exploration Location Plan
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 3/25/97 DATE END 3/27/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN
CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected
CASING SIZE: 4 t/2" ID HSA From t3 to 33'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
5/29/97		t8.8	OW	2 Months

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/RE	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIELD TESTING FID	RK
		S-1	24/t6	0-2	3-4	Loose, black TOPSOIL, changing @ 0.3'±	TOPSOIL	Con- PVC crete	ND	ND	t
					4-5	to light brown, fine to coarse SAND, some	0.3'	0.5' Backfill			
						Silt, some- Organics (fine roots)	SILTY GRAVELLY	2'± R			
							SAND	Bent I Seal			
5		S-2	24/t6	5-7	4-19	Dense, brown, fine to coarse SAND, some		4'± S	ND	ND	
					23-12	Silt, some fractured Shale		E			
								R			
						t0'± APPARENT TOP OF BEDROCK					
10		S-3	24/18	10-t2	9-9	Medium dense, gray, severly weathered			ND	ND	
					6-4	SHALE	HIGHLY				
							WEATHERED	12'			
		C-t/R-1	60/60	t3-18	REC = t00%	Soft, gray, highly weathered, highly fractured,	SHALE	P			
					RQD = 40%	slightly metamorphosed, with vertical		V Filter			
15						fractures and heavy iron staining on fracture		C Sand			
						surfaces					
								S			
		C-1/R-2	60/36	18-23	REC = 60%	Soft, gray, highly weathered, highly fractured,		C			
					RQD = 27%	slightly metamorphosed, with vertical		R			
20						fractures and heavy iron staining on fracture		E			
						surfaces		E			
								N			
		C-1/R-3	60/55	23-28	REC = 92%	Soft, gray, slightly weathered, highly fractured,					
					RQD = 40%	slightly metamorphosed SHALE, with	23'±				
25						vertical fractures and heavy iron staining on					
						fracture surfaces	SLIGHTLY				
							WEATHERED SHALE				
		C-1/R-4	60/46	28-33	REC = 77%	Soft, gray, slightly weathered, highly fractured,					
					RQD = 18%	slightly metamorphosed SHALE, with					
30						vertical fractures and heavy iron staining on					
						fracture surfaces					
											2
						End of Exploration at 37'±		37'			3

REMARKS:

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.1 parts per million (ppm).
2. Twenty feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 37± feet to 12'±, and topped with t2' of solid PVC riser tube. Filter sand was poured up to 4'± and a bentonite seal was placed from 4'± up to 2'±. The wellhead was secured at grade with a flush mounted, t' long, aluminum curb box grouted in place (surface seal: 2'x2'x4" concrete pad).
3. Approximately 400 gallons of drill water remained in the rock formation upon well completion. One hundred & eighty-five gallons of groundwater was subsequently purged from the well using a bailer.

NOTES: t) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-335 SHEET 1 of 1 FILE NO. 31288.9 CHKD BY ABU

BORING CO. GZA DRILLING COMPANY, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER DAVE CAPACCHIONE

BORING LOCATION Refer to Exploration Location Plan
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 3/27/97 DATE END 3/28/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected

CASING SIZE: 4 1/2" ID HSA From 13 to 33'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
5/29/97		18.8	OW	2 Months

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/RE	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	RK
		S-1	24/24	0-2	2-2	Loose, brown, fine SAND, little Silt, trace	SANDY TOPSOIL	Con- PVC crete	ND	ND	
					2-3	Organics (TOPSOIL)		0.5'			
							SILTY GRAVELLY SAND	R Backfill			
								I			
5		S-2	24/18	5-7	7-22	Dense, gray, fine+ to coarse SAND, little		S	ND	ND	
					21-34	Gravel, trace+ Silt		E			
								8' R			
								Bent Seal			
								8'			
10		S-3	24/22	10-12	18-9	Medium dense, brown/gray, fine to coarse		10'±	ND	ND	
					11-31	SAND, some Silt, changing @ 10.8'± to	TOP OF BEDROCK	P			
						weathered SHALE	11'±	V			
		C-1/R-1	60/32	13-18	REC = 53%	Soft, gray, highly weathered, highly fractured,		C			
					RQD = 20%	slightly metamorphosed SHALE, with	HIGHLY	Filter			
15						vertical fractures, and iron staining on	WEATHERED	S Sand			
						fracture surfaces	SHALE	C			
								R			
		C-1/R-2	60/60	18-23	REC = 100%	Medium hard, gray, moderately weathered,	18'	E			
					RQD = 33%	highly fractured moderately metamorphosed		E			
20						SHALE. Fractures are vertical with iron		N			
						staining on fracture surfaces	MODERATELY				
							WEATHERED				
		C-1/R-3	60/32	23-28	REC=53%	Medium hard, gray, moderately weathered,	SHALE				
					RQD=33%	highly fractured moderately metamorphosed					
25						SHALE. Fractures are vertical with iron					
						staining on fracture surfaces					
		C-1/R-4	60/56	28-33	REC = 93%	Medium hard, gray, moderately weathered,					
					RQD = 67%	moderately fractured metamorphosed					
30						SHALE. 2-2 mm thick quartz veins noted		30'±			
											2
											3
						End of Exploration at 33'±					

REMARKS:

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.1 parts per million (ppm).
2. Twenty feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 30± feet to 10'±, and topped with 10' of solid PVC riser pipe. Filter sand was backfilled up to 8', and a bentonite seal placed from 8'+ up to 6'+. The wellhead was secured at grade with a flush mounted, 1' long, aluminum curb box grouted in place (surface seal: 2'x2'x4" concrete pad).
3. Approximately 225 gallons of drill water remained in the rock formation upon well completion. Sixty-five gallons of groundwater was subsequently purged from the well using a bailer.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA

BORING NO. GZ-335

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-329 SHEET 1 of 2 FILE NO. 31288.9 CHKD BY ABU

BORING CO. GZA DRILLING COMPANY, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER DAVE CAPACCHIONE

BORING LOCATION Refer to Exploration Location Plan
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 3/19/97 DATE END 3/21/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected

CASING SIZE: 4 1/2" ID HSA From 13 to 40'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
3/24/97	0900	17.55	OW	66 Hours

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/RE	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIELD TESTING FID	RK
		S-1	24/12	0-2	5-2	Very loose, brown TOPSOIL, some Leaf,	TOPSOIL	Con- PVC crete	ND	ND	
					2-3	Roots, Organics changing @ 0.3'± to brown	0.3'±				
						SILT, trace+ fine Sand		R Backfill			
							SILTY SAND	I			
5		S-2	24/16	5-7	19-20	Very dense, black, fine to coarse SAND,		S	ND	0.8	
					40-37	some Silt		E			
								6' R Bent Seal			
								8'			
10		S-3	24/19	10-12	15-24	Dense, brown, fine to coarse SAND, little+		10'±	ND	0.2	
					25-37	Silt, trace fine to medium Gravel (fractured	12'±	P			
						shale, quartz and sandstone)	APPARENT TOP	V			
		C-1/R-1	60/60	13-18	REC = 100%	Soft, gray, highly weathered, highly fractured,	OF BEDROCK	C			
					RQD = 40%	slightly metamorphosed SHALE, w/heavy	WEATHERED	Filter			
15						iron staining on fracture surfaces. Fractures	SHALE	S Sand			
						angles are vertical to horizontal		C			
								R			
		C-1/R-2	60/58	18-23	REC = 97%	Soft, gray, moderately weathered, highly	18'	E			
					RQD = 47%	fractured, slightly metamorphosed SHALE		E			
20						w/moderate iron staining on fracture surfaces.		N			
						Fractured angles are vertical to horizontal					
		C-1/R-3	60/60	23-28	REC = 100%	Medium hard, gray, moderately weathered,	SHALE				
					RQD = 60%	highly fractured metamorphosed SHALE,					
25						w/horizontal to vertical fracture angles, and					
						iron staining on fracture surfaces					
		C-1/R-4	60/60	28-33	REC = 100%	Medium hard, gray, slightly weathered,					
					RQD = 87%	moderately fractured metamorphosed					
30						SHALE. Fracture angles are horizontal to					
						vertical and iron staining noted on fracture					
						surfaces					

REMARKS:

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.t parts per million (ppm).
2. Thirty feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 40± feet to t0'±, and topped with t0 feet of solid PVC riser pipe. Filter sand was poured up to 8 feet, and a bentonite seal placed from 8'+ up to 6'+. The wellhead was secured at grade with a 5 foot long steel guard pipe with locking cover grouted in place (surface seal: 2'x2'x4" concrete pad).
3. Approximately 100 gallons of drill water remained in the rock formation upon well completion. All 100 gallons was subsequently purged from the well using a bailer.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT Defense Fuel Supply Center Tank Farm 3 Portsmouth, Rhode Island	REPORT OF BORING NO. GZ-329 SHEET 2 of 2 FILE NO. 31288.9 CHKD BY ABU

DPTH	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIELD TESTING FID	RK
33		C-1/R-5	60/	33-38	REC =	Medium hard, gray, slightly weathered,					
					RQD =	moderately fractured, metamorphosed					
						SHALE, w/horizontal to vertical fracture					
						angles, and iron staining on fracture surfaces	SHALE				
		C-1/R06	24/24	38-40	REC = 100%	Medium hard, gray, slightly weathered,					2
					RQD = 83%	moderately fractured, metamorphosed		40'			3
40						SHALE, w/horizontal to vertical fracture					
						angles, and iron staining on fracture surfaces					
						End of Exploration at 40'					

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-330 SHEET 1 of 1 FILE NO. 31288.9 CHKD BY ABU

BORING CO.	GZA DRILLING COMPANY, INC.	BORING LOCATION	Refer to Exploration Location Plan
FOREMAN	CHRIS LENLING	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	DAVE CAPACCHIONE	DATE START 3/17/97	DATE END 3/18/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected From 13'-30'

CASING SIZE: 4 1/2" ID HSA

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
3/19/97		16.44	OW	18 Hrs

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIELD TESTING FID	RK
		S-1	24/8	0-2	2-11	Dense, brown TOPSOIL, changing at .3'± to	0.3' TOPSOIL	Con- PVC crete	ND	ND	1
					19-10	gray, fine to medium SAND, some Silt, trace+		Bent. Seal			
						SHALE	SILTY GRAVELLY	1' Riser			
							SAND	3'±			
5		S-2	24/14	5-7	3-5	Medium dense, brown/gray, fine to medium		5'	ND	ND	
					8-20	SAND, some Silt, some fractured Quartz/					
						Shale		P			
								V			
								C			
10		S-3	24/19	10-12	25-16	Medium dense, brown/gray, fine to medium		Filter	ND	ND	
					12-15	SAND, some Silt, some fractured		S Sand			
						Quartz/Shale		C			
	Min./Ft					13'± TOP OF BEDROCK		R			
	5	C-1/R-1	60/12	13-18	REC: 20%	Soft gray, moderately weathered, highly		E			
15	4				RQD: 0%	fractured, slightly metamorphosed SHALE		E			
	3							N			
	4										
	4						MODERATELY				
	4	C-1/R-2	60/48	18-23	REC: 80%	Soft gray, moderately weathered, moderately	WEATHERED				
20	5				RQD: 33%	fractured, slightly metamorphosed SHALE,	SHALE				
	4					with iron staining on fracture surfaces and 2					
	3					mm thick intrusive quartz veins					
	4										
	4	C-1/R-3	23/12	23-25	REC: 50%	Soft gray, moderately weathered, moderately					
25	6				RQD: 33%	fractured, slightly metamorphosed SHALE					
	5	C-1/R-4	60/60	25-30	REC: 100%	with iron staining on fracture surfaces					
	4				RQD: 40%	Soft gray, moderately weathered, moderately					
	3					fractured, slightly metamorphosed SHALE					
	4					with iron staining on fracture surfaces					
30	4										2
						End of Exploration at 30'±					3

REMARKS:

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.1 parts per million (ppm).
2. Twenty-five feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 30± feet to 5'±, and topped with 5 feet of solid PVC riser pipe. Filter was backfilled up to 3 feet, and a bentonite seal placed from 3'+ up to 1'+. The wellhead was secured at grade with a flush mounted, 1' long, aluminum curb box grouted in place (surface seal: 2'x2'x4" concrete pad).
3. Approximately 100 gallons of drill water remained in the rock formation upon well completion. All 100 gallons was subsequently purged from the well using a bailer.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-331 SHEET 1 of 1 FILE NO. 31288.9 CHKD BY ABU

BORING CO. GZA DRILLING COMPANY, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER DAVE CAPACCHIONE

BORING LOCATION Refer to Exploration Location Plan
GROUND SURFACE ELEV. _____ DATUM _____
DATE START 4/4/97 DATE END 4/7/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected

CASING SIZE: 4 1/2" ID HSA From 13'-30'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
5/29/97		13.6	OW	7 Weeks

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIID	RK
		S-1	24/24	0-2	6-8	Medium dense, brown TOPSOIL, changing @	0.3' TOPSOIL	Con- PVC crete	1.0	15	1
					6-7	0.3'± to brown, fine to coarse SAND, some		Bent. Seal			
						Silt, little SHALE	SILTY SAND	1' Riser			
								3'±			
5		S-2	24/24	5-7	18-13	5' APPARENT TOP OF BEDROCK		5'	1.1	6.0	
					21-22	Dense, gray/brown, highly weathered SHALE	5'				
								P			
							SEVERELY	V			
							WEATHERED	C			
10		S-3	14/14	10-11.3	14-76	REFUSAL: very dense, gray/brown,	SHALE	Filter	0.8	8.0	
					100/2"	weathered SHALE		S Sand			
								C			
								R			
								E			
15		C-1/R-1	60/58	15-20	REC: 97%	Soft, gray, highly weathered, highly fractured,	15'±	E			
					RQD: 47%	slightly metamorphosed SHALE, with heavy		N			
						iron staining on fracture surfaces. Fracture					
						angles are vertical to 10° from vertical					
							HIGHLY				
20		C-1/R-2	60/60	20-25	REC: 100%	Soft, gray, highly weathered, highly fractured,	WEATHERED				
					RQD: 33%	slightly metamorphosed SHALE, with heavy	SHALE				
						iron staining on fracture surfaces. Fracture					
						angles are vertical to 10° from vertical					
25		C-1/R-3	60/60	25-30	REC: 100%	Soft, gray, highly weathered, highly fractured,					
					RQD: 27%	slightly metamorphosed SHALE, with heavy					
						iron staining on fracture surfaces. Fracture					
						angles are vertical to 10° from vertical					
30											2
						End of Exploration at 30'±					3

REMARKS:

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.1 parts per million (ppm).
2. Twenty-five feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 30± feet to 5'±, and topped with 5' of solid PVC riser tube. Filter sand was poured up to 3'± and a bentonite seal placed from 3'± up to 1'±. The wellhead was secured at grade with a flush mounted, 1' long, aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
3. Approximately 50 gallons of drill water remained in the rock formation upon well completion. All 50 gallons was subsequently purged from the well using a bailer.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-332 SHEET 1 of 1 FILE NO. 31288.9 CHKD BY ABU

BORING CO.	GZA DRILLING COMPANY, INC.	BORING LOCATION	Refer to Exploration Location Plan
FOREMAN	CHRIS LENLING	GROUND SURFACE ELEV.	DATUM
GZA ENGINEER	DAVE CAPACCHIONE	DATE START 3/18/97	DATE END 3/19/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected From 13'-25'

CASING SIZE: HSA 4 1/2" ID to 12.5'±

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
5/29/97		15.1	OW	2 Months

DEPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIELD TESTING FID	RK
		S-1	24/20	0-2	3-3	Medium dense, brown, TOPSOIL changing	0.3' TOPSOIL	Con-	ND	ND	
					9-29	at 0.3'± to brown/gray SILT, some fine to		crete			
						medium SAND, trace Roots, Quartz	SILTY GRAVELLY	Bent.			
						Fragments	SAND	1			
								3'±			
5		S-2	12/6	5-6	9-14	Very dense, brown, fine to medium SAND,		PVC Riser	ND	ND	
					100/<1"	some+ Silt, little fractured Quartz		5'			
								P			
								V			
						9' APPARENT TOP OF BEDROCK		C			
10		S-3	24/20	10-12	8-20	Very dense, gray, severely weathered SHALE	9'±		ND	ND	
					54-39		SEVERELY	Filter S Sand			
	Min/Ft.						WEATHERED	C			
	4	C-1/R-1	60/58	13-18	REC = 97%	Soft, gray, highly weathered, moderately	SHALE	R			
	4				RQD = 53%	fractured, slightly metamorphosed SHALE,	13'	E			
15	4					with iron staining on fracture surfaces		E			
	3							N			
	4										
	5	C-1/R-2	60/60	18-23	REC = 100%	Soft, gray, highly weathered, moderately					
	4				RQD = 60%	fractured, slightly metamorphosed SHALE,	HIGHLY				
20	3					with iron staining on fracture surfaces	WEATHERED				
	4						SHALE				
	4										
25											2
						End of Exploration at 25'±					3
30											

REMARKS:

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.1 parts per million (ppm).
2. Twenty feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 25± feet to 5'±, and topped with 5' of solid PVC riser tube. Filter sand was poured up to 3'±, and a bentonite seal placed from 3'± up to 1'±. The wellhead was secured at grade with a flush mounted, 1' long, aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
3. Approximately 75 gallons of drill water remained in the rock formation upon well completion. All 75 gallons was subsequently purged from the well using a bailer.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECH/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3 PORTSMOUTH, RHODE ISLAND	REPORT OF BORING NO. GZ-333 SHEET 1 of 1 FILE NO. 31288.9 CHKD BY ABU

BORING CO. GZA DRILLING COMPANY, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER DAVE CAPACCHIONE

BORING LOCATION Refer to Exploration Location Plan
GROUND SURFACE ELEV. DATUM
DATE START 4/2/97 DATE END 4/3/97

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 IN

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 LB HAMMER FALLING 24 IN. OTHER: NX Type Rock Core Collected

CASING SIZE: 4 1/2" ID HSA to 12.5'± From 13 to 33'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
5/29/97		19.6	OW	2 Months

DPTH (FT)	CASING BLOWS	SAMPLE NO	PEN/REC	DEPTH (FT)	BLOWS/6"	SAMPLE DESCRIPTION BURMISTER CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED			FIELD TESTING PID	FIID	R K
		S-1	24/24	0-2	2-2	Loose, brown TOPSOIL, changing @ 0.3'±	0.3' TOPSOIL	Con-	PVC	crete	1.2	0	1
					3-10	to fine to medium SAND, some+ Silt		0.5'					
							SILTY GRAVELLY		R	Backfill			
							SAND	4'	I				
5		S-2	24/19	5-7	24-20	Dense, brown/black, fine to coarse SAND,		Bentonite	S	Sand	98	540	
					15-11	some Silt, trace fine to coarse Gravel		6'	E				
						(including fractured SHALE)			R				
										8'			
									P				
10						APPARENT TOP OF BEDROCK			V		55	240	
		S-3	24/24	t0-t2	8-13	Very dense, gray, weathered SHALE	10'±		C				
	Min/Ft.				45-46								
	5	C-1/R-1	60/60	t3-18	REC = 100%	Soft, gray, highly weathered, highly fractured,	HIGHLY		S				
	5				RQD = 47%	slightly metamorphosed SHALE, with	WEATHERED		C	Filter			
15	4					fracture angles being vertical, and heavy	SHALE		R	Sand			
	3					iron staining on fracture surfaces			E				
	4								E				
	5	C-t/R-2	60/60	t8-23	REC = 100%	Medium hard, gray, highly weathered, highly			N				
					RQD = 40%	fractured, metamorphosed SHALE with							
20						with vertical fractures, and heavy iron							
						staining on fracture surfaces							
		C-t/R-3	60/60	23-28	REC = 100%	Medium hard, gray, moderately weathered,							
					RQD = 60%	highly fractured metamorphosed SHALE,	23'±						
25						with vertical fractures, and iron staining on							
						fracture surfaces	MODERATELY						
							WEATHERED						
		C-1/R-4	60/60	28-33	REC = t00%	Soft, gray, moderately weathered, highly	SHALE						
					RQD = 27%	fractured, metamorphosed SHALE, with							
30						vertical fractures and iron staining on							
						fracture surfaces							
													2
													3
						End of Exploration at 33'±							4

1. Soil headspace screening was performed, employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID) and a Thermoenvironmental Model 580B photoionization detector (PID) equipped with a 10.6 eV lamp. ND indicates not detected above the instrument detection limit of 0.1 parts per million (ppm).
2. Twenty-five feet of .02" slotted, 2.0" Diam., Sch. 40, PVC wellscreen was placed from 33'± feet to 8'±, and topped with 8 feet of solid PVC riser pipe. Filter sand was backfilled up to 6 feet, and a bentonite seal placed from 6'+ up to 4'+. The wellhead was secured at grade with flush mounted, 1' long, aluminum curb box grouted in place (surface seal: 2'x2'x4" concrete pad).
3. Approximately 150 gallons of drill water remained in the rock formation upon well completion. Thirty gallons of groundwater was subsequently purged from the well using a bailer.
4. One 55-gallon drum of petroleum contaminated soil (PID>10 ppm) was containterized for subsequent off-site disposal.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES; TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED; FLUCTUATIONS OF GROUNDWATER TABLE MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-301
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 10/31/94 DATE END 10/31/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-1-94	0830	DRY	OW	19 HOURS
11-4-94	0830	DRY	OW	4 DAYS
11-21-94	1210	18.7	OW	20 DAYS
12-15-94	1430	13.7	OW	6 WEEKS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/16	0.2-2.2	7-10	Medium dense, brown, coarse to fine+ SAND, some +Silt, some Gravel	SILTY GRAVELLY SAND	PVC RISER; Grout	0.6	4.2	SL	1 2 3
						14-10							
5			S-2	24/6	5-7	8-27	Very dense, gray, coarse to fine+ SAND and Gravel, little+ Silt						
						37-30			6' Bent. Seal	ND	ND	N	
							APPARENT TOP OF BEDROCK	8'	7'				
10			S-3	20/20	10-11.7	5-16	Weathered SHALE	WEATHERED SHALE	9.5'	ND	ND	N	
						50-100/2"							
15									PVC SCREEN; Filter Sand				
20									19.5'				4
							End of Exploration at 20'+						
25													
30													
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor, SL=slight odor
3. Slight petroleum-like odor noted from 0-2'+.
4. 10' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 19.5' up to 9.5'+ and topped with 9.5'+ of solid PVC riser tube. Filter sand was poured up to 7'+ and a bentonite seal placed from 7' up to 6'+. Bentonite/cement grout was placed from 6' up to the surface. The well head was secured at grade with a flush mounted, 1' long, aluminum curb box grouted in place. (surface seal: 2'x2'x4" concrete pad).

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-301

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-302 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/4/94 DATE END 11/7/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID to 14 OTHER: NX rock core from 14 to 34'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/7/94	0730	17.3	OW	2.5 DAYS
11/8/94	0730	17.5	OW	3.5 DAYS
11/21/94	1300	17.6	OW	16.5 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/14	0-2	5-5	Medium dense, brown/gray, coarse to fine+ SAND, some Silt, little-Gravel (SHALE)	SILTY GRAVELLY SAND	PVC RISER; Grout	ND	ND	N	1 2
						6-14							
5			S-2	24/12	5-7	8-2	Loose, tan SILT, some+ fine Sand, little- fine Gravel (SHALE)		5' Bent. Seal	ND	1.0	N	
						3-4			6'				
									8'				
10			S-3	24/17	10-12	34-16	APPARENT TOP OF BEDROCK			ND	ND	N	
						19-10	Dense, gray, coarse to fine+ SAND AND GRAVEL (SHALE), little Silt, changing at 11'+ to highly weathered SHALE	11'+					
	CORE MIN	TIME FT.											
15	3.0		C-1/R-1	60/60	14-19	RQD=17%	Soft, highly weathered, fractured (horiz. fractures with iron staining) gray SHALE changing at 17'+ to gray, thick conglomerated zones)	SHALE/SCHIST/CONGLOMERATE	SCREEN; Filter Sand				
	2.5					REC=100%							
	2.5												
	3.0												
	3.0												
20	3.0		C-1 R-2	60/60	19-24	RQD=50%							
	3.0					REC=100%							
	4.0												
	3.0												
	2.5												
25	2.5		C-1/R-3	60/55	24-29	RQD=40%	Very soft, highly weathered, highly fractured (iron stained), gray SHALE						
	3.0					REC=92%							
	2.5												
	2.5												
	3.0												
30	3.0		C-1/R-4	60/60	29-34	RQD=32%	Medium hard, slightly weathered slightly fractured (horiz. to 10° fractures angles, slight Fe, Mn stained fracture surfaces, slightly metamorphosed SHALE		33'				3 4 5
						REC=100%							
35							End of Exploration at 34'+						

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N=No odor
3. No visual/olfactory evidence of contamination encountered.
4. 25' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 33' to 8' and topped with 8' of solid PVC riser tube. Filter sand was poured up to 6' and a bentonite seal placed from 6' to 5' (hydrated prior to grout placement). Bentonite/cement grout was placed from 5' to the surface. The wellhead was was secured with a flushmounted, 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
5. Approximately 50 gallons volume of drill water remained in the formation upon completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-302

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-303 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 10/28/94 DATE END 10/31/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
10-31-94	0730	14	OW	1 DAY
11-1-94	0830	13.0	OW	2 DAYS
11-21-94	1400	10.5	OW	23 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION Burmister CLASSIFICATION	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/11	0.2-2.2	7-10	Medium dense, tan, coarse to fine+ SAND and Silt, little Gravel	SILTY GRAVELLY SAND	PVC RISER; Grout	ND	ND	N	1
						6-8							2
							APPARENT TOP OF BEDROCK	4'					
5			S-2	24/21	5-7	10-20	Dense, gray, highly weathered SHALE			ND	ND	N	
						20-27			6' Bent. Seal				
									7'				
									9.5'				
10			S-3	3/2	10-10.3	100/3"	REFUSAL: Dense, gray, highly weathered SHALE	HIGHLY WEATHERED SHALE		ND	ND	N	
									PVC SCREEN; Filter Sand				3
			S-4		17-19	GRAB				38	880	M	
									24.5'				4
25							End of Exploration at 25'+						5
30													
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N=No odor, M=Moderate odor.
3. Petroleum-like odor noted at 15'± (soil cuttings).
4. 15' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 24.5' up to 9.5'+ and topped with 9.5'+ of solid PVC riser tube. Filter sand was poured up to 7'+ and a bentonite seal placed from 7' up to 6'+ (hydrated prior to grout placement). Bentonite/cement grout was placed from 6' up to the ground surface. The wellhead was secured with a flushmounted, 1' long aluminum curb box grouted into the surface with concrete (surface seal: 2'x2'x4" concrete pad).
5. Containerized approx. 50 gal. volume of contaminated soil cuttings (PID > 10 ppm).

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-303

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-304
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/16/94 DATE END 11/17/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID TO 15.6' OTHER: NX ROCK CORE FROM 15.6 TO 25.6 FEET

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/17/94	0830	18'	15'	17 HOURS
11/21/94	1400	17.9	OW	4.5 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/16	0-2	10-17	Medium dense, tan/gray, coarse to fine± SAND littel+ Gravel, little Silt	SILTY GRAVELLY SAND	PVC RISER; Grout; 2' Bent. Seal; 3'	ND	0.2	N	1 2
						12-9							
5			S-2	24/20	5-7	8-17	Medium dense, gray, coarse to fine± SAND and Gravel, little+ Silt		5' PVC RISER	ND	ND	N	
						11-20							
							APPARENT TOP OF BEDROCK						
10								10'					
15			S-3	7/4	15-15.6	55-100/1"	REFUSAL: Very dense, gray SHALE	WEATHERED SHALE					
			C-1/R-1	60/60	15.6-20.6	RQD=7%	Moderately hard, moderately weatered highly fractured (slight Fe staining on fracture surfaces), light gray metamorphosed SHALE with two 6" thick layers of weathered SCHISTOSE Zones Fracture angles are horizontal to vertical with increase Fe staining in R-2.			ND	ND	N	
						REC=100%							
20			C-1/R-2	60/60	20.6-25.6	RQD=50%							
						REC=100%							
25							End of Exploration at 25.6'		25'+				3 4 5
30													
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument limit of 0.1 ppm.
2. N = no odor
3. No visual olfactory evidence of contamination encountered.
4. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 25.0' up to 5.0' and topped up with 5' of solid PVC riser tube. Filter sand was poured up to 3'+ and a bentonite seal placed from 3' up to 2'+. Bentonite/cement grout was placed from 2' up to the surface. The wellhead was secured with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal; 2'x2'x4" concrete pad).
5. Approximately 50 gallons of drill water remained in the formation upon completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-304

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-305 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/14/94 DATE END 11/15/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID TO 11' OTHER: NX ROCK CORE FROM 11 TO 29 FEET

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/15/94	0700	16.4	18	18 HOURS
11/21/94		15.9	OW	6 DAYS

DEPTH	CASING BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION Burmister CLASSIFICATION	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/18	0-2	5-10	Medium dense, gray/brown, coarse to fine + SAND, some Silt, some Gravel		PVC RISER; Grout	ND	0.8	N	1
					11-21							2
5		S-2	24/16	5-7	10-12	Dense, tan/gray, coarse to fine+ SAND and Gravel, little+ Silt	SILTY GRAVELLY SAND	5' Bent. Seal; 6'	ND	ND	N	
					36-21							
	CORE TIME MIN/FT.							8.7'+				
10		S-3	13/13	10-11.1	14-18-100/1"	APPARENT TOP OF BEDROCK			ND	ND	N	
	5.0	C-1/R-1	24/24	11-13	RQD=0%	REFUSAL: Very dense, dark gray, coarse to fine SAND and Gravel, little Silt changing at 11'± to SHALE	11' SHALE					
	5.0				REC=100%							
	4.0	C-1/R-2	24/12	13-15	RQD=0%			PVC SCREEN; Filter Sand				
	3.0				REC=50%							
15	3.0	C-1/R-3	12/12	15-16	RQD=0%	Soft, weathered, highly fractured, slightly metamorphosed, gray SILT/SAND Stone. Heavy Fe/Mn staining on fracture surfaces. Fracture angles are horizontal to 90°	15' SAND/SILT STONE					
	3.5	C-1/R-4	24/14	16-18	RQD=0%							
	3.0				REC=58%							
	4.0	C-1/R-5	42/42	18-21.5	RQD=29%	Moderately hard, weathered, slight fractured, light gray, metamorphosed SHALE/PHYLLITE. Some 2"-4" thick conglomerated zones (1-3 mm diam. in clusions). Fracture angles are horizontal to 30°.	18' SHALE/PHYLLITE					
	4.0				REC=100%							
20	4.5											
	4.0	C-1/R-6	54/44	21.5-26	RQD=37%							
	3.5				REC=81%							
	3.5											
	3.5											
25	4.0											
		C-1/R-7	36/36	26-29	RQD=84%	Moderately hard, fresh, slightly fractured, dark gray/black, slightly metamorphosed SHALE. Some "Slaty" texture	26' SLATY SHALE	28.7'+				3
					REC=100%							4
												5
30						End of Exploration at 29'±						
35												

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. No evidence of contamination observed (visual olfactory).
4. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 28.7' up to 8.7'+ and topped with 8.7'+ of solid PVC riser tube. Filter sand was poured up to 6'± and a bentonite seal placed from 6' up to 5'+. Bentonite/cement grout was placed from 5' up to the surface. The wellhead was secured at grade with a flush mounted 1' long aluminum curb box grouted in place (surface seal: 2'x2'x4" concrete pad).
5. Approximately 750 gallons of drill water remained in the formation upon completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-305

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-306 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/15/94 DATE END 11/16/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID TO 12.5' OTHER: NX ROCK CORE FROM 12.5 TO 34.5 FEET

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/21/94		27.8	OW	5 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/18	0-2	14-17	Medium dense, brown, coarse to fine SAND, little Gravel, little Silt, trace+ roots (TOP SOIL) changing at 1'± to gray, coarse to fine+ SAND, some Silt, some Gravel	TOPSOIL		0.4	3.8	N	1 2
						12-22		1' FILL					
5			S-2	24/12	5-7	12-17	Dense, gray, coarse to fine+ SAND, some+ Gravel, little Silt, trace+ brick (FILL)		PVC RISER Grout	0.2	1.0	N	
						22-41							
	CORE TIME MIN/FT.							8' SILTY GRAVELLY SAND					
10			S-3	24/14	10-12	30-20	Dense, coarse to fine+ SAND and Gravel, little+ Silt		10' Bent. Seal	ND	ND	N	
						16-20			11'				
							APPARENT TOP OF BEDROCK						
	3.0	C-1/R-1		48/4	12.5-16.5	RQD=0%	Soft, highly fractured, moderately weathered, light gray, slightly metamorphosed SHALE. Fracture angles are horizontal to 30°. Fe/Mn staining on fracture surfaces	12.5' SHALE	13.3'				
	3.0					REC=8%							
	2.5								PVC SCREEN				
15	2.5												
	3.0												
	3.0	C-1/R-2		60/46	16.5-21.5	RQD=10%	Moderately hard, fractured, weathered, metamorphosed, light gray SHALE changing at 23'± to moderately hard, fractured, slightly weathered, light gray SHALE/PHYLLITE with some conglomerated zones (6-12" thick). Congolmerate inclusions are round to sub-rounded. Fracture angles are horizontal to vertical with heavy Fe staining on fracture surfaces.		Filter Sand				
	3.0					REC=77%							
	3.0												
20	3.0												
	3.0												
	3.0	C-1/R-3		60/52	21.5-26.5	RQD=25%							
	3.0					REC=87%		23'					
25	3.0												
	3.0	C-1/R-4		60/60	26.5-31.5	RQD=50%							3
	3.0					REC=100%		SHALE PHYLLITE					
	3.0												
30	3.0												
	3.0	C-1/R-5		36/36	31.5-34.5	RQD=69%	Moderately hard, very slightly fractured, slightly weathered, dark gray/black SLATE. Slight Fe staining on fracture surfaces. Fracture angles are horizontal to 80°.	31' SLATE	33.3'				
	3.0					REC=100%							
	3.0												
	1.5												4 5
35							End of Exploration at 34.5'±						

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. Petroleum-like odor noted in rock sample at 26'±.
4. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 33.3' up to 13.3' and topped with 13.3'± of solid PVC riser tube. Filter sand was poured up to 11'± and a bentonite seal placed from 11'± up to 10'. Bentonite/cement grout was placed from 10' up to the surface. The well head was secured at grade with a flush mounted, 1' long aluminum curb box grouted in place (surface seal: 2'x2'x4" concrete pad).
5. Approximately 300 gallons of drill water remained in the formation upon completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-307
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER STEVEN KLINE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/10/94 DATE END 11/10/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3 3/4" HSA to 16' OTHER: NX ROCK CORE FROM 16 TO 31'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-10-94		23	OW	0 MINUTES
11-15-94		24.7	OW	4.5 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/21	0-2	3-9	Medium dense, Brown SILT and fine Sand changing after 4" to brown fine SAND, some Gravel, little Silt	TOP SOIL		ND	ND	N	1 2
						14-12		0.5					
								SILTY GRAVELLY SAND	PVC RISER; Grout 4'; Bent. Seal 5'				
5			S-2	24/20	5-7	11-20	Very Dense, dark gray, fine to coarse SAND and Gravel, trace Silt (some lens of higher Silt content)			ND	ND	N	
						30-75	APPARENT TOP OF BEDROCK		6'				
								8'					
10			S-3	24/23	10-12	8-8	Medium dense, dark grey, highly weathered SHALE (flocks of Fe & Graphite) Silty consistency changing to soft rock which breaks along clevages	SHALE		ND	ND	SL	
						8-17							
	CORE TIME MIN/FT.							14'					
15			S-4	9/7	15-15.8	36-100/3"	Soft grey, highly weathered SCHIST highly fractured, with iron staining and quartz granulas	SCHIST	PVC SCREEN; Filter Sand	ND	ND	N	
			C-1 R-1	60/60	16-21	RQD=2%							
						REC=100%							
20	2.0		C-1/ R-2	60/60	21-26	RQD=33%	Soft, gray SANDSTONE (iron staining at Fractures) changes to dark gray, SILTSTONE at 24'	21' SANDSTONE 24'					
	2.0					REC=100%							
	1.5												
25	1.5												
	2.5												
	3.0		C-1/ R-3	60/60	26-31	RQD=20%		SILTSTONE					
	1.5					REC=100%							
	2.5												
	2.5												
30	2.0								31'				3 4
							End of Exploration at +31'						
35													

REMARKS:
1. Soil head space screening was performed employing a HNU Systems model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N=No odor, SL=Slight odor.
3. 25' or .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 31' up to 6' and topped with with 6' of solid PVC riser tube. Filter sand was poured up to 5' and a bentonite seal placed from 4'+ up to 5' (hydrated prior to grout placement). Bentonite/cement grout was placed from 4' up to ground surface The well head was secured with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
4. Approximately 100 gallons of drill water lost to the formation.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-307

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-308 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/03/94 DATE END 11/04/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-07-94	0815	21.3	OW	3 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION Burmister CLASSIFICATION	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/15	0-2	10-8	Medium dense, brown, coarse to fine+ SAND, some- Silt, little+ Gravel	SILTY GRAVELLY SAND	PVC RISER; Grout	ND	ND	N	1
						6-6							2
5			S-2	24/18	5-7	11-10	Medium dense, brown, gray, coarse to fine+ SAND, some- Gravel, some- Silt			ND	ND	N	
						9-13			6' Bent. Seal; 7'				
10			S-3	24/14	10-12	6-11	Medium dense, brown, gray, coarse to fine+ SAND, some- Gravel, some- Silt		9.5' PVC SCREEN	ND	ND	N	
						17-7							
15			S-4	24/20	15-17	5-8	Medium dense, gray, coarse to fine+ SAND, some- Silt, little+ Gravel		Filter Sand	ND	ND	N	
						21-15							
20			S-5	24/15	20-22	6-5	Medium stiff, clayey SILT, some- coarse to fine SAND, trace+ Gravel	19' SANDY CLAYEY SILT		ND	ND	N	
						2-2							
									24.5'+				3
25							END OF EXPLORATION AT 25'+						4
30													
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor, SL=slight odor.
3. 15' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 24.5' up to 9.5'+ and topped with 9.5'+ of solid PVC riser tube. Filter sand was poured up to 7'+ and a bentonite seal placed from 7' up to 6'+. Bentonite/cement grout was placed from 6' up to the surface. The wellhead was secured with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
4. No visual/olfactory evidence of contamination.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-308

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-309
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 11/02/94 DATE END 11/03/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID to 16.5' OTHER: NX ROCK CORE FROM 16.5 TO 31.5'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-04-94	0800	15.7	OW	19 HOURS
11-21-94		27.5	OW	2 WEEKS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/18	0-2	4-7	Medium dense, tan/brown, coarse to fine+ SAND, some- Silt, trace+ Gravel, trace Roots	SILTY GRAVELLY SAND	PVC RISER; Grout	ND	ND	N	1 2
						12-9							
			S-1A		3-4	GRAB				44	920	ST	
5			S-2	24/11	5-7	18-27	Very dense, gray, coarse to fine+ SAND and Gravel little+ Silt			0.8	22	N	
						30-36							
									7' Bent. Seal				
							APPARENT TOP OF BEDROCK		8'				
10			S-3	6/3	10-10.5	100/6"	SHALE	9'+ WEATHERED SHALE	10'	0.6	17	N	
	CORE TIME MIN/FT.												
15	5.0		C-1 R-1	24/23	16.5-18.5	RQD=0	Moderately hard, moderately weathered, fractured (Horiz. to 20° fracture angles with Fe and slight Mn staining on fracture surfaces). Gray, metamorphosed SHALE. 1' thick layer of weathered SCHIST in R-2.		PVC SCREEN; Filter Sand				
	4.5					REC=96%							
	4.0		C-1 R-2	60/48	18.5-23.5	RQD=23%		16'+ METAMORPHOSED SHALE WITH SOME SCHISTOSE ZONES					
	3.0					REC= 80%							
20	3.0												
	3.0												
	3.0												
	3.0												
	3.0		C-1 R-3	60/50	23.5-28.5	RQD=48%	Moderately hard, slightly weathered, slightly fractured (horizontal to 10° fracture angles) light gray, metamorphosed SHALE.						
25	5.0					REC=83%							
	5.0												
	4.5												
	4.5												
	4.5		C-1 R-4	36/36	28.5-31.5	RQD=75%	Moderately hard, slightly weathered, slightly fractured (horizontal to 10° fracture angles) light gray, metamorphosed SHALE.						
30	4.0					REC=100%			30'				
	4.0												3 4
							END OF EXPLORATION AT 31.5'+						5
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor, ST=strong odor.
3. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 30.0' up to 10.0'+ and topped with 10'+ of solid PVC riser tube. Filter sand was poured up to 8'+ and a bentonite seal placed from 8' up to 7'+. (ydrated prior to grout placement). Bentonite/cement grout was placed from 7'+ up to the surface. The well head was secured with a 1' long, flush mounted aluminum curb box grouted into the surface (surface seal 2'x2'x4" concrete pad).
4. An approximate 30 gallon volume of contaminated (PID >10 ppm) soil cuttings were containerized.
6. Minimal drill water remained in the formation upon completion (20 gal+).

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-309

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 5 PORTSMOUTH, RI	REPORT OF BORING No. GZ-310 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 10/26/94 DATE END 10/27/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID TO 15.5 FT OTHER: NX ROCK CORE FROM 15.5 TO 30.5 FT

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
10-27-94	0700	22'	15.5'	17 HOURS
10-27-94	1000	22.8'	OW	20 HOURS
11-15-94		23.5	OW	18 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/3	0-2	4-6	Medium dense, tan, fine SAND and Silt, trace roots, trace fine Gravel	SILTY GRAVELLY SAND	PVC RISER	1.8	20	SL	1 2 3
						7-5							
5			S-2	24/18	5-7	18-21	Dense, tan/gray, coarse to fine+ SAND, some+ Silt, little+ Gravel		Grout	22	600	M	
						25-25							
							APPARENT TOP OF BEDROCK						
								8'+ WEATHERED SHALE					
10			S-3	24/22	10-12	12-15	Dark gray, highly weathered SHALE			44	>1000	ST	
						17-14							
									12'				
									13' Bent. Seal				
	CORE TIME/MIN./FT.		S-4	5/4	15-15.4	100/5"							
15	3.0	C-1 R-1		60/30	15.5-20.5	RQD=18%	Very soft, highly weathered, fractured, slightly metamorphosed, gray, SHALE (horizontal to 10° fracture angles with Fe staining fracture surfaces)	5' METAMORPHOSED SHALE	PVC 15'	58	>1000	ST	4
	2.0					REC=50%							
	2.0								Filter Sand				
	2.0								SCREEN				
	2.5												
20	2.0	C-1 R-2		60/37	20.5-25.5	RQD=32%	Very soft, highly weathered, fractured, slightly metamorphosed, gray, SHALE (horizontal to 10° fracture angles with Fe staining fracture surfaces)						
	1.0					REC=62%							
	0.7												
	0.5												
	0.5												
25	0.7	C-1 R-3		60/55	25.5-30.5	RQD=42%	Moderately hard, slightly weathered, fractured, slightly metamorphosed, dark gray/black SHALE/SLATE 1-3mm thick intrusive quartz veins with slight contact metamorphosed "halos" - fracture angles are horizontal to 70° with slight Fe staining on surfaces.						
	1.0					REC=92%							
	0.7												
	1.0												
	1.5								30'				5 6
30							END OF EXPLORATION AT 30.5'+						7
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor, SL=slight odor, ST = strong odor, M=moderate odor.
3. Slight petroleum-like odor noted in soils.
4. Poor rock recovery due to weak bedding planes in shale.
5. 15' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 30.0' up to 15.0'+ and topped with 15'+ of solid PVC riser tube. Filter sand was poured up to 13'+ and a bentonite seal placed from 13'+ up to 12'+. Bentonite/cement grout was placed from 6' up to the surface. The wellhead was secured with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
6. An approximate 30 gallon volume of soil cuttings was containerized along with 85 gallons of drill water.
7. Approximately 20 gallons of drill water remained in formation upon completion (very good return on drill water).

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-310

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 5 PORTSMOUTH, RI	REPORT OF BORING No. GZ-311 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/07/94 DATE END 11/07/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID TOD 18.5 FT OTHER: NX ROCK CORE FROM 18.5' TO 33.5'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-08-94	0740	22.5	OW	17 HOURS
11-15-94	0900	23.2	OW	7 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/10	0.2-2.2	7-10	Medium dense, gray, coarse to fine+ SAND, some+ Silt, some- Gravel	SILTY GRAVELLY SAND	PVC RISER; Grout	0.2	4.0	N	1 2
						11-19							
5			S-2	24/16	5-7	7-7	Medium dense, tan, fine SAND, some- Silt, trace- fine+ Gravel			ND	ND	N	
						9-7							
10			S-3	24/12	10-12	11-10	Medium dense, dark gray, coarse to fine+ SAND, some+ Silt, little Gravel		9' Bent. Seal; 10'	ND	1.0	N	
						10-10							
									12.5'				
15	CORE TIME (MIN./FT.)		S-4	24/20	15-17	16-15	Medium dense, tan, coarse to fine+ SAND, little+ Gravel, little+ Silt changing at 16.5'+ to gray SHALE		Filter Sand	ND	ND	N	
						6-11	APPARENT TOP OF BEDROCK						
			S-5	<1/0	18.5-	100/<1"		16.5'					
	4		C-1 R-1	60/40	18.5-23.5	RQD=17%	Moderately hard, fractured, weathered, slightly metamorphosed, light gray, SILTSTONE, some 4"-6" layers of Schistose-Sandstone. Horizontal to 80° fracture angles with heavy Fe staining on fracture surfaces.	SILTSTOVE					
20	4					REC=67%							
	3												
	3.5												
			C-1 R-2	60/57	23.5-28.5	RQD=78%	Moderately hard, fresh, massive slightly metamorphosed, light gray SHALE. Slight Fe staining on fracture surfaces, fracture angles are horizontal to 20°.	23.5' METAMOR-PHOSED SHALE	PVC SCREEN; Filter Sand				
25						REC=95%							
30			C-1 R-3	60/60	28.5-33.5	RQD=93%	Moderately hard, fresh, massive slightly metamorphosed, light gray SHALE. Slight Fe staining on fracture surfaces, fracture angles are horizontal to 20°.		32.5'+				3
						REC=100%							
35							END OF EXPLORATION AT 33.5'+						4 5

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. No visual/olfactory evidence of contamination observed.
4. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 32.5' up to 12.5'+ and topped with 12.5'+ of solid PVC riser tube. Filter sand was poureement 10'+ and a bentonite seal placed from 10' up to 9'+ (hydrated prior to grout placement). Bentonite/cement grout was placed from 9' up to the ground surface. The well head was secured at grade with a flush mounted, 1' long aluminum curb box grouted into into the surface (surface seal: 2'x2'x4" concrete pad).
5. Approximately 75 gallons of drill water remained in the formation upon completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-311

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-312
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/08/94 DATE END 11/08/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID TO 23.5' FT OTHER: NX ROCK CORE COLLECTED FROM 23.5' TO 28.5'+.

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-21-94		21.3	OW	2 WEEKS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/20	0-2	3-9	Medium dense, brown, coarse to fine+ SAND, little+ Silt, little+ Gravel, trace+ Roots (TOPSOIL)	TOPSOIL		ND	ND	N	1
						15-20	changing at 0.8'+ to tan, medium to fine+ SAND, some Silt, trace- Gravel	0.8'					2
5			S-2	24/18	5-7	8-7	Medium dense, gray, coarse to fine+ SAND and Gravel, little+ Silt		PVC RISER; Grout	ND	ND	N	
						7-9							
								SILTY GRAVELLY SAND	9' Bent. Seal				
10			S-3	24/14	10-12	9-20	Dense, gray/tan, coarse to fine+ SAND and Gravel, little+ Silt		10'	ND	ND	N	
						12-10			12'				
15			S-4	24/12	15-17	4-3	Loose, tan/gray, coarse to fine+ SAND and Gravel, little+ Silt		PVC SCREEN; Filter Sand	ND	ND	N	
						2-4							
	CORE TIME (MIN./FT.)									ND	ND	N	
20			S-5	24/15	20-22	2-4	Loose, tan/gray, coarse to fine+ SAND and Gravel, little+ Silt						
						4-67							
			S-6	<1/0	23.5-	100/<1"	APPARENT TOP OF BEDROCK						
	3.0		C-1 R-1	60/54	23.5-28.5	RQD=32%	Moderately hard, fractured (slight Fe staining on fracture surfaces), fresh, light gray metamorphosed SHALE. Fracture angles are horizontal to 60°.	23.5' SHALE					
25	3.0					REC=90%							
	4.0												
	3.0												
	3.0								27'				3 4
							END OF EXPLORATION AT 28.5'+						5
30													
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. No visual/olfactory indications of contamination noted.
4. 15' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 27.0' up to 12.0'+ and topped with 12.0'+ of solid PVC riser tube. Filter sand was poured up to 10'+ and a bentonite seal (hydrated prior to grout placement) placed from 10' up to 9'+. Bentonite/cement grout was placed from 9' up to the surface. The well head was secured at grade with a flush mounted, 1' aluminum curb box grouted in the surface with concrete (surface seal: 2'x2'x4" concrete pad).
5. Approximately 150 gallons of drill water remained in the formation after completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-312

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 5 PORTSMOUTH, RI	REPORT OF BORING No. GZ-313 SHEET 1 OF 2 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/08/94 DATE END 11/09/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID TO 20 FT OTHER: NX ROCK CORE FROM 20 TO 45 FEET

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/15/94	0730	26.9	OW	6 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/10	0-2	4-8	Medium dense, brown/gray, coarse to fine+ SAND, some- Silt, little- Gravel, trace roots	SILTY GRAVELLY SAND	PVC RISER; Bent. Grout	ND	ND	N	1 2
						5-14							
								3' SILTY FINE SAND					
5			S-2	16/16	5-6.4	7-9	Very dense, tan, fine SAND, some Silt changing at 5.8'± to tan/gray, medium to fine+ SAND, some Silt, some Gravel	5.8'		ND	ND	N	
						100/4"							
10			S-3	24/8	10-12	7-18	Dense, gray, coarse to fine(+) SAND and Gravel, little(+) Silt	SILTY GRAVELLY SAND	10' Bent. Seal; 11'	ND	ND	N	
						20-25							
									13'+				
							APPARENT TOP OF BEDROCK						
15			S-4	8/8	15-15.7	28-100/2"	REFUSAL: Soft SHALE	15'+	Filter Sand	ND	ND	N	
	COR MIN/FT.	TIM											
20	2.5		C-1/R-1	60/37	20-25'	RQD=15%	Soft, highly fractured, weathered (slight Fe, MN staining). Grey SHALE, fracture angles are horizontal to 20°	SHALE					
	2.0					REC=62%							
	2.0												
	2.5												
	3.0												
25	2.0		C-1/R-2	60/43	25-30'	RQD=71%	Soft, highly fractured, weathered (slight Fe, MN staining). Grey SHALE, fracture angles are horizontal to 20°						
	2.0					REC=72%							
	2.5								PVC SCREEN				
	3.0												
	3.0								Filter Sand				
30	3.0		C-1/R-3	60/55	30-35'	RQD=30%	Moderately hard, very slightly fractured, slightly weathered, light gray, slightly metamorphosed (regional) SHALE. Some 1/4"-1/2" thick sandstone layers. Horizontal to 20° fracture angles	30' SLIGHTLY METAMORPHOSED SHALE					
	2.5					REC=92%							
	2.5												
	2.5												
	2.5												
35	2.0		C-1/R-4	60/60	35-40	RQD=25%							3 4 5
	2.0					REC=100%							

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. No visual/olfactory evidence of contamination.
4. 30' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 43'± up to 13'± and topped with 13'± of solid PVC riser tube. Filter sand was poured up to 11'± and a bentonite seal placed from 11'± up to 10'±. Bentonite/cement grout was placed from 10' up to the surface. The wellhead was secured with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
5. Minimal drill water remained in the formation upon completion (75 gallons ±).

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-313

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-313 SHEET 2 OF 2 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM
DATE START 11/08/94 DATE END 11/09/94

DEPTH	CASING BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION Burmister CLASSIFICATION	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
	2.5											
	2.5											
	2.5											
40	2.5	C-1/ R-5	60/60	40-45	RQD=48%	Moderately hard, very slightly fractured, slightly weathered, light gray, slightly metamorphosed (regional) SHALE. Some 1/4"-1/2" thick sandsonte layers. Horizontal to 20° fracture angles.	SLIGHTLY METAMORPHOSED SHALE					
	2.5				REC=100%							
	3.0											
	3.0							43'+ Filter Sand				
	3.0											345
45						End of Exploration at 45'+						
50												
55												
60												

REMARKS: See Page 1 for remarks.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-314
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/01/94 DATE END 11/02/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID OTHER:

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-3-94	0730	26.4	OW	18 HOURS
11-21-94		26.1	OW	2 WEEKS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/20	0-2	4-8	Medium dense, brown/gray, coarse to fine+ SAND, little+ Gravel, little Silt	SILTY GRAVELLY SAND	PVC RISER	ND	ND	N	1
						14-22							2
								3' SILTY SAND	Grout				
5			S-2	24/7	5-7	6-12	Medium dense, tan, fine SAND, some Silt			ND	ND	N	
						14-18		6'	Bent. Seal				
								7' SILTY GRAVELLY SAND	7'				
10			S-3	24/19	10-12	14-22	Very dense, gray, coarse to fine+ SAND and Gravel, little + Silt		9.5'	ND	ND	N	
						38-48							
							APPARENT TOP OF BEDROCK	12'	PVC SCREEN				
15			S-4	1<1	15-15.1	100/1"	REFUSAL: SHALE		Filter Sand	ND	ND	N	
20													
25								SHALE					
30													
35													
40							END OF EXPLORATION AT 40'		39.5'				3 4

REMARKS: 1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm. 2. N = no odor. 3. No visual/olfactory indications of contamination noted.
4. 30' of .02" slotted 2.0" diameter, Sch 40, PVC wellscreen was placed from 39.5' up to 9.5'+ and topped with 9.5'+ of solid PVC riser tube. Filter sand was poured up to 7'+ and a bentonite seal placed from 7' up to 6'+. Bentonite/cement grout was placed from 6' up to the surface. The wellhead was secured with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-314

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPORT POINT
TANK FARM 3 PORTSMOUTH, RI

REPORT OF BORING No. GZ-315
SHEET 1 OF 1
FILE No. 31288.3
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 10/27/94 DATE END 10/28/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: HSA 3 3/4" ID TO 11 FT

OTHER: NX ROCK CORE COLLECTED FROM 11 TO 31'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
10/27/94	0830	15.7	OW	17 HOURS
11/21/94		16.8	OW	3 WEEKS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	7/2	0-0.8	2-100/5"	REFUSAL: Brown, coarse to fine SAND and Silt, trace fine Gravel, trace roots			ND	0.4	N	1 2 3
5			S-2	24/20	5-7	17-38	Very dense, gray, coarse to fine SAND, and Gravel, little+ Silt	SILTY GRAVELLY SAND	PVC RISER; Grout	ND	ND	N	
						52-60							
	CORE TIME (MIN./FT)						REFUSAL: Grey, coarse to fine SAND and Gravel, little+ Silt						
10							APPARENT TOP OF BEDROCK						
			S-3	6/3	10-10.5	112/6"				ND	ND	N	
	4.0		C-1/R-1	60/26	11-16	RQD=12%	Hard, fresh, slightly fractured gray PHYLLITE chaning at 12'± to soft, highly fractured, weathered SHALE (heavy Fe, MN staining on Fracture surfaces). Changing at 15.5'± to hard, fresh, slightly fractured (horizontal to 45° fracture angles), gray PHYLLITE	10.5' PHYLLITE					
	5.0					REC=43%		12' SHALE	12'				
	5.0								13.5				
15	5.0												
	4.0												
	3.0		C-1/R-2	60/39	16-21	RQD=7%	Changing at 17' to highly fractured soft SHALE, fractures are 2"-4" wide	15.5' PHYLLITE	15.5'				
	4.0					REC=65%							
	4.0							17'					
	3.0												
20	3.0												
	3.0		C-1/R-3	60/60	21-26	RQD=38%	Highly fractured soft SHALE	SHALE	Filter Sand				
	3.0					REC=100%							
	3.3												
25	3.5												
	3.5												
	3.0		C-1/R-4	60/4	26-31	RQD=0%	Highly fractured soft SHALE						
	2.0					REC 7%							
	2.0												
30	2.0												
	3.0								30.5'				4 5 6
							End of Exploration at 31'+						
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. Class a boulder at 0.5'±.
4. No visual/olfactory signs of contamination observed.
5. 15' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 30.5' up to 15.5'± and topped with 15.5'± of solid PVC riser tube. Filter sand was poured up to 13.5+ and a bentonite seal was placed from 12 to 13.5'. A bentonite/cement grout was placed from 12'± up to the surface. The wellhead was secured at grade with a flush mounted, 1' long aluminum curb box grouted into the surface with concrete (surface seal 2'x2'x4" concrete pad).
6. Approximately 70 gallons of drill water remained in formation upon completion.

NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-315

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPORT POINT TANK FARM 3 PORTSMOUTH, RI	REPORT OF BORING No. GZ-316 SHEET 1 OF 1 FILE No. 31288.3 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION SEE LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 11/01/94 DATE END 11/01/94

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: HSA 3 3/4" ID OTHER: NX ROCK CORE FROM 18.5 TO 32 FEET

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/04/94	0830	17.5	OW	3 DAYS
11/21/94	1200	18.3	OW	17 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION (Burmister CLASSIFICATION)	STRATUM DESCRIPTN	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/18	0-2	6-4	Medium dense, brown/tan, coarse to fine SAND, some+ Silt, little Gravel, trace roots	SILTY GRAVELLY SAND	PVC RISER; Grout	ND	ND	N	1 2
						7-11							
5			S-2	24/20	5-7	20-42	Very dense, dark gray, coarse to fine SAND and Gravel, little+ Silt			ND	0.4	N	
						65-110							
									7' Bent. Seal 8'				
10			S-3	24/19	10-12	27-10	Very dense, dark gray, coarse to fine+ SAND and Gravel, little+ Silt		10'	ND	ND	N	
						47-53							
	CORE TIME MIN/FT.						Very dense, dark gray, coarse to fine+ SAND and Gravel, little+ Silt		PVC SCREEN				
15			S-4	6/2	15-15.5	112/6"	APPARENT TOP OF BEDROCK	16'	Filter Sand	ND	ND	N	
	3.5		C-1/R-1	60/53	18.5-23.5	RQD=48%	Moderately hard, fresh, moderately fractured, (horizontal to 70° fracture angles (Fe staining on fracture surfaces) Gray SHALE/SILTSTONE (slightly metamorphosed)	SHALE/SILTSTONE					
						REC=88%							
20	4.0												
	4.5												
	4.5												
	5.0		C-1.R-2	18/18	23.5-25.0	RQD=67%							
	5.0					REC=100%							
25	4.0		C-1/R-3	42/42	25-28.5	RQD=24%	Moderately hard, fresh, moderately fractured, (horizontal to 70° fracture angles (Fe staining on fracture surfaces) Gray SHALE/SILTSTONE (slightly metamorphosed)						
	4.0					REC=100%							
	4.0												
	4.0							28.6' SHALE					
30	4.0		C-1/R-4	42/42	28.5-32'	RQD=55%	Moderately hard, slightly weathered, slightly fractured (horizontal to 30° fracture anlges with moderate Fe, Mn staining on fracture surfaces, black SLATE		30'				
	3.0					REC=100%							
	3.0												3 4 5
							End of Exploration at 32'						
35													

REMARKS:
1. Soil head space screening was performed employing a Century Systems Model OVA-128 equipped with a hydrogen flame ionization detector (FID), and a HNU System model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp. Readings are in parts per million (ppm). ND indicates not detected above instrument detection limit of 0.1 ppm.
2. N = no odor.
3. No visual/olfactory evidence of contamination noted.
4. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 30' up to 10' and topped with 10'+ of solid PVC riser tube. Filter sand was poured up to 8'+ and a bentonite seal placed from 8' up to 7'+. Bentonite/cement grout was placed from 7' up to the surface. The wellhead was secured at grade with a flush mounted 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
5. Approximately 100 gallons of drill water remained in the formation upon completion.

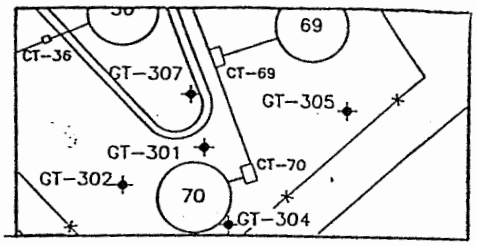
NOTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-316

GROUNDWATER TECHNOLOGY

Well I.D.: GT-301



Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/22/92
T.O.C. Elev.: Well Depth: 27.3'
Explor. Depth: 28' Hole Dia.: 11"
Casing – Dia.: 4" Length: 17.3' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow-stem Auger Sampling Method: Grab/Split-spoon
Notes: 400 lbs. sand used.

Key: Concrete, Bentonite, Grout, Native Backfill, Sand/Gravel Pack, Well Screen, Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
0	ROAD BOX					0	
1		S-1 (Grab)			1	1	Medium brown, damp, TOPSOIL.
2, 3						2, 3	
4, 5		SS-1	65	7,10, 3, 2	BDL	4, 5	Dark brown, damp, medium to fine SAND, little fine gravel, trace silt.
6, 7, 8						6, 7, 8	
9, 10		SS-2	70	2, 2, 2, 6	BDL	9, 10	Same as above.
11, 12, 13						11, 12, 13	
14, 15		SS-3	50	1, 3, 5, 8	21	14, 15	Medium brown, damp, medium to fine SAND, little silt, trace clay and shale fragments. (Weathered Bedrock)
16, 17, 18						16, 17, 18	
19, 20		SS-4	40	4, 1, 5,12	1	19, 20	Dark brown, moist, medium to fine SAND and shale fragments, little silt and clay.
21, 22, 23						21, 22, 23	▼
24, 25		SS-5	40	5, 5, 23, R	4	24, 25	Dark brown, wet, medium to fine SAND, little shale fragments, trace clay and coarse sand.

Project: D.F.S.P. – MELVILLE TERMINAL

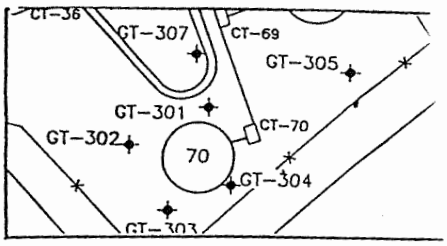
Location: Tank Farm Three, Portsmouth, RI

Well No.: GT–301

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
26						26	
27		SS–6	40		4	27	Dark brown, wet, medium to fine SAND and shale fragments, trace silt and clay.
28						28	Bottom of exploration at 28.0'.
29						29	
30						30	
31						31	
32						32	
33						33	
34						34	
35						35	
36						36	
37						37	
38						38	
34						34	
39						39	
40						40	
41						41	
42						42	
43						43	
44						44	
45						45	
46						46	
47						47	
48						48	
49						49	
50						50	
51						51	
52						52	
53						53	
54						54	
55						55	
56						56	
57						57	

GROUNDWATER TECHNOLOGY

Well I.D.: GT–302



Page 1 of 1

Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/23/92
T.O.C. Elev.: Well Depth: 19.3'
Explor. Depth: 19.3' Hole Dia.: 11"
Casing – Dia.: 4" Length: 9.3' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow–stem Auger Sampling Method: Grab/Split–spoon
Notes: 200 lbs. sand used.

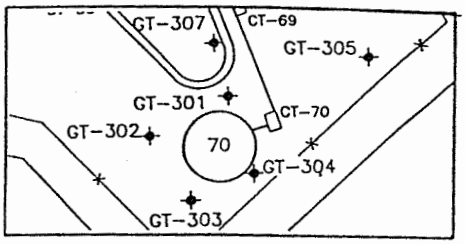
Key: Concrete, Bentonite, Grout, Native Backfill, Sand/Gravel Pack, Well Screen, Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
	ROAD BOX						
0						0	
1		S–1 (Grab)			3	1	Medium brown, damp, medium to fine SAND and SILT, little clay, trace organic material.
2						2	
3						3	
4		S–2 (Grab)			1	4	Orange–brown, damp, medium to fine SAND and SILT, trace clay.
5						5	
6						6	
7						7	
8						8	
9		S–3 (Grab)			4	9	Dark grey, damp, medium to fine SAND and CLAY, little silt, trace gravel.
10						10	
11						11	
12						12	
13						13	Light brown, damp, medium to fine SAND, some silt.
14		SS–1 (Grab)	85	20,23, 20,23	BDL	14	Grey, damp, medium to fine SAND, little clay and shale fragments, trace silt. (Weathered Bedrock)
15						15	
16						16	
17						17	▼
18		SS–2	20	100,R, R, R.	BDL	18	Grey, damp, medium to fine SAND, some shale fragments, little silt and clay.
19		S–4 (Grab)				19	Dark grey, wet, medium to fine SAND and SILT, little clay, trace fine gravel.
20						20	
21						21	Bottom of exploration at 19.3'.
22						22	
23						23	
24						24	
25						25	

Well I.D.: GT-303

GROUNDWATER TECHNOLOGY

Page 1 of 1



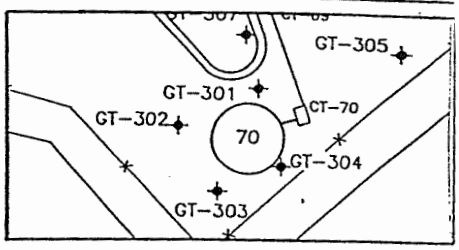
Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/23-24/92
T.O.C. Elev.: Well Depth: 20.5'
Explor. Depth: 20.5' Hole Dia.: 11"(to 15'),6"(to B.O.E.)
Casing – Dia.: 4" Length: 10.0' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow-stem Auger/Air Rotary Sampling Method: Grab/Split-spoon
Notes: 200 lbs. sand used.

Key: Concrete Bentonite Grout Native Backfill Sand/Gravel Pack Well Screen Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
0	ROAD BOX					0	
1		S-1 (Grab)			1	1	Medium brown, damp, medium to fine SAND, some clay, trace silt.
2						2	
3						3	
4		SS-1	55	9,18, 20,18	1	4	Orange, damp, medium to fine SAND and SILT, trace clay.
5						5	Light grey, damp, medium to fine SAND and SILT, trace clay and fine gravel.
6						6	
7						7	
8						8	
9		SS-2	75	7, 8, 12,27	BDL	9	Dark grey, damp, CLAY, some medium to fine sand, trace fine gravel.
10						10	Light brown-orange, damp, SILT and CLAY, little medium to fine SAND, trace gravel.
11						11	
12						12	
13						13	
14		SS-3	25	100,R, R, R	BDL	14	Grey, damp, SHALE FRAGMENTS and medium to fine SAND, little clay, trace silt. (Weathered Bedrock)
15						15	
16						16	
17						17	
18						18	
19		SS-4	60	16,17, 23,R	BDL	19 ▼	Grey, damp, SHALE FRAGMENTS, some medium to fine SAND, little silt and clay.
20						20	
21						21	Bottom of exploration at 20.5'.
22						22	
23						23	
24						24	
25						25	

GROUNDWATER TECHNOLOGY

Well I.D.: GT-304



Page 1 of 1

Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/24/92
T.O.C. Elev.: Well Depth: 19.8'
Explor. Depth: 19.8' Hole Dia.: 11"(to 15'),6"(to B.O.E.)
Casing – Dia.: 4" Length: 9.8' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow-stem Auger/Air Rotary Sampling Method: Grab/Split-spoon
Notes: 250 lbs. sand used.

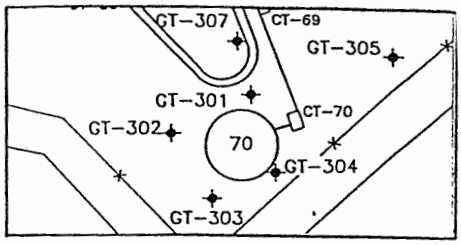
Key: Concrete Bentonite Grout Native Backfill Sand/Gravel Pack Well Screen Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
0	ROAD BOX					0	
1		S-1 (Grab)			BDL	1	Dark brown, damp, medium to fine SAND, some silt and clay, trace fine gravel.
2						2	
3						3	
4		SS-1	55	2,10, 13,14	BDL	4	Medium brown, damp, medium to fine SAND, little silt and clay, trace fine gravel.
5						5	Orange brown, damp, medium to fine SAND, little silt and clay.
6						6	
7						7	
8		SS-2	5	26,29, 32,18	BDL	8	Medium GRAVEL. (Quartz fragment).
9						9	
10						10	
11						11	
12						12	
13						13	
14		SS-3	80	9,23, 21,28	1	14	Dark grey, damp, medium to fine SAND, some silt, little clay, trace shale fragments. (Weathered Bedrock)
15						15	Orange brown, damp, medium to fine SAND, some silt, and shale fragments.
16						16	
17						17	
18		SS-4	50	10,12, 14,R	BDL	18	
19						19	Medium grey, damp, SHALE FRAGMENTS, some medium to fine sand, little silt, trace coarse sand.
20						20	Bottom of exploration at 19.8'.
21						21	
22						22	
23						23	
24						24	
25						25	

Well I.D.: GT-305

GROUNDWATER TECHNOLOGY

Page 1 of 1



Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/25/92
T.O.C. Elev.: Well Depth: 23.1'
Explor. Depth: 23.1' Hole Dia.: 11" (to 11.5'), 6" (to B.O.E.)
Casing – Dia.: 4" Length: 13.0' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow-stem Auger/Air Rotary Sampling Method: Grab/Split-spoon
Notes: 250 lbs. sand used.

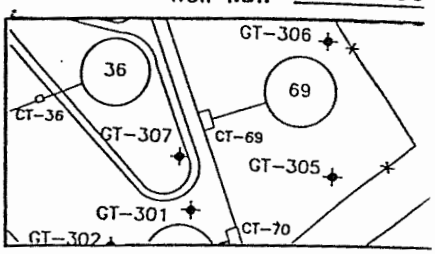
Key: Concrete, Bentonite, Grout, Native Backfill, Sand/Gravel Pack, Well Screen, Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
0	ROAD BOX					0	
1		S-1 (Grab)			BDL	1	Dark brown, damp, medium to fine SAND, little silt and clay, trace coarse sand and fine gravel.
2–3						2–3	
4–5		SS-1	85	7,22, 27,57	BDL	4–5	Medium brown, damp, medium to fine SAND, little clay, trace shale fragments and silt.
6–8						6–8	
9–10		SS-2	60	40,18, 19,24	BDL	9–10	Medium grey, damp, medium to fine SAND and SILT, little shale fragments, trace clay and coarse sand.
11–13						11–13	
14–15		SS-3	30	30,70, R, R	BDL	14–15	Medium grey, damp, coarse to fine SAND, little silt, some shale fragments, trace clay. (Weathered Bedrock)
16–17						16–17	
18–19		SS-4	5	R, R, R, R		18–19	Medium grey, damp, shale fragments. (Weathered Bedrock)
20–22						20–22	
23						23	Bottom of exploration at 23.1'.
24–25						24–25	

Well I.D.: GT-306

GROUNDWATER TECHNOLOGY

Page 1 of 1



Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/25/92
T.O.C. Elev.: Well Depth: 21.3'
Explor. Depth: 21.3' Hole Dia.: 11"(to 12'),6"(to B.O.E.)
Casing – Dia.: 4" Length: 11.3' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow-stem Auger/Air Rotary Sampling Method: Grab/Split-spoon
Notes: 200 lbs. sand used.

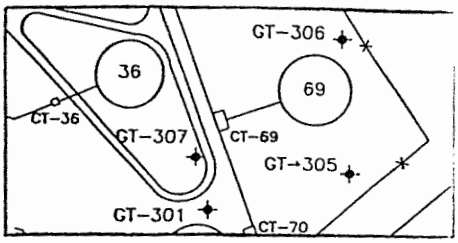
Key: Concrete Bentonite Grout Native Backfill Sand/Gravel Pack Well Screen Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
0	ROAD BOX					0	
1		S-1 (Grab)			3	1	Dark brown, damp, medium to fine SAND, little fine gravel and silt, trace clay.
2						2	
3						3	
4		SS-1	55	11,14, 3, 3	1	4	Black, damp, medium to fine SAND, little silt and fine gravel.
5						5	Orange brown, damp, medium to fine SAND, little clay, trace silt and fine gravel.
6						6	
7						7	
8						8	
9		SS-2	60	14,20 40,41	1	9	Black, damp, medium to fine SAND, little clay, trace silt.
10						10	Medium grey, damp, coarse to fine SAND, some shale fragments, little silt, trace clay. (Weathered Bedrock)
11						11	
12						12	
13		SS-3	50	24,24, 64,R	BDL	13	Medium grey, damp, SHALE FRAGMENTS, medium to fine SAND, little clay, trace silt.
14						14	
15						15	
16						16	
17						17	
18						18	
19						19	
20		S-2 (Grab)			BDL	20	Medium grey, dry, SHALE FRAGMENTS, trace clay. (Competent Bedrock)
21						21	
22						22	Bottom of exploration at 21.3'.
23						23	
24						24	
25						25	

GROUNDWATER TECHNOLOGY

Well I.D.: GT-307

Page 1 of 1



Project: DFSP – MELVILLE TERMINAL
Location: Tank Farm Three, Portsmouth, RI
Project No.: 830011072 Date: 9/25/92
T.O.C. Elev.: Well Depth: 19.4'
Explor. Depth: 19.4' Hole Dia.: 11"(to 13'),6"(to B.O.E.)
Casing – Dia.: 4" Length: 9.4' Type: PVC
Screen – Dia.: 4" Length: 10.0' Slot Size: 0.020"
Drilling Co.: Groundwater Tech., Norwood Driller: J. Bertrand B. Stuart Logged by: N. Nevins
Drilling Method: Hollow-stem Auger/Air Rotary Sampling Method: Grab/Split-spoon
Notes: 250 lbs. sand used.

Key: Concrete Bentonite Grout Native Backfill Sand/Gravel Pack Well Screen Water Table

Depth (feet)	Well Construction	Sample No.	% Rec.	Blows/ Density	FID Rdg. (ppm)	Depth (feet)	Soils/Lithology
0	ROAD BOX					0	
1		S-1 (Grab)			BDL	1	Dark brown, damp, medium to fine SAND, little silt and clay, trace coarse sand.
2						2	
3						3	
4		SS-1	80	4,14, 20,27	BDL	4	Green grey, damp, fine SAND, little silt, trace shale fragments.
5						5	
6						6	
7						7	
8						8	Green grey, damp, medium to fine SAND and SILT, trace clay and coarse sand.
9		SS-2	70	10,18, 25,30	BDL	9	Black, damp, SILT, some medium to fine sand, little clay.
10						10	Medium grey, damp, shale fragments, little clay. (Weathered Bedrock)
11						11	
12						12	
13						13	
14		SS-3	15	R, R, R, R	BDL	14	Medium grey, damp, SHALE FRAGMENTS. (Competent Bedrock)
15						15	
16						16	SHALE FRAGMENTS.
17		S-2 (Grab)			BDL	17	
18						18	Same as above.
19		S-3 (Grab)			BDL	19	
20						20	Bottom of exploration at 19.4'.
21						21	
22						22	
23						23	
24						24	
25						25	

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPLY CENTER
TANK FARM 3, PORTSMOUTH, RI

REPORT OF BORING No. GZ-317
SHEET 1 OF 1
FILE No. 31288.9
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/17/95 DATE END 11/20/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3 3/4" HSA TO 7.5 FEET
3" (NW) TO 18 FEET

OTHER: NX TYPE ROCK CORE COLLECTED FROM 8.5'-38.5'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/20/95	0730	12.7	18'	58 HOURS
11/27/95	0915	12.5	WELL	9.5 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/14	0-2	2-2	Very loose, tan/gray, fine SAND and Silt, trace+ fine Gravel	SILTY FINE SAND	.8' PVC RISER; BENT. GROUT	ND	ND	N	1
						2-2							2
5			S-2	24/20	5-7	14-33	Very dense, gray/dark gray, coarse to fine+ SAND and Gravel, little+ Silt (TILL) APPARENT TOP OF BEDROCK	4' SILTY SAND AND GRAVEL (TILL)	5' BENT. SEAL	ND	ND	N	
						60-104			6'				
	CORE/TIME MIN./FT.							7.5'					
									8'				
10	1.0	C-1 R-1		60/24	8.5-13.5	RQD=18%	Soft, moderately weathered, moderately fractured, (horizontal to 20° fracture angles) slight iron/manganese staining on fracture surfaces, gray, slightly metamorphosed SHALE		PVC SCREEN; FILTER SAND				
	1.0					REC=40%							
	1.0												
	1.0												
	1.0												
15	1.0	C-1 R-2		60/34	13.5-18.5	RQD=31%	Soft, moderately weathered, moderately fractured (horizontal to 45° fracture angles) with heavy iron staining on fracture surfaces gray metamorphosed SHALE						
	1.0					REC=56%							
	0.8												
	0.8												
	1.0												
20	1.0	C-1 R-3		60/48	18.5-23.5	RQD=58% REC=80%	Soft, slightly weathered, moderately fractured, with two approximately 2" fractures from 20.5' to 22.5' (fracture angles are horizontal to 45°) with iron staining on fracture surfaces, gray, metamorphosed SHALE with 2" to 6" layers of SAND/SILT STONE and slaty SHALE	META-MORPHOSED SHALE WITH LENSES OF SAND/SILT-STONE					
	1.0												
	1.0												
	0.6												
	0.8												
25	1.0	C-1 R-4		60/60	23.5-28.5	RQD=100%	Soft, fresh, sound, light gray moderately, metamorphosed SHALE with 6" thick lenses of SILTSTONE						
	1.0					REC=100%							
	1.2												
	1.2												
	1.2												
30	1.0	C-1 R-5		60/60	28.5-33.5	RQD=96%	Soft, fresh, sound, light gray moderately, metamorphosed SHALE with 6" thick lenses of SILTSTONE						
	1.0					REC=100%							
	1.0												
	1.2												
	1.2												
35	1.0	C-1 R-6		60/60	33.5-38.5	RQD=100%	Soft, fresh, sound, light gray moderately, metamorphosed SHALE with 6" thick lenses of SILTSTONE						
	1.2					REC=100%							
	1.0												
	1.0												
	1.2								38'+				3 4
40							END OF EXPLORATION AT 38.5'+						5

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination encountered.
4. 30' of 0.02" slotted 2.0" diameter, Sch. 40 PVC well screen was placed from 38' to 8' and topped with 8' of solid PVC riser tube. Filter sand was poured up to 6' and a bentonite seal placed from 5' to 6'. Bentonite/cement grout was placed from 5' to the surface. The wellhead was secured with a flushmounted, 1' long aluminum curb box grouted into the surface (surface seal: 2'x2'x4" concrete pad).
5. Approximately 260 gallons of drill water remained in the formation upon well completion.

BORING No. GZ-317

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORSTMOUTH, RI	REPORT OF BORING No. GZ-318 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/14/95 DATE END 11/15/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3 3/4" HSA TO 18'+ OTHER: NX TYPE ROCK CORE COLLECTED FROM 19' - 29'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-15-95	0740	14.8	19'	17.5 HOURS
11-16-95	0730	15.2	WELL	21 HOURS
11-27-95	0915	15.1	WELL	12 DAYS

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/19	0-2	12-14	Medium dense, brown, TOPSOIL changing at 0.5'+ to tan/gray, coarse to fine+ SAND and Gravel (FILL)	TOPSOIL	.8' PVC RISER; BENT. GROUT	4.0	22	N	1
						8-6		0.5' RE-WORKED TILL (FILL)					2
								3' TILL					
5			S-2	24/18	5-7	18-25	Very dense, gray/orange-brown, coarse to fine+ SAND and Gravel, little+ Silt (TILL)		5' BENT. SEAL	ND	0.4	N	
						30-27			6'				
							APPARENT TOP OF BEDROCK		8'				
10								8.5' WEATHERED SHALE					
15									FILTER SAND; PVC SCREEN				3
	CORE/TIME MIN./FT.												
20	1.5		C-1 R-1	60/58	19-24	RQD=35%	Soft, moderately weathered, moderately fractured, (horizontal to 60° fracture angles) with iron stained fracture surfaces, light gray, slightly metamorphosed SHALE. Two approximate 3" layers of slightly metamorphosed SILTSTONE	19' MODERATELY WEATHERED SHALE					
	1.3					REC=97%							
	1.5												
	1.5												
	1.0												
25	1.0		C-14 R-2	60/48	24-29	RQD=67% REC=80%	Soft, fresh, very slightly fractured (40° fracture angles) with iron stained fracture surfaces, light gray slightly metamorphosed SHALE.	24' FRESH SHALE					
	1.0												
	0.8												
	0.8												
	1.2								28'+				4 5
30							END OF EXPLORATION AT 29'+						
35													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Strong petroleum-like odor noted in SHALE cuttings (15-18'+); FID readings of >10 ppm were containerized (approximate 15 gallon volume of rock cuttings).
4. 20' of .02" slotted, 2.0" diameter, Sch 40 PVC well screen was placed from 28'+ up to 8'+ and topped with 8' of solid PVC riser tube. Filter sand was poured up to 6'+ and a bentonite seal (hydrated upon placement) placed from 6' up to 5'+. Bentonite grout was placed from 5' up to 0.8'+. The wellhead was secured with a 0.8' long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" thick concrete).
5. Approximately 80 gallons of drill water remained in the formation upon well completion.

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-319 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 11/14/95 DATE END 11/16/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3 3/4" HSA TO 10'+ OTHER: NX TYPE ROCK CORE COLLECTED FROM 10'+ - 25'+.

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-16-95	0740	10.5	15'	17 HOURS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED			FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/10	0-2	4-2	Loose, brown, TOPSOIL, changing at 0.4'+ to tan/gray SILT, little fine Sand	TOPSOIL	.8'	PVC RISER	BENT. GROUT	ND	ND	N	1
					3-4		0.4' SILT							2
								3'		BENT. SEAL				
5		S-2	24/15	5-7	14-30	Very dense, gray, coarse to fine SAND and Gravel, little Silt (TILL)	4' TILL	4'		5'	ND	ND	N	
					35-31									
						APPARENT TOP OF BEDROCK								
	CORE/TIME MIN./FT.						8.5'							3
10	1.0	C-1 R-1	60/18	10-15	RQD=0%	Soft, moderately weathered, severely fractured (iron/manganese stained fracture surfaces) with horizontal to 60° fracture angles, gray to light gray slightly metamorphosed SHALE			PVC SCREEN	FILTER SAND				
	1.0				REC=30%									
	0.8													
	0.8													
	0.8													
15	0.8	C-1 R-2	60/26	15-20	RQD=0%	Soft, moderately weathered, severely fractured (iron/manganese stained fracture surfaces) with horizontal to 60° fracture angles, gray to light gray slightly metamorphosed SHALE	META-MORPHOSED SHALE							
	0.6				REC=43%									
	0.5													
	0.6													
	0.8													
20	0.8	C-1 R-3	60/60	20-25	RQD=68%	Soft, fresh, very slightly fractured (horizontal to 90° fracture angles) with iron/manganese stained fracture surfaces, gray metamorphosed SHALE. Three 1/2-inch+ thick conglomerate zones with 1-3mm diameter inclusions								
	0.8				REC=100%									
	1.0													
	1.0													4
	1.0									25'+				5 6
25						END OF EXPLORATION AT 25'+								
30														
35														

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Bottom of 3" casing seated at 15'+; (because rock borehole was collapsing).
4. No visual/olfactory indications of contamination noted.
5. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 25' to 5'+ and topped with 5' of solid PVC riser tube. Filter sand was poured up to 4' and a bentonite seal (hydrated upon placement) placed from 4' up to 3'+. Bentonite grout was placed up to 0.8'. The wellhead was secured with a 0.8' long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" thick concrete).
6. Approximately 60 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-319

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-320 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/27/95 DATE END 11/27/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE:3" (NW) - 4' OTHER:NX TYPE ROCK COLLECTED FROM 4.0' - 29'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-29-95	1400	17.8	WELL	2 DAYS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/20	0-2	6-4	Medium dense, brown, TOPSOIL: coarse to fine+ SAND, little+ Gravel, little+ Silt, trace Organics (roots etc.)	COARSE TO FINE SAND	.8' BENT. GROUT	ND	ND	N	1
					7-12							2
	CORE TIME MIN./FT.						3'+ BOULDERS					
5	1.0	C-1 R-1	60/7	4.0-9.0	RQD=0%			4' BENT. SEAL				
	1.0				REC=12%			5'				
	0.3						6' TILL					
	0.2											
	0.2					APPARENT TOP OF BEDROCK		8'				
10	0.8	C-1 R-2	60/4	9-14	RQD=0%	Soft, moderatley weathered severly fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, dark gray slightly metamorphosed SHALE	8.5'					
	1.0				REC=7%							
	1.0											
	0.8											
	1.0							FILTER SAND				
15	1.0	C-1 R-3	60/50	14-19	RQD=23%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with heavy iron staining on fracture surfaces moderately metamorphosed gray SHALE with 3" to 6" thick zones of conglomerate (1 mm+ diameter inclusions)	META-MORPHOSED SHALE WITH THIN LENSES OF CONGLO-MERATE					
	1.0				REC=83%							
	1.0											
	1.0											
	1.0											
20	1.0	C-1 R-4	60/48	19-24	RQD=33%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with heavy iron staining on fracture surfaces moderately metamorphosed gray SHALE with 3" to 6" thick zones of conglomerate (1 mm+ diameter inclusions)						
	1.0				REC=80%							
	1.2											
	1.2											
	1.0											
25	1.0	C-1 R-5	60/60	24-29	RQD=82%	Soft, fresh, slightly fractured (horizontal to 20° fracture angles) with iron staining on fracture surfaces moderately metamorphosed gray SHALE. Some 1" to 3" thick lenses of CONGLOMERATE/SILTSTONE (1-2 mm diameter inclusions).						
	1.0				REC=100%							
	1.0											
	1.2							28'+				3
	1.5											4 5
30	1.5					END OF EXPLORATION AT 29'+						
35												

PVC RISER

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination noted.
4. 20' of .02" slotted, 2.0" diameter, Sch 40 PVC wellscreen was placed from 28' to 8' and topped with 8' of solid PVC riser tube. Filter sand ws poured up to 5' and a bentonite seal (hydrated upon placement) placed from 5' up to 4'+. Bentonite grout was placed from 4' up to 0.8'. The wellhead was secured with a 0.8' long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" concrete pad).
5. Approximately 260 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-320

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-321 SHEET 1 OF 1 FILE No. 3T288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/22/95 DATE END 11/27/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW - 2' OTHER:NX TYPE ROCK CORE COLLECTED FROM 2' - 27'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-28-95	0800	15.1	WELL	20 HOURS
11-29-95	1400	14.8	WELL	2 DAYS

DEPTH	COR/TIM	MIN/FT	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	14/8	0-1.2'	12-26	Very dense, brown TOPSOIL changing at 0.3'+ to brown/gray, coarse to fine+ SAND and Gravel, little+ Silt	APPARENT TOP OF BEDROCK	.8' BENT. GROUT	ND	ND	N	1 2
						100BL/2"							
	1.0		C-1 R-1	60/4	2-7	RQD=0	Soft, moderately weathered, severely fractured, (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces, slightly metamorphosed gray SHALE/SILTSTONE/SANDSTONE (alternating series)	1.2' SEVERELY FRACTURED SHALE/SILTSTONE/SANDSTONE	PVC RISER				
	0.8					REC=7%							
	0.8								4' BENT. SEAL				
5	1.0								5'				
	1.0												
	0.8		C-1 R-2	60/3	7-12	RQD=0%	Soft, moderately weathered, severely fractured, (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces, slightly metamorphosed gray SHALE/SILTSTONE/SANDSTONE (alternating series)		7'				
	0.8					REC=5%							
	1.0												
10	0.8												
	1.0												
	1.0		C-1 R-3	60/12	12-17	RQD=0%	Soft, moderately weathered, severely fractured, (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces, slightly metamorphosed gray SHALE/SILTSTONE/SANDSTONE (alternating series)		FILTER SAND				
	1.0					REC=20%							
	1.0												
15	1.0								PVC				
	1.0												
	0.8		C-1 R-4	60/2	17-22	RQD=0%	Soft, moderately weathered, severely fractured, (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces, slightly metamorphosed gray SHALE/SILTSTONE/SANDSTONE (alternating series)		SCREEN				
	0.8					REC=3%							
	1.0												
20	1.0												
	1.0												
	1.0		C-1 R-5	60/29	22-27	RQD=35%	Very soft, severely weathered, moderately fractured, slightly metamorphosed light gray SHALE (extremely friable along bedding planes)	22' META-MORPHOSED SHALE					
	1.0					REC=48%							
	1.0												
25	1.0												
	1.0								27'+				3 4 5
							END OF EXPLORATION AT 27'+						
30													
35													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination noted.
4. 20' of .02" slotted, 2.0" diameter, Sch 40 PVC wellscreen was placed from 27' to 7' and topped with 7' of solid PVC riser tube. Filter sand was poured up to 5' and a bentonite seal was placed (hydrated upon placement) from 5' up to 4'+. Bentonite grout was placed from 4' up to 0.8'+. The wellhead was secured with a 0.8' long flush mounted aluminium curb box grouted into the surface with concrete (2'x2'x4" concrete pad).
5. Approximately 300-gallons at drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-321

GZA GEOENVIRONMENTAL, INC.
140 BROADWAY, PROVIDENCE, RHODE ISLAND
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
DEFENSE FUEL SUPPLY CENTER
TANK FARM 3, PORTSMOUTH, RI

REPORT OF BORING No. GZ-322
SHEET 1 OF 1
FILE No. 31288.9
CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/22/95 DATE END 11/22/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW TO 6' OTHER: NX TYPE ROCK CORE COLLECTED FROM 6' - 26'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-22-95	1330	11.1	WELL	2 HOURS
11-27-95	0840	13.1	WELL	5 DAYS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/20	0-2	5-6	Medium dense, gray, coarse to fine+ SAND and Silt, little+ Gravel	SILTY GRAVELLY SAND (TILL)	.5' BENT. GROUT; 3' BENT. SEAL; 4' PVC RISER	ND	ND	N	1 2
					8-19							
	CORE TIME MIN./FT.					APPARENT TOP OF BEDROCK						
5		S-2	6/4	5-5.5	100/6"	Tan/orange weathered SANDSTONE	5.5' WEATHERED SANDSTONE	5.5'	ND	ND	N	3
	1.0	C-1 R-1	60/12	6-11	RQD=0%	Soft, severely weathered, highly fractured (horizontal to 90° fracture angles) with iron stained fracture surfaces, gray, slightly metamorphosed SANDSTONE						
	0.8				REC=20%							
	0.8											
	0.6											
10	0.8											
	1.0	C-1 R-2	60/14	11-16	RQD=17%	Soft, moderately weathered, highly fractured (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces, dark gray metamorphosed SHALE	11' META-MORPHOSED SHALE	FILTER SAND				
	0.8				REC=23%							
	1.0											
	1.2											
15	1.2											
	1.2	C-1 R-3	60/51	16-21	RQD=68%	Soft, fresh, very slightly fractured (horizontal fracture angles) with slight iron staining on fracture surfaces, gray/dark metamorphosed SHALE/SILTSTONE	16' META-MORPHOSED SHALE/SILTSTONE	PVC SCREEN				
	1.2				REC=85%							
	1.2											
	1.2											
20	1.2											
	1.2	C-1 R-4	60/60	21-26	RQD=98%	Soft, fresh, very slightly fractured (horizontal fracture angles) with slight iron staining on fracture surfaces, gray/dark metamorphosed SHALE/SILTSTONE						
	1.2				REC=100%							
	1.2											
	1.2											4 5 6
25	1.2							25.5'				
						END OF EXPLORATION AT 26'+						
30												
35												

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination encountered.
4. 20' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 25.5'+ up to 5.5' and topped with 5.5' of solid PVC riser tube. Filter sand was poured 4'+ and a bentonite seal (hydrated upon placement) was placed from 4' up to 3'+. Bentonite/cement grout was placed from 3' up to 0.8'+. The wellhead was secured with a flush mounted (0.8' long) aluminum curb box grouted into the surface with concrete (2'x2'x4" concrete pad).
5. Approximately 50 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-322

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORSTMOUTH, RI	REPORT OF BORING No. GZ-323 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 11/20/95 DATE END 11/21/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW TO 25'+ OTHER:NX TYPE ROCK CORE COLLECTED
3 3/4" HSA to 13'± FROM 18'+ TO 38'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-21-95	1215	21.1	WELL	0.5 HOURS
11-22-95	0830	21.4	WELL	20 HOURS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FIID	ODOR	REMKS
		S-1	24/16	0-2	6-5	Medium dense, brown, TOPSOIL changing at 0.5'+ to dark gray, coarse to fine+ SAND and Gravel (Shale)	TOPSOIL 0.5'	.8' PVC RISER; BENT. GROUT	0.2	1.2	N	1
					12-22		RE-WORKED TILL (FILL)					2
5		S-2	24/20	5-7	6-4	Loose, gray/tan/brown, coarse to fine SAND, some Gravel (Shale), some Silt (FILL)			70	600	ST	3
					5-6							
10								10' BENT. SEAL; 11'				
		S-3	24/12	13-15	4-8	Medium dense, gray/brown, coarse to fine SAND and Gravel (Shale), little+ Silt (Fill)		13'+ FILTER SAND	0.4	0.8	N	
15					6-10							
	CORE/TIME MIN./FT.					APPARENT TOP OF BEDROCK		PVC SCREEN				
20	0.8	C-1 R-2	60/60	18-23	RQD=13%	Soft, moderately weathered, severely fractured (horizontal to 60° fracture angles) with heavy iron staining on fracture surfaces gray, slightly metamorphosed SHALE	18' META-MORPHOSED SHALE					
	1.0				REC=100%							
	1.0											
	0.8											
	1.0						23'					
25	1.0	C-1 R-2	60/55	23-28	RQD=53%	Soft, moderately weathered, moderately fractured (horizontal to 90° fracture angles) with heavy iron manganese staining on fracture surfaces, light gray, SAND/SILTSTONE						
	0.8				REC=92%							
	1.0											
	1.0											
	1.2											
30	1.0	C-1 R-3	60/58	28-33	RQD=50%	Soft, moderately weathered, moderately fractured (horizontal to 90° fracture angles) with heavy iron manganese staining on fracture surfaces, light gray, slightly metamorphosed, SAND/SILTSTONE	META-MORPHOSED SAND/SILT STONE					
	1.0				REC=97%							
	1.2											
	1.0											
	1.0											
35	1.0	C-1 R-4	60/60	33-38	RQD=100%	Soft, fresh, sound, dark gray metamorphosed SHALE	33' META-MORPHOSED SHALE					
	1.2				REC=100%							
	1.2											4
	1.0											5
	1.0							38'				
						END OF EXPLORATION AT 38'+						

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Strong petroleum-like odor noticed in drill cuttings starting at 5'+.
4. 25' of .02" slotted, 2.0" diameter, Sch 40, PVC wellscreen was placed from 38'+ up to 13'+ and topped with 13' of solid PVC riser tube. Filter sand was poured up to 11' and a bentonite seal placed from 11' up to 10' (hydrated subsequent to placement. Bentonite grout was placed from 10' up to 0.8'+. The wellhead was secured with a 0.8' long aluminum flush mounted curb box grouted into the surface with concrete (2'x2'x4" concrete pad).
5. Approximately 240 gallons of drill water remained in the formation upon well completion.

BORING No. GZ-323

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-324 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/28/95 DATE END 11/29/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW TO 25'+ OTHER:NX TYPE ROCK CORE COLLECTED
3 3/4" ID HSA to 13'± FROM 15'+ - 30'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-29-95	1400	15.2	WELL	2 HOURS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/20	0-2	3-2	Very loose, tan fine SAND and Silt, trace Organics (roots, etc.)	SILTY FINE SAND	.8' PVC RISER; BENT. GROUT	ND	ND	N	1
					2-2							2
							3.5'+ TILL					
5		S-2	24/18	5-7	32-33	Very dense, dark gray, coarse to fine+ SAND and Gravel (SHALE), little+ Silt (TILL) changing at 6'+ to red, coarse to fine+ SAND and Gravel (SHALE), little+ Silt (TILL)		5' BENT. SEAL; 6'	ND	ND	N	
					36-40							
		S-3	24/16	8-10	38-44	Very dense, tan/gray, coarse to fine+ SAND and Gravel, little+ Silt (TILL)		9'+	ND	0.8	N	
10					70-63							
		S-4	24/14	13-15	85-25	Very dense, tan/gray, coarse to fine+ SAND and Gravel, little+ Silt (TILL) changing at 14.8'+ to moderately weathered gray SHALE	APPARENT TOP OF BEDROCK	FILTER SAND	ND	ND	N	
15	CORE/TIME MIN./FT.				32-60							
	1.0	C-1 R-1	60/11	15-20	RQD=10%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with heavey iron/manganese staining on fracture surfaces, moderately metamorphosed, gray SHALE with 1'-2' thick conglomerated zone (1-4mm diameter inclusions)	14.8'+	PVC SCREEN				
	1.0				REC=18%							
	0.8											
	0.8											
20	0.8											
	0.8	C-1 R-2	60/42	20-25	RQD=37%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, moderately metamorphosed, gray SHALE with three 1mm thick quartz veins	META-MORPHOSED HALE WITH LENSES OF CON-GLOMERATE					
	1.0				REC=70%							
	1.0											
	1.0											
25	1.0											
	1.0	C-1 R-3	60/36	25-30	RQD=42%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, moderately metamorphosed, gray SHALE with 1'-2' thick conglomerated zone (1-4mm diameter inclusions)						
	1.0				REC=60%							
	1.0											
	1.0							29'+				3
	1.0											4
30												5
						END OF EXPLORATION AT 30'+						
35												

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination encountered.
4. 20' of .02" slotted 2.0" diameter, Sch 40 PVC wellscreen was placed from 29'+ up to 9'+ and topped with 9' of solid PVC riser tube. Filter sand was poured up to 6'+ and a bentonite seal (hydrated upon placement) was placed from 6' up to 5'. Bentonite grout was placed from 5' up to 0.8'+. The wellhead was secured with a 0.8' long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" thick concrete pad).
5. Approximately 60 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-324

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-325 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/16/95 DATE END 11/17/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW TO 30'+ OTHER:NX TYPE ROCK CORE COLLECTED FROM 10'+ - 30'+
3 3/4" HSA - 8'

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11-20-95	0800	13.2	WELL	3 DAYS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/22	0-2	2-2	Very loose, brown, TOPSOIL, changing at 0.5'+ to tan SILT and fine Sand	TOPSOIL	.8' PVC RISER BENT. GROUT	0.2	1.0	N	1 2
					2-3		0.5'+ SANDY SILT	3' BENT. SEAL				
5		S-2	24/20	5-7	28-36	Very dense, tan/gray, coarse to fine+ SAND and Gravel (Shale), little+ Silt (TILL)	4'+ TILL	4' 5'+	ND	ND	N	
					51-55				ND	ND	N	
						APPARENT TOP OF BEDROCK						
		S-3	24/18	8-10	30-42	Very dense, gray, severely weathered SHALE	8'+ SEVERELY WEATHERED SHALE					
10	CORE/TIME MIN./FT.				56-81							
	1.0	C-1 R-1	60/41	10-15	RQD=30%	Soft, moderately weathered, severely fractured (horizontal to 90° fracture angles) with iron manganese staining on fracture surfaces, slightly metamorphosed gray/light gray SHALE	10'+					
	0.8				REC=68%							
	0.8											
	0.6							FILTER SAND				
	0.8											
15	1.0	C-1 R-2	60/53	15-20	RQD=60%	Soft, fresh, moderately fractured (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces moderately metamorphosed gray SHALE	META-MORPHOSED SHALE WITH LENSES OF SILT/ SANDSTONE AND CONGLOMERATE	PVC SCREEN				
	1.0				REC=88%							
	1.0											
	1.0											
	1.0											
20	1.0	C-1 R-3	60/60	20-25	RQD=72%	Soft, fresh, moderately fractured (horizontal to 90° fracture angles) with iron staining on fracture surfaces metamorphosed, gray SHALE with four approximate 6" thick zones of SILT/SANDSTONE						
	1.0				REC=100%							
	1.2											
	1.2											
	1.2											
25	1.0	C-1 R-4	60/60	25-30	RQD=91%	Soft, fresh, sound, gray metamorphosed SHALE/SILTSTONE intermittent 0.5" - 4" thick zones of SILTSTONE conglo-erate with 1-2mm diameter inclusions						
	1.0				REC=100%							
	1.2											
	1.2											3 4 5 6
	1.2							30'+				
30						END OF EXPLORATION AT 30'+						
35												

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Borehole collapse (shale) encountered upon core barrel withdrawal (C-1/R-4)/3" casing advanced to 30' for well installation.
4. Moderate petroleum-like odor noticed during rock coring from 15 to 30'+.
5. 25' of .02" slotted 2.0" diameter, Sch 40 PVC wellscreen was placed from 30'+ up to 5'+ and topped with 5' of solid PVC riser tube. Filter sand was poured up to 4'+ and a bentonite seal (hydrated upon placement) was placed from 4' up to 3'. Bentonite/cement grout was placed from 3' up to 0.8'+. The wellhead was secure with 0.8' long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" thick concrete pad).
6. Drill water FID readings were >20ppm; 50 gallons containerized.
7. Approximately 300 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-325

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-326 SHEET 1 Of 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/29/95 DATE END 11/30/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3 3/4" HSA to 9' OTHER: NX TYPE ROCK CORE COLLECTED 3"NW to 26'+ FROM 11'+ - 29'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
11/30/95	1000	14.7	WELL	0.5 HRS
12/19/95	1000	15.1	WELL	19 DAYS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/24	0-2	2-4	Loose TOPSOIL, changing at 0.8'+ to tan/brown, fine SAND, some+ Silt	TOPSOIL	.8' BENT. GROUT; PVC RISER	ND	ND	N	1 2
					3-4		0.8'+ SILTY FINE SAND	3'				
5		S-2	24/19	5-7	17-14	Medium dense, tan/gray, coarse to fine SAND and Gravel (Shale), little+ Silt	4'+ TILL	4' 6'+	ND	ND	N	
					10-21							
	CORE TIME MIN./FT.											
		S-3	24/18	9-11	6-11	Medium dense, tan/gray, coarse to fine SAND and Gravel (Shale), little+ Silt changing to 10.2'+ to dark gray highly weathered SHALE		PVC SCREEN	ND	ND	N	
10					14-10	APPARENT TOP OF BEDROCK						
	1.0	C-1 R-1	60/11	11-16	RQD=0%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with iron staining on fracture surfaces moderately metamorphosed gray SHALE	10.2'+	FILTER SAND				
	1.0				REC=18%							
	1.0											
	1.0											
15	1.0											
	1.2	C-1 R-2	60/24	16-21	RQD=0%	Soft, moderately weathered severely fractured (horizontal to 90° fracture angles) with iron staining on fracture surfaces moderately metamorphosed gray SHALE	META-MORPHOSED SHALE					
	1.2				REC=40%							
	1.0											
	1.0											
20	1.2											
	1.0	C-1 R-3	60/19	21-26	RQD=18%	Soft, moderately weathered, moderately fractured, (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces moderately metamorphosed, gray SHALE						
	1.0				REC=32%							
	1.0											
	1.0											
25	1.0							26'+				
	1.0	C-1 R-4	36/36	26-29	RQD=100%	Soft, fresh, sound, metamorphosed gray SHALE						
	1.2				REC=100%							3 4 5
	1.0											
30						END OF EXPLORATION AT 29'+						
35												

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination encountered.
4. 20' of .02" slotted, 2.0" diameter, Sch 40 PVC wellscreen was placed from 26'+ up to 6'+ and topped with 6' of solid PVC riser tube. Filter sand was poured up to 4'+ and a bentonite seal (hydrated upon placement) was placed from 4' up to 3'+. Bentonite/cement grout was placed from 3' up to 0.8'+. The wellhead was secured with a 0.8'+ long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" thick concrete pad).
5. Approximately 100 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-326

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-327 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 11/30/95 DATE END 12/01/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW TO 25'+ 3 3/4" HSA TO 11' OTHER: NX TYPE ROCK CORE COLLECTED FROM 12'+ TO 30'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12-04-95	0730	17.5	WELL	2.5 DAYS
12-19-95	1300	17.1	WELL	18 DAYS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/23	0-2	4-2	Loose, brown TOPSOIL, changing at 0.3' to tan/brown, fine SAND and Silt	TOPSOIL	.8' PVC RISER; BENT. GROUT	ND	ND	N	1 2
					4-2		0.3'+ SILTY FINE SAND					
5		S-2	24/16	5-7	23-21	Very dense, dark gray, coarse to fine+ SAND and Gravel, little+ Silt (TILL)	4'+ TILL	4' BENT. SEAL; 5'	ND	ND	N	
					25-33							
						APPARENT TOP OF BEDROCK		7.5'				
10							9'+	PVC SCREEN				
	CORE/TIME MIN./FT.											
	1.0	C-1 R-1	60/50	12-17	RQD=0%	Soft, moderately weathered, severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, slightly metamorphosed, gray SHALE.		FILTER SAND				
	1.0				REC=8%							
15	1.0											
	1.0											
	1.0											
	1.0	C-1 R-2	60/17	17-22	RQD=0%	Soft, moderately weathered, severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, slightly metamorphosed, gray SHALE.	META-MORPHOSED SHALE WITH LENSES OF SAND-STONE AND QUARTZ					
	1.0				REC=28%							
20	1.0											
	1.0											
	1.0											
	0.8	C-1 R-3	60/18	22-27	RQD=10%	Soft, moderately weathered, severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, slightly metamorphosed, gray SHALE with four-1" thick lenses of sandstone						
	1.0				REC=30%							
25	1.0											
	0.8											
	1.0											
	1.0	C-1 R-4	36/22	27-30	RQD=19%	Soft, fresh, moderately fractured (vertical fractures) with heavy iron staining on fracture surfaces moderately metamorphosed, gray SHALE. 1-2mm thick+ intrusive quartz vein at 27'+		27.5'+				
	1.0				REC=61%							3 4 5
	1.0											
30						END OF EXPLORATION AT 30'+						
35												

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. No visual/olfactory evidence of contamination encountered.
4. 20' of .02" slotted, 2.0" diameter, Sch 40 PVC wellscreen was placed from 27.5' to 7.5'+ and topped with 7.5' of solid PVC riser tube. Filter sand was poured up to 5'+ and a bentonite seal placed (hydrated upon placement) from 5' up to 4'+. Bentonite/cement grout was placed from 4'+ up to 0.8'+. The wellhead was secured with a 0.8'+ long flush mounted aluminum curb box grouted into the surface with concrete (2'x2'x4" thick concrete pad).
5. Approximately 50 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-327

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. GZ-328 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 12/04/95 DATE END 12/04/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: 3" NW TO 25' 3 3/4" HSA TO 5'+ OTHER: NX TYPE ROCK CORE COLLECTED FROM 15'+ TO 29'+

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12-04-95	1415	14.2	WELL	0.7 HOURS
12-19-95	1300	15.7	WELL	15 DAYS

DEPTH		SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED			FIELD TESTING PID	FID	ODOR	REMKS
		S-1	24/24	0-2	2-1	Very loose, brown TOPSOIL, changing at 0.3'+ to tan/brown, fine SAND and Silt	TOPSOIL	.8'	PVC RISER	BENT. GROUT	0.4	4.5	ST	1 2 3
					2-2		0.3'+ SILTY FINE SAND							
5		S-2	24/16	5-7	12-24	Very dense, dark gray, coarse to fine+ SAND, some+ Gravel, little+ Silt (TILL)	5'+ TILL	6'		BENT. SEAL	ND	ND	SL	
	CORE/TIME MIN./FT.				48-72									
	1.0	C-1 R-1	60/0	7-12	RQD=0%	No Recovery	7'+ BOULDERS	7'		9'+				
	0.8				REC=0%									
10	0.8													
	0.8													
	0.6										ND	ND	N	
		S-3	24/8	12-14	21-34	Very dense, dark gray, coarse to fine SAND, some Gravel, little+ Silt (TILL)	12' TILL			FILTER SAND	ND	ND	N	
					29-50									
		S-4	7/4	14-14.6	44-100/1"	APPARENT TOP OF BEDROCK								
15	1.0	C-1 R-2	60/6	15-20	RQD=7%	Soft, moderately weathered, severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, slightly metamorphosed light gray, SHALE	15'+							
	0.8				REC=10%									
	0.8													
	0.8													
	0.8								PVC					
20	1.0	C-1 R-3	60/20	20-25	RQD=8%	Soft, moderately weathered, severely fractured (horizontal to 90° fracture angles) with heavy iron/manganese staining on fracture surfaces, slightly metamorphosed light gray, SHALE	META-MORPHOSED SHALE		SCREEN					
	0.8				REC=33%									
	0.8													
	1.0													
	1.0													
25	1.0	C-1 R-4	48/47	25-29	RQD=63%	Soft, fresh, slightly fractured (horizontal to 90° fracture angles) with iron/manganese staining on fracture surfaces moderately metamorphosed, light gray SHALE with one-6" lense of SANDSTONE								
	1.0				REC=98%									
	1.2													
	1.2									29'+				4 5
30						END OF EXPLORATION AT 29'+								
35														

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. ST indicates strong odor, SL (slight odor), N (no odor).
3. Strong chemical-like odor noted in S-1 (0-2'); no petroleum-like odors noted during drilling.
4. 20' of 0.02" slotted, 2.0" diameter, Sch 40 PVC wellscreen was placed from 29'+ up to 9' and topped with 9' of solid PVC riser tube. Filter sand was poured up to 7'+ and a bentonite seal (hydrated upon placement) placed from 7' up to 6'+. Bentonite/cement grout was placed from 6' up to 0.8'+. The wellhead was secured with a 0.8'+ long flush mounted aluminum curb box grouted into the surface (2'x2'x4" thick concrete pad).
5. Approximately 80 gallons of drill water remained in the formation upon well completion.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. GZ-328

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-1 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/06/95 DATE END 12/06/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/6/95	1115	None	13'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/24	0-2	4-7	Medium dense, gray/tan, coarse to fine SAND and Gravel (SHALE), little+ Silt	RE-WORKED TILL (FILL)		2.0	5.5	SL	1
						4-6							2
									BENTONITE GROUT				
5			S-2	24/18	5-7	6-7	Medium dense, gray, coarse to fine+ SAND and Gravel (SHALE), little+ Silt			45	200	ST	4
						8-6							
10			S-3	24/16	10-12	10-8	Medium dense, gray, coarse to fine+ SAND and Gravel (SHALE), little+ Silt, changing at 11.5'± to gray, weathered SHALE			8	20	ST	
						10-15		11.5' WEATHERED SHALE					
			S-4	24/0	13-15	30-66	REFUSAL: NO RECOVERY						3
						99-115							5
15							End of Exploration at 15'±						
20													
25													
30													
35													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. SL indicates slight odor; ST indicates strong odor; odors were petroleum-like.
3. Boring filled with grout upon completion of testing.
4. Soil sample labelled B-51, S-2, 5-7' is blind duplicate of B-1, S-2, 5-7'.
5. An approximate 50-gallon volume of drill cuttings was containerized (petroleum contaminated).

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-1

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORSTMOUTH, RI	REPORT OF BORING No. B-2 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/06/95 DATE END 12/06/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/6/95	900	None	13'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/17	0-2	2-3	Medium dense, tan/gray, fine SAND and Silt, little- Gravel	SILTY FINE SAND	BENTONITE GROUT	8	20	SL	1 2
						7-9							
								3' TILL					
5			S-2	24/19	5-7	12-15	Medium dense, gray, coarse to fine+ SAND and Gravel (SHALE), little+ Silt			ND	ND	N	
						15-19							
10			S-3	24/18	10-12	44-50	Very dense, gray, coarse to fine+ SAND, little+ Gravel, little+ Silt, changing at 11.5'+ to gray, weathered SHALE			ND	ND	N	
						67-89		11.5' WEATHERED SHALE					
			S-4	24/2	13-15	20-30	Very dense, gray, weathered SHALE			ND	ND	N	3 4
						94-119							
15							End of Exploration at 15'±						
20													
25													
30													
35													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. SL indicates sligh odor (petroleum-like); N indicates no odor.
3. Boring filled with grout upon completion of test boring.
4. An approximate 15-gallon volume of drill cuttings was containerized (petroleum contaminated).

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-2

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-3 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/07/95 DATE END 12/07/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/7/95	0930	NONE	13'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/22	0-2	6-7	Medium dense, brown TOPSOIL, changing at 0.5'± to tan, fine SAND and SILT, trace fine Gravel	TOPSOIL	BENTONITE GROUT	0.2	1.2	SL	1
						6-5		0.5' SILTY FINE SAND					2
								3' TILL					
5			S-2	24/12	5-7	14-18	Dense, gray, coarse to fine+ SAND and GRAVEL (SHALE) little+ Silt, changing at 6.3'± to gray, severly weathered SHALE			0.8	3.2	SL	
						14-20		6.3' WEATHERED SHALE					
10			S-3	24/8	10-12	24-20	Very dense, brown/gray, severly weathered SHALE			ND	ND	N	
						33-47							
			S-4	24/15	13-15	33-67	Very dense, gray SHALE			ND	ND	N	
						93-120							3
15							End of Exploration at 15'±						
20													
25													
30													
35													
40													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. SL indicates slight odor (petroleum-like); N indicates no odor.
3. Boring filled with grout upon completion of test boring.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-3

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORSTMOUTH, RI	REPORT OF BORING No. B-4 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 12/06/95 DATE END 12/06/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/6/95	1200	None	8'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/17	0-2	5-6	Medium dense, gray, coarse to fine+ SAND and Gravel (SHALE), little+ Silt (TILL)	RE-WORKED TILL (FILL)		0.4	0.6	SL	1 2
						7-7							
5			S-2	24/19	5-7	4-14	Dense, gray, coarse to fine+ SAND and Gravel (SHALE) little+ Silt	4' TILL	BENTONITE GROUT	ND	ND	N	
						19-27							
			S-3	1/0	8-8.1	100/<1"	REFUSAL: NO RECOVERY						3
							End of Exploration at 8.1'±	(APPARENT BEDROCK)					
10													
15													
20													
25													
30													
35													
40													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor, SL indicates slight odor (petroleum-like).
3. Boring filled with grout upon completion of test boring.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-4

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-5 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 12/06/95 DATE END 12/06/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/6/95		None	10'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/12	0-2	2-2	Loose, tan/gray, fine SAND and Silt, little- Gravel	TOPSOIL	BENTONITE GROUT	ND	0.2	N	1
						2-2		0.3' SANDY SILT					2
5			S-2	24/20	5-7	6-10	Medium dense, gray/brown, severly weathered SHALE	4' WEATHERED SHALE		28	75	ST	
						7-9							
10			S-3	24/1	10-12	15-24	Very dense SHALE			20	60	ST	
						96-107							3 4
							End of Exploration at 12'±						
15													
20													
25													
30													
35													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor, ST indicates strong odor (petroleum-like).
3. Boring filled with grout upon completion of test boring.
4. An approximate 20-gallon volume of drill cuttings was containerized (petroleum contaminated).

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-5

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-6 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION _____ DATUM _____
DATE START 12/05/95 DATE END 12/05/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/5/95		None	10'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/18	0-2	3-2	Loose, brown, TOPSOIL, changing at 0.3'± to tan, fine SAND and Silt	TOPSOIL		ND	ND	N	1
						5-6		0.3' SILTY FINE SAND					2
									BENTONITE GROUT				
5			S-2	24/16	5-7	22-35	Very dense, black, medium to fine+ SAND, changing at 6'± to black SHALE	5' SAND		54	300	ST	
						70-64		6' WEATHERED SHALE					
													4
10			S-3	24/24	10-12	10-13	Dense, gray, severly weathered SHALE			46	260	ST	
						26-39							3 5
							End of Exploration at 12'±						
15													
20													
25													
30													
35													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor; ST indicates strong odor (petroleum-like).
3. Boring filled with grout upon completion of testing.
4. Soil sample labelled B-50, S-1, 0-2' is blind duplicate of B-6, S-3, 10-12'.
5. An approximate 50-gallon volume of drill cuttings was containerized (petroleum contaminated).

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-6

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-7 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/05/95 DATE END 12/05/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/5/95	1000	None	15'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/20	0-2	2-2	Very loose, tan, fine SAND and Silt, trace Organics (root, etc.)	SILTY FINE SAND	BENTONITE GROUT	0.4	2.0	SL	1
						1-2							2
								3' TILL					
5			S-2	24/22	5-7	14-14	Dense, tan, coarse to fine+ SAND and Gravel, little+ Silt			0.4	3.0	SL	
						12-14							
								9' WEATHERED SHALE					
10			S-3	24/19	10-12	2-2	Very loose, gray, completely weathered SHALE (Kaolinized)			0.2	0.6	N	
						2-3							
15			S-4	1/0	15-15.1	100/<1"	REFUSAL: NO SAMPLE						3
							End of Exploration at 15.1'±						
20													
25													
30													
35													
40													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. SL indicates slight odor, petroleum-like; N indicates no odor.
3. Boring filled with grout upon completion of test boring.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-7

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-8 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/05/95 DATE END 12/05/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/5/95	1200	None	9'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMARKS
			S-1	24/10	0-2	2-1	Very loose, brown TOPSOIL, changing at 0.3'± to tan/brown, fine SAND and Silt	TOPSOIL	BENTONITE GROUT	ND	ND	N	1
						2-3		0.3' SILTY SAND					2
								3' TILL					
5			S-2	24/20	5-7	18-20	Dense, tan/gray, coarse to fine+ SAND and Gravel, little+ Silt (TILL), changing at 6.8'± to gray SHALE			0.2	0.8	N	
						21-27		6.8' WEATHERED SHALE					
			S-3	1/0	9-9.1	100/<1"	REFUSAL: NO SAMPLE						3
10							End of Exploration at 9.1'±						
15													
20													
25													
30													
35													
40													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Boring filled with grout upon completion of test boring.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-8

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORTSMOUTH, RI	REPORT OF BORING No. B-9 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/05/95 DATE END 12/06/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 In.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 In.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/6/95	900	None	13'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/16	0-2	2-2	Very loose, brown TOPSOIL, changing at 0.3'± to tan, fine SAND and Silt	TOPSOIL	Bentonite Seal	ND	ND	N	1
						2-2		0.3' SILTY FINE SAND					2
5			S-2	24/18	5-7	26-38	Very dense, gray/brown, coarse to fine+ SAND, some Gravel, little+ Silt	4' TILL		ND	ND	N	
						44-30							
								8' WEATHERED SHALE					
10			S-3	24/18	10-12	10-17	Dense, gray/brown SHALE			ND	ND	N	
						28-49							3
							End of Exploration at 12'±						
15													
20													
25													
30													
35													
40													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Boring filled with grout upon completion of test boring.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-9

GZA GEOENVIRONMENTAL, INC. 140 BROADWAY, PROVIDENCE, RHODE ISLAND GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS	PROJECT DEFENSE FUEL SUPPLY CENTER TANK FARM 3, PORSTMOUTH, RI	REPORT OF BORING No. B-10 SHEET 1 OF 1 FILE No. 31288.9 CHKD. BY ABU

BORING Co. GZA DRILLING, INC.
FOREMAN CHRIS LENLING
GZA ENGINEER MARK DALPE

BORING LOCATION REFER TO EXPLORATION LOCATION PLAN
GROUND SURFACE ELEVATION DATUM
DATE START 12/05/95 DATE END 12/05/95

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 140 lb. HAMMER FALLING 30 in.

CASING: UNLESS OTHERWISE NOTED, CASING DRIVEN USING A 300 lb. HAMMER FALLING 24 in.

CASING SIZE: OTHER: HSA 3 3/4" ID

GROUNDWATER READINGS

DATE	TIME	WATER	CASING	STABILIZATION TIME
12/5/95	1330	None	10'	5 MIN

DEPTH	CASING	BLOWS	SAMPLE No.	PEN./REC.	DEPTH (Ft.)	BLOWS/6"	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	FIELD TESTING PID	FID	ODOR	REMKS
			S-1	24/17	0-2	3-3	Loose, tan/brown TOPSOIL, changing at 0.3'± to tan, fine SAND and Silt	TOPSOIL		ND	ND	N	1
						2-2		0.3' SILTY-FINE SAND					2
								4'					
5			S-2	24/18	5-7	21-25	Very dense, gray/black, coarse to fine+ SAND and Gravel, little+ Silt, changing at 6.8'± to gray SHALE	TILL	BENTONITE GROUT	ND	ND	N	
						40-55		6.8' WEATHERED SHALE					
10			S-3	24/20	10-12	25-27	Very dense, gray SHALE			ND	ND	N	
						46-62							3
							End of Exploration at 12'±						
15													
20													
25													
30													
35													
40													

1. Soil headspace screening was conducted employing a HNU systems Model PI-101 photoionization detector (PID) equipped with a 10.2 eV lamp and a Century Model OVA-128 equipped with a hydrogen flame ionization detector (FID). Readings are reported in parts per million (ppm). ND indicates not detected above the instrument detection limit of 0.1 ppm.
2. N indicates no odor.
3. Boring filled with grout upon completion of test boring.

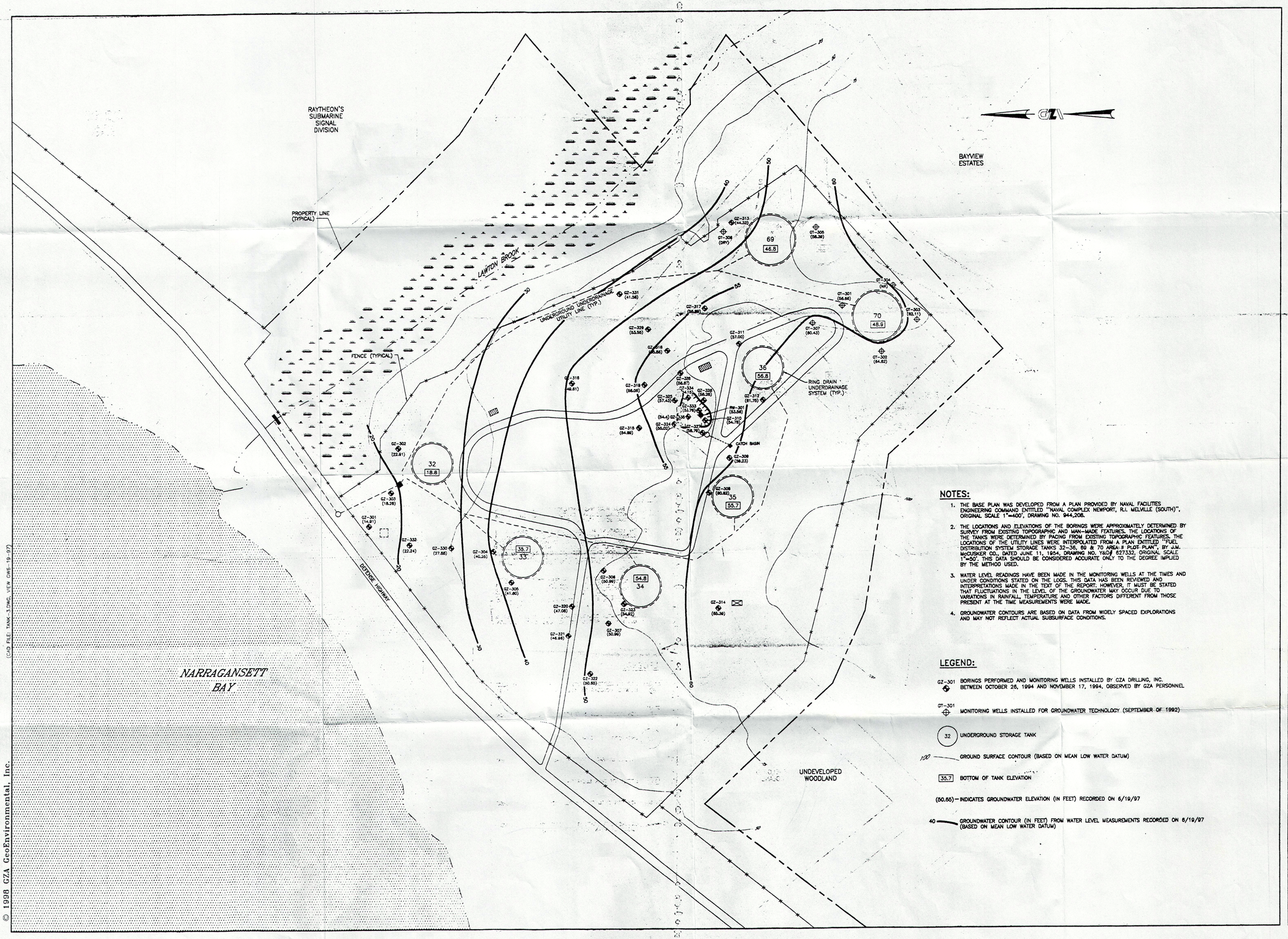
NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

GZA

BORING No. B-10

APPENDIX C

GROUNDWATER CONTOUR MAP



NOTES:

1. THE BASE PLAN WAS DEVELOPED FROM A PLAN PROVIDED BY NAVAL FACILITIES ENGINEERING COMMAND ENTITLED "NAVAL COMPLEX NEWPORT, R.I. MELVILLE (SOUTH)", ORIGINAL SCALE 1"=400', DRAWING NO. 944,208.
2. THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE APPROXIMATELY DETERMINED BY SURVEY FROM EXISTING TOPOGRAPHIC AND MAN-MADE FEATURES. THE LOCATIONS OF THE TANKS WERE DETERMINED BY PACING FROM EXISTING TOPOGRAPHIC FEATURES. THE LOCATIONS OF THE UTILITY LINES WERE INTERPOLATED FROM A PLAN ENTITLED "FUEL DISTRIBUTION SYSTEM STORAGE TANKS 32-36, 69 & 70 AREA: II PLOT PLAN", BY J.M. McCUSKER CO., DATED JUNE 11, 1954, DRAWING NO. Y&D# 627332, ORIGINAL SCALE 1"=50'. THIS DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
3. WATER LEVEL READINGS HAVE BEEN MADE IN THE MONITORING WELLS AT THE TIMES AND UNDER CONDITIONS STATED ON THE LOGS. THIS DATA HAS BEEN REVIEWED AND INTERPRETATIONS MADE IN THE TEXT OF THE REPORT. HOWEVER, IT MUST BE STATED THAT FLUCTUATIONS IN THE LEVEL OF THE GROUNDWATER MAY OCCUR DUE TO VARIATIONS IN RAINFALL, TEMPERATURE AND OTHER FACTORS DIFFERENT FROM THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.
4. GROUNDWATER CONTOURS ARE BASED ON DATA FROM WIDELY SPACED EXPLORATIONS AND MAY NOT REFLECT ACTUAL SUBSURFACE CONDITIONS.

LEGEND:

GZ-301 — BORINGS PERFORMED AND MONITORING WELLS INSTALLED BY GZA DRILLING, INC. BETWEEN OCTOBER 26, 1994 AND NOVEMBER 17, 1994, OBSERVED BY GZA PERSONNEL

GT-301 — MONITORING WELLS INSTALLED FOR GROUNDWATER TECHNOLOGY (SEPTEMBER OF 1992)

32 — UNDERGROUND STORAGE TANK

100 — GROUND SURFACE CONTOUR (BASED ON MEAN LOW WATER DATUM)

35.7 — BOTTOM OF TANK ELEVATION

(50.66) — INDICATES GROUNDWATER ELEVATION (IN FEET) RECORDED ON 6/19/97

40 — GROUNDWATER CONTOUR (IN FEET) FROM WATER LEVEL MEASUREMENTS RECORDED ON 6/19/97 (BASED ON MEAN LOW WATER DATUM)

REV#	DESCRIPTION	BY	DATE

SCALE IN FEET 0' 100' 200' 400'

GZA GeoEnvironmental, Inc.

PROJ. MGR. ABU
CHK'D BY: ABU
REV'D BY: JPH
DRAWN BY: BAW
SCALE: 1"=100'
DATE: JAN., 1998

DFSC/TANK FARM 3
PORTSMOUTH, RHODE ISLAND

GROUNDWATER CONTOUR PLAN (6/19/97)

PROJECT NO. 31288.9

FIGURE NO. 2

(CAD FILE: TANK-3.DWG, VIEW GW6-19-97)

© 1998 GZA GeoEnvironmental, Inc.

APPENDIX D

ANALYTICAL DATABASE (EXISTING CONDITIONS)

SAMPLE ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
LOCATION ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
SAMPLE DATE	07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA	NA	21 U	100	21 U	23 U	20 U	24 U	21 U	NA	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA	NA	21 U	19 U	21 U	23 U	20 U	24 U	21 U	NA	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA	NA	21 U	19 U	21 U	23 U	20 U	24 U	21 U	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA	NA	260 U	430	260 U	280	250 U	300 U	270 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
LOCATION ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
SAMPLE DATE	07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM
BENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
BROMOBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.8 U	5.3 U	5.7 U	5 U	5.9 U	5.4 U	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.8 U	5.3 U	5.7 U	5 U	5.9 U	5.4 U	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.8 U	5.3 U	5.7 U	5 U	5.9 U	5.4 U	NA	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
M+P-XYLENES	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.8 U	5.3 U	5.7 U	5 U	5.9 U	5.4 U	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.8 U	5.3 U	5.7 U	5 U	5.9 U	5.4 U	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	26 U	24 U	26 U	28 U	25 U	30 U	27 U	NA	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
O-XYLENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
LOCATION ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
SAMPLE DATE	07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.4 U	2.6 U	2.8 U	2.5 U	3 U	2.7 U	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	5.3 U	4.8 U	5.3 U	5.7 U	5 U	5.9 U	5.4 U	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA	NA	NA	1600 U	780 U	1600 U	1600 U	770 U	810 U	790 U	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	1600 U	780 U	1600 U	1600 U	770 U	810 U	790 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
LOCATION ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
SAMPLE DATE	07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	1600 U	780 U	1600 U	1600 U	770 U	810 U	790 U	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
ANILINE	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	1600 U	780 U	1600 U	1600 U	770 U	810 U	790 U	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
LOCATION ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
SAMPLE DATE	07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	4000 U	1900 U	4000 U	4000 U	1900 U	2000 U	2000 U	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA	NA	NA	790 U	390 U	800 U	790 U	390 U	400 U	390 U	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	400 U	190 U	400 U	400 U	190 U	200 U	200 U	NA	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	87.4	89.5	92.9	87.7	91.3	91.4	87.4	85	81.5	85.2	81.2	82.7	85.7	82.9	83.9	85.8	86.5
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0_20040726	TF3-004-TP2-NS-1.0_20040902	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS-1.0_20040927	TF3-004-TP3-NS-A-NS-1.0_20041217	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES-D	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
LOCATION ID	TF3-004-TP1-SS-1.0	TF3-004-TP2-ES-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-NS-1.0	TF3-004-TP2-SS-1.0	TF3-004-TP2-WS-1.0	TF3-004-TP3-ES-1.0	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-NS	TF3-004-TP3-NS-A-WS	TF3-004-TP3-NS-B-ES	TF3-004-TP3-NS-B-NS	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-ES	TF3-004-TP3-SS-A-WS	TF3-005-TP1-ES-1.0	TF3-005-TP1-NS-1.0
SAMPLE DATE	07/21/04	07/26/04	07/26/04	09/02/04	07/26/04	07/26/04	07/21/04	09/27/04	12/17/04	09/27/04	12/17/04	12/17/04	09/23/04	09/23/04	09/23/04	07/28/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM
DIESEL RANGE ORGANICS	0.59 U	0.55 U	0.51 U	0.59 U	0.50 U	0.55 U	19	10	NA	1.2 U	8.9	20	1 U	27	42	0.56 U	0.55 U
GASOLINE RANGE ORGANICS	43	10	630	3.8 U	92	25	22	160	NA	1500	130	2600	170	440	1500	16	100
TOTAL PETROLEUM HYDROCARBONS	43	10	630	0.00 U	92	25	41	170	NA	1500	138.9	2620	170	467	1542	16	100

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728
LOCATION ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0
SAMPLE DATE	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04	09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
2-BUTANONE	NA	NA	NA	NA	23 U	NA	21 U	NA	18 U	24 U	19 U	20 U	NA	26 U	NA	19 U	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
2-HEXANONE	NA	NA	NA	NA	23 U	NA	21 U	NA	18 U	24 U	19 U	20 U	NA	26 U	NA	19 U	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	23 U	NA	21 U	NA	18 U	24 U	19 U	20 U	NA	26 U	NA	19 U	NA
ACETONE	NA	NA	NA	NA	130	NA	120	NA	220 U	300 U	230 U	250 U	NA	140	NA	130	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728
LOCATION ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0
SAMPLE DATE	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04	09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
BROMOBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
BROMOFORM	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
BROMOMETHANE	NA	NA	NA	NA	5.8 U	NA	5.3 U	NA	4.5 U	5.9 U	4.6 U	5.1 U	NA	6.4 U	NA	4.8 U	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
CHLOROBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
CHLOROETHANE	NA	NA	NA	NA	5.8 U	NA	5.3 U	NA	4.5 U	5.9 U	4.6 U	5.1 U	NA	6.4 U	NA	4.8 U	NA
CHLOROFORM	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
CHLOROMETHANE	NA	NA	NA	NA	5.8 U	NA	5.3 U	NA	4.5 U	5.9 U	4.6 U	5.1 U	NA	6.4 U	NA	4.8 U	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
DIBROMOMETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
ETHYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
M+P-XYLENES	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	5.8 U	NA	5.3 U	NA	4.5 U	5.9 U	4.6 U	5.1 U	NA	6.4 U	NA	4.8 U	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	5.8 U	NA	5.3 U	NA	4.5 U	5.9 U	4.6 U	5.1 U	NA	6.4 U	NA	4.8 U	NA
NAPHTHALENE	NA	NA	NA	NA	29 U	NA	27 U	NA	22 U	30 U	23 U	25 U	NA	32 U	NA	24 U	NA
N-BUTYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
N-PROPYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
O-XYLENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
STYRENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
TETRACHLOROETHENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
TOLUENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3	2.6	2.5 U	NA	3.2 U	NA	2.4 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728
LOCATION ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0
SAMPLE DATE	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04	09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
TRICHLOROETHENE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	2.9 U	NA	2.7 U	NA	2.2 U	3 U	2.3 U	2.5 U	NA	3.2 U	NA	2.4 U	NA
VINYL CHLORIDE	NA	NA	NA	NA	5.8 U	NA	5.3 U	NA	4.5 U	5.9 U	4.6 U	5.1 U	NA	6.4 U	NA	4.8 U	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2-CHLOROPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
2-METHYLPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
2-NITROANILINE	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
2-NITROPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	780 U	NA	780 U	NA	1500 U	760 U	800 U	740 U	NA	770 U	NA	770 U	NA
3-NITROANILINE	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	780 U	NA	780 U	NA	1500 U	760 U	800 U	740 U	NA	770 U	NA	770 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728
LOCATION ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0
SAMPLE DATE	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04	09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	NA	NA	NA	NA	780 U	NA	780 U	NA	1500 U	760 U	800 U	740 U	NA	770 U	NA	770 U	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
4-NITROANILINE	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
4-NITROPHENOL	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
ACENAPHTHENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
ACENAPHTHYLENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
ANILINE	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
ANTHRACENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
BENZO(A)PYRENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
BENZOIC ACID	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
BENZYL ALCOHOL	NA	NA	NA	NA	780 U	NA	780 U	NA	1500 U	760 U	800 U	740 U	NA	770 U	NA	770 U	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
CHRYSENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
DIBENZOFURAN	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	99 J	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
FLUORANTHENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
FLUORENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728
LOCATION ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0
SAMPLE DATE	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04	09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
HEXACHLOROETHANE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
ISOPHORONE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
NAPHTHALENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
NITROBENZENE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	1900 U	NA	1900 U	NA	3800 U	1900 U	2000 U	1800 U	NA	1900 U	NA	1900 U	NA
PHENANTHRENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
PHENOL	NA	NA	NA	NA	390 U	NA	390 U	NA	750 U	380 U	400 U	370 U	NA	380 U	NA	380 U	NA
PYRENE	NA	NA	NA	NA	190 U	NA	190 U	NA	380 U	190 U	200 U	180 U	NA	190 U	NA	190 U	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	85.9	83.1	82.9	87.2	84.7	84.8	84.8	85	85.9	85.7	83	88.1	79.7	84.9	80.1	86.6	81.9
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0_20040728	TF3-005-TP2-NS-1.0_20040907	TF3-005-TP2-SS-1.0_20040728	TF3-005-TP2-SS-1.0_20040907	TF3-005-TP2-WS-A-BS_20040927	TF3-005-TP2-WS-A-BS_20041217	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0_20040728	TF3-005-TP3-ES-1.0_20040907	TF3-005-TP3-NS-1.0_20040728	TF3-005-TP3-NS-1.0_20040907	TF3-005-TP3-SS-1.0_20040728
LOCATION ID	TF3-005-TP1-SS-1.0	TF3-005-TP1-WS-1.0	TF3-005-TP2-ES-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-NS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-SS-1.0	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-BS	TF3-005-TP2-WS-A-NS	TF3-005-TP2-WS-A-SS	TF3-005-TP2-WS-A-WS	TF3-005-TP3-ES-1.0	TF3-005-TP3-ES-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-NS-1.0	TF3-005-TP3-SS-1.0
SAMPLE DATE	07/28/04	07/28/04	07/28/04	07/28/04	09/07/04	07/28/04	09/07/04	09/27/04	12/17/04	09/21/04	09/21/04	09/21/04	07/28/04	09/07/04	07/28/04	09/07/04	07/28/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	0.56 U	0.55 U	0.60 U	0.49 U	NA	0.54 U	NA	0.72 U	0.92 U	1.4 U	1.4 U	1.4 U	0.63 U	NA	0.64 U	NA	0.63 U
GASOLINE RANGE ORGANICS	77	40	16	300	NA	120	NA	290	61	3.9 U	4 U	3.7 U	340	NA	160	NA	110
TOTAL PETROLEUM HYDROCARBONS	77	40	16	300	NA	120	NA	290	61	0.00 U	0.00 U	0.00 U	340	NA	160	NA	110

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
LOCATION ID	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
SAMPLE DATE	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04
TOP DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROPROPENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	25 U	21 U	16 U	20 U	NA	NA	22 U	NA	NA	21 U	NA	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	25 U	21 U	16 U	20 U	NA	NA	22 U	NA	NA	21 U	NA	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	25 U	21 U	16 U	20 U	NA	NA	22 U	NA	NA	21 U	NA	NA	NA	NA	NA	NA	NA
ACETONE	170	260 U	210 U	240 U	NA	NA	110	NA	NA	110	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
LOCATION ID	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
SAMPLE DATE	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04
TOP DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
BROMOBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	6.3 U	5.1 U	4.1 U	4.9 U	NA	NA	5.4 U	NA	NA	5.3 U	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	6.3 U	5.1 U	4.1 U	4.9 U	NA	NA	5.4 U	NA	NA	5.3 U	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	6.3 U	5.1 U	4.1 U	4.9 U	NA	NA	5.4 U	NA	NA	5.3 U	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
DIBROMOMETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	6.3 U	5.1 U	4.1 U	4.9 U	NA	NA	5.4 U	NA	NA	5.3 U	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	6.3 U	5.1 U	4.1 U	4.9 U	NA	NA	5.4 U	NA	NA	5.3 U	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	32 U	26 U	21 U	24 U	NA	NA	27 U	NA	NA	26 U	NA	NA	NA	NA	NA	NA	NA
N-BUTYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
STYRENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
TOLUENE	3.2 U	2.6 U	2.5	2.7	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
LOCATION ID	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
SAMPLE DATE	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04
TOP DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	3.2 U	2.6 U	2.1 U	2.4 U	NA	NA	2.7 U	NA	NA	2.6 U	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	6.3 U	5.1 U	4.1 U	4.9 U	NA	NA	5.4 U	NA	NA	5.3 U	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
2-NITROANILINE	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
3&4-METHYLPHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	790 U	1600 U	720 U	790 U	NA	NA	760 U	NA	NA	750 U	NA	NA	NA	NA	NA	NA	NA
3-NITROANILINE	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	790 U	1600 U	720 U	790 U	NA	NA	760 U	NA	NA	750 U	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
LOCATION ID	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
SAMPLE DATE	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04
TOP DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	790 U	1600 U	720 U	790 U	NA	NA	760 U	NA	NA	750 U	NA	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
4-NITROANILINE	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
ANILINE	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
BENZOIC ACID	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	790 U	1600 U	720 U	790 U	NA	NA	760 U	NA	NA	750 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
FLUORENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
LOCATION ID	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
SAMPLE DATE	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04
TOP DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
ISOPHORONE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	2000 U	4000 U	1800 U	2000 U	NA	NA	1900 U	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
PHENOL	390 U	810 U	360 U	390 U	NA	NA	380 U	NA	NA	370 U	NA	NA	NA	NA	NA	NA	NA
PYRENE	200 U	400 U	180 U	200 U	NA	NA	190 U	NA	NA	190 U	NA	NA	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	83.1	82.2	90	83.4	89.2	87.6	87.2	82.7	86.6	87.7	85.8	87.5	81.7	79.3	89.8	83.3	71.3
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-SS-1.0_20040907	TF3-005-TP3-WS-A-NS_20041217-D	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0_20040728	TF3-006-TP1-NS-1.0_20040907	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0_20040728	TF3-006-TP1-WS-1.0_20040907	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
LOCATION ID	TF3-005-TP3-SS-1.0	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-SS	TF3-005-TP3-WS-A-WS	TF3-006-TP1-ES-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-NS-1.0	TF3-006-TP1-SS-1.0	TF3-006-TP1-WS-1.0	TF3-006-TP1-WS-1.0	TF3-007-TP1-WS-1.0	TF3-007-TP2-ES-1.0	TF3-007-TP2-NS-1.0	TF3-007-TP2-SS-1.0	TF3-007-TP2-WS-1.0	TF3-008-TP1-WS-1.0	TF3-009-TP1-ES-1.0
SAMPLE DATE	09/07/04	12/17/04	09/21/04	09/21/04	07/28/04	07/28/04	09/07/04	07/28/04	07/28/04	09/07/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	12/17/04
TOP DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	NA	1 U	1.8 U	1.4 U	0.47 U	0.51 U	NA	0.50 U	0.44 U	NA	0.52 U	0.53 U	0.67 U	0.76 U	0.43 U	0.50 U	12
GASOLINE RANGE ORGANICS	NA	110	3.7 U	3.9 U	3.7 U	200	NA	100	240	NA	8.1	32	35	40	3.6 U	9.1	100
TOTAL PETROLEUM HYDROCARBONS	NA	110	0.00 U	0.00 U	0.00 U	200	NA	100	240	NA	8.1	32	35	40	0.00 U	9.1	112

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
LOCATION ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
SAMPLE DATE	12/17/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	19 U	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	19 U	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	19 U	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	170	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
LOCATION ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
SAMPLE DATE	12/17/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	4.8 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	4.8 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	4.8 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	4.8 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	4.8 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	24 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
LOCATION ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
SAMPLE DATE	12/17/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	2.4 U	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	4.8 U	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	760 U	800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	760 U	800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
LOCATION ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
SAMPLE DATE	12/17/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	NA	NA	NA	NA	NA	760 U	800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANILINE	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	760 U	800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
LOCATION ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
SAMPLE DATE	12/17/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	1900 U	2000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	380 U	400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	190 U	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	86.5	81.2	83.2	83.5	83.2	85.9	83.2	83.6	83.3	84	82.2	79.3	76	75.7	82.1	84.2	81
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	86.1	83.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
LOCATION ID	TF3-009-TP1-WS-1.0	TF3-009-TP3-ES-1.0	TF3-009-TP4-ES-1.0	TF3-009-TP4-NS-1.0	TF3-009-TP4-SS-1.0	TF3-009-TP4-WS-1.0	TF3-009-TP5-ES-1.0	TF3-009-TP5-NS-1.0	TF3-009-TP5-SS-1.0	TF3-009-TP5-WS-1.0	TF3-009-TP6-ES-1.0	TF3-009-TP6-NS-1.0	TF3-009-TP6-SS-1.0	TF3-009-TP6-WS-1.0	TF3-009-TP7-ES-1.0	TF3-009-TP7-SS-1.0	TF3-009-TP7-WS-1.0
SAMPLE DATE	12/17/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	110	0.40 U	0.72 U	0.54 U	0.45 U	0.51 U	0.65 U	0.44 U	0.60 U	0.49 U	0.60 U	0.73 U	0.67 U	0.88 U	0.48 U	0.47 U	0.53 U
GASOLINE RANGE ORGANICS	1300	86	74	630	51	120	140	7.2	8.7	7.3	21	33	38	42	27	11	22
TOTAL PETROLEUM HYDROCARBONS	1410	86	74	630	51	120	140	7.2	8.7	7.3	21	33	38	42	27	11	22

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0
LOCATION ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS
SAMPLE DATE	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04	09/07/04	09/07/04	09/14/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,1,1-TRICHLOROETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,1,2,2-TETRACHLOROETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,1,2-TRICHLOROETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,1-DICHLOROETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,1-DICHLOROETHENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,1-DICHLOROPROPENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2,3-TRICHLOROBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2,3-TRICHLOROPROPANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2,4-TRICHLOROBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2,4-TRIMETHYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2-DIBROMO-3-CHLOROPROPANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2-DIBROMOETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2-DICHLOROBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2-DICHLOROETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,2-DICHLOROPROPANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,3,5-TRIMETHYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,3-DICHLOROBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,3-DICHLOROPROPANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
1,4-DICHLOROBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
2,2-DICHLOROPROPANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
2-BUTANONE	NA	86	NA	NA	NA	NA	NA	NA	NA	22 U	NA	19 U	NA	NA	NA	NA	23 U
2-CHLOROTOLUENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
2-HEXANONE	NA	16 U	NA	NA	NA	NA	NA	NA	NA	22 U	NA	19 U	NA	NA	NA	NA	23 U
4-CHLOROTOLUENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
4-ISOPROPYLTOLUENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
4-METHYL-2-PENTANONE	NA	16 U	NA	NA	NA	NA	NA	NA	NA	22 U	NA	19 U	NA	NA	NA	NA	23 U
ACETONE	NA	380	NA	NA	NA	NA	NA	NA	NA	270 U	NA	240 U	NA	NA	NA	NA	280 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0
LOCATION ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS
SAMPLE DATE	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04	09/07/04	09/07/04	09/14/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
BROMOBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
BROMOCHLOROMETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
BROMODICHLOROMETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
BROMOFORM	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
BROMOMETHANE	NA	4 U	NA	NA	NA	NA	NA	NA	NA	5.5 U	NA	4.8 U	NA	NA	NA	NA	5.7 U
CARBON TETRACHLORIDE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
CHLOROBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
CHLORODIBROMOMETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
CHLOROETHANE	NA	4 U	NA	NA	NA	NA	NA	NA	NA	5.5 U	NA	4.8 U	NA	NA	NA	NA	5.7 U
CHLOROFORM	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
CHLOROMETHANE	NA	4 U	NA	NA	NA	NA	NA	NA	NA	5.5 U	NA	4.8 U	NA	NA	NA	NA	5.7 U
CIS-1,2-DICHLOROETHENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
CIS-1,3-DICHLOROPROPENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
DIBROMOMETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
ETHYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
HEXACHLOROBUTADIENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
ISOPROPYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
M+P-XYLENES	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
METHYL TERT-BUTYL ETHER	NA	4 U	NA	NA	NA	NA	NA	NA	NA	5.5 U	NA	4.8 U	NA	NA	NA	NA	5.7 U
METHYLENE CHLORIDE	NA	4 U	NA	NA	NA	NA	NA	NA	NA	5.5 U	NA	4.8 U	NA	NA	NA	NA	5.7 U
NAPHTHALENE	NA	20 U	NA	NA	NA	NA	NA	NA	NA	27 U	NA	24 U	NA	NA	NA	NA	28 U
N-BUTYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
N-PROPYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
O-XYLENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
SEC-BUTYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
STYRENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
TERT-BUTYLBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
TETRACHLOROETHENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
TOLUENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0
LOCATION ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS
SAMPLE DATE	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04	09/07/04	09/07/04	09/14/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
TRANS-1,3-DICHLOROPROPENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
TRICHLOROETHENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
TRICHLOROFLUOROMETHANE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	2.4 U	NA	NA	NA	NA	2.8 U
VINYL CHLORIDE	NA	4 U	NA	NA	NA	NA	NA	NA	NA	5.5 U	NA	4.8 U	NA	NA	NA	NA	5.7 U
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
1,2-DICHLOROBENZENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
1,2-DIPHENYLHYDRAZINE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
1,3-DICHLOROBENZENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
1,4-DICHLOROBENZENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,4,5-TRICHLOROPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,4,6-TRICHLOROPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,4-DICHLOROPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,4-DIMETHYLPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,4-DINITROPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,4-DINITROTOLUENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2,6-DINITROTOLUENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2-CHLORONAPHTHALENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2-CHLOROPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2-METHYLNAPHTHALENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
2-METHYLPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
2-NITROANILINE	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
2-NITROPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
3&4-METHYLPHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
3,3'-DICHLOROBENZIDINE	NA	790 U	NA	NA	NA	NA	NA	NA	NA	1700 U	NA	750 U	NA	NA	NA	NA	760 U
3-NITROANILINE	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
4,6-DINITRO-2-METHYLPHENOL	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
4-BROMOPHENYL PHENYL ETHER	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
4-CHLORO-3-METHYLPHENOL	NA	790 U	NA	NA	NA	NA	NA	NA	NA	1700 U	NA	750 U	NA	NA	NA	NA	760 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0
LOCATION ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS
SAMPLE DATE	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04	09/07/04	09/07/04	09/14/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	NA	790 U	NA	NA	NA	NA	NA	NA	NA	1700 U	NA	750 U	NA	NA	NA	NA	760 U
4-CHLOROPHENYL PHENYL ETHER	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
4-NITROANILINE	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
4-NITROPHENOL	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
ACENAPHTHENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
ACENAPHTHYLENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
ANILINE	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
ANTHRACENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
BENZO(A)ANTHRACENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
BENZO(A)PYRENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
BENZO(B)FLUORANTHENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
BENZO(G,H,I)PERYLENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
BENZO(K)FLUORANTHENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
BENZOIC ACID	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
BENZYL ALCOHOL	NA	790 U	NA	NA	NA	NA	NA	NA	NA	1700 U	NA	750 U	NA	NA	NA	NA	760 U
BIS(2-CHLOROETHOXY)METHANE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
BIS(2-CHLOROETHYL)ETHER	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
BIS(2-CHLOROISOPROPYL)ETHER	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
BUTYL BENZYL PHTHALATE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
CHRYSENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
DIBENZO(A,H)ANTHRACENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
DIBENZOFURAN	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
DIETHYL PHTHALATE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
DIMETHYL PHTHALATE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
DI-N-BUTYL PHTHALATE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
DI-N-OCTYL PHTHALATE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
FLUORANTHENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
FLUORENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0
LOCATION ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS
SAMPLE DATE	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04	09/07/04	09/07/04	09/14/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
HEXACHLOROBUTADIENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
HEXACHLOROCYCLOPENTADIENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
HEXACHLOROETHANE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
INDENO(1,2,3-CD)PYRENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
ISOPHORONE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
NAPHTHALENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
NITROBENZENE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
N-NITROSO-DI-N-PROPYLAMINE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
N-NITROSODIPHENYLAMINE	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
PENTACHLOROPHENOL	NA	2000 U	NA	NA	NA	NA	NA	NA	NA	4200 U	NA	1900 U	NA	NA	NA	NA	1900 U
PHENANTHRENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
PHENOL	NA	400 U	NA	NA	NA	NA	NA	NA	NA	840 U	NA	370 U	NA	NA	NA	NA	380 U
PYRENE	NA	200 U	NA	NA	NA	NA	NA	NA	NA	420 U	NA	190 U	NA	NA	NA	NA	190 U
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	85.3	82.3	84.8	83.5	78	82	82.1	83.5	82.7	77.9	87.5	89	76.8	83.5	86.4	85.8	87.1
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	80.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0_20040927	TF3-010-TP3-WS-1.0_20041216	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS-1.0
LOCATION ID	TF3-010-TP1-NS-1.0	TF3-010-TP1-WS-1.0	TF3-010-TP2-ES-1.0	TF3-010-TP2-SS-1.0	TF3-010-TP2-WS-1.0	TF3-010-TP3-ES-1.0	TF3-010-TP3-NS-1.0	TF3-010-TP3-SS-1.0	TF3-010-TP3-WS-1.0	TF3-010-TP3-WS-1.0	TF3-011-TP1-ES-1.0	TF3-011-TP2-ES-1.0	TF3-012-TP1-SS	TF3-012-TP2-ES-1.0	TF3-012-TP3-ES-1.0	TF3-012-TP3-SS-1.0	TF3-012-TP3-WS-A-NS
SAMPLE DATE	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	12/17/04	09/27/04	12/16/04	08/31/04	09/21/04	09/27/04	09/07/04	09/07/04	09/07/04	09/14/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	1.7 U	1.6 U	2 U	27	2 U	1.9 U	1.4 U	0.78 U	18	NA	0.55 U	1.5 U	1.2 U	0.62 U	0.53 U	0.45 U	0.69 U
GASOLINE RANGE ORGANICS	13	470	5.7	1900	54	11	4 U	15	280	NA	5.1	3.7 U	71	9.8	22	510	15
TOTAL PETROLEUM HYDROCARBONS	13	470	5.7	1927	54	11	0.00 U	15	298	NA	5.1	0.00 U	71	9.8	22	510	15

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
LOCATION ID	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
SAMPLE DATE	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,1,1-TRICHLOROETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,1,2,2-TETRACHLOROETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,1,2-TRICHLOROETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,1-DICHLOROETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,1-DICHLOROETHENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,1-DICHLOROPROPENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2,3-TRICHLOROBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2,3-TRICHLOROPROPANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2,4-TRICHLOROBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2,4-TRIMETHYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2-DIBROMO-3-CHLOROPROPANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2-DIBROMOETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2-DICHLOROBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2-DICHLOROETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,2-DICHLOROPROPANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,3,5-TRIMETHYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,3-DICHLOROBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,3-DICHLOROPROPANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
1,4-DICHLOROBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
2,2-DICHLOROPROPANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
2-BUTANONE	24 U	22 U	19 U	18 U	23 U	NA	NA	NA	NA	19 U	21 U	19 U	19 U	NA	NA	NA	20 U
2-CHLOROTOLUENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
2-HEXANONE	24 U	22 U	19 U	18 U	23 U	NA	NA	NA	NA	19 U	21 U	19 U	19 U	NA	NA	NA	20 U
4-CHLOROTOLUENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
4-ISOPROPYLTOLUENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
4-METHYL-2-PENTANONE	24 U	22 U	19 U	18 U	23 U	NA	NA	NA	NA	19 U	21 U	19 U	19 U	NA	NA	NA	20 U
ACETONE	300 U	280 U	240 U	220 U	280 U	NA	NA	NA	NA	240 U	260 U	240 U	230 U	NA	NA	NA	250 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
LOCATION ID	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
SAMPLE DATE	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
BROMOBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
BROMOCHLOROMETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
BROMODICHLOROMETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
BROMOFORM	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
BROMOMETHANE	6 U	5.5 U	4.7 U	4.4 U	5.7 U	NA	NA	NA	NA	4.8 U	5.2 U	4.8 U	4.7 U	NA	NA	NA	4.9 U
CARBON TETRACHLORIDE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
CHLOROBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
CHLORODIBROMOMETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
CHLOROETHANE	6 U	5.5 U	4.7 U	4.4 U	5.7 U	NA	NA	NA	NA	4.8 U	5.2 U	4.8 U	4.7 U	NA	NA	NA	4.9 U
CHLOROFORM	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
CHLOROMETHANE	6 U	5.5 U	4.7 U	4.4 U	5.7 U	NA	NA	NA	NA	4.8 U	5.2 U	4.8 U	4.7 U	NA	NA	NA	4.9 U
CIS-1,2-DICHLOROETHENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
CIS-1,3-DICHLOROPROPENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
DIBROMOMETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
ETHYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
HEXACHLOROBUTADIENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
ISOPROPYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
M+P-XYLENES	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
METHYL TERT-BUTYL ETHER	6 U	5.5 U	4.7 U	4.4 U	5.7 U	NA	NA	NA	NA	4.8 U	5.2 U	4.8 U	4.7 U	NA	NA	NA	4.9 U
METHYLENE CHLORIDE	6 U	5.5 U	4.7 U	4.4 U	5.7 U	NA	NA	NA	NA	4.8 U	5.2 U	4.8 U	4.7 U	NA	NA	NA	4.9 U
NAPHTHALENE	30 U	28 U	24 U	22 U	28 U	NA	NA	NA	NA	24 U	26 U	24 U	23 U	NA	NA	NA	25 U
N-BUTYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
N-PROPYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
O-XYLENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
SEC-BUTYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
STYRENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
TERT-BUTYLBENZENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
TETRACHLOROETHENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
TOLUENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
LOCATION ID	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
SAMPLE DATE	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
TRANS-1,3-DICHLOROPROPENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
TRICHLOROETHENE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
TRICHLOROFLUOROMETHANE	3 U	2.8 U	2.4 U	2.2 U	2.8 U	NA	NA	NA	NA	2.4 U	2.6 U	2.4 U	2.3 U	NA	NA	NA	2.5 U
VINYL CHLORIDE	6 U	5.5 U	4.7 U	4.4 U	5.7 U	NA	NA	NA	NA	4.8 U	5.2 U	4.8 U	4.7 U	NA	NA	NA	4.9 U
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
1,2-DICHLOROBENZENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
1,2-DIPHENYLHYDRAZINE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
1,3-DICHLOROBENZENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
1,4-DICHLOROBENZENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,4,5-TRICHLOROPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,4,6-TRICHLOROPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,4-DICHLOROPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,4-DIMETHYLPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,4-DINITROPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,4-DINITROTOLUENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2,6-DINITROTOLUENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2-CHLORONAPHTHALENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2-CHLOROPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2-METHYLNAPHTHALENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
2-METHYLPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
2-NITROANILINE	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
2-NITROPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
3&4-METHYLPHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
3,3'-DICHLOROBENZIDINE	770 U	720 U	1500 U	1500 U	1500 U	NA	NA	NA	NA	780 U	7700 U	7600 U	780 U	NA	NA	NA	1600 U
3-NITROANILINE	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
4,6-DINITRO-2-METHYLPHENOL	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
4-BROMOPHENYL PHENYL ETHER	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
4-CHLORO-3-METHYLPHENOL	770 U	720 U	1500 U	1500 U	1500 U	NA	NA	NA	NA	780 U	7700 U	7600 U	780 U	NA	NA	NA	1600 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
LOCATION ID	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
SAMPLE DATE	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	770 U	720 U	1500 U	1500 U	1500 U	NA	NA	NA	NA	780 U	7700 U	7600 U	780 U	NA	NA	NA	1600 U
4-CHLOROPHENYL PHENYL ETHER	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
4-NITROANILINE	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
4-NITROPHENOL	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
ACENAPHTHENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
ACENAPHTHYLENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
ANILINE	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
ANTHRACENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
BENZO(A)ANTHRACENE	190 U	180 U	380 U	220 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
BENZO(A)PYRENE	190 U	180 U	380 U	240 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
BENZO(B)FLUORANTHENE	190 U	180 U	380 U	220 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
BENZO(G,H,I)PERYLENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
BENZO(K)FLUORANTHENE	190 U	180 U	380 U	210 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
BENZOIC ACID	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
BENZYL ALCOHOL	770 U	720 U	1500 U	1500 U	1500 U	NA	NA	NA	NA	780 U	7700 U	7600 U	780 U	NA	NA	NA	1600 U
BIS(2-CHLOROETHOXY)METHANE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
BIS(2-CHLOROETHYL)ETHER	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
BIS(2-CHLOROISOPROPYL)ETHER	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
BUTYL BENZYL PHTHALATE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
CHRYSENE	190 U	180 U	380 U	230 J	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
DIBENZO(A,H)ANTHRACENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
DIBENZOFURAN	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
DIETHYL PHTHALATE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
DIMETHYL PHTHALATE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
DI-N-BUTYL PHTHALATE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
DI-N-OCTYL PHTHALATE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
FLUORANTHENE	190 U	180 U	200 J	330 J	240 J	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
FLUORENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
LOCATION ID	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
SAMPLE DATE	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
HEXACHLOROBUTADIENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
HEXACHLOROCYCLOPENTADIENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
HEXACHLOROETHANE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
INDENO(1,2,3-CD)PYRENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
ISOPHORONE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
NAPHTHALENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
NITROBENZENE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
N-NITROSO-DI-N-PROPYLAMINE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
N-NITROSODIPHENYLAMINE	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
PENTACHLOROPHENOL	1900 U	1800 U	3800 U	3700 U	3700 U	NA	NA	NA	NA	1900 U	19000 U	19000 U	1900 U	NA	NA	NA	4000 U
PHENANTHRENE	190 U	180 U	380 U	370 U	370 U	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
PHENOL	380 U	360 U	750 U	740 U	740 U	NA	NA	NA	NA	390 U	3900 U	3800 U	390 U	NA	NA	NA	810 U
PYRENE	190 U	180 U	480	650	510	NA	NA	NA	NA	190 U	1900 U	1900 U	190 U	NA	NA	NA	400 U
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	86.7	92.1	86.7	89.5	87.4	84.4	85	86.7	88.1	85.6	84.3	87.5	85.3	86.6	85.7	88.4	82.4
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-012-TP3-WS-A-SS-1.0	TF3-012-TP3-WS-A-WS-1.0	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
LOCATION ID	TF3-012-TP3-WS-A-SS	TF3-012-TP3-WS-A-WS	TF3-014-TP4-ES-1.0	TF3-014-TP4-NS-1.0	TF3-014-TP4-WS-1.0	TF3-015-TP1-SS-1.0	TF3-015-TP3-ES-1.0	TF3-015-TP3-WS-1.0	TF3-015-TP4-SS-1.0	TF3-016-TP2-A-ES-1.5	TF3-016-TP2-A-NS-1.5	TF3-016-TP2-A-SS-1.5	TF3-016-TP2-A-WS-1.5	TF3-016-TP3-WS-1.0	TF3-016-TP5-SS-1.0	TF3-017-TP1-ES-1.0	TF3-017-TP1-NS-1.0
SAMPLE DATE	09/14/04	09/14/04	09/07/04	09/07/04	09/07/04	08/31/04	08/31/04	08/31/04	08/31/04	09/15/04	09/15/04	09/15/04	09/15/04	09/02/04	09/02/04	09/08/04	09/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	0.52 U	0.44 U	0.59 U	0.56 U	0.43 U	0.47 U	0.45 U	0.43 U	0.54 U	0.51 U	0.54 U	0.52 U	0.47 U	0.48 U	0.50 U	0.47 U	0.43 U
GASOLINE RANGE ORGANICS	11	12	200	120	110	13	6.1	13	7.3	3.9 U	11	3.8 U	9.3	7.2	18	51	120
TOTAL PETROLEUM HYDROCARBONS	11	12	200	120	110	13	6.1	13	7.3	0.00 U	11	0.00 U	9.3	7.2	18	51	120

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0
LOCATION ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0
SAMPLE DATE	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04	09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,1,1-TRICHLOROETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,1,2,2-TETRACHLOROETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,1,2-TRICHLOROETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,1-DICHLOROETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,1-DICHLOROETHENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,1-DICHLOROPROPENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2,3-TRICHLOROBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2,3-TRICHLOROPROPANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2,4-TRICHLOROBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2,4-TRIMETHYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2-DIBROMOETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2-DICHLOROBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2-DICHLOROETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,2-DICHLOROPROPANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,3,5-TRIMETHYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,3-DICHLOROBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,3-DICHLOROPROPANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
1,4-DICHLOROBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
2,2-DICHLOROPROPANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
2-BUTANONE	28 U	21 U	15 U	NA	20 U	27 U	21 U	19 U	NA	22 U	21 U	25 U	18 U	21 U	21 U	21 U	NA
2-CHLOROTOLUENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
2-HEXANONE	28 U	21 U	15 U	NA	20 U	27 U	21 U	19 U	NA	22 U	21 U	25 U	18 U	21 U	21 U	21 U	NA
4-CHLOROTOLUENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
4-ISOPROPYLTOLUENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
4-METHYL-2-PENTANONE	28 U	21 U	15 U	NA	20 U	27 U	21 U	19 U	NA	22 U	21 U	25 U	18 U	21 U	21 U	21 U	NA
ACETONE	350 U	260 U	190 U	NA	250 U	340 U	260 U	240 U	NA	270 U	260 U	310 U	230 U	260 U	260 U	260 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0
LOCATION ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0
SAMPLE DATE	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04	09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM
BENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
BROMOBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
BROMOCHLOROMETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
BROMODICHLOROMETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
BROMOFORM	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
BROMOMETHANE	7 U	5.3 U	3.9 U	NA	5 U	6.8 U	5.2 U	4.7 U	NA	5.4 U	5.2 U	6.3 U	4.5 U	5.2 U	5.2 U	5.2 U	NA
CARBON TETRACHLORIDE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
CHLOROBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
CHLORODIBROMOMETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
CHLOROETHANE	7 U	5.3 U	3.9 U	NA	5 U	6.8 U	5.2 U	4.7 U	NA	5.4 U	5.2 U	6.3 U	4.5 U	5.2 U	5.2 U	5.2 U	NA
CHLOROFORM	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
CHLOROMETHANE	7 U	5.3 U	3.9 U	NA	5 U	6.8 U	5.2 U	4.7 U	NA	5.4 U	5.2 U	6.3 U	4.5 U	5.2 U	5.2 U	5.2 U	NA
CIS-1,2-DICHLOROETHENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
CIS-1,3-DICHLOROPROPENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
DIBROMOMETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
ETHYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
HEXACHLOROBUTADIENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
ISOPROPYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
M+P-XYLENES	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
METHYL TERT-BUTYL ETHER	7 U	5.3 U	3.9 U	NA	5 U	6.8 U	5.2 U	4.7 U	NA	5.4 U	5.2 U	6.3 U	4.5 U	5.2 U	5.2 U	5.2 U	NA
METHYLENE CHLORIDE	7 U	5.3 U	3.9 U	NA	5 U	6.8 U	5.2 U	4.7 U	NA	5.4 U	5.2 U	6.3 U	4.5 U	5.2 U	5.2 U	5.2 U	NA
NAPHTHALENE	35 U	26 U	19 U	NA	25 U	34 U	26 U	24 U	NA	27 U	26 U	31 U	23 U	26 U	26 U	26 U	NA
N-BUTYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
N-PROPYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
O-XYLENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
SEC-BUTYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
STYRENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
TERT-BUTYLBENZENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
TETRACHLOROETHENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
TOLUENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	3	NA	2.7 U	2.6 U	3.2	2.5	2.6 U	2.6 U	2.6 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0
LOCATION ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0
SAMPLE DATE	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04	09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM
TRANS-1,2-DICHLOROETHENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
TRANS-1,3-DICHLOROPROPENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
TRICHLOROETHENE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.6 U	NA
TRICHLOROFLUOROMETHANE	3.5 U	2.6 U	1.9 U	NA	2.5 U	3.4 U	2.6 U	2.4 U	NA	2.7 U	2.6 U	3.1 U	2.3 U	2.6 U	2.6 U	2.9	NA
VINYL CHLORIDE	7 U	5.3 U	3.9 U	NA	5 U	6.8 U	5.2 U	4.7 U	NA	5.4 U	5.2 U	6.3 U	4.5 U	5.2 U	5.2 U	5.2 U	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
1,2-DICHLOROBENZENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
1,2-DIPHENYLHYDRAZINE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
1,3-DICHLOROBENZENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
1,4-DICHLOROBENZENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,4,5-TRICHLOROPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,4,6-TRICHLOROPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,4-DICHLOROPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,4-DIMETHYLPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,4-DINITROPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,4-DINITROTOLUENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2,6-DINITROTOLUENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2-CHLORONAPHTHALENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2-CHLOROPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2-METHYLNAPHTHALENE	360 U	390 U	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
2-METHYLPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
2-NITROANILINE	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
2-NITROPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
3&4-METHYLPHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
3,3'-DICHLOROBENZIDINE	1400 U	1600 U	2800 U	NA	800 U	780 U	780 U	760 U	NA	1600 U	790 U	790 U	800 U	820 U	800 U	810 U	NA
3-NITROANILINE	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
4,6-DINITRO-2-METHYLPHENOL	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
4-BROMOPHENYL PHENYL ETHER	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
4-CHLORO-3-METHYLPHENOL	1400 U	1600 U	2800 U	NA	800 U	780 U	780 U	760 U	NA	1600 U	790 U	790 U	800 U	820 U	800 U	810 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0
LOCATION ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0
SAMPLE DATE	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04	09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM
4-CHLOROANILINE	1400 U	1600 U	2800 U	NA	800 U	780 U	780 U	760 U	NA	1600 U	790 U	790 U	800 U	820 U	800 U	810 U	NA
4-CHLOROPHENYL PHENYL ETHER	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
4-NITROANILINE	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
4-NITROPHENOL	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
ACENAPHTHENE	360 U	390 U	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
ACENAPHTHYLENE	360 U	390 U	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
ANILINE	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
ANTHRACENE	360 U	300 J	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
BENZO(A)ANTHRACENE	360 U	930	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
BENZO(A)PYRENE	360 U	860	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
BENZO(B)FLUORANTHENE	360 U	870	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
BENZO(G,H,I)PERYLENE	360 U	670	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
BENZO(K)FLUORANTHENE	360 U	880	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
BENZOIC ACID	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
BENZYL ALCOHOL	1400 U	1600 U	2800 U	NA	800 U	780 U	780 U	760 U	NA	1600 U	790 U	790 U	800 U	820 U	800 U	810 U	NA
BIS(2-CHLOROETHOXY)METHANE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
BIS(2-CHLOROETHYL)ETHER	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
BIS(2-CHLOROISOPROPYL)ETHER	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
BUTYL BENZYL PHTHALATE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
CHRYSENE	360 U	1000	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
DIBENZO(A,H)ANTHRACENE	360 U	350 J	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
DIBENZOFURAN	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
DIETHYL PHTHALATE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
DIMETHYL PHTHALATE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
DI-N-BUTYL PHTHALATE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
DI-N-OCTYL PHTHALATE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
FLUORANTHENE	360 U	1200 J	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
FLUORENE	360 U	390 U	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0
LOCATION ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0
SAMPLE DATE	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04	09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM
HEXACHLOROBENZENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
HEXACHLOROBUTADIENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
HEXACHLOROCYCLOPENTADIENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
HEXACHLOROETHANE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
INDENO(1,2,3-CD)PYRENE	360 U	570	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
ISOPHORONE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
NAPHTHALENE	360 U	390 U	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
NITROBENZENE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
N-NITROSO-DI-N-PROPYLAMINE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
N-NITROSODIPHENYLAMINE	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
PENTACHLOROPHENOL	3600 U	3900 U	7100 U	NA	2000 U	1900 U	2000 U	1900 U	NA	4100 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA
PHENANTHRENE	360 U	1600	710 U	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
PHENOL	720 U	780 U	1400 U	NA	400 U	390 U	390 U	380 U	NA	810 U	390 U	390 U	400 U	410 U	400 U	400 U	NA
PYRENE	360 U	1400 J	480 J	NA	200 U	190 U	200 U	190 U	NA	410 U	200 U	200 U	200 U	200 U	200 U	200 U	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	90	85.3	93.2	84.8	81.4	83.9	84.3	86.1	86.5	80.2	81.5	84.3	82.6	80.2	81.2	82.2	83.8
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	85.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS-1.0	TF3-018-TP1-WS-A-SS-1.0	TF3-018-TP1-WS-A-WS-1.0	TF3-018-TP2-NS-A-ES-1.0_20040923	TF3-018-TP2-NS-A-ES-1.0_20040927	TF3-018-TP2-NS-A-ES-1.0_20041216	TF3-018-TP2-NS-A-NS-1.0	TF3-018-TP2-NS-A-WS-1.0	TF3-018-TP2-SS-A-ES-1.0	TF3-018-TP2-SS-A-SS-1.0	TF3-018-TP2-SS-A-SS-1.0-D	TF3-018-TP2-SS-A-WS-1.0	TF3-018-TP3-ES-1.0
LOCATION ID	TF3-017-TP1-SS-1.0	TF3-017-TP1-WS-1.0	TF3-017-TP2-NS-1.0	TF3-018-TP1-ES-1.0	TF3-018-TP1-WS-A-NS	TF3-018-TP1-WS-A-SS	TF3-018-TP1-WS-A-WS	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-ES	TF3-018-TP2-NS-A-NS	TF3-018-TP2-NS-A-WS	TF3-018-TP2-SS-A-ES	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-SS	TF3-018-TP2-SS-A-WS	TF3-018-TP3-ES-1.0
SAMPLE DATE	09/08/04	09/08/04	09/07/04	09/07/04	09/15/04	09/15/04	09/15/04	09/23/04	09/27/04	12/16/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM
DIESEL RANGE ORGANICS	0.51 U	0.74 U	0.46 U	0.44 U	0.52 U	0.57 U	0.50 U	230	350	NA	1.7 U	2.4 U	1.4 U	1.8 U	1.7 U	2.1 U	0.57 U
GASOLINE RANGE ORGANICS	430	460	250	7.4	16	14	3.9 U	1100	2100	NA	4 U	12	9	8	8	16	5.2
TOTAL PETROLEUM HYDROCARBONS	430	460	250	7.4	16	14	0.00 U	1330	2450	NA	0.00 U	12	9	8	8	16	5.2

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28 U	20 U	22 U	NA	16 U	16 U	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28 U	20 U	22 U	NA	16 U	16 U	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28 U	20 U	22 U	NA	16 U	16 U	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70 U	240	270	NA	240	39 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
BROMOBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7 U	4.9 U	5.6 U	NA	4.1 U	3.9 U	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7 U	4.9 U	5.6 U	NA	4.1 U	3.9 U	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7 U	4.9 U	5.6 U	NA	4.1 U	3.9 U	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
M+P-XYLENES	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7 U	4.9 U	5.6 U	NA	4.1 U	3.9 U	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7 U	4.9 U	5.6 U	NA	4.1 U	3.9 U	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35 U	24 U	28 U	NA	20 U	20 U	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
O-XYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	2.4 U	2.8 U	NA	2 U	2 U	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7 U	4.9 U	5.6 U	NA	4.1 U	3.9 U	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	740 U	730 U	780 U	NA	7500 U	800 U	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	740 U	730 U	780 U	NA	7500 U	800 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	740 U	730 U	780 U	NA	7500 U	800 U	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
ANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1000 J	200 U	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1100 J	200 U	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	740 U	730 U	780 U	NA	7500 U	800 U	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1200 J	200 U	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1600 J	200 U	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	1900 U	200 U	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 U	1800 U	2000 U	NA	19000 U	2000 U	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	2200	200 U	NA
PHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	370 U	370 U	390 U	NA	3700 U	400 U	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180 U	180 U	200 U	NA	4200	200 U	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	84.6	75.5	82.8	90.2	89.4	78.1	86.6	87.5	88.4	86.9	88.6	89.4	85	86.9	88.7	83.3	87.4
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89	88.7	87.1	NA	NA	86.3	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
LOCATION ID	TF3-018-TP3-WS-1.0	TF3-018-TP3-X-1.0	TF3-018-TP4-ES-1.0	TF3-019-TP2-ES-1.0	TF3-020-TP3-ES-1.0	TF3-020-TP3-NS-1.0	TF3-022-TP2-WS-1.0	TF3-022-TP3-ES-1.0	TF3-022-TP3-NS-1.0	TF3-022-TP3-SS-1.0	TF3-023-TP1-NS-1.0	TF3-023-TP2-NS-1.0	TF3-023-TP2-SS-1.0	TF3-023-TP2-WS-1.0	TF3-023-TP3-ES-1.0	TF3-023-TP3-SS-1.0	TF3-023-TP3-WS-1.0
SAMPLE DATE	09/07/04	09/20/04	09/02/04	08/31/04	08/31/04	08/31/04	09/08/04	09/08/04	09/08/04	09/08/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04	09/02/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	0.52 U	2.4 U	0.43 U	0.54 U	0.60 U	0.64 U	0.58 U	0.63 U	0.42 U	0.49 U	0.75 U	0.48 U	0.56 U	0.59 U	NA	0.52 U	0.48 U
GASOLINE RANGE ORGANICS	3.9 U	4.3 U	22	11	20	11	18	78	54	54	150	240	150	42	NA	110	53
TOTAL PETROLEUM HYDROCARBONS	0.00 U	0.00 U	22	11	20	11	18	78	54	54	150	240	150	42	NA	110	53

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
LOCATION ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
SAMPLE DATE	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
2-BUTANONE	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	21 U	NA	19 U	26 U	44 U
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
2-HEXANONE	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	21 U	NA	19 U	26 U	44 U
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	19 U	NA	NA	NA	NA	NA	NA	21 U	NA	19 U	26 U	44 U
ACETONE	NA	NA	NA	NA	NA	47 U	NA	NA	NA	NA	NA	NA	51 U	NA	230 U	320 U	550 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
LOCATION ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
SAMPLE DATE	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
BROMOBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
BROMOFORM	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
BROMOMETHANE	NA	NA	NA	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	5.1 U	NA	4.6 U	6.4 U	11 U
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
CHLOROBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
CHLOROETHANE	NA	NA	NA	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	5.1 U	NA	4.6 U	6.4 U	11 U
CHLOROFORM	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
CHLOROMETHANE	NA	NA	NA	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	5.1 U	NA	4.6 U	6.4 U	11 U
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
DIBROMOMETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
ETHYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
M+P-XYLENES	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	5.1 U	NA	4.6 U	6.4 U	11 U
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	5.1 U	NA	4.6 U	6.4 U	11 U
NAPHTHALENE	NA	NA	NA	NA	NA	23 U	NA	NA	NA	NA	NA	NA	26 U	NA	23 U	32 U	55 U
N-BUTYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
N-PROPYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
O-XYLENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
STYRENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
TETRACHLOROETHENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
TOLUENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.6	4.4	5.5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
LOCATION ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
SAMPLE DATE	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
TRICHLOROETHENE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.6 U	NA	2.3 U	3.2 U	5.5 U
VINYL CHLORIDE	NA	NA	NA	NA	NA	4.7 U	NA	NA	NA	NA	NA	NA	5.1 U	NA	4.6 U	6.4 U	11 U
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2-CHLOROPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
2-METHYLPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
2-NITROANILINE	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
2-NITROPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	740 U	NA	NA	NA	NA	NA	NA	780 U	NA	740 U	800 U	760 U
3-NITROANILINE	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	740 U	NA	NA	NA	NA	NA	NA	780 U	NA	740 U	800 U	760 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
LOCATION ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
SAMPLE DATE	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	NA	NA	NA	NA	NA	740 U	NA	NA	NA	NA	NA	NA	780 U	NA	740 U	800 U	760 U
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
4-NITROANILINE	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
4-NITROPHENOL	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
ACENAPHTHENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
ACENAPHTHYLENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
ANILINE	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
ANTHRACENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
BENZO(A)PYRENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
BENZOIC ACID	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
BENZYL ALCOHOL	NA	NA	NA	NA	NA	740 U	NA	NA	NA	NA	NA	NA	780 U	NA	740 U	800 U	760 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
CHRYSENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
DIBENZOFURAN	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
FLUORANTHENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
FLUORENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
LOCATION ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
SAMPLE DATE	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
HEXACHLOROETHANE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
ISOPHORONE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
NAPHTHALENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
NITROBENZENE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	1900 U	NA	NA	NA	NA	NA	NA	2000 U	NA	1900 U	2000 U	1900 U
PHENANTHRENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
PHENOL	NA	NA	NA	NA	NA	370 U	NA	NA	NA	NA	NA	NA	390 U	NA	370 U	400 U	380 U
PYRENE	NA	NA	NA	NA	NA	190 U	NA	NA	NA	NA	NA	NA	200 U	NA	190 U	200 U	190 U
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	91.1	87.2	86.5	87.1	86.8	88.1	82.9	83.8	88.8	89.8	88.9	84.4	84.3	84.9	89.3	83.5	87
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0_20040805	TF3-028-TP1-WS-1.0_20040907	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0_20040805	TF3-028-TP3-WS-1.0_20040907	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
LOCATION ID	TF3-024-TP3-WS-1.0	TF3-026-TP1-ES-1.0	TF3-026-TP1-SS-1.0	TF3-026-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP1-WS-1.0	TF3-028-TP2-SS-1.0	TF3-028-TP2-WS-1.0	TF3-028-TP3-ES-1.0	TF3-028-TP3-NS-1.0	TF3-028-TP3-SS-1.0	TF3-028-TP3-WS-1.0	TF3-028-TP3-WS-1.0	TF3-029-TP1-NS-1.0	TF3-029-TP1-NS-A-ES	TF3-029-TP1-NS-A-NS	TF3-029-TP1-NS-A-WS
SAMPLE DATE	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/27/04	08/05/04	08/05/04	08/05/04	08/05/04	08/05/04	09/07/04	09/09/04	09/27/04	09/27/04	09/27/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	0.53 U	0.80 U	0.94 U	0.69 U	0.63 U	NA	22	0.79 U	1 U	0.80 U	0.72 U	0.95 U	NA	0.89 U	1.2 U	1.4 U	2.2 U
GASOLINE RANGE ORGANICS	21	6.8	3.8 U	6.6	210	NA	310	6.6	12	16	3.7 U	110	NA	98	26	75	79
TOTAL PETROLEUM HYDROCARBONS	21	6.8	0.00 U	6.6	210	NA	332	6.6	12	16	0.00 U	110	NA	98	26	75	79

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
LOCATION ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
SAMPLE DATE	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04	09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04
TOP DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,1-DICHLOROPROPENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
2-BUTANONE	18 U	21 U	18 U	27 U	21 U	25 U	NA	18 U	22 U	25 U	21 U	22 U	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
2-HEXANONE	18 U	21 U	18 U	27 U	21 U	25 U	NA	18 U	22 U	25 U	21 U	22 U	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	18 U	21 U	18 U	27 U	21 U	25 U	NA	18 U	22 U	25 U	21 U	22 U	NA	NA	NA	NA	NA
ACETONE	220 U	260 U	230 U	330 U	260 U	310 U	NA	230 U	270 U	310 U	260 U	280 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
LOCATION ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
SAMPLE DATE	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04	09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04
TOP DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
BROMOBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
BROMOFORM	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
BROMOMETHANE	4.4 U	5.3 U	4.5 U	6.7 U	5.2 U	6.2 U	NA	4.6 U	5.4 U	6.2 U	5.2 U	5.6 U	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
CHLOROBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
CHLOROETHANE	4.4 U	5.3 U	4.5 U	6.7 U	5.2 U	6.2 U	NA	4.6 U	5.4 U	6.2 U	5.2 U	5.6 U	NA	NA	NA	NA	NA
CHLOROFORM	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
CHLOROMETHANE	4.4 U	5.3 U	4.5 U	6.7 U	5.2 U	6.2 U	NA	4.6 U	5.4 U	6.2 U	5.2 U	5.6 U	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
DIBROMOMETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
ETHYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
M+P-XYLENES	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	4.4 U	5.3 U	4.5 U	6.7 U	5.2 U	6.2 U	NA	4.6 U	5.4 U	6.2 U	5.2 U	5.6 U	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	4.4 U	5.3 U	4.5 U	6.7 U	5.2 U	6.2 U	NA	4.6 U	5.4 U	6.2 U	5.2 U	5.6 U	NA	NA	NA	NA	NA
NAPHTHALENE	22 U	26 U	23 U	33 U	26 U	31 U	NA	23 U	27 U	31 U	26 U	28 U	NA	NA	NA	NA	NA
N-BUTYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
N-PROPYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
O-XYLENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
STYRENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
TETRACHLOROETHENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
TOLUENE	2.2 U	2.6 U	2.3 U	5	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
LOCATION ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
SAMPLE DATE	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04	09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04
TOP DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
TRICHLOROETHENE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	2.2 U	2.6 U	2.3 U	3.3 U	2.6 U	3.1 U	NA	2.3 U	2.7 U	3.1 U	2.6 U	2.8 U	NA	NA	NA	NA	NA
VINYL CHLORIDE	4.4 U	5.3 U	4.5 U	6.7 U	5.2 U	6.2 U	NA	4.6 U	5.4 U	6.2 U	5.2 U	5.6 U	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2-CHLOROPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
2-METHYLPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
2-NITROANILINE	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
2-NITROPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
3&4-METHYLPHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	710 U	710 U	730 U	780 U	780 U	1600 U	NA	740 U	1700 U	730 U	820 U	800 U	NA	NA	NA	NA	NA
3-NITROANILINE	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	710 U	710 U	730 U	780 U	780 U	1600 U	NA	740 U	1700 U	730 U	820 U	800 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
LOCATION ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
SAMPLE DATE	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04	09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04
TOP DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	710 U	710 U	730 U	780 U	780 U	1600 U	NA	740 U	1700 U	730 U	820 U	800 U	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
4-NITROANILINE	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
4-NITROPHENOL	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
ACENAPHTHENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
ACENAPHTHYLENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
ANILINE	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
ANTHRACENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
BENZO(A)PYRENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
BENZOIC ACID	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
BENZYL ALCOHOL	710 U	710 U	730 U	780 U	780 U	1600 U	NA	740 U	1700 U	730 U	820 U	800 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
CHRYSENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
DIBENZOFURAN	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
FLUORANTHENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
FLUORENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
LOCATION ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
SAMPLE DATE	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04	09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04
TOP DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
HEXACHLOROETHANE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
ISOPHORONE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
NAPHTHALENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
NITROBENZENE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	1800 U	1800 U	1800 U	2000 U	1900 U	3900 U	NA	1800 U	4100 U	1800 U	2100 U	2000 U	NA	NA	NA	NA	NA
PHENANTHRENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	200 U	NA	NA	NA	NA	NA
PHENOL	350 U	350 U	360 U	390 U	390 U	780 U	NA	370 U	830 U	370 U	410 U	400 U	NA	NA	NA	NA	NA
PYRENE	180 U	180 U	180 U	200 U	190 U	390 U	NA	180 U	410 U	180 U	210 U	130 J	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)																	
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	93.5	94.6	91.6	83.6	84.8	82.7	88.6	90.4	79.9	89.8	80.9	83.3	89.6	89.5	85.4	81.7	85.1
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS_20041217-D	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
LOCATION ID	TF3-029-TP2-ES-A-ES	TF3-029-TP2-ES-A-NS	TF3-029-TP2-ES-A-SS	TF3-029-TP2-NS-A-ES	TF3-029-TP2-NS-A-NS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-SS-1.0	TF3-029-TP2-WS-A-NS	TF3-029-TP2-WS-A-WS	TF3-029-TP3-SS-A-ES	TF3-029-TP3-SS-A-SS	TF3-029-TP3-SS-A-WS	TF3-029-TP3-WS-1.0	TF3-029-TP5-NS-1.0	TF3-029-TP5-WS-1.0	TF3-033-TP1-ES-1.0	TF3-033-TP1-NS-1.0
SAMPLE DATE	09/27/04	09/27/04	09/27/04	09/22/04	09/22/04	12/17/04	09/09/04	09/22/04	12/17/04	09/27/04	09/27/04	09/27/04	09/09/04	09/09/04	09/09/04	08/31/04	08/31/04
TOP DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1.5 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	1.7 U	1.1 U	1.6 U	1.7 U	1.9 U	8.6	0.56 U	21	1.1 U	0.79 U	1.2 U	1.4 U	0.38 U	0.79 U	0.63 U	0.50 U	0.45 U
GASOLINE RANGE ORGANICS	75	160	82	47	25	300	3.7 U	16	290	21	290	49	5.9	85	64	7	6.4
TOTAL PETROLEUM HYDROCARBONS	75	160	82	47	25	308.6	0.00 U	37	290	21	290	49	5.9	85	64	7	6.4

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																				
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																				
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANILINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)																				
AROCLOR-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	120 U	110 U	110 U	1100 U	110 U
AROCLOR-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	120 U	110 U	110 U	1100 U	110 U
AROCLOR-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	120 U	110 U	110 U	1100 U	110 U
AROCLOR-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	280	250	110 U	1100 U	110 U
AROCLOR-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	120 U	110 U	110 U	1100 U	110 U
AROCLOR-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	930	1200	110 U	1100 U	110 U
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	120 U	110 U	120 U	110 U	110 U	8200	110 U
TOTAL AROCLOR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00 U	0.00 U	0.00 U	1210	1450	0.00 U	8200	0.00 U
MISCELLANEOUS PARAMETERS (%)																				
PERCENT SOLIDS	86.3	87.9	85.8	76.9	87.5	83.5	83.8	84.7	91.2	88.2	88.4	89.2	85.1	81.3	85.4	83.3	84.9	89.2	91.6	85.8
MISCELLANEOUS ORGANICS (%)																				
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																				

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
LOCATION ID	TF3-033-TP1-SS-1.0	TF3-033-TP1-WS-1.0	TF3-DSW-1	TF3-DSW-2	TF3-DSW-3	TF3-DSW-4	TF3-DSW-5	TF3-T32-1.0	TF3-T33-1.0	TF3-T34-1.0	TF3-T36-1.0	TF3-T69-1.0	TF3-TF1-A	TF3-TF1-B	TF3-TF1-C	TF3-TF1-D	TF3-TF2-A	TF3-TF2-B	TF3-TF2-C	TF3-TF2-D
SAMPLE DATE	08/31/04	08/31/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	09/27/04	09/02/04	09/09/04	09/09/04	09/09/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04	10/08/04
TOP DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
BOTTOM DEPTH	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT	1 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DIESEL RANGE ORGANICS	0.50 U	0.47 U	1.5 U	36	1.5 U	1.9 U	1.6 U	55	0.48 U	0.55 U	1 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA
GASOLINE RANGE ORGANICS	10	13	17	400	300	11	19	990	16	15	29	7.5	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL PETROLEUM HYDROCARBONS	10	13	17	436	300	11	19	1045	16	15	29	7.5	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S1-2.0	TF3-001-S1-2.0A	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
LOCATION ID	TF3-001-S1-2.0	TF3-001-S1-2.0	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
SAMPLE DATE	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/14/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	07/14/04	09/02/04	07/14/04	09/21/04	07/14/04	07/21/04
TOP DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
2-BUTANONE	NA	NA	NA	NA	NA	16 U	19 U	23 U	21 U	17 U	26 U	25 U	NA	19 U	NA	20 U	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
2-HEXANONE	NA	NA	NA	NA	NA	16 U	19 U	23 U	21 U	17 U	26 U	25 U	NA	19 U	NA	20 U	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	16 U	19 U	23 U	21 U	17 U	26 U	25 U	NA	19 U	NA	20 U	NA
ACETONE	NA	NA	NA	NA	NA	64	240 U	290 U	260 U	210 U	65 U	63 U	NA	47 U	NA	50 U	NA
BENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S1-2.0	TF3-001-S1-2.0A	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
LOCATION ID	TF3-001-S1-2.0	TF3-001-S1-2.0	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
SAMPLE DATE	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/14/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	07/14/04	09/02/04	07/14/04	09/21/04	07/14/04	07/21/04
TOP DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
BROMOFORM	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
BROMOMETHANE	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	6.3 U	NA	4.7 U	NA	5 U	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
CHLOROETHANE	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	6.3 U	NA	4.7 U	NA	5 U	NA
CHLOROFORM	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	18	NA	4.7 U	NA	5 U	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
M+P-XYLENES	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	4.1	3.2 U	NA	2.4 U	NA	2.5 U	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	6.3 U	NA	4.7 U	NA	5 U	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	6.3 U	NA	4.7 U	NA	5 U	NA
NAPHTHALENE	NA	NA	NA	NA	NA	20 U	24 U	29 U	26 U	21 U	32 U	32 U	NA	24 U	NA	25 U	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
O-XYLENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
STYRENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
TOLUENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S1-2.0	TF3-001-S1-2.0A	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
LOCATION ID	TF3-001-S1-2.0	TF3-001-S1-2.0	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
SAMPLE DATE	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/14/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	07/14/04	09/02/04	07/14/04	09/21/04	07/14/04	07/21/04
TOP DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	NA	NA	NA	NA	NA	2 U	2.4 U	2.9 U	2.6 U	2.1 U	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	2 U	2.5	3.2	2.6 U	3	3.2 U	3.2 U	NA	2.4 U	NA	2.5 U	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	4 U	4.8 U	5.8 U	5.1 U	4.1 U	6.5 U	6.3 U	NA	4.7 U	NA	5 U	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
2-NITROANILINE	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	720 U	810 U	760 U	780 U	780 U	800 U	790 U	NA	740 U	NA	760 U	NA
3-NITROANILINE	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	720 U	810 U	760 U	780 U	780 U	800 U	790 U	NA	740 U	NA	760 U	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	720 U	810 U	760 U	780 U	780 U	800 U	790 U	NA	740 U	NA	760 U	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S1-2.0	TF3-001-S1-2.0A	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
LOCATION ID	TF3-001-S1-2.0	TF3-001-S1-2.0	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
SAMPLE DATE	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/14/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	07/14/04	09/02/04	07/14/04	09/21/04	07/14/04	07/21/04
TOP DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
ANILINE	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
ANTHRACENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
BENZOIC ACID	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	720 U	810 U	760 U	780 U	780 U	800 U	790 U	NA	740 U	NA	760 U	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
CHRYSENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
FLUORANTHENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
FLUORENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S1-2.0	TF3-001-S1-2.0A	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
LOCATION ID	TF3-001-S1-2.0	TF3-001-S1-2.0	TF3-001-S3-2.5	TF3-001-S4-2.0	TF3-001-S4-BOTT	TF3-002-TP1-BS-5.0	TF3-002-TP1-ES-A-BS	TF3-002-TP1-ES-A-ES	TF3-002-TP1-ES-A-NS	TF3-002-TP1-ES-A-SS	TF3-002-TP1-NS	TF3-002-TP1-NS-2.5	TF3-002-TP1-SS-2.5	TF3-002-TP1-WS-2.5	TF3-002-TP2-SS-2.5	TF3-003-TP1-BS-5.0	TF3-004-TP1-BS-2.0
SAMPLE DATE	07/29/04	07/29/04	07/29/04	07/29/04	07/29/04	07/14/04	09/20/04	09/20/04	09/20/04	09/20/04	09/07/04	07/14/04	09/02/04	07/14/04	09/21/04	07/14/04	07/21/04
TOP DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2.5 FT	2 FT	7 FT	5 FT	5 FT	5 FT	5 FT	5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	2.5 FT	5 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
ISOPHORONE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
NAPHTHALENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
NITROBENZENE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	1800 U	2000 U	1900 U	1900 U	2000 U	2000 U	2000 U	NA	1900 U	NA	1900 U	NA
PHENANTHRENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
PHENOL	NA	NA	NA	NA	NA	360 U	410 U	380 U	390 U	390 U	400 U	390 U	NA	370 U	NA	380 U	NA
PYRENE	NA	NA	NA	NA	NA	180 U	200 U	190 U	190 U	200 U	200 U	200 U	NA	190 U	NA	190 U	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	83	85	81.2	79.9	81	92.6	81.2	84.6	85.3	84	81.3	83.1	86.1	88.2	85.7	85.9	88.9
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	
DIESEL RANGE ORGANICS	82	0.61 U	33	0.55 U	0.53 U	0.52 U	1.9 U	1.3 U	3.4 U	2 U	NA	0.60 U	0.36 U	0.56 U	1.7 U	0.57 U	0.57 U
GASOLINE RANGE ORGANICS	6500	13	4100	4.1 U	45	89	14	3.9 U	3.9 U	3.9 U	NA	120	3.8 U	3.7 U	3.8 U	3.9 U	32
TOTAL PETROLEUM HYDROCARBONS	6582	13	4133	0.00 U	45	89	14	0.00 U	0.00 U	0.00 U	NA	120	0.00 U	0.00 U	0.00 U	0.00 U	32

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
LOCATION ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
SAMPLE DATE	07/26/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	12/17/04	09/23/04	09/27/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	07/28/04	07/28/04
TOP DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,1,1-TRICHLOROETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,1,2-TRICHLOROETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,1-DICHLOROETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,1-DICHLOROETHENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,1-DICHLOROPROPENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2,3-TRICHLOROBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2,3-TRICHLOROPROPANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2,4-TRICHLOROBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	5.9	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2-DIBROMOETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2-DICHLOROBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2-DICHLOROETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,2-DICHLOROPROPANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	11	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,3-DICHLOROBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,3-DICHLOROPROPANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
1,4-DICHLOROBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
2,2-DICHLOROPROPANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
2-BUTANONE	NA	52	20 U	20 U	19 U	20 U	25 U	20 U	18 U	NA	20 U	20 U	19 U	18 U	18 U	NA	NA
2-CHLOROTOLUENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
2-HEXANONE	NA	20 U	20 U	20 U	19 U	20 U	25 U	20 U	18 U	NA	20 U	20 U	19 U	18 U	18 U	NA	NA
4-CHLOROTOLUENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
4-ISOPROPYLTOLUENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	5.5	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
4-METHYL-2-PENTANONE	NA	20 U	20 U	20 U	19 U	20 U	25 U	20 U	18 U	NA	20 U	20 U	19 U	18 U	18 U	NA	NA
ACETONE	NA	250 U	260 U	250 U	240 U	250 U	310 U	250 U	230 U	NA	260 U	250 U	230 U	230 U	230 U	NA	NA
BENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
LOCATION ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
SAMPLE DATE	07/26/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	12/17/04	09/23/04	09/27/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	07/28/04	07/28/04
TOP DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
BROMOCHLOROMETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
BROMODICHLOROMETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
BROMOFORM	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
BROMOMETHANE	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	NA	5.1 U	4.9 U	4.7 U	4.5 U	4.6 U	NA	NA
CARBON TETRACHLORIDE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
CHLOROBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
CHLORODIBROMOMETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
CHLOROETHANE	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	NA	5.1 U	4.9 U	4.7 U	4.5 U	4.6 U	NA	NA
CHLOROFORM	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
CHLOROMETHANE	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	NA	5.1 U	4.9 U	4.7 U	4.5 U	4.6 U	NA	NA
CIS-1,2-DICHLOROETHENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
DIBROMOMETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
ETHYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
HEXACHLOROBUTADIENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
ISOPROPYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
M+P-XYLENES	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
METHYL TERT-BUTYL ETHER	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	NA	5.1 U	4.9 U	4.7 U	4.5 U	4.6 U	NA	NA
METHYLENE CHLORIDE	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	NA	5.1 U	4.9 U	4.7 U	4.5 U	4.6 U	NA	NA
NAPHTHALENE	NA	25 U	26 U	25 U	24 U	25 U	31 U	25 U	23 U	NA	26 U	25 U	23 U	23 U	23 U	NA	NA
N-BUTYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
N-PROPYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
O-XYLENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
SEC-BUTYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	5.8	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
STYRENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
TERT-BUTYLBENZENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
TETRACHLOROETHENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
TOLUENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
TRANS-1,2-DICHLOROETHENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
LOCATION ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
SAMPLE DATE	07/26/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	12/17/04	09/23/04	09/27/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	07/28/04	07/28/04
TOP DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
TRICHLOROFLUOROMETHANE	NA	2.5 U	2.6 U	2.5 U	2.4 U	2.5 U	3.1 U	2.5 U	2.3 U	NA	2.6 U	2.5 U	2.3 U	2.3 U	2.3 U	NA	NA
VINYL CHLORIDE	NA	5 U	5.1 U	5.1 U	4.7 U	5 U	6.2 U	5 U	4.6 U	NA	5.1 U	4.9 U	4.7 U	4.5 U	4.6 U	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
1,2-DICHLOROBENZENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	560 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
1,3-DICHLOROBENZENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	560 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
1,4-DICHLOROBENZENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	550 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,4,5-TRICHLOROPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,4,6-TRICHLOROPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,4-DICHLOROPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,4-DIMETHYLPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,4-DINITROPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,4-DINITROTOLUENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2,6-DINITROTOLUENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2-CHLORONAPHTHALENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2-CHLOROPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	500 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2-METHYLNAPHTHALENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
2-METHYLPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	560 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
2-NITROANILINE	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
2-NITROPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
3&4-METHYLPHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	580 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
3,3'-DICHLOROBENZIDINE	NA	760 U	730 U	730 U	700 U	770 U	1400 U	1600 U	750 U	NA	1500 U	1500 U	1600 U	1500 U	1500 U	NA	NA
3-NITROANILINE	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	760 U	730 U	730 U	700 U	770 U	1400 U	1600 U	750 U	NA	1500 U	1500 U	1600 U	1500 U	1500 U	NA	NA
4-CHLOROANILINE	NA	760 U	730 U	730 U	700 U	770 U	1400 U	1600 U	750 U	NA	1500 U	1500 U	1600 U	1500 U	1500 U	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
LOCATION ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
SAMPLE DATE	07/26/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	12/17/04	09/23/04	09/27/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	07/28/04	07/28/04
TOP DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
4-NITROPHENOL	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
ACENAPHTHENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
ACENAPHTHYLENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
ANILINE	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
ANTHRACENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
BENZO(A)ANTHRACENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
BENZO(A)PYRENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
BENZO(B)FLUORANTHENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
BENZO(G,H,I)PERYLENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
BENZO(K)FLUORANTHENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
BENZOIC ACID	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
BENZYL ALCOHOL	NA	760 U	730 U	730 U	700 U	770 U	1400 U	460 J	750 U	NA	1500 U	1500 U	1600 U	1500 U	1500 U	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
BUTYL BENZYL PHTHALATE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
CHRYSENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
DIBENZOFURAN	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
DIETHYL PHTHALATE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
DIMETHYL PHTHALATE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
DI-N-BUTYL PHTHALATE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
DI-N-OCTYL PHTHALATE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
FLUORANTHENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
FLUORENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
HEXACHLOROBENZENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
HEXACHLOROBUTADIENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
HEXACHLOROETHANE	NA	380 U	370 U	360 U	350 U	380 U	720 U	490 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
LOCATION ID	TF3-004-TP2-BS-2.0	TF3-004-TP3-BS-B-BS	TF3-004-TP3-BS-B-ES	TF3-004-TP3-BS-B-NS	TF3-004-TP3-BS-B-SS	TF3-004-TP3-BS-B-WS	TF3-004-TP3-NS-A-BS	TF3-004-TP3-NS-B-BS	TF3-004-TP3-SS-A-BS	TF3-005-TP1-BS-A-BS	TF3-005-TP1-BS-B-BS	TF3-005-TP1-BS-B-ES	TF3-005-TP1-BS-B-NS	TF3-005-TP1-BS-B-SS	TF3-005-TP1-BS-B-WS	TF3-005-TP2-BS-2.0	TF3-005-TP3-BS-2.0
SAMPLE DATE	07/26/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	12/17/04	09/23/04	09/27/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	07/28/04	07/28/04
TOP DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	6 FT	4.5 FT	2 FT	4.5 FT	4.5 FT	2 FT	2 FT	2 FT	2 FT	6 FT	4.5 FT	4.5 FT	4.5 FT	4.5 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
ISOPHORONE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
NAPHTHALENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
NITROBENZENE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
N-NITROSODIPHENYLAMINE	NA	380 U	370 U	360 U	350 U	380 U	720 U	780 U	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
PENTACHLOROPHENOL	NA	1900 U	1800 U	1800 U	1800 U	1900 U	3600 U	3900 U	1900 U	NA	3700 U	3600 U	3900 U	3600 U	3700 U	NA	NA
PHENANTHRENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	400	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
PHENOL	NA	380 U	370 U	360 U	350 U	380 U	720 U	570 J	380 U	NA	740 U	730 U	780 U	730 U	740 U	NA	NA
PYRENE	NA	190 U	180 U	180 U	180 U	190 U	360 U	390 U	190 U	NA	370 U	360 U	390 U	360 U	370 U	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	90	86.7	88.1	90	90.3	85.2	89.3	84.7	87.6	84.3	87.5	88.7	85.4	88.6	87.6	85.8	83.6
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	
DIESEL RANGE ORGANICS	0.48 U	49	1 U	20	22	1 U	NA	180	24	27	100	7.2	8.6	12	26	0.47 U	0.43 U
GASOLINE RANGE ORGANICS	14	530	360	160	210	28	NA	8400	360	2700	1100	210	1600	440	650	54	78
TOTAL PETROLEUM HYDROCARBONS	14	579	360	180	232	28	NA	8580	384	2727	1200	217.2	1608.6	452	676	54	78

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0_20040927	TF3-010-TP2-BS-2.0_20041216
LOCATION ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP2-BS-2.0
SAMPLE DATE	09/21/04	07/28/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/20/04	09/27/04	12/16/04
TOP DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,1,1-TRICHLOROETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,1,2,2-TETRACHLOROETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,1,2-TRICHLOROETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,1-DICHLOROETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,1-DICHLOROETHENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,1-DICHLOROPROPENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2,3-TRICHLOROBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2,3-TRICHLOROPROPANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2,4-TRICHLOROBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2,4-TRIMETHYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2-DIBROMO-3-CHLOROPROPANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2-DIBROMOETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2-DICHLOROBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2-DICHLOROETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,2-DICHLOROPROPANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,3,5-TRIMETHYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,3-DICHLOROBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,3-DICHLOROPROPANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
1,4-DICHLOROBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
2,2-DICHLOROPROPANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
2-BUTANONE	16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	NA	20 U
2-CHLOROTOLUENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
2-HEXANONE	16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	NA	20 U
4-CHLOROTOLUENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
4-ISOPROPYLTOLUENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
4-METHYL-2-PENTANONE	16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	NA	20 U
ACETONE	200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250 U	NA	250 U
BENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0_20040927	TF3-010-TP2-BS-2.0_20041216
LOCATION ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP2-BS-2.0
SAMPLE DATE	09/21/04	07/28/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/20/04	09/27/04	12/16/04
TOP DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
BROMOCHLOROMETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
BROMODICHLOROMETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
BROMOFORM	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
BROMOMETHANE	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U
CARBON TETRACHLORIDE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
CHLOROBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
CHLORODIBROMOMETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
CHLOROETHANE	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U
CHLOROFORM	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
CHLOROMETHANE	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U
CIS-1,2-DICHLOROETHENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
CIS-1,3-DICHLOROPROPENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
DIBROMOMETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
ETHYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
HEXACHLOROBUTADIENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
ISOPROPYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
M+P-XYLENES	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
METHYL TERT-BUTYL ETHER	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U
METHYLENE CHLORIDE	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U
NAPHTHALENE	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
N-BUTYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
N-PROPYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
O-XYLENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
SEC-BUTYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
STYRENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
TERT-BUTYLBENZENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
TETRACHLOROETHENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
TOLUENE	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
TRANS-1,2-DICHLOROETHENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
TRANS-1,3-DICHLOROPROPENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0_20040927	TF3-010-TP2-BS-2.0_20041216
LOCATION ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP2-BS-2.0
SAMPLE DATE	09/21/04	07/28/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/20/04	09/27/04	12/16/04
TOP DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	NA	2.5 U
TRICHLOROFLUOROMETHANE	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.8	NA	2.5 U
VINYL CHLORIDE	4.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	5 U
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
1,2-DICHLOROBENZENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
1,2-DIPHENYLHYDRAZINE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
1,3-DICHLOROBENZENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
1,4-DICHLOROBENZENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,4,5-TRICHLOROPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,4,6-TRICHLOROPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,4-DICHLOROPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,4-DIMETHYLPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,4-DINITROPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,4-DINITROTOLUENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2,6-DINITROTOLUENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2-CHLORONAPHTHALENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2-CHLOROPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2-METHYLNAPHTHALENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
2-METHYLPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
2-NITROANILINE	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
2-NITROPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
3&4-METHYLPHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
3,3'-DICHLOROBENZIDINE	760 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	810 U	NA	1500 U
3-NITROANILINE	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
4,6-DINITRO-2-METHYLPHENOL	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
4-BROMOPHENYL PHENYL ETHER	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
4-CHLORO-3-METHYLPHENOL	760 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	810 U	NA	1500 U
4-CHLOROANILINE	760 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	810 U	NA	1500 U
4-CHLOROPHENYL PHENYL ETHER	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0_20040927	TF3-010-TP2-BS-2.0_20041216
LOCATION ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP2-BS-2.0
SAMPLE DATE	09/21/04	07/28/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/20/04	09/27/04	12/16/04
TOP DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
4-NITROPHENOL	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
ACENAPHTHENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
ACENAPHTHYLENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
ANILINE	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
ANTHRACENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
BENZO(A)ANTHRACENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
BENZO(A)PYRENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
BENZO(B)FLUORANTHENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
BENZO(G,H,I)PERYLENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
BENZO(K)FLUORANTHENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
BENZOIC ACID	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
BENZYL ALCOHOL	760 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	810 U	NA	1500 U
BIS(2-CHLOROETHOXY)METHANE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
BIS(2-CHLOROETHYL)ETHER	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
BIS(2-CHLOROISOPROPYL)ETHER	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
BUTYL BENZYL PHTHALATE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
CHRYSENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
DIBENZO(A,H)ANTHRACENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
DIBENZOFURAN	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
DIETHYL PHTHALATE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
DIMETHYL PHTHALATE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
DI-N-BUTYL PHTHALATE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
DI-N-OCTYL PHTHALATE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
FLUORANTHENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
FLUORENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
HEXACHLOROBENZENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
HEXACHLOROBUTADIENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
HEXACHLOROCYCLOPENTADIENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
HEXACHLOROETHANE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0_20040927	TF3-010-TP2-BS-2.0_20041216
LOCATION ID	TF3-005-TP3-WS-A-BS	TF3-006-TP1-BS-2.0	TF3-007-TP1-BE-2.0	TF3-007-TP1-BW-2.0	TF3-007-TP2-BE-2.0	TF3-007-TP2-BW-2.0	TF3-007-TP3-BW-2.0	TF3-008-TP1-BS-2.0	TF3-009-TP3-BE-2.0	TF3-009-TP3-BW-2.0	TF3-009-TP4-BS-2.0	TF3-009-TP5-BS-2.0	TF3-009-TP6-BS-2.0	TF3-009-TP7-BS-2.0	TF3-010-TP1-BS-2.0	TF3-010-TP2-BS-2.0	TF3-010-TP2-BS-2.0
SAMPLE DATE	09/21/04	07/28/04	07/26/04	07/26/04	07/26/04	07/26/04	07/26/04	09/02/04	09/01/04	09/01/04	09/01/04	09/01/04	09/01/04	09/02/04	09/20/04	09/27/04	12/16/04
TOP DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
ISOPHORONE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
NAPHTHALENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
NITROBENZENE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
N-NITROSO-DI-N-PROPYLAMINE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
N-NITROSODIPHENYLAMINE	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
PENTACHLOROPHENOL	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2000 U	NA	3800 U
PHENANTHRENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
PHENOL	380 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400 U	NA	760 U
PYRENE	190 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200 U	NA	380 U
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	85.7	84.5	88.5	90.8	84.9	87	86.7	83.6	83	82.2	87.1	83.7	86.6	86.5	81.8	86.3	82.9
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83.5	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	
DIESEL RANGE ORGANICS	1.4 U	0.44 U	0.53 U	0.51 U	0.47 U	0.48 U	0.46 U	0.43 U	0.35 U	0.46 U	0.37 U	0.58 U	0.54 U	0.48 U	1.9 U	10	NA
GASOLINE RANGE ORGANICS	19	6.9	7.1	3.6 U	3.9 U	3.8 U	3.8 U	4 U	4.4	8.3	46	6.3	6.5	3.8 U	110	93	NA
TOTAL PETROLEUM HYDROCARBONS	19	6.9	7.1	0.00 U	0.00 U	0.00 U	0.00 U	0.00 U	4.4	8.3	46	6.3	6.5	0.00 U	110	103	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS-2.0	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS-2.0	TF3-018-TP2-SS-A-BS-2.0	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
LOCATION ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS	TF3-018-TP2-SS-A-BS	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
SAMPLE DATE	09/20/04	09/07/04	09/07/04	09/14/04	09/15/04	08/31/04	09/02/04	09/08/04	09/08/04	08/05/04	09/27/04	09/07/04	09/07/04	09/20/04	09/20/04	09/02/04	08/31/04
TOP DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,1,1-TRICHLOROETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,1,2-TRICHLOROETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,1-DICHLOROETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,1-DICHLOROETHENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,1-DICHLOROPROPENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2,3-TRICHLOROBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2,3-TRICHLOROPROPANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2,4-TRICHLOROBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2-DIBROMOETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2-DICHLOROBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2-DICHLOROETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,2-DICHLOROPROPANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,3-DICHLOROBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,3-DICHLOROPROPANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
1,4-DICHLOROBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
2,2-DICHLOROPROPANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
2-BUTANONE	NA	21 U	18 U	21 U	20 U	NA	NA	NA	26 U	NA	17 U	NA	NA	17 U	21 U	NA	NA
2-CHLOROTOLUENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
2-HEXANONE	NA	21 U	18 U	21 U	20 U	NA	NA	NA	26 U	NA	17 U	NA	NA	17 U	21 U	NA	NA
4-CHLOROTOLUENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
4-ISOPROPYLTOLUENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
4-METHYL-2-PENTANONE	NA	21 U	18 U	21 U	20 U	NA	NA	NA	26 U	NA	17 U	NA	NA	17 U	21 U	NA	NA
ACETONE	NA	260 U	220 U	260 U	250 U	NA	NA	NA	330 U	NA	210 U	NA	NA	210 U	260 U	NA	NA
BENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS-2.0	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS-2.0	TF3-018-TP2-SS-A-BS-2.0	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
LOCATION ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS	TF3-018-TP2-SS-A-BS	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
SAMPLE DATE	09/20/04	09/07/04	09/07/04	09/14/04	09/15/04	08/31/04	09/02/04	09/08/04	09/08/04	08/05/04	09/27/04	09/07/04	09/07/04	09/20/04	09/20/04	09/02/04	08/31/04
TOP DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
BROMOCHLOROMETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
BROMODICHLOROMETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
BROMOFORM	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
BROMOMETHANE	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA
CARBON TETRACHLORIDE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
CHLOROBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
CHLORODIBROMOMETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
CHLOROETHANE	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA
CHLOROFORM	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
CHLOROMETHANE	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA
CIS-1,2-DICHLOROETHENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
DIBROMOMETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
ETHYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
HEXACHLOROBUTADIENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
ISOPROPYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
M+P-XYLENES	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
METHYL TERT-BUTYL ETHER	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA
METHYLENE CHLORIDE	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA
NAPHTHALENE	NA	26 U	22 U	26 U	25 U	NA	NA	NA	33 U	NA	21 U	NA	NA	21 U	26 U	NA	NA
N-BUTYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
N-PROPYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
O-XYLENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
SEC-BUTYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
STYRENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
TERT-BUTYLBENZENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
TETRACHLOROETHENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
TOLUENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.2	NA	NA	2.2	2.6 U	NA	NA
TRANS-1,2-DICHLOROETHENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS-2.0	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS-2.0	TF3-018-TP2-SS-A-BS-2.0	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
LOCATION ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS	TF3-018-TP2-SS-A-BS	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
SAMPLE DATE	09/20/04	09/07/04	09/07/04	09/14/04	09/15/04	08/31/04	09/02/04	09/08/04	09/08/04	08/05/04	09/27/04	09/07/04	09/07/04	09/20/04	09/20/04	09/02/04	08/31/04
TOP DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	2.1 U	2.6 U	NA	NA
TRICHLOROFLUOROMETHANE	NA	2.6 U	2.2 U	2.6 U	2.5 U	NA	NA	NA	3.3 U	NA	2.1 U	NA	NA	3.4	2.6 U	NA	NA
VINYL CHLORIDE	NA	5.2 U	4.4 U	5.2 U	5 U	NA	NA	NA	6.5 U	NA	4.2 U	NA	NA	4.2 U	5.1 U	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
1,2-DICHLOROBENZENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
1,3-DICHLOROBENZENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
1,4-DICHLOROBENZENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,4,5-TRICHLOROPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,4,6-TRICHLOROPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,4-DICHLOROPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,4-DIMETHYLPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,4-DINITROPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,4-DINITROTOLUENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2,6-DINITROTOLUENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2-CHLORONAPHTHALENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2-CHLOROPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2-METHYLNAPHTHALENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
2-METHYLPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
2-NITROANILINE	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
2-NITROPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
3&4-METHYLPHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
3,3'-DICHLOROBENZIDINE	NA	750 U	720 U	750 U	760 U	NA	NA	NA	1500 U	NA	780 U	NA	NA	750 U	760 U	NA	NA
3-NITROANILINE	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	750 U	720 U	750 U	760 U	NA	NA	NA	1500 U	NA	780 U	NA	NA	750 U	760 U	NA	NA
4-CHLOROANILINE	NA	750 U	720 U	750 U	760 U	NA	NA	NA	1500 U	NA	780 U	NA	NA	750 U	760 U	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS-2.0	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS-2.0	TF3-018-TP2-SS-A-BS-2.0	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
LOCATION ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS	TF3-018-TP2-SS-A-BS	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
SAMPLE DATE	09/20/04	09/07/04	09/07/04	09/14/04	09/15/04	08/31/04	09/02/04	09/08/04	09/08/04	08/05/04	09/27/04	09/07/04	09/07/04	09/20/04	09/20/04	09/02/04	08/31/04
TOP DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
4-NITROPHENOL	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
ACENAPHTHENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
ACENAPHTHYLENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
ANILINE	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
ANTHRACENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
BENZO(A)ANTHRACENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	310 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
BENZO(A)PYRENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	350 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
BENZO(B)FLUORANTHENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	320 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
BENZO(G,H,I)PERYLENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	270 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
BENZO(K)FLUORANTHENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	300 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
BENZOIC ACID	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
BENZYL ALCOHOL	NA	750 U	720 U	750 U	760 U	NA	NA	NA	1500 U	NA	780 U	NA	NA	750 U	760 U	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
BUTYL BENZYL PHTHALATE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
CHRYSENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	320 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
DIBENZOFURAN	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
DIETHYL PHTHALATE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
DIMETHYL PHTHALATE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
DI-N-BUTYL PHTHALATE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
DI-N-OCTYL PHTHALATE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
FLUORANTHENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	480	NA	190 U	NA	NA	190 U	190 U	NA	NA
FLUORENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
HEXACHLOROBENZENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
HEXACHLOROBUTADIENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
HEXACHLOROETHANE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS-2.0	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS-2.0	TF3-018-TP2-SS-A-BS-2.0	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
LOCATION ID	TF3-010-TP3-BS-2.0	TF3-012-TP1-BS-2.0	TF3-012-TP3-BS-2.0	TF3-012-TP3-WS-A-BS	TF3-016-TP2-A-BS-3.0	TF3-016-TP4-BS-2.0	TF3-016-TP5-BS-2.0	TF3-017-TP1-BW-2.0	TF3-017-TP2-BW-2.0	TF3-018-TP1-BS-2.0	TF3-018-TP1-WS-A-BS	TF3-018-TP2-BE-2.0	TF3-018-TP2-BW-2.0	TF3-018-TP2-NS-A-BS	TF3-018-TP2-SS-A-BS	TF3-018-TP4-BS-2.0	TF3-019-TP2-BS-2.0
SAMPLE DATE	09/20/04	09/07/04	09/07/04	09/14/04	09/15/04	08/31/04	09/02/04	09/08/04	09/08/04	08/05/04	09/27/04	09/07/04	09/07/04	09/20/04	09/20/04	09/02/04	08/31/04
TOP DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
BOTTOM DEPTH	2 FT	2 FT	2 FT	2 FT	3 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	240 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
ISOPHORONE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
NAPHTHALENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	370 U	NA	190 U	NA	NA	190 U	190 U	NA	NA
NITROBENZENE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
N-NITROSODIPHENYLAMINE	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
PENTACHLOROPHENOL	NA	1900 U	1800 U	1900 U	1900 U	NA	NA	NA	3700 U	NA	1900 U	NA	NA	1900 U	1900 U	NA	NA
PHENANTHRENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	210 J	NA	190 U	NA	NA	190 U	190 U	NA	NA
PHENOL	NA	380 U	360 U	380 U	380 U	NA	NA	NA	740 U	NA	390 U	NA	NA	370 U	380 U	NA	NA
PYRENE	NA	190 U	180 U	190 U	190 U	NA	NA	NA	950	NA	190 U	NA	NA	190 U	190 U	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	84.1	86.6	91.1	88.3	88	86.6	88.3	86.2	88.5	80.8	86	83.7	83.7	88.6	85.8	84.5	88.8
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	86.6	91.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	
DIESEL RANGE ORGANICS	1.7 U	0.52 U	0.42 U	0.52 U	14	0.53 U	0.48 U	0.39 U	0.51 U	0.67 U	0.90 U	0.53 U	0.56 U	1.6 U	69	0.55 U	0.49 U
GASOLINE RANGE ORGANICS	7.2	100	120	3.8 U	140	11	23	96	170	4 U	3.9 U	22	6.9	6.4	34	3.9 U	5
TOTAL PETROLEUM HYDROCARBONS	7.2	100	120	0.00 U	154	11	23	96	170	0.00 U	0.00 U	22	6.9	6.4	103	0.00 U	5

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
LOCATION ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
SAMPLE DATE	08/31/04	09/02/04	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/27/04	09/09/04	09/27/04	09/22/04	09/27/04	08/31/04	08/05/04	08/05/04	08/05/04	08/05/04
TOP DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
BOTTOM DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA	23 U	NA	19 U	20 U	17 U	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA	23 U	NA	19 U	20 U	17 U	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA	23 U	NA	19 U	20 U	17 U	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA	280 U	NA	230 U	250 U	220 U	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
LOCATION ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
SAMPLE DATE	08/31/04	09/02/04	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/27/04	09/09/04	09/27/04	09/22/04	09/27/04	08/31/04	08/05/04	08/05/04	08/05/04	08/05/04
TOP DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
BOTTOM DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
M+P-XYLENES	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	28 U	NA	23 U	25 U	22 U	NA	NA	NA	NA	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
O-XYLENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.6	2.2 U	NA	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
LOCATION ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
SAMPLE DATE	08/31/04	09/02/04	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/27/04	09/09/04	09/27/04	09/22/04	09/27/04	08/31/04	08/05/04	08/05/04	08/05/04	08/05/04
TOP DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
BOTTOM DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	2.3 U	2.5 U	2.2 U	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA	5.6 U	NA	4.6 U	5 U	4.4 U	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA	NA	710 U	NA	720 U	760 U	770 U	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA	710 U	NA	720 U	760 U	770 U	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA	NA	710 U	NA	720 U	760 U	770 U	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
LOCATION ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
SAMPLE DATE	08/31/04	09/02/04	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/27/04	09/09/04	09/27/04	09/22/04	09/27/04	08/31/04	08/05/04	08/05/04	08/05/04	08/05/04
TOP DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
BOTTOM DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
ANILINE	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	710 U	NA	720 U	760 U	770 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
LOCATION ID	TF3-020-TP3-BS-2.0	TF3-023-TP2-BS-2.0	TF3-023-TP3-BS-2.0	TF3-026-TP1-BS-2.0	TF3-028-TP1-BS-2.0	TF3-028-TP2-BS-2.0	TF3-028-TP3-BS-2.0	TF3-029-TP1-NS-A-BS	TF3-029-TP2-BS-2.0	TF3-029-TP2-ES-A-BS	TF3-029-TP2-WS-A-BS	TF3-029-TP3-SS-A-BS	TF3-033-TP1-BS-2.0	TF3-B228-FPE	TF3-B228-FPW	TF3-B228-NSE	TF3-B228-NSW
SAMPLE DATE	08/31/04	09/02/04	09/02/04	08/05/04	08/05/04	08/05/04	08/05/04	09/27/04	09/09/04	09/27/04	09/22/04	09/27/04	08/31/04	08/05/04	08/05/04	08/05/04	08/05/04
TOP DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
BOTTOM DEPTH	2.5 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	2 FT	3 FT	3 FT	3 FT	2 FT	3 FT	3 FT	3 FT	3 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA	1800 U	NA	1800 U	1900 U	1900 U	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA	NA	350 U	NA	360 U	380 U	380 U	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA	180 U	NA	180 U	190 U	190 U	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	87.6	88.4	87.4	88.4	85.9	85.7	81.4	92.1	87.6	91.8	88.1	86.9	79.6	86.4	85.9	83.8	78.7
MISCELLANEOUS ORGANICS (%)																	
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)																	
DIESEL RANGE ORGANICS	0.46 U	0.55 U	0.42 U	0.76 U	0.66 U	0.76 U	0.76 U	1.2 U	0.57 U	1.3 U	2 U	0.78 U	0.53 U	0.87 U	0.89 U	0.92 U	1 U
GASOLINE RANGE ORGANICS	6.6	99	35	3.7 U	9.1	62	80	32	960	100	55	87	13	59	67	35	100
TOTAL PETROLEUM HYDROCARBONS	6.6	99	35	0.00 U	9.1	62	80	32	960	100	55	87	13	59	67	35	100

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
LOCATION ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
SAMPLE DATE	08/05/04	08/05/04	08/05/04	08/05/04	09/21/04	09/23/04	09/23/04
TOP DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
BOTTOM DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)							
1,1,1,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	NA	NA	NA	NA	NA	NA	NA
4-ISOPROPYLTOLUENE	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
LOCATION ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
SAMPLE DATE	08/05/04	08/05/04	08/05/04	08/05/04	09/21/04	09/23/04	09/23/04
TOP DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
BOTTOM DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	NA	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
CHLORODIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA
DIBROMOMETHANE	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA
ISOPROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NA	NA	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA
N-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NA	NA	NA	NA	NA	NA	NA
SEC-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
LOCATION ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
SAMPLE DATE	08/05/04	08/05/04	08/05/04	08/05/04	09/21/04	09/23/04	09/23/04
TOP DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
BOTTOM DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (UG/KG)							
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,2-DIPHENYLHYDRAZINE	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA
3&4-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
LOCATION ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
SAMPLE DATE	08/05/04	08/05/04	08/05/04	08/05/04	09/21/04	09/23/04	09/23/04
TOP DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
BOTTOM DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	NA	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA	NA
ANILINE	NA	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA
DI-N-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
LOCATION ID	TF3-B228-SSE	TF3-B228-SSME	TF3-B228-SSMW	TF3-B228-SSW	TF3-T32-BS-10.0	TF3-T36-BS	TF3-T69-SS-5.0
SAMPLE DATE	08/05/04	08/05/04	08/05/04	08/05/04	09/21/04	09/23/04	09/23/04
TOP DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
BOTTOM DEPTH	3 FT	3 FT	3 FT	3 FT	10 FT	10 FT	5 FT
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	SB	SB	SB	SB	SB	SB	SB
QC TYPE	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (%)							
PERCENT SOLIDS	92	88.4	89.6	87.1	86.5	85.5	88.4
MISCELLANEOUS ORGANICS (%)							
PERCENT SOLIDS	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/KG)							
DIESEL RANGE ORGANICS	0.85 U	0.85 U	0.73 U	0.83 U	0.94 U	1.8 U	1.5 U
GASOLINE RANGE ORGANICS	18	26	17	3.8 U	18	8.4	23
TOTAL PETROLEUM HYDROCARBONS	18	26	17	0.00 U	18	8.4	23

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS_20041217	TF3-005-TP3-WS-A-NS_20040927	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS-D	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
LOCATION ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-NS	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
SAMPLE DATE	07/29/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	09/27/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/16/04	12/16/04	12/16/04
TOP DEPTH																	
BOTTOM DEPTH																	
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM
VOLATILES (UG/KG)																	
1,1,1,2-TETRACHLOROETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,1,1-TRICHLOROETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,1,2,2-TETRACHLOROETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,1,2-TRICHLOROETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,1-DICHLOROETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,1-DICHLOROETHENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,1-DICHLOROPROPENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2,3-TRICHLOROBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2,3-TRICHLOROPROPANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2,4-TRICHLOROBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2,4-TRIMETHYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2-DIBROMO-3-CHLOROPROPANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2-DIBROMOETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2-DICHLOROBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2-DICHLOROETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,2-DICHLOROPROPANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,3,5-TRIMETHYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,3-DICHLOROBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,3-DICHLOROPROPANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
1,4-DICHLOROBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
2,2-DICHLOROPROPANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
2-BUTANONE	NA	20 U	22 U	21 U	21 U	58	20 U	NA	19 U	21 U	20 U	23 U	22 U	20 U	20 U	19 U	18 U
2-CHLOROTOLUENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
2-HEXANONE	NA	20 U	22 U	21 U	21 U	20 U	20 U	NA	19 U	21 U	20 U	23 U	22 U	20 U	20 U	19 U	18 U
4-CHLOROTOLUENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
4-ISOPROPYLTOLUENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
4-METHYL-2-PENTANONE	NA	20 U	22 U	21 U	21 U	20 U	20 U	NA	19 U	21 U	20 U	23 U	22 U	20 U	20 U	19 U	18 U
ACETONE	NA	250 U	270 U	260 U	260 U	250 U	250 U	NA	240 U	260 U	250 U	280 U	270 U	250 U	250 U	240 U	230 U
BENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS_20041217	TF3-005-TP3-WS-A-NS_20040927	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS-D	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
LOCATION ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-NS	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
SAMPLE DATE	07/29/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	09/27/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/16/04	12/16/04	12/16/04
TOP DEPTH																	
BOTTOM DEPTH																	
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM
BROMOBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
BROMOCHLOROMETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
BROMODICHLOROMETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
BROMOFORM	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
BROMOMETHANE	NA	5.1 U	5.4 U	5.1 U	5.3 U	5 U	5.1 U	NA	4.7 U	5.2 U	5 U	5.7 U	5.5 U	5 U	5.1 U	4.9 U	4.6 U
CARBON TETRACHLORIDE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
CHLOROBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
CHLORODIBROMOMETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
CHLOROETHANE	NA	5.1 U	5.4 U	5.1 U	5.3 U	5 U	5.1 U	NA	4.7 U	5.2 U	5 U	5.7 U	5.5 U	5 U	5.1 U	4.9 U	4.6 U
CHLOROFORM	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
CHLOROMETHANE	NA	5.1 U	5.4 U	5.1 U	5.3 U	5 U	5.1 U	NA	4.7 U	5.2 U	5 U	5.7 U	5.5 U	5 U	5.1 U	4.9 U	4.6 U
CIS-1,2-DICHLOROETHENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
CIS-1,3-DICHLOROPROPENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
DIBROMOMETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
ETHYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
HEXACHLOROBUTADIENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
ISOPROPYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
M+P-XYLENES	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
METHYL TERT-BUTYL ETHER	NA	5.1 U	5.4 U	5.1 U	5.3 U	5 U	5.1 U	NA	4.7 U	5.2 U	5 U	5.7 U	5.5 U	5 U	5.1 U	4.9 U	4.6 U
METHYLENE CHLORIDE	NA	5.1 U	5.4 U	5.1 U	5.3 U	5 U	5.1 U	NA	4.7 U	5.2 U	5 U	5.7 U	5.5 U	5 U	5.1 U	4.9 U	4.6 U
NAPHTHALENE	NA	25 U	27 U	26 U	26 U	25 U	25 U	NA	24 U	26 U	25 U	28 U	27 U	25 U	25 U	24 U	23 U
N-BUTYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
N-PROPYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
O-XYLENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
SEC-BUTYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
STYRENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
TERT-BUTYLBENZENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
TETRACHLOROETHENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
TOLUENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
TRANS-1,2-DICHLOROETHENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
TRANS-1,3-DICHLOROPROPENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS_20041217	TF3-005-TP3-WS-A-NS_20040927	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS-D	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
LOCATION ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-NS	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
SAMPLE DATE	07/29/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	09/27/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/16/04	12/16/04	12/16/04
TOP DEPTH																	
BOTTOM DEPTH																	
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM
TRICHLOROETHENE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
TRICHLOROFLUOROMETHANE	NA	2.5 U	2.7 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	2.4 U	2.6 U	2.5 U	2.8 U	2.7 U	2.5 U	2.5 U	2.4 U	2.3 U
VINYL CHLORIDE	NA	5.1 U	5.4 U	5.1 U	5.3 U	5 U	5.1 U	NA	4.7 U	5.2 U	5 U	5.7 U	5.5 U	5 U	5.1 U	4.9 U	4.6 U
SEMIVOLATILES (UG/KG)																	
1,2,4-TRICHLOROBENZENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
1,2-DICHLOROBENZENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
1,2-DIPHENYLHYDRAZINE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
1,3-DICHLOROBENZENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
1,4-DICHLOROBENZENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,4,5-TRICHLOROPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,4,6-TRICHLOROPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,4-DICHLOROPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,4-DIMETHYLPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,4-DINITROPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,4-DINITROTOLUENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2,6-DINITROTOLUENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2-CHLORONAPHTHALENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2-CHLOROPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2-METHYLNAPHTHALENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
2-METHYLPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
2-NITROANILINE	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
2-NITROPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
3&4-METHYLPHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
3,3'-DICHLOROBENZIDINE	NA	15000 U	760 U	780 U	780 U	790 U	1600 U	NA	3800 U	1500 U	7100 U	3600 U	3600 U	3800 U	2900 U	3000 U	3000 U
3-NITROANILINE	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
4,6-DINITRO-2-METHYLPHENOL	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
4-BROMOPHENYL PHENYL ETHER	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
4-CHLORO-3-METHYLPHENOL	NA	15000 U	760 U	780 U	780 U	790 U	1600 U	NA	3800 U	1500 U	7100 U	3600 U	3600 U	3800 U	2900 U	3000 U	3000 U
4-CHLOROANILINE	NA	15000 U	760 U	780 U	780 U	790 U	1600 U	NA	3800 U	1500 U	7100 U	3600 U	3600 U	3800 U	2900 U	3000 U	3000 U
4-CHLOROPHENYL PHENYL ETHER	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS_20041217	TF3-005-TP3-WS-A-NS_20040927	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS-D	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
LOCATION ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-NS	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
SAMPLE DATE	07/29/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	09/27/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/16/04	12/16/04	12/16/04
TOP DEPTH																	
BOTTOM DEPTH																	
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM
4-NITROANILINE	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
4-NITROPHENOL	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
ACENAPHTHENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
ACENAPHTHYLENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
ANILINE	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
ANTHRACENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
BENZO(A)ANTHRACENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	490 J	660	1800 U	900 U	890 U	950 U	730 U	620 J	660 J
BENZO(A)PYRENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	640	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
BENZO(B)FLUORANTHENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	520	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
BENZO(G,H,I)PERYLENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
BENZO(K)FLUORANTHENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	590	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
BENZOIC ACID	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
BENZYL ALCOHOL	NA	15000 U	760 U	780 U	780 U	790 U	1600 U	NA	3800 U	1500 U	7100 U	3600 U	3600 U	3800 U	2900 U	3000 U	3000 U
BIS(2-CHLOROETHOXY)METHANE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
BIS(2-CHLOROETHYL)ETHER	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
BIS(2-CHLOROISOPROPYL)ETHER	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
BIS(2-ETHYLHEXYL)PHTHALATE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
BUTYL BENZYL PHTHALATE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
CHRYSENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	530 J	790	1800 U	900 U	890 U	950 U	730 U	810	1000
DIBENZO(A,H)ANTHRACENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
DIBENZOFURAN	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
DIETHYL PHTHALATE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
DIMETHYL PHTHALATE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
DI-N-BUTYL PHTHALATE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
DI-N-OCTYL PHTHALATE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
FLUORANTHENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	970	1800	1800 U	910	890 U	950 U	1100	1500	1300
FLUORENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
HEXACHLOROBENZENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
HEXACHLOROBUTADIENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
HEXACHLOROCYCLOPENTADIENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
HEXACHLOROETHANE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS_20041217	TF3-005-TP3-WS-A-NS_20040927	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS-D	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
LOCATION ID	TF3-001-S2-BP	TF3-004-TP3-SS-05	TF3-004-TP3-SS-06	TF3-004-TP3-SS-07	TF3-004-TP3-SS-08	TF3-004-TP3-SS-09	TF3-005-TP3-WS-A-NS	TF3-005-TP3-WS-A-NS	TF3-017-TP1/2-A-BS	TF3-017-TP1/2-A-ES	TF3-017-TP1/2-A-NS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-SS	TF3-017-TP1/2-A-WS	TF3-017-TP1-WS-A-BS	TF3-017-TP1-WS-A-NS	TF3-017-TP1-WS-A-SS
SAMPLE DATE	07/29/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/17/04	09/27/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/20/04	12/16/04	12/16/04	12/16/04
TOP DEPTH																	
BOTTOM DEPTH																	
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	310 J	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
ISOPHORONE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
NAPHTHALENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	380 U	1800 U	900 U	890 U	950 U	730 U	750 U	750 U
NITROBENZENE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
N-NITROSO-DI-N-PROPYLAMINE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
N-NITROSODIPHENYLAMINE	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
PENTACHLOROPHENOL	NA	38000 U	1900 U	1900 U	2000 U	2000 U	4000 U	NA	9400 U	3800 U	18000 U	9000 U	8900 U	9500 U	7300 U	7500 U	7500 U
PHENANTHRENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	940 U	720	1800 U	830 J	890 U	950 U	730 U	500 J	750 U
PHENOL	NA	7600 U	380 U	390 U	390 U	390 U	810 U	NA	1900 U	760 U	3600 U	1800 U	1800 U	1900 U	1500 U	1500 U	1500 U
PYRENE	NA	3800 U	190 U	190 U	200 U	200 U	400 U	NA	900 J	1400	1800 U	1600	890 U	800 J	1100	2100	2300
MISCELLANEOUS PARAMETERS (%)																	
PERCENT SOLIDS	83.1	86.5	85.8	85.2	85	84.2	82.3	83.3	87.4	85.8	92	90.2	92.4	86.8	88.2	88.6	87.8
PETROLEUM HYDROCARBONS (MG/KG)																	
DIESEL RANGE ORGANICS	0.47 U	60	18	1 U	1.1 U	100	1 U	1.1 U	0.94 U	1 U	1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	0.92 U
GASOLINE RANGE ORGANICS	26	5800	78	290	290	3700	70	110	130	79	260	310	220	200	160	290	200
TOTAL PETROLEUM HYDROCARBONS	26	5860	96	290	290	3800	70	110	130	79	260	310	220	200	160	290	200

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS-D	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS_20040927	TF3-029-TP2-NS-A-BS_20041217	TF3-029-TP2-NS-A-WS_20041217	TF3-029-TP2-NS-A-WS_20040927	TF3-029-TP2-WS-A-SS_20040927	TF3-029-TP2-WS-A-SS_20041217
LOCATION ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-WS-A-SS	TF3-029-TP2-WS-A-SS
SAMPLE DATE	12/16/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	12/20/04	12/20/04	12/20/04	12/20/04	09/27/04	12/17/04	12/17/04	09/27/04	09/27/04	12/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/KG)																
1,1,1,2-TETRACHLOROETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,1,1-TRICHLOROETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,1,2,2-TETRACHLOROETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,1,2-TRICHLOROETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,1-DICHLOROETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,1-DICHLOROETHENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,1-DICHLOROPROPENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2,3-TRICHLOROBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2,3-TRICHLOROPROPANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2,4-TRICHLOROBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2,4-TRIMETHYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2-DIBROMO-3-CHLOROPROPANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2-DIBROMOETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2-DICHLOROBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2-DICHLOROETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,2-DICHLOROPROPANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,3,5-TRIMETHYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,3-DICHLOROBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,3-DICHLOROPROPANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
1,4-DICHLOROBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
2,2-DICHLOROPROPANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
2-BUTANONE	21 U	21 U	20 U	19 U	22 U	24 U	23 U	22 U	22 U	23 U	NA	19 U	21 U	NA	NA	20 U
2-CHLOROTOLUENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
2-HEXANONE	21 U	21 U	20 U	19 U	22 U	24 U	23 U	22 U	22 U	23 U	NA	19 U	21 U	NA	NA	20 U
4-CHLOROTOLUENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
4-ISOPROPYLTOLUENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
4-METHYL-2-PENTANONE	21 U	21 U	20 U	19 U	22 U	24 U	23 U	22 U	22 U	23 U	NA	19 U	21 U	NA	NA	20 U
ACETONE	260 U	260 U	250 U	240 U	270 U	300 U	290 U	280 U	280 U	280 U	NA	230 U	270 U	NA	NA	260 U
BENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS-D	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS_20040927	TF3-029-TP2-NS-A-BS_20041217	TF3-029-TP2-NS-A-WS_20041217	TF3-029-TP2-NS-A-WS_20040927	TF3-029-TP2-WS-A-SS_20040927	TF3-029-TP2-WS-A-SS_20041217
LOCATION ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-WS-A-SS	TF3-029-TP2-WS-A-SS
SAMPLE DATE	12/16/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	12/20/04	12/20/04	12/20/04	12/20/04	09/27/04	12/17/04	12/17/04	09/27/04	09/27/04	12/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMOBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
BROMOCHLOROMETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
BROMODICHLOROMETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
BROMOFORM	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
BROMOMETHANE	5.2 U	5.3 U	5 U	4.9 U	5.4 U	6.1 U	5.8 U	5.6 U	5.6 U	5.7 U	NA	4.6 U	5.4 U	NA	NA	5.1 U
CARBON TETRACHLORIDE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
CHLOROBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
CHLORODIBROMOMETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
CHLOROETHANE	5.2 U	5.3 U	5 U	4.9 U	5.4 U	6.1 U	5.8 U	5.6 U	5.6 U	5.7 U	NA	4.6 U	5.4 U	NA	NA	5.1 U
CHLOROFORM	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
CHLOROMETHANE	5.2 U	5.3 U	5 U	4.9 U	5.4 U	6.1 U	5.8 U	5.6 U	5.6 U	5.7 U	NA	4.6 U	5.4 U	NA	NA	5.1 U
CIS-1,2-DICHLOROETHENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
CIS-1,3-DICHLOROPROPENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
DIBROMOMETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
ETHYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
HEXACHLOROBUTADIENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
ISOPROPYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
M+P-XYLENES	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
METHYL TERT-BUTYL ETHER	5.2 U	5.3 U	5 U	4.9 U	5.4 U	6.1 U	5.8 U	5.6 U	5.6 U	5.7 U	NA	4.6 U	5.4 U	NA	NA	5.1 U
METHYLENE CHLORIDE	5.2 U	5.3 U	5 U	4.9 U	5.4 U	6.1 U	5.8 U	5.6 U	5.6 U	5.7 U	NA	4.6 U	5.4 U	NA	NA	5.1 U
NAPHTHALENE	26 U	26 U	25 U	24 U	27 U	30 U	29 U	28 U	28 U	28 U	NA	23 U	27 U	NA	NA	26 U
N-BUTYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
N-PROPYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
O-XYLENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
SEC-BUTYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
STYRENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
TERT-BUTYLBENZENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
TETRACHLOROETHENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
TOLUENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
TRANS-1,2-DICHLOROETHENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
TRANS-1,3-DICHLOROPROPENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS-D	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS_20040927	TF3-029-TP2-NS-A-BS_20041217	TF3-029-TP2-NS-A-WS_20041217	TF3-029-TP2-NS-A-WS_20040927	TF3-029-TP2-WS-A-SS_20040927	TF3-029-TP2-WS-A-SS_20041217
LOCATION ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-WS-A-SS	TF3-029-TP2-WS-A-SS
SAMPLE DATE	12/16/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	12/20/04	12/20/04	12/20/04	12/20/04	09/27/04	12/17/04	12/17/04	09/27/04	09/27/04	12/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TRICHLOROETHENE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
TRICHLOROFLUOROMETHANE	2.6 U	2.6 U	2.5 U	2.4 U	2.7 U	3 U	2.9 U	2.8 U	2.8 U	2.8 U	NA	2.3 U	2.7 U	NA	NA	2.6 U
VINYL CHLORIDE	5.2 U	5.3 U	5 U	4.9 U	5.4 U	6.1 U	5.8 U	5.6 U	5.6 U	5.7 U	NA	4.6 U	5.4 U	NA	NA	5.1 U
SEMIVOLATILES (UG/KG)																
1,2,4-TRICHLOROBENZENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
1,2-DICHLOROBENZENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
1,2-DIPHENYLHYDRAZINE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
1,3-DICHLOROBENZENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
1,4-DICHLOROBENZENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,4,5-TRICHLOROPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,4,6-TRICHLOROPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,4-DICHLOROPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,4-DIMETHYLPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,4-DINITROPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,4-DINITROTOLUENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2,6-DINITROTOLUENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2-CHLORONAPHTHALENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2-CHLOROPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2-METHYLNAPHTHALENE	750 U	800 U	750 U	380 U	750 U	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
2-METHYLPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
2-NITROANILINE	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
2-NITROPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
3&4-METHYLPHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
3,3'-DICHLOROBENZIDINE	3000 U	3200 U	3000 U	1500 U	3000 U	3000 U	770 U	1600 U	1700 U	1600 U	NA	1500 U	1600 U	NA	NA	1600 U
3-NITROANILINE	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
4,6-DINITRO-2-METHYLPHENOL	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
4-BROMOPHENYL PHENYL ETHER	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
4-CHLORO-3-METHYLPHENOL	3000 U	3200 U	3000 U	1500 U	3000 U	3000 U	770 U	1600 U	1700 U	1600 U	NA	1500 U	1600 U	NA	NA	1600 U
4-CHLOROANILINE	3000 U	3200 U	3000 U	1500 U	3000 U	3000 U	770 U	1600 U	1700 U	1600 U	NA	1500 U	1600 U	NA	NA	1600 U
4-CHLOROPHENYL PHENYL ETHER	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS-D	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS_20040927	TF3-029-TP2-NS-A-BS_20041217	TF3-029-TP2-NS-A-WS_20041217	TF3-029-TP2-NS-A-WS_20040927	TF3-029-TP2-WS-A-SS_20040927	TF3-029-TP2-WS-A-SS_20041217
LOCATION ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-WS-A-SS	TF3-029-TP2-WS-A-SS
SAMPLE DATE	12/16/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	12/20/04	12/20/04	12/20/04	12/20/04	09/27/04	12/17/04	12/17/04	09/27/04	09/27/04	12/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-NITROANILINE	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
4-NITROPHENOL	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
ACENAPHTHENE	750 U	800 U	570 J	200 J	750 U	380 J	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
ACENAPHTHYLENE	750 U	800 U	750 U	380 U	420 J	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
ANILINE	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
ANTHRACENE	750 U	800 U	1200	400	1200	1300	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(A)ANTHRACENE	750 U	430 J	4800	1500	8300	4500	190 U	400 U	250 J	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(A)PYRENE	750 U	800 U	750 U	1500	6900	3500	190 U	400 U	280 J	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(B)FLUORANTHENE	750 U	800 U	750 U	1400	5700	2600	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(G,H,I)PERYLENE	750 U	800 U	750 U	960	750 U	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZO(K)FLUORANTHENE	750 U	800 U	750 U	1100	5200	3900	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
BENZOIC ACID	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
BENZYL ALCOHOL	3000 U	3200 U	3000 U	1500 U	3000 U	3000 U	770 U	1600 U	1700 U	1600 U	NA	1500 U	1600 U	NA	NA	1600 U
BIS(2-CHLOROETHOXY)METHANE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
BIS(2-CHLOROETHYL)ETHER	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
BIS(2-CHLOROISOPROPYL)ETHER	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
BIS(2-ETHYLHEXYL)PHTHALATE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
BUTYL BENZYL PHTHALATE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
CHRYSENE	750 U	800 J	8200	1800	12000	6100	190 U	400 U	320 J	400 U	NA	380 U	400 U	NA	NA	390 U
DIBENZO(A,H)ANTHRACENE	750 U	800 U	750 U	380 U	750 U	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
DIBENZOFURAN	1500 U	1600 U	1100 J	750 U	990 J	1000 J	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
DIETHYL PHTHALATE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
DIMETHYL PHTHALATE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
DI-N-BUTYL PHTHALATE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
DI-N-OCTYL PHTHALATE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
FLUORANTHENE	1200	1500	8900	2500	11000	6400	190 U	220 J	460	400 U	NA	380 U	400 U	NA	NA	390 U
FLUORENE	750 U	800 U	1500	220 J	1300	1300	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
HEXACHLOROBENZENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
HEXACHLOROBUTADIENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
HEXACHLOROCYCLOPENTADIENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
HEXACHLOROETHANE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

SAMPLE ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS-D	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS_20040927	TF3-029-TP2-NS-A-BS_20041217	TF3-029-TP2-NS-A-WS_20041217	TF3-029-TP2-NS-A-WS_20040927	TF3-029-TP2-WS-A-SS_20040927	TF3-029-TP2-WS-A-SS_20041217
LOCATION ID	TF3-017-TP1-WS-A-WS	TF3-017-TP2-ES-A-BS	TF3-017-TP2-ES-A-ES	TF3-017-TP2-ES-A-NS	TF3-017-TP2-ES-A-SS	TF3-017-TP2-ES-A-SS	TF3-023-TP3-ES-A-BS	TF3-023-TP3-ES-A-ES	TF3-023-TP3-ES-A-NS	TF3-023-TP3-ES-A-SS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-BS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-NS-A-WS	TF3-029-TP2-WS-A-SS	TF3-029-TP2-WS-A-SS
SAMPLE DATE	12/16/04	12/17/04	12/17/04	12/17/04	12/17/04	12/17/04	12/20/04	12/20/04	12/20/04	12/20/04	09/27/04	12/17/04	12/17/04	09/27/04	09/27/04	12/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORIG	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
INDENO(1,2,3-CD)PYRENE	750 U	800 U	750 U	860	750 U	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
ISOPHORONE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
NAPHTHALENE	750 U	800 U	750 U	380 U	750 U	740 U	190 U	400 U	420 U	400 U	NA	380 U	400 U	NA	NA	390 U
NITROBENZENE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
N-NITROSO-DI-N-PROPYLAMINE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
N-NITROSODIPHENYLAMINE	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
PENTACHLOROPHENOL	7500 U	8000 U	7500 U	3800 U	7500 U	7400 U	1900 U	4000 U	4200 U	4000 U	NA	3800 U	4000 U	NA	NA	3900 U
PHENANTHRENE	750 U	800 U	7800	2500	6300	5500	190 U	350 J	480	400 U	NA	380 U	400 U	NA	NA	390 U
PHENOL	1500 U	1600 U	1500 U	750 U	1500 U	1500 U	390 U	790 U	830 U	790 U	NA	760 U	790 U	NA	NA	790 U
PYRENE	1900	1500	11000	3500	11000	4900	190 U	310 J	510	400 U	NA	380 U	400 U	NA	NA	390 U
MISCELLANEOUS PARAMETERS (%)																
PERCENT SOLIDS	88.6	82.9	87.3	85.5	87.8	88.7	86.1	82.9	79.1	82.2	92.1	84.6	84.1	95.3	86.9	82.7
PETROLEUM HYDROCARBONS (MG/KG)																
DIESEL RANGE ORGANICS	1 U	1.1 U	0.99 U	0.97 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.3 U	8.3	6.4	1.2 U	1.3 U	1 U
GASOLINE RANGE ORGANICS	110	300	140	180	380	270	98	63	68	77	650	780	260	300	590	82
TOTAL PETROLEUM HYDROCARBONS	110	300	140	180	380	270	98	63	68	77	650	788.3	266.4	300	590	82

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704
LOCATION ID	GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303
SAMPLE DATE	04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/L)																
1,1,1,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROPROPENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROPROPANE	1 U	3 U	3 U	3 U	0.83 U	3 U	3 U	1 U	3 U	NA	3 U	1 U	3 U	1 U	3 U	3 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	5 U	5 U	5 U	0.83 U	5 U	5 U	1 U	5 U	NA	5 U	1 U	5 U	1 U	5 U	5 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRICHLOROBENZENE	1 U	NA	NA	NA	0.83 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
2,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	10 U	10 U	10 U	10 U	0.83 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
2-CHLOROTOLUENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
2-HEXANONE	10 U	10 U	10 U	10 U	0.83 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
4-CHLOROTOLUENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
4-ISOPROPYLTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	0.83 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	50 U	50 U	50 U	0.83 U	50 U	50 U	10 U	50 U	NA	50 U	10 U	50 U	10 U	50 U	50 U
BENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
BROMOBENZENE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704
LOCATION ID	GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303
SAMPLE DATE	04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	0.83 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	2 U	2 U	2 U	0.83 U	2 U	2 U	1 U	2 U	NA	2 U	1 U	2 U	1 U	2 U	2 U
CARBON DISULFIDE	1 U	NA	NA	NA	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	2 U	2 U	2 U	1 U	2 U	2 U	1 U	2 U	NA	2 U	1 U	2 U	1 U	2 U	2 U
CHLOROFORM	1 U	1 U	1 U	1 U	0.60 J	0.74 J	0.79 J	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	2 U	2 U	2 U	1 U	2 U	2 U	1 U	2 U	NA	2 U	1 U	2 U	1 U	2 U	2 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U	1 U	0.50 U	NA	0.50 U	1 U	0.50 U	1 U	0.50 U	0.50 U
DIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	NA	NA	NA	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
DIETHYL ETHER	1 U	NA	NA	NA	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
DIISOPROPYL ETHER	1 U	NA	NA	NA	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
ETHYL TERT-BUTYL ETHER	1 U	NA	NA	NA	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
HEXACHLOROBUTADIENE	1 U	0.60 U	0.60 U	0.60 U	1 U	0.60 U	0.60 U	1 U	0.60 U	NA	0.60 U	1 U	0.60 U	1 U	0.60 U	0.60 U
ISOPROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	0.55 J
M+P-XYLENES	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5 U	2 U	2 U	2 U	5 U	2 U	2 U	5 U	2 U	NA	2 U	5 U	2 U	5 U	2 U	2 U
NAPHTHALENE	1 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	5 U	NA	5 U	1 U	5 U	1 U	5 U	5 U
N-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
N-PROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
SEC-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	0.77 J	1.7
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
TERT-AMYL METHYL ETHER	1 U	NA	NA	NA	1 U	NA	NA	1 U	NA	NA	NA	1 U	NA	1 U	NA	NA
TERT-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
TERTIARY-BUTYL ALCOHOL	20 U	NA	NA	NA	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	20 U	NA	NA
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704
LOCATION ID	GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303
SAMPLE DATE	04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TETRAHYDROFURAN	2 U	NA	NA	NA	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	2 U	NA	NA
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U	1 U	0.50 U	NA	0.50 U	1 U	0.50 U	1 U	0.50 U	0.50 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (UG/L)																
1,2,4-TRICHLOROBENZENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
1,2-DICHLOROBENZENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
1,2-DIPHENYLHYDRAZINE	NA	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	NA	5 U	NA	NA	NA	10 U	10 U
1,3-DICHLOROBENZENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
1,4-DICHLOROBENZENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
2,3,4,6-TETRACHLOROPHENOL	5 U	NA	NA	NA	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	5 U	NA	NA
2,4,5-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2,4-DINITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2,4-DINITROTOLUENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
2,6-DICHLOROPHENOL	5 U	NA	NA	NA	5 U	NA	NA	5 U	NA	NA	NA	5 U	NA	5 U	NA	NA
2,6-DINITROTOLUENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
2-CHLORONAPHTHALENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2-METHYLNAPHTHALENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
2-NITROANILINE	2 U	25 U	25 U	25 U	2 U	25 U	25 U	2 U	25 U	NA	25 U	2 U	NA	2 U	50 U	50 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
3&4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
3,3'-DICHLOROBENZIDINE	20 U	10 U	10 U	10 U	20 U	10 U	10 U	20 U	10 U	NA	10 U	20 U	NA	20 U	20 U	20 U
3-NITROANILINE	2 U	25 U	25 U	25 U	2 U	25 U	25 U	2 U	25 U	NA	25 U	2 U	NA	2 U	50 U	50 U
4,6-DINITRO-2-METHYLPHENOL	5 U	25 U	25 U	25 U	5 U	25 U	25 U	5 U	25 U	NA	25 U	5 U	NA	5 U	50 U	50 U
4-BROMOPHENYL PHENYL ETHER	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704
LOCATION ID	GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303
SAMPLE DATE	04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLORO-3-METHYLPHENOL	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	NA	10 U	20 U	20 U
4-CHLOROANILINE	2 U	10 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	NA	10 U	2 U	NA	2 U	20 U	20 U
4-CHLOROPHENYL PHENYL ETHER	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
4-NITROANILINE	2 U	25 U	25 U	25 U	2 U	25 U	25 U	2 U	25 U	NA	25 U	2 U	NA	2 U	50 U	50 U
4-NITROPHENOL	5 U	25 U	25 U	25 U	5 U	25 U	25 U	5 U	25 U	NA	25 U	5 U	NA	5 U	50 U	50 U
ACENAPHTHENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
ACENAPHTHYLENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
ANILINE	2 U	25 U	25 U	25 U	2 U	25 U	25 U	2 U	25 U	NA	25 U	2 U	NA	2 U	50 U	50 U
ANTHRACENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
AZOBENZENE	2 U	NA	NA	NA	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	2 U	NA	NA
BENZIDINE	20 U	NA	NA	NA	20 U	NA	NA	20 U	NA	NA	NA	20 U	NA	20 U	NA	NA
BENZO(A)ANTHRACENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
BENZO(A)PYRENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	0.10 U	NA	2 U	5 U	5 U
BENZO(B)FLUORANTHENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
BENZO(G,H,I)PERYLENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
BENZO(K)FLUORANTHENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
BENZOIC ACID	10 U	25 U	25 U	25 U	10 U	25 U	25 U	10 U	25 U	NA	25 U	10 U	NA	10 U	50 U	50 U
BENZYL ALCOHOL	5 U	10 U	10 U	10 U	5 U	10 U	10 U	5 U	10 U	NA	10 U	5 U	NA	5 U	20 U	20 U
BIS(2-CHLOROETHOXY)METHANE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
BUTYL BENZYL PHTHALATE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
CARBAZOLE	2 U	NA	NA	NA	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	2 U	NA	NA
CHRYSENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
DIBENZOFURAN	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
DIETHYL PHTHALATE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
DIMETHYL PHTHALATE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
DI-N-BUTYL PHTHALATE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
DI-N-OCTYL PHTHALATE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
FLUORANTHENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
FLUORENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704
LOCATION ID	GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303
SAMPLE DATE	04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
HEXACHLOROBUTADIENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
HEXACHLOROETHANE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
ISOPHORONE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
NAPHTHALENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
NITROBENZENE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
N-NITROSODIMETHYLAMINE	2 U	NA	NA	NA	2 U	NA	NA	2 U	NA	NA	NA	2 U	NA	2 U	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
N-NITROSODIPHENYLAMINE	2 U	5 U	5 U	5 U	2 U	5 U	5 U	2 U	5 U	NA	5 U	2 U	NA	2 U	10 U	10 U
PENTACHLOROPHENOL	10 U	25 U	25 U	25 U	10 U	25 U	25 U	10 U	25 U	NA	25 U	10 U	NA	10 U	50 U	50 U
PHENANTHRENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	NA	5 U	10 U	10 U
PYRENE	2 U	2.5 U	2.5 U	2.5 U	2 U	2.5 U	2.5 U	2 U	2.5 U	NA	2.5 U	2 U	NA	2 U	5 U	5 U
METALS (UG/L)																
LEAD	0.83 U	NA	NA	NA	0.83 U	NA	NA	0.83 U	NA	0.83 U	NA	NA	NA	0.83 U	NA	NA
DISSOLVED METALS (UG/L)																
LEAD	0.83 U	NA	NA	NA	0.83 U	NA	NA	0.83 U	NA	0.83 U	NA	NA	NA	0.83 U	NA	NA
GC VOLATILES (UG/L)																
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/L)																
DIESEL RANGE ORGANICS	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	0.272	1.3	NA	0.25	0.23
FUEL OIL NO. 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FUEL OIL NO. 6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GASOLINE RANGE ORGANICS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA
KEROSENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MINERAL SPIRITS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MOTOR OIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HYDROCARBONS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GT-301-043009	GT-301-051304	GT-302-051304	GT-302-051304-D	GT-303-043009	GT-303-051304	GT-304-051404	GT-305-043009	GT-305-051404	GT-307-050409	GT-307-051304	GZ-301-050509	GZ-301-052004	GZ-302-050109	GZ-302-051704	GZ-303-051704
LOCATION ID	GT-301	GT-301	GT-302	GT-302	GT-303	GT-303	GT-304	GT-305	GT-305	GT-307	GT-307	GZ-301	GZ-301	GZ-302	GZ-302	GZ-303
SAMPLE DATE	04/30/09	05/13/04	05/13/04	05/13/04	04/30/09	05/13/04	05/14/04	04/30/09	05/14/04	05/04/09	05/13/04	05/05/09	05/20/04	05/01/09	05/17/04	05/17/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TOTAL PETROLEUM HYDROCARBONS	NA	0.00 U	0.00 U	0.00 U	NA	0.00 U	0.00 U	NA	0.00 U	NA	0.00 U	0.272	1.3	NA	0.25	0.23
TPH (C14-C28)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UNKNOWN HYDROCARBON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604
LOCATION ID	GZ-304	GZ-305	GZ-305	GZ-306	GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315
SAMPLE DATE	05/25/04	05/01/09	05/25/04	05/01/09	05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/L)																
1,1,1,2-TETRACHLOROETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-TRICHLOROETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROPROPENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROPROPANE	300 U	1 U	3 U	1 U	3 U	1 U	3 U	3 U	150 U	1 U	3 U	3 U	1 U	1 U	3 U	3 U
1,2,4-TRICHLOROBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	140	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	500 U	1 U	5 U	1 U	5 U	1 U	5 U	5 U	250 U	1 U	5 U	5 U	1 U	1 U	5 U	5 U
1,2-DIBROMOETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRICHLOROBENZENE	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
1,3,5-TRIMETHYLBENZENE	84 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-DICHLOROPROPANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-CHLOROTOLUENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-HEXANONE	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-CHLOROTOLUENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-ISOPROPYLTOLUENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-METHYL-2-PENTANONE	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	5000 U	10 U	50 U	10 U	50 U	10 U	50 U	50 U	2500 U	10 U	50 U	50 U	10 U	10 U	50 U	50 U
BENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604
LOCATION ID	GZ-304	GZ-305	GZ-305	GZ-306	GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315
SAMPLE DATE	05/25/04	05/01/09	05/25/04	05/01/09	05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMODICHLOROMETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	200 U	1 U	2 U	1 U	2 U	1 U	2 U	2 U	100 U	1 U	2 U	2 U	1 U	1 U	2 U	2 U
CARBON DISULFIDE	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
CARBON TETRACHLORIDE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	200 U	1 U	2 U	1 U	2 U	1 U	2 U	2 U	100 U	1 U	2 U	2 U	1 U	1 U	2 U	2 U
CHLOROFORM	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	0.60 J	1 U	1 U	1 U
CHLOROMETHANE	200 U	1 U	2 U	1 U	2 U	1 U	2 U	2 U	100 U	1 U	2 U	2 U	1 U	1 U	2 U	2 U
CIS-1,2-DICHLOROETHENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	50 U	1 U	0.50 U	1 U	0.50 U	1 U	0.50 U	0.50 U	25 U	1 U	0.50 U	0.50 U	1 U	1 U	0.50 U	0.50 U
DIBROMOMETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
DIETHYL ETHER	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
DIISOPROPYL ETHER	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
ETHYL TERT-BUTYL ETHER	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
ETHYLBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
HEXACHLOROBUTADIENE	60 U	1 U	0.60 U	1 U	0.60 U	1 U	0.60 U	0.60 U	30 U	1 U	0.60 U	0.60 U	1 U	1 U	0.60 U	0.60 U
ISOPROPYLBENZENE	100 U	1.8	1.2	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL TERT-BUTYL ETHER	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	200 U	5 U	2 U	5 U	2 U	5 U	2 U	2 U	100 U	5 U	2 U	2 U	5 U	5 U	2 U	2 U
NAPHTHALENE	500 U	1 U	5 U	1 U	5 U	1 U	5 U	5 U	250 U	1 U	5 U	5 U	1 U	1 U	5 U	5 U
N-BUTYLBENZENE	79 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-PROPYLBENZENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEC-BUTYLBENZENE	57 J	2.9	2.4	1	2.5	1 U	1 U	1 U	68	1.7	1.7	1 U	1 U	1 U	1 U	3.8
STYRENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TERT-AMYL METHYL ETHER	NA	1 U	NA	1 U	NA	1 U	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA
TERT-BUTYLBENZENE	100 U	1 U	1 U	1 U	0.51 J	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TERTIARY-BUTYL ALCOHOL	NA	20 U	NA	20 U	NA	20 U	NA	NA	NA	20 U	NA	NA	20 U	20 U	NA	NA
TETRACHLOROETHENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604
LOCATION ID	GZ-304	GZ-305	GZ-305	GZ-306	GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315
SAMPLE DATE	05/25/04	05/01/09	05/25/04	05/01/09	05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TETRAHYDROFURAN	NA	2 U	NA	2 U	NA	2 U	NA	NA	NA	2 U	NA	NA	2 U	2 U	NA	NA
TOLUENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	50 U	1 U	0.50 U	1 U	0.50 U	1 U	0.50 U	0.50 U	25 U	1 U	0.50 U	0.50 U	1 U	1 U	0.50 U	0.50 U
TRICHLOROETHENE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROFLUOROMETHANE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (UG/L)																
1,2,4-TRICHLOROBENZENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
1,2-DICHLOROBENZENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
1,2-DIPHENYLHYDRAZINE	5 U	NA	5 U	NA	10 U	NA	10 U	5 U	10 U	NA	5 U	5 U	NA	NA	5 U	10 U
1,3-DICHLOROBENZENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
1,4-DICHLOROBENZENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
2,3,4,6-TETRACHLOROPHENOL	NA	5 U	NA	5 U	NA	5 U	NA	NA	NA	5 U	NA	NA	5 U	5 U	NA	NA
2,4,5-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2,4-DINITROPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2,4-DINITROTOLUENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
2,6-DICHLOROPHENOL	NA	5 U	NA	5 U	NA	5 U	NA	NA	NA	5 U	NA	NA	5 U	5 U	NA	NA
2,6-DINITROTOLUENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
2-CHLORONAPHTHALENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2-METHYLNAPHTHALENE	93	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
2-NITROANILINE	25 U	2 U	25 U	2 U	50 U	2 U	50 U	25 U	50 U	2 U	25 U	25 U	2 U	2 U	25 U	50 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
3&4-METHYLPHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
3,3'-DICHLOROBENZIDINE	10 U	20 U	10 U	20 U	20 U	20 U	20 U	10 U	20 U	20 U	10 U	10 U	20 U	20 U	10 U	20 U
3-NITROANILINE	25 U	2 U	25 U	2 U	50 U	2 U	50 U	25 U	50 U	2 U	25 U	25 U	2 U	2 U	25 U	50 U
4,6-DINITRO-2-METHYLPHENOL	25 U	5 U	25 U	5 U	50 U	5 U	50 U	25 U	50 U	5 U	25 U	25 U	5 U	5 U	25 U	50 U
4-BROMOPHENYL PHENYL ETHER	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604
LOCATION ID	GZ-304	GZ-305	GZ-305	GZ-306	GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315
SAMPLE DATE	05/25/04	05/01/09	05/25/04	05/01/09	05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLORO-3-METHYLPHENOL	10 U	10 U	10 U	10 U	20 U	10 U	20 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U
4-CHLOROANILINE	10 U	2 U	10 U	2 U	20 U	2 U	20 U	10 U	20 U	2 U	10 U	10 U	2 U	2 U	10 U	20 U
4-CHLOROPHENYL PHENYL ETHER	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
4-NITROANILINE	25 U	2 U	25 U	2 U	50 U	2 U	50 U	25 U	50 U	2 U	25 U	25 U	2 U	2 U	25 U	50 U
4-NITROPHENOL	25 U	5 U	25 U	5 U	50 U	5 U	50 U	25 U	50 U	5 U	25 U	25 U	5 U	5 U	25 U	50 U
ACENAPHTHENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
ACENAPHTHYLENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
ANILINE	25 U	2 U	25 U	2 U	50 U	2 U	50 U	25 U	50 U	2 U	25 U	25 U	2 U	2 U	25 U	50 U
ANTHRACENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
AZOBENZENE	NA	2 U	NA	2 U	NA	2 U	NA	NA	NA	2 U	NA	NA	2 U	2 U	NA	NA
BENZIDINE	NA	20 U	NA	20 U	NA	20 U	NA	NA	NA	20 U	NA	NA	20 U	20 U	NA	NA
BENZO(A)ANTHRACENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
BENZO(A)PYRENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	0.10 U	2 U	2.5 U	5 U
BENZO(B)FLUORANTHENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
BENZO(G,H,I)PERYLENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
BENZO(K)FLUORANTHENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
BENZOIC ACID	25 U	10 U	25 U	10 U	50 U	10 U	50 U	25 U	50 U	10 U	25 U	25 U	10 U	10 U	25 U	50 U
BENZYL ALCOHOL	10 U	5 U	10 U	5 U	20 U	5 U	20 U	10 U	20 U	5 U	10 U	10 U	5 U	5 U	10 U	20 U
BIS(2-CHLOROETHOXY)METHANE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
BIS(2-CHLOROETHYL)ETHER	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	4 B	5 U	2 U	10 U	2 U	10 U	5 U	26	2 U	5 U	5 U	2 U	2 U	5 U	10 U
BUTYL BENZYL PHTHALATE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
CARBAZOLE	NA	2 U	NA	2 U	NA	2 U	NA	NA	NA	2 U	NA	NA	2 U	2 U	NA	NA
CHRYSENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
DIBENZO(A,H)ANTHRACENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
DIBENZOFURAN	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
DIETHYL PHTHALATE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
DIMETHYL PHTHALATE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
DI-N-BUTYL PHTHALATE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
DI-N-OCTYL PHTHALATE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
FLUORANTHENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
FLUORENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604
LOCATION ID	GZ-304	GZ-305	GZ-305	GZ-306	GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315
SAMPLE DATE	05/25/04	05/01/09	05/25/04	05/01/09	05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
HEXACHLOROBUTADIENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
HEXACHLOROCYCLOPENTADIENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
HEXACHLOROETHANE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
INDENO(1,2,3-CD)PYRENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
ISOPHORONE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
NAPHTHALENE	63	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
NITROBENZENE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
N-NITROSODIMETHYLAMINE	NA	2 U	NA	2 U	NA	2 U	NA	NA	NA	2 U	NA	NA	2 U	2 U	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
N-NITROSODIPHENYLAMINE	5 U	2 U	5 U	2 U	10 U	2 U	10 U	5 U	10 U	2 U	5 U	5 U	2 U	2 U	5 U	10 U
PENTACHLOROPHENOL	25 U	10 U	25 U	10 U	50 U	10 U	50 U	25 U	50 U	10 U	25 U	25 U	10 U	10 U	25 U	50 U
PHENANTHRENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	10 U	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
PYRENE	2.5 U	2 U	2.5 U	2 U	5 U	2 U	5 U	2.5 U	5 U	2 U	2.5 U	2.5 U	2 U	2 U	2.5 U	5 U
METALS (UG/L)																
LEAD	NA	0.83 U	NA	0.83 U	NA	NA	NA	NA	NA	0.83 U	NA	NA	0.83 U	0.83 U	NA	NA
DISSOLVED METALS (UG/L)																
LEAD	NA	0.83 U	NA	0.83 U	NA	NA	NA	NA	NA	0.83 U	NA	NA	1.4 B	0.83 U	NA	NA
GC VOLATILES (UG/L)																
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/L)																
DIESEL RANGE ORGANICS	77	NA	0.14	NA	0.43	NA	0.10 U	0.10 U	140	NA	0.22	0.22	0.147	NA	0.10 U	0.36
FUEL OIL NO. 2	1 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA
FUEL OIL NO. 6	1 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA
GASOLINE RANGE ORGANICS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA
KEROSENE	77	NA	NA	NA	NA	NA	NA	NA	140	NA	NA	NA	NA	NA	NA	NA
MINERAL SPIRITS	1 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA
MOTOR OIL	1 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA
TOTAL HYDROCARBONS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-304-052504	GZ-305-050109	GZ-305-052504	GZ-306-050109	GZ-306-051704	GZ-307-050409	GZ-307-051704	GZ-308-051404	GZ-310-052604	GZ-311-050409	GZ-311-051404	GZ-312-051404	GZ-313-050509	GZ-314-050409	GZ-314-051404	GZ-315-052604
LOCATION ID	GZ-304	GZ-305	GZ-305	GZ-306	GZ-306	GZ-307	GZ-307	GZ-308	GZ-310	GZ-311	GZ-311	GZ-312	GZ-313	GZ-314	GZ-314	GZ-315
SAMPLE DATE	05/25/04	05/01/09	05/25/04	05/01/09	05/17/04	05/04/09	05/17/04	05/14/04	05/26/04	05/04/09	05/14/04	05/14/04	05/05/09	05/04/09	05/14/04	05/26/04
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TOTAL PETROLEUM HYDROCARBONS	77	NA	0.14	NA	0.43	NA	0.00 U	0.00 U	140	NA	0.22	0.22	0.147	NA	0.00 U	0.36
TPH (C14-C28)	1 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA
UNKNOWN HYDROCARBON	1 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004 D	GZ-318-050609	GZ-318-052004	GZ-318-050609 D	GZ-318-050609 AVG	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609
LOCATION ID	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318	GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323
SAMPLE DATE	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09	05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	FD	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/L)																
1,1,1,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-TRICHLOROPROPANE	1 U	3 U	3 U	1 U	3 U	1 U	300 U	1 U	1 U	1 U	3 U	1 U	3 U	3 U	3 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1.4	100 U	1.6	1.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	5 U	5 U	1 U	5 U	1 U	500 U	1 U	1 U	1 U	5 U	1 U	5 U	5 U	5 U	1 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRICHLOROBENZENE	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-ISOPROPYLTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	3.4	1.95	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	50 U	50 U	10 U	50 U	10 U	5000 U	10 U	10 U	10 U	50 U	10 U	50 U	50 U	50 U	10 U
BENZENE	1 U	1 U	1.2	1 U	1	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004 D	GZ-318-050609	GZ-318-052004	GZ-318-050609 D	GZ-318-050609 AVG	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609
LOCATION ID	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318	GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323
SAMPLE DATE	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09	05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	FD	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	2 U	2 U	1 U	2 U	1 U	200 U	1 U	1 U	1 U	2 U	1 U	2 U	2 U	2 U	1 U
CARBON DISULFIDE	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLORODIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	2 U	2 U	1 U	2 U	1 U	200 U	1 U	1 U	1 U	2 U	1 U	2 U	2 U	2 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	2 U	2 U	1 U	2 U	1 U	200 U	1 U	1 U	1 U	2 U	1 U	2 U	2 U	2 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	0.50 U	0.50 U	1 U	0.50 U	1 U	50 U	1 U	1 U	1 U	0.50 U	1 U	0.50 U	0.50 U	0.50 U	1 U
DIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
DIETHYL ETHER	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
DIISOPROPYL ETHER	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
ETHYL TERT-BUTYL ETHER	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
HEXACHLOROBUTADIENE	1 U	0.60 U	0.60 U	1 U	0.60 U	1 U	60 U	1 U	1 U	1 U	0.60 U	1 U	0.60 U	0.60 U	0.60 U	1 U
ISOPROPYLBENZENE	1 U	1 U	0.65 J	1 U	0.58 J	1.8	100 U	1.9	1.85	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	5 U	2 U	2 U	5 U	2 U	5 U	200 U	5 U	5 U	5 U	2 U	5 U	2 U	2 U	2 U	5 U
NAPHTHALENE	1 U	5 U	5 U	1 U	5 U	1.5	500 U	1.5	1.5	1 U	5 U	1 U	5 U	5 U	5 U	1 U
N-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-PROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	2	100 U	2.2	2.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEC-BUTYLBENZENE	1 U	1 U	3.4	1 U	3.2	3.7	100 U	3.9	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1.5
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TERT-AMYL METHYL ETHER	1 U	NA	NA	1 U	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	NA	NA	1 U
TERT-BUTYLBENZENE	1 U	1 U	1 U	1 U	1 U	1	100 U	1.1	1.05	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TERTIARY-BUTYL ALCOHOL	20 U	NA	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	NA	NA	NA	20 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004 D	GZ-318-050609	GZ-318-052004	GZ-318-050609 D	GZ-318-050609 AVG	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609
LOCATION ID	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318	GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323
SAMPLE DATE	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09	05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	FD	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM
TETRAHYDROFURAN	2 U	NA	NA	2 U	NA	2 U	NA	2 U	2 U	2 U	NA	2 U	NA	NA	NA	2 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	0.50 U	0.50 U	1 U	0.50 U	1 U	50 U	1 U	1 U	1 U	0.50 U	1 U	0.50 U	0.50 U	0.50 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	100 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (UG/L)																
1,2,4-TRICHLOROBENZENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
1,2-DICHLOROBENZENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
1,2-DIPHENYLHYDRAZINE	NA	10 U	10 U	NA	10 U	NA	50 U	NA	NA	NA	5 U	NA	10 U	10 U	10 U	NA
1,3-DICHLOROBENZENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
1,4-DICHLOROBENZENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
2,3,4,6-TETRACHLOROPHENOL	5 U	NA	NA	5 U	NA	5 U	NA	5 U	5 U	5 U	NA	5 U	NA	NA	NA	5 U
2,4,5-TRICHLOROPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2,4,6-TRICHLOROPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2,4-DICHLOROPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2,4-DIMETHYLPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2,4-DINITROPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2,4-DINITROTOLUENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
2,6-DICHLOROPHENOL	5 U	NA	NA	5 U	NA	5 U	NA	5 U	5 U	5 U	NA	5 U	NA	NA	NA	5 U
2,6-DINITROTOLUENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
2-CHLORONAPHTHALENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
2-CHLOROPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2-METHYLNAPHTHALENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
2-METHYLPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
2-NITROANILINE	2 U	50 U	50 U	2 U	50 U	2 U	250 U	2 U	2 U	2 U	25 U	2 U	50 U	50 U	50 U	2 U
2-NITROPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
3&4-METHYLPHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
3,3'-DICHLOROBENZIDINE	20 U	20 U	20 U	20 U	20 U	20 U	100 U	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	20 U
3-NITROANILINE	2 U	50 U	50 U	2 U	50 U	2 U	250 U	2 U	2 U	2 U	25 U	2 U	50 U	50 U	50 U	2 U
4,6-DINITRO-2-METHYLPHENOL	5 U	50 U	50 U	5 U	50 U	5 U	250 U	5 U	5 U	5 U	25 U	5 U	50 U	50 U	50 U	5 U
4-BROMOPHENYL PHENYL ETHER	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004 D	GZ-318-050609	GZ-318-052004	GZ-318-050609 D	GZ-318-050609 AVG	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609
LOCATION ID	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318	GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323
SAMPLE DATE	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09	05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	FD	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLORO-3-METHYLPHENOL	10 U	20 U	20 U	10 U	20 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	20 U	20 U	20 U	10 U
4-CHLOROANILINE	2 U	20 U	20 U	2 U	20 U	2 U	100 U	2 U	2 U	2 U	10 U	2 U	20 U	20 U	20 U	2 U
4-CHLOROPHENYL PHENYL ETHER	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
4-NITROANILINE	2 U	50 U	50 U	2 U	50 U	2 U	250 U	2 U	2 U	2 U	25 U	2 U	50 U	50 U	50 U	2 U
4-NITROPHENOL	5 U	50 U	50 U	5 U	50 U	5 U	250 U	5 U	5 U	5 U	25 U	5 U	50 U	50 U	50 U	5 U
ACENAPHTHENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
ACENAPHTHYLENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
ANILINE	2 U	50 U	50 U	2 U	50 U	2 U	250 U	2 U	2 U	2 U	25 U	2 U	50 U	50 U	50 U	2 U
ANTHRACENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
AZOBENZENE	2 U	NA	NA	2 U	NA	2 U	NA	2 U	2 U	2 U	NA	2 U	NA	NA	NA	2 U
BENZIDINE	20 U	NA	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	NA	NA	NA	20 U
BENZO(A)ANTHRACENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
BENZO(A)PYRENE	2 U	5 U	5 U	2 U	5 U	0.10 U	25 U	0.10 U	0.10 U	0.10 U	2.5 U	2 U	5 U	5 U	5 U	0.10 U
BENZO(B)FLUORANTHENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
BENZO(G,H,I)PERYLENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
BENZO(K)FLUORANTHENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
BENZOIC ACID	10 U	50 U	50 U	10 U	50 U	10 U	250 U	10 U	10 U	10 U	25 U	10 U	50 U	50 U	50 U	10 U
BENZYL ALCOHOL	5 U	20 U	20 U	5 U	20 U	5 U	100 U	5 U	5 U	5 U	10 U	5 U	20 U	20 U	20 U	5 U
BIS(2-CHLOROETHOXY)METHANE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
BIS(2-CHLOROETHYL)ETHER	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
BIS(2-CHLOROISOPROPYL)ETHER	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
BIS(2-ETHYLHEXYL)PHTHALATE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2	1.5	2 U	5 U	3 B	9.6 J	10 U	10 U	2 U
BUTYL BENZYL PHTHALATE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
CARBAZOLE	2 U	NA	NA	2 U	NA	2 U	NA	2 U	2 U	2 U	NA	2 U	NA	NA	NA	2 U
CHRYSENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
DIBENZO(A,H)ANTHRACENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
DIBENZOFURAN	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
DIETHYL PHTHALATE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
DIMETHYL PHTHALATE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
DI-N-BUTYL PHTHALATE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
DI-N-OCTYL PHTHALATE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
FLUORANTHENE	2 U	5 U	5 U	2 U	5 U	1 J	80	2 U	1 J	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
FLUORENE	2 U	5 U	5 U	2 U	5 U	1 J	25 U	2 U	1 J	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004 D	GZ-318-050609	GZ-318-052004	GZ-318-050609 D	GZ-318-050609 AVG	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609
LOCATION ID	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318	GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323
SAMPLE DATE	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09	05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	FD	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
HEXACHLOROBUTADIENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
HEXACHLOROCYCLOPENTADIENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
HEXACHLOROETHANE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
INDENO(1,2,3-CD)PYRENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
ISOPHORONE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
NAPHTHALENE	2 U	5 U	5 U	2 U	5 U	2 U	25 U	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
NITROBENZENE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
N-NITROSODIMETHYLAMINE	2 U	NA	NA	2 U	NA	2 U	NA	2 U	2 U	2 U	NA	2 U	NA	NA	NA	2 U
N-NITROSO-DI-N-PROPYLAMINE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
N-NITROSODIPHENYLAMINE	2 U	10 U	10 U	2 U	10 U	2 U	50 U	2 U	2 U	2 U	5 U	2 U	10 U	10 U	10 U	2 U
PENTACHLOROPHENOL	10 U	50 U	50 U	10 U	50 U	10 U	250 U	10 U	10 U	10 U	25 U	10 U	50 U	50 U	50 U	10 U
PHENANTHRENE	2 U	5 U	5 U	2 U	5 U	2	48	2 U	1.5	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
PHENOL	5 U	10 U	10 U	5 U	10 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U
PYRENE	2 U	5 U	5 U	2 U	5 U	NA	48	2 U	2 U	2 U	2.5 U	2 U	5 U	5 U	5 U	2 U
METALS (UG/L)																
LEAD	0.83 U	NA	NA	0.83 U	NA	0.83 U	NA	0.83 U	0.83 U	0.83 U	NA	0.83 U	NA	NA	NA	0.83 U
DISSOLVED METALS (UG/L)																
LEAD	0.83 U	NA	NA	0.83 U	NA	0.83 U	NA	0.83 U	0.83 U	0.83 U	NA	0.83 U	NA	NA	NA	0.83 U
GC VOLATILES (UG/L)																
1,2-DIBROMO-3-CHLOROPROPANE	NA	NA	NA	NA	NA	0.01 U	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
1,2-DIBROMOETHANE	NA	NA	NA	NA	NA	0.01 U	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
PETROLEUM HYDROCARBONS (MG/L)																
DIESEL RANGE ORGANICS	NA	0.10 U	0.68	NA	0.68	2.14	84	NA	2.14	0.126	0.10 U	NA	0.23	0.10 U	0.10 U	0.373
FUEL OIL NO. 2	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
FUEL OIL NO. 6	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
GASOLINE RANGE ORGANICS	NA	NA	NA	NA	NA	0.10	NA	NA	0.10	0.01 U	NA	NA	NA	NA	NA	0.01 U
KEROSENE	NA	NA	NA	NA	NA	NA	84	NA	NA	NA	NA	NA	NA	NA	NA	NA
MINERAL SPIRITS	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
MOTOR OIL	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HYDROCARBONS	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-316-050409	GZ-316-052804	GZ-317-052004	GZ-317-050409	GZ-317-052004 D	GZ-318-050609	GZ-318-052004	GZ-318-050609 D	GZ-318-050609 AVG	GZ-319-050609	GZ-319-052504	GZ-320-050109	GZ-320-051904	GZ-321-051904	GZ-322-051904	GZ-323-050609
LOCATION ID	GZ-316	GZ-316	GZ-317	GZ-317	GZ-317	GZ-318	GZ-318	GZ-318	GZ-318	GZ-319	GZ-319	GZ-320	GZ-320	GZ-321	GZ-322	GZ-323
SAMPLE DATE	05/04/09	05/28/04	05/20/04	05/04/09	05/20/04	05/06/09	05/20/04	05/06/09	05/06/09	05/06/09	05/25/04	05/01/09	05/19/04	05/19/04	05/19/04	05/06/09
TOP DEPTH																
BOTTOM DEPTH																
SACODE	NORMAL	NORMAL	ORIG	NORMAL	DUP	ORIG	NORMAL	DUP	AVG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	FD	NM	NM	FD	NM	NM	NM	NM	NM	NM	NM	NM
TOTAL PETROLEUM HYDROCARBONS	NA	0.00 U	0.68	NA	0.68	2.24	84	NA	2.24	0.126	0.00 U	NA	0.23	0.00 U	0.00 U	0.373
TPH (C14-C28)	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
UNKNOWN HYDROCARBON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH														
BOTTOM DEPTH														
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VOLATILES (UG/L)														
1,1,1,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2,3-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2,3-TRICHLOROPROPANE	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	30 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2,4-TRIMETHYLBENZENE	1 U	0.60 J	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2-DIBROMO-3-CHLOROPROPANE	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	50 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,3,5-TRICHLOROBENZENE	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE	1 U	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,3-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
2,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U
2-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U
4-CHLOROTOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
4-ISOPROPYLTOLUENE	1 U	1 U	0.96	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U
ACETONE	50 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	50 U	50 U	50 U	500 U
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
BROMOBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH														
BOTTOM DEPTH														
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
BROMOMETHANE	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	20 U
CARBON DISULFIDE	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
CHLORODIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
CHLOROETHANE	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	20 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
CHLOROMETHANE	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	20 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
CIS-1,3-DICHLOROPROPENE	0.50 U	1 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U	0.50 U	5 U
DIBROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
DICHLORODIFLUOROMETHANE	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
DIETHYL ETHER	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
DIISOPROPYL ETHER	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
ETHYL TERT-BUTYL ETHER	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
HEXACHLOROBUTADIENE	0.60 U	1 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	1 U	0.60 U	0.60 U	0.60 U	6 U
ISOPROPYLBENZENE	1 U	2.1	2.7	0.65	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
M+P-XYLENES	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
METHYLENE CHLORIDE	2 U	5 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	2 U	2 U	2 U	20 U
NAPHTHALENE	5 U	0.60 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	50 U
N-BUTYLBENZENE	1 U	1 U	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6.3 J
N-PROPYLBENZENE	1 U	1.3	1.6	0.53	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
O-XYLENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
SEC-BUTYLBENZENE	1.7	10	8.7	1 U	1 U	3.4	1 U	1.4	1 U	1 U	1 U	2.2	1 U	9.2 J
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
TERT-AMYL METHYL ETHER	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA
TERT-BUTYLBENZENE	1 U	1.3	1.1	1 U	1 U	0.65 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
TERTIARY-BUTYL ALCOHOL	NA	20 U	NA	NA	NA	NA	NA	NA	NA	20 U	NA	NA	NA	NA
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH														
BOTTOM DEPTH														
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TETRAHYDROFURAN	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
TRANS-1,3-DICHLOROPROPENE	0.50 U	1 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U	0.50 U	5 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
TRICHLOROFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
SEMIVOLATILES (UG/L)														
1,2,4-TRICHLOROBENZENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
1,2-DIPHENYLHYDRAZINE	25 U	NA	10 U	50 U	10 U	10 U	10 U	10 U	10 U	NA	5 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
2,3,4,6-TETRACHLOROPHENOL	NA	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2,4-DINITROPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
2,6-DICHLOROPHENOL	NA	5 U	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA
2,6-DINITROTOLUENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
2-CHLORONAPHTHALENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
2-CHLOROPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
2-METHYLPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
2-NITROANILINE	120 U	2 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	2 U	25 U	50 U	50 U	50 U
2-NITROPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
3&4-METHYLPHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
3,3'-DICHLOROBENZIDINE	50 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U	20 U	20 U	10 U	20 U	20 U	20 U
3-NITROANILINE	120 U	2 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	2 U	25 U	50 U	50 U	50 U
4,6-DINITRO-2-METHYLPHENOL	120 U	5 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	5 U	25 U	50 U	50 U	50 U
4-BROMOPHENYL PHENYL ETHER	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH														
BOTTOM DEPTH														
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-CHLORO-3-METHYLPHENOL	50 U	10 U	20 U	100 U	20 U	20 U	20 U	20 U	20 U	10 U	10 U	20 U	20 U	20 U
4-CHLOROANILINE	50 U	2 U	20 U	100 U	20 U	20 U	20 U	20 U	20 U	2 U	10 U	20 U	20 U	20 U
4-CHLOROPHENYL PHENYL ETHER	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
4-NITROANILINE	120 U	2 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	2 U	25 U	50 U	50 U	50 U
4-NITROPHENOL	120 U	5 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	5 U	25 U	50 U	50 U	50 U
ACENAPHTHENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
ACENAPHTHYLENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
ANILINE	120 U	2 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	2 U	25 U	50 U	50 U	50 U
ANTHRACENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
AZOBENZENE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA
BENZIDINE	NA	20 U	NA	NA	NA	NA	NA	NA	NA	20 U	NA	NA	NA	NA
BENZO(A)ANTHRACENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
BENZO(A)PYRENE	12 U	0.10 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
BENZOIC ACID	120 U	10 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	10 U	25 U	50 U	50 U	50 U
BENZYL ALCOHOL	50 U	5 U	20 U	100 U	20 U	20 U	20 U	20 U	20 U	5 U	10 U	20 U	20 U	20 U
BIS(2-CHLOROETHOXY)METHANE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
BIS(2-CHLOROISOPROPYL)ETHER	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	150	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	52	10 U	10 U
BUTYL BENZYL PHTHALATE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
CARBAZOLE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA
CHRYSENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
DIBENZOFURAN	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
DIETHYL PHTHALATE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
DIMETHYL PHTHALATE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
FLUORANTHENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
FLUORENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH														
BOTTOM DEPTH														
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
HEXACHLOROBENZENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
HEXACHLOROETHANE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
ISOPHORONE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
NAPHTHALENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
NITROBENZENE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
N-NITROSODIMETHYLAMINE	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
N-NITROSODIPHENYLAMINE	25 U	2 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	2 U	5 U	10 U	10 U	10 U
PENTACHLOROPHENOL	120 U	10 U	50 U	250 U	50 U	50 U	50 U	50 U	50 U	10 U	25 U	50 U	50 U	50 U
PHENANTHRENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
PHENOL	25 U	5 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U
PYRENE	12 U	2 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	2 U	2.5 U	5 U	5 U	5 U
METALS (UG/L)														
LEAD	NA	0.83 U	NA	NA	NA	NA	NA	NA	NA	0.83 U	NA	NA	NA	NA
DISSOLVED METALS (UG/L)														
LEAD	NA	0.83 U	NA	NA	NA	NA	NA	NA	NA	0.83 U	NA	NA	NA	NA
GC VOLATILES (UG/L)														
1,2-DIBROMO-3-CHLOROPROPANE	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM HYDROCARBONS (MG/L)														
DIESEL RANGE ORGANICS	1.5	2.01	8.6	14	0.10 U	0.55	0.10 U	0.58	0.10 U	NA	0.14	0.35	0.19	23
FUEL OIL NO. 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FUEL OIL NO. 6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GASOLINE RANGE ORGANICS	NA	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KEROSENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MINERAL SPIRITS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MOTOR OIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HYDROCARBONS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

TABLE
ANALYTICAL RESULTS - GROUNDWATER
TANK FARM 3, NAVSTA NEWPORT, NEWPORT, RHODE ISLAND

SAMPLE ID	GZ-323-052504	GZ-324-050609	GZ-324-052604	GZ-325-052604	GZ-326-052604	GZ-327-052704	GZ-328-051704	GZ-329-052004	GZ-330-052004	GZ-332-050409	GZ-332-052504	GZ-333-052704	GZ-334-052604	GZ-335-052704
LOCATION ID	GZ-323	GZ-324	GZ-324	GZ-325	GZ-326	GZ-327	GZ-328	GZ-329	GZ-330	GZ-332	GZ-332	GZ-333	GZ-334	GZ-335
SAMPLE DATE	05/25/04	05/06/09	05/26/04	05/26/04	05/26/04	05/27/04	05/17/04	05/20/04	05/20/04	05/04/09	05/25/04	05/27/04	05/26/04	05/27/04
TOP DEPTH														
BOTTOM DEPTH														
SACODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SUBMATRIX	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC TYPE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
TOTAL PETROLEUM HYDROCARBONS	1.5	2.06	8.6	14	0.00 U	0.55	0.00 U	0.58	0.00 U	NA	0.14	0.35	0.19	23
TPH (C14-C28)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UNKNOWN HYDROCARBON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LIGHT SHADING - DETECTED;
U - NOT DETECTED; J - QUANTITATION APPROXIMATE; R - REJECTED

APPENDIX D-5
SURFACE WATER ANALYTICAL RESULTS
TANK FARM 3, SASE
NAVSTA NEWPORT, NEWPORT RI

LOCATION	LAWTON BROOK		
SAMPLE ID	**SW-1**	**SW-2**	**SW-3**
SAMPLE DATE	**19950126**	**19950126**	**19950126**
SAMPLE CODE	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX	**SW**	**SW**	**SW**
SAMPLE TYPE	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX	**NA**	**NA**	**NA**
TOP DEPTH	**NA**	**NA**	**NA**
BOTTOM DEPTH	**NA**	**NA**	**NA**
VOLATILES (UG/L)			
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND
1,1,1-TRICHLOROETHANE	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND
1,1,2-TRICHLOROETHANE	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND
1,1-DICHLOROETHENE	ND	ND	ND
1,1-DICHLOROPROPENE	ND	ND	ND
1,2,3-TRICHLOROBENZENE	ND	ND	ND
1,2,3-TRICHLOROPROPANE	ND	ND	ND
1,2,4-TRICHLOROBENZENE	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND
1,2-DIBROMOETHANE	ND	ND	ND
1,2-DICHLOROBENZENE	ND	ND	ND
1,2-DICHLOROETHANE	ND	ND	ND
1,2-DICHLOROPROPANE	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	ND	ND	ND
1,3-DICHLOROBENZENE	ND	ND	ND
1,3-DICHLOROPROPANE	ND	ND	ND
1,4-DICHLOROBENZENE	ND	ND	ND
2,2-DICHLOROPROPANE	ND	ND	ND
2-BUTANONE	ND	ND	ND
2-CHLOROTOLUENE	ND	ND	ND
2-HEXANONE	ND	ND	ND
4-CHLOROTOLUENE	ND	ND	ND
4-METHYL-2-PENTANONE	ND	ND	ND
ACETONE	ND	ND	ND
BENZENE	ND	ND	ND
BROMOBENZENE	ND	ND	ND
BROMOCHLOROMETHANE	ND	ND	ND
BROMODICHLOROMETHANE	BMQL	ND	ND
BROMOFORM	ND	ND	ND
BROMOMETHANE	ND	ND	ND
CARBON DISULFIDE	ND	ND	ND
CARBON TETRACHLORIDE	ND	ND	ND
CHLOROBENZENE	ND	ND	ND
CHLOROETHANE	ND	ND	ND
CHLOROFORM	BMQL	ND	BMQL
CHLOROMETHANE	ND	ND	ND
CIS-1,2-DICHLOROETHENE	ND	BMQL	ND
CIS-1,3-DICHLOROPROPENE	ND	ND	ND
DIBROMOMETHANE	ND	ND	ND
DIBROMOCHLOROMETHANE	ND	ND	ND
DICHLORODIFLUOROMETHANE	ND	ND	ND
ETHYLBENZENE	ND	ND	ND
HEXACHLOROBUTADIENE	ND	ND	ND
ISOPROPYLBENZENE	ND	ND	ND
M+P-XYLENES	ND	ND	ND
METHYL TERT-BUTYL ETHER	ND	ND	ND
METHYLENE CHLORIDE	ND	ND	ND
NAPHTHALENE	ND	ND	ND
N-BUTYLBENZENE	ND	ND	ND
N-PROPYLBENZENE	ND	ND	ND
O-XYLENE	ND	ND	ND
P-ISOPROPYLTOLUENE	ND	ND	ND
SEC-BUTYLBENZENE	ND	ND	ND
STYRENE	ND	ND	ND
TERT-BUTYLBENZENE	ND	ND	ND
TETRACHLOROETHENE	1.6	15	7.8
TOLUENE	ND	ND	ND

APPENDIX D-5
SURFACE WATER ANALYTICAL RESULTS
TANK FARM 3, SASE
NAVSTA NEWPORT, NEWPORT RI

LOCATION	LAWTON BROOK		
SAMPLE ID	**SW-1**	**SW-2**	**SW-3**
SAMPLE DATE	**19950126**	**19950126**	**19950126**
SAMPLE CODE	**NORMAL**	**NORMAL**	**NORMAL**
MATRIX	**SW**	**SW**	**SW**
SAMPLE TYPE	**NORMAL**	**NORMAL**	**NORMAL**
SUBMATRIX	**NA**	**NA**	**NA**
TOP DEPTH	**NA**	**NA**	**NA**
BOTTOM DEPTH	**NA**	**NA**	**NA**
TRANS-1,2-DICHLOROETHENE	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	ND	ND	ND
TRICHLOROETHENE	BMQL	2.9	1.6
TRICHLOROFLUOROMETHANE	ND	ND	ND
TVPH	ND	0.13	0.011
VINYL ACETATE	ND	ND	ND
VINYL CHLORIDE	ND	ND	ND

TPH	ND	ND	ND

Data presented in this table is from samples collected during the Environmental Site Investigation (GZA, 1995)